



OTOMOBİL • HAFİF TİCARİ ARAÇLAR
PASSENGER CARS
LIGHT COMMERCIAL VEHICLES
PKW • PERSONENKRAFTWAGEN

CATALOGUE 2014

the
POWER
in your engine...



YENMAK
ENGINE PARTS

CONTENTS

Üretim Tesislerimiz / Production Facilities	IV - V
Paketleme / Packaging	VI
Kalite Sertifikalarımız / Quality Certifications	VII
Teknik Tanımlamalar / Technical Definitions	IX
Üretim Programı / Production Plan	1-226

ALFA ROMEO	1	LANDROVER	93 - 96
AUDI	2 - 20	MAZDA	97 - 99
BMC	21 - 22	MERCEDES BENZ	100 - 113
BMW	23 - 25	MITSUBISHI	114 - 116
CHEVROLET	26	NISSAN	117 - 120
CITROEN	27 - 32	OPEL	121 - 142
DACIA	33	PEUGEOT	143 - 160
DAEWOO	34	RANGE ROVER	161
FIAT	35 - 55	RENAULT	162 - 181
FORD	56 - 78	ROVER	182
HONDA	78	SEAT	182 - 191
HYUNDAI	79 - 84	SKODA	192 - 198
ISUZU	85 - 87	TATA	199
KIA	88 - 91	TOYOTA	199 - 203
LADA	92	VOLKSWAGEN	204 - 226

Production Facilities

Yenmak 1965 Yılında Kazım, Mustafa ve Fethi KAHVECİOĞLU tarafından küçük bir atölyede motor gömleği ile üretimine başladı.

Motor silindir gömleği üretimi ile kazandığı deneyim ve birikim ile 1995 yılında Konya Organize Sanayi bölgesinde kurmuş olduğu ileri teknoloji üretim hatlarına sahip piston fabrikası ile piston üretimine de başlamıştır.

Kalite standartlarını dünya standartlarına uygun hale getiren YENMAK, kendi markası ile üretilip pazarladığı ürünlerin kalitesinin ISO 9001 ve ISO/TS 16949 kalite yönetim sistemleri ile devamlılığını sağlamaktadır.

Toplamda 350 çalışanı ile OEM ve orijinal yedek parça sektörüne başarı ile ürün üretmeye devam ediyor.

YENMAK Incl. Co. Was founded in 1995 by Kazım, Mustafa and Fethi KAHVECİOĞLU in a small atelier.

In time YENMAK gained experience in cylinder liner production and founded the advanced technology piston production facility in the second industrial area in Konya in 1995.

YENMAK predisposed his own standards to international accepted quality management standards ISO 9001:2008 and ISO TS 16949 and ensure the continuity.

YENMAK employs 350 people totally withing all facilities and continues the successful production for OEM and original automotive spare part (Aftermarket) sector .



HEAD OFFICE & LOGISTICS / GENEL MERKEZ ve LOJİSTİK



PISTON & PISTON PIN PRODUCTION FACILITY / PİSTON VE PİSTON PİMİ ÜRETİM TESİSİ



CYLINDER LINER PRODUCTION FACILITY / SİLİNDİR GÖMLEĞİ ÜRETİM TESİSİ



ENGINE PARTS

P packaging

2003 yılından itibaren Yenmak ürünleri aşağıda gördüğümüz formatta ambalajlanıp pazarda yerini aldı.

Ambalaja ait detayları bulacağınız bilgiler aşağıda yer almaktadır:

Since 2003, Yenmak products can be packed according to the format shown below and taked place in the market.

Find detailed information in the below about packaging:

Özel ağız kapamalarımız sayesinde ürüne ilk ulaşan siz olun.

Be the first to reach the product thanks to special label.



Kutu üzerine yapıştırılan ve içindeki ürünleri tanıtmaya yönelik kutu etiketi.

Box label that pasted on the box for promote to products.

Ürün güvenliğinin sağlanması amacı ile kutu üzerine entegre halde bulunan 3D güvenlik hologramı.

Integrated 3D safety hologram on the box for the aim of ensuring product safety.



Ürün güvenliğinin sağlanması amacıyla uygulanan kutu altı güvenlik etiketi.
Box bottom safety label with the purpose of product safety ensurance.



ISO 16949



CERTIFICATE TUV NORD

Management system as per
ISO/TS 16949:2009
(3rd edition, 2009-06-15)

Evidence of conformity with the above standard has been furnished and is certified
in accordance with TUV NORD CERT procedures for

Yenmak Piston Segman San. ve Tic. A.Ş.
2. Org. San. Böl., Kırım Cad., Sarıçiçek Sok., No 12, Selçuklu
42050 Konya
Turkey

with the functions according to appendix

Scope:

Production of pistons and piston pins for internal combustion engines
without product design responsibility (according to section 7.3)

IAF Registration No. 0127313
Certificate Registration No. 44 111 115647

Valid from 2011-09-26
Valid until 2014-09-25

Kaas
Certification body
at TUV NORD CERT GmbH

Essen, 2011-09-26

This certification was conducted in accordance with the TUV NORD CERT auditing and certification procedures and is
subject to regular surveillance audits.

TUV NORD CERT GmbH Langemarkstrasse 20 45141 Essen www.tuv-nord-cert.com



02-IAO-QMC-01021

Page 1/2

SERTİFİKA TUV NORD

ISO/TS 16949:2009'a göre
(3. Baskı, 2009-06-15)
Yönetim Sistemi

Belirli standartla uyumluk kanıtlanmış ve TUV NORD CERT prosedürlerine göre,
aşağıda yer alan kuruluş için belirlenmektedir:

Yenmak Piston Segman San. ve Tic. A.Ş.
2. Org. San. Böl., Kırım Cad., Sarıçiçek Sok., No 12, Selçuklu
42050 Konya
Türkiye

Destek Fonksiyonları (Ek'e belirtilmiştir)

Kapsam:

İçten yanmalı motorlar için piston ve piston pimi üretimi
Ürün tasarımı sorumluluğu hariç (Madde 7.3'e göre)

IAF Tescil No 0127313
Sertifika Tescil No 44 111 115647

2011-09-26 tarihinden
2014-09-25 tarihine kadar geçerlidir

Kaas
TUV NORD CERT GmbH -
Sertifikasyon Merkezi

Essen, 2011-09-26

İşbu sertifikasyon TUV NORD CERT'in belgeli ve belgelendirme prosedürlerine göre gerçekleştirilmiştir ve düzenli aralıklarla
yapılan gözlem tetkiklerine tabidir.

TUV NORD CERT GmbH Langemarkstrasse 20 45141 Essen www.tuv-nord-cert.com



02-IAO-QMC-01021

Sayfa 1/2



TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS

1- İmalatçı, Motor ve Araç Bilgileri

Sıralı , V-Motor, I-Tipi Motor, Kompresor
Benzin, Dizel, LPG (Propan), Kurşunsuz
Enjeksiyonlu, Katalik Konvertörlü, Karbüratörlü
Hava Soğutmalı , Su Soğutmalı

1-Manufacturer, Engine and Vehicle Data

In-Line Engine, V-Engine, I-Engine, Compressor
Gasoline, Diesel, Natural (Propane), Multi-Fuel
Injection, Catalytic Converter, Carburetor
Turbocharged, Intercooled
Air-Cooled, Water Cooled

2- Silindir Sayısı

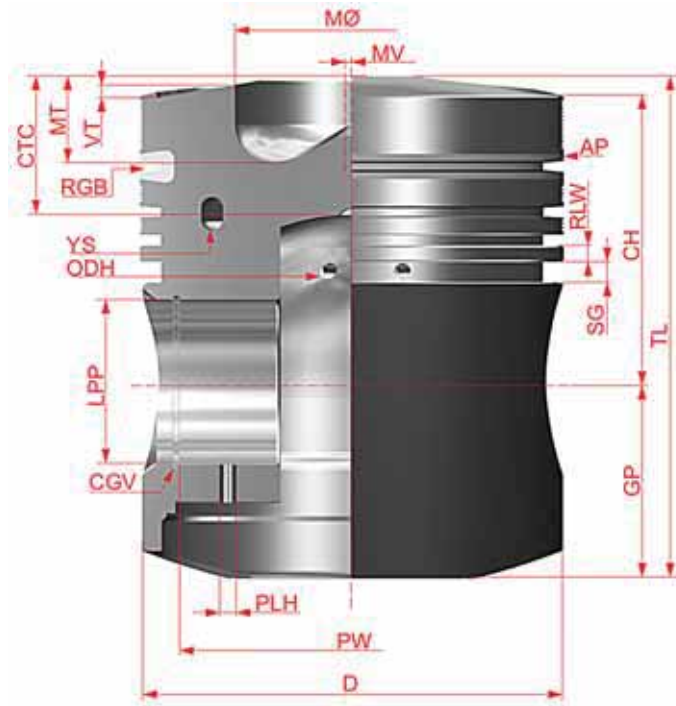
3-Nominal Silindir Çapı

4- Başlıca Piston Ölçüleri

2-Number of Cylinders

3-Nominal Cylinder Diameter

4- Principal Piston Dimensions

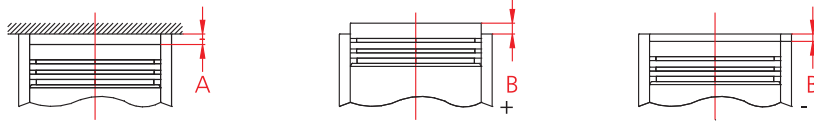


D = Çap (Silindir çapı)
CH = Kompresyon yüksekliği +
Fazlalık - Yanma hücre derinliği
TL = Toplam yükseklik
GP = Etek boyu
MØ = Yanma odası çapı
MT = Yanma odası derinliği
CTC = Piston başı et kalınlığı
RLW = Yuva ara set yüksekliği
LPP = Pim deliği çapı
MV = Yanma Odası eksen kaçıklığı
RGB = Segman yuvası dış çapı
CGV = Pim emniyet segman yuvası
PW = Pim boyu
YS = Yağ soğutma kanalı
ODH = Yağ dönüş delikleri
PLH = Pim yağlama delikleri
VT = Supap derinliği
SG = Segman kanal genişliği
AP = Segman taşıyıcı

D = Diameter (Cylinder bore)
CH = Compression height + Dome - Cavity
TL = Total height
GP = Piston skirt length
MØ = Combustion chamber diam.
MT = Combustion chamber depth
CTC = Piston crown head thickness
RLW = Ring land width
LPP = Pin hole diameter
MV = Combustion chamber axial run-out
RGB = Ring groove outside diameter
CGV = Snap ring groove
PW = Pin length
YS = Oil cooling gallery
ODH = Oil drain holes
PLH = Pin lubricating holes
VT = Valve seat depth
SG = Ring groove width
AP = Ring carrier

5-Piston Mesafe Ölçüleri

- A - Silindir kafasına kadar olan ölçü
- B - Blok yüzeyinden piston başındaki ölçü

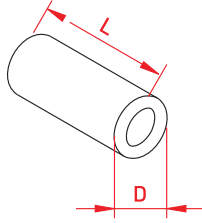


5-Piston Description Of Clearance Dimensions

- A - Clearance measured to cylinder
- B - Clearance measured to the top of the cylinder block.

6-Piston Pim Ölçüleri

- L = Pim boyu (mm)
- D = Pim dış çapı (mm)
- PDB = Piston pim deliği burçlu



6-Piston Pin Dimensions

- L = Pin length (mm)
- D = Pin outside diameter (mm)
- PDB = Pin boss bushing

Genel Segman Montaj Talimatı

İyi bir çalışma sağlayabilmek için segmanlar, en alttaki yağ sıyırma segmanından başlamak üzere piston yuvalarına sırasıyla yerleştirilmelidir. Segmanlar sağa sola eksenel yönde eğilmemelidir. Segmanların, segman pensesi ile ve gerektiğinden fazla açılmadan piston üzerinden geçirilmeleri sağlanmalıdır. Eğer fazla açılırlarsa segmanlar ya kırılırlar ya da kalıcı deformasyona uğrarlar. Deformasyona uğramış segmanlar görevlerini tam olarak yerine getiremezler.

Bir yüzeyinde YEN veya TOP markalaması bulunan segmanların markalamasının bulunduğu yüzleri yanma odasına bakacak şekilde yuvalarına takılmalıdır. Üzerinde herhangi bir markalama olmayan segmanlar her yönde takılabilir.

Spiral yaylı yağ segmanı montajı için önce spiral yayı segman yuvasına yerleştirip yayların ucunu birleştiriniz. Sonra dökme demir segmanı açarak yuva içindeki yayın üzerine yerleştiriniz. Bunu yaparken yayın uçlarının birleştiği yerin, segman ağzının tamamen karşı tarafına, yani segmanın sırt kısmına isabet etmesine dikkat ediniz.

General Piston Ring Assembly Instruction

To ensure a good working piston rings, starting from the lowest to the oil scraping piston ring should be placed into the piston grooves, respectively. Piston rings should not be bent in the axial direction from left to right. Piston rings should not be opened more with piston ring pliers while piston rings are assembled on the piston. If piston rings are opened more, piston rings are broken or permanently deformed. Deformed piston rings have not fulfilled their duties fully.

Located on a surface of piston rings YEN or TOP marks in the marking of the surface into the combustion chamber should be assembled into the piston ring grooves. Without any marking on the piston rings can be assembled in every direction.

At first coil spring should be assembled into piston ring groove and coil spring edges are jointed for spring loaded piston ring assembling. After the cast iron piston ring is assembled on the coil spring. In doing so, jointed coil spring edges should be located opposite to piston ring end gap, in other words coil spring edges should be located at the piston ring crown.

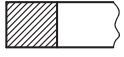
Segman kaplama ve yüzey işlemleri

- Ck = Krom Seramik
- Cr = Krom Kaplama
- Mo = Molibden Kaplama
- P = Fosfat Kaplama
- Fe = Ferrokosit Kaplama
- Cu = Bakır Kaplama
- Nt = Nitrit Kaplama
- Sn = Kalay Kaplama

Ring coating and surface treatments

- Ck = Chrome Ceramic
- Cr = Chrome Coating
- Mo = Molybdenum Coating
- P = Phosphated Coating
- Fe = Ferroxyd Coating
- Cu = Copper Coating
- Nt = Nitrided Coating
- Sn = Tin Coating

TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS



D = Dikdörtgen segman
Rectangular ring



D-IF = İç kenar üst yüzey pahlı dikdörtgen segman
Rectangular ring with internal bevel on top



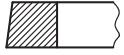
D-IFU = İç kenar alt yüzey pahlı dikdörtgen segman
Rectangular ring with internal bevel on bottom



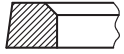
D-IW = İç kenar üst yüzey kademeli dikdörtgen segman
Rectangular ring with internal step on top



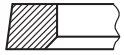
D-IWU = İç kenar alt yüzey kademeli dikdörtgen segman
Rectangular ring with internal step on bottom



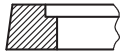
K = Konik segman
Taper faced ring



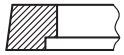
K-IF = İç kenar üst yüzey pahlı konik segman
Taper faced ring with internal bevel on top



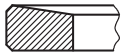
K-IFU = İç kenar alt yüzey pahlı konik segman
Taper faced ring with internal bevel on bottom



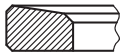
K-IW = İç kenar üst yüzey kademeli konik segman
Taper faced ring with internal step on top



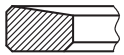
K-IWU = İç kenar alt yüzey kademeli konik segman
Taper faced ring with internal step on bottom



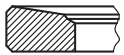
TT = Tek taraflı trapez segman
Half keystone ring



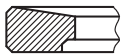
TT-IF = İç kenar üst yüzey pahlı tek taraflı trapez segman
Half keystone ring with internal bevel on top



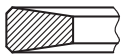
TT-IFU = İç kenar alt yüzey pahlı tek taraflı trapez segman
Half keystone ring with internal bevel on bottom



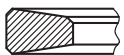
TT-IW = İç kenar üst yüzey kademeli tek taraflı trapez segman
Half keystone ring with internal step on top



TT-IWU = İç kenar alt yüzey kademeli tek taraflı trapez segman
Half keystone ring with internal step on bottom



T = Çift taraflı trapez segman
Keystone ring



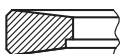
T-IF = İç kenar üst yüzey pahlı çift taraflı trapez segman
Keystone ring with internal bevel on top



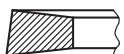
T-IFU = İç kenar alt yüzey pahlı çift taraflı trapez segman
Keystone ring with internal bevel on bottom



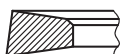
T-IW = İç kenar üst yüzey kademeli çift taraflı trapez segman
Keystone ring with internal step on top



T-IWU = İç kenar alt yüzey kademeli çift taraflı trapez segman
Keystone ring with internal step on bottom



TK = Çift taraflı trapez konik segman
Taper faced keystone ring



TK-IF = İç kenar üst yüzey pahlı çift taraflı trapez konik segman
Taper faced keystone ring with internal bevel on top



TK-IFU = İç kenar alt yüzey pahlı çift taraflı trapez konik segman
Taper faced keystone ring with internal bevel on bottom



TK-IW = İç kenar üst yüzey kademeli çift taraflı trapez konik segman
Taper faced keystone ring with internal step on top



TK-IWU = İç kenar alt yüzey kademeli çift taraflı trapez konik segman
Taper faced keystone ring with internal step on bottom



N = Burun sıyrıcı segman
Napier ring



N-IF = İç kenar üst yüzey pahlı burun sıyrıcı segman
Napier ring with internal bevel on top



N-IFU = İç kenar alt yüzey pahlı burun sıyrıcı segman
Napier ring with internal bevel on bottom



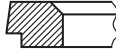
N-IW = İç kenar üst yüzey kademeli burun sıyrıcı segman
Napier ring with internal step on top



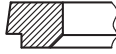
N-IWU = İç kenar alt yüzey kademeli burun sıyrıcı segman
Napier ring with internal step on bottom



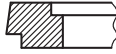
TN = Burun sıyrıcı konik segman
Taper faced napier ring



TN-IF = İç kenar üst yüzey pahlı burun sıyrıcı konik segman
Taper faced napier ring with internal bevel on top



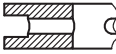
TN-IFU = İç kenar alt yüzey pahlı burun sıyrıcı konik segman
Taper faced napier ring with internal bevel on bottom



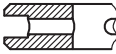
TN-IW = İç kenar üst yüzey kademeli burun sıyrıcı konik segman
Taper faced napier ring with internal step on top



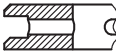
TN-IWU = İç kenar alt yüzey kademeli burun sıyrıcı konik segman
Taper faced napier ring with internal step on bottom



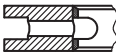
SC = Yarıklı yağ kontrol segmanı
Slotted oil control ring



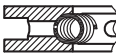
DC = Pahlı yağ kontrol segmanı
Bevelled edge oil control ring



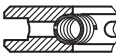
DB = Çift Pahlı yağ kontrol segmanı
Double bevelled oil control ring



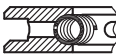
ES = Yaprak yaylı yarıklı yağ kontrol segmanı
Slotted oil control ring with expanderspring



SY = Spiral yaylı yarıklı yağ kontrol segmanı
Coil spring loaded slotted oil control ring



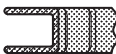
DY = Spiral yaylı kenarları pahlı yağ kontrol segmanı
Coil spring loaded bevelled edge oil control ring



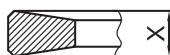
PS = Spiral yaylı kenarları çift pahlı yağ kontrol segmanı
Coil spring loaded double bevelled oil control ring



VF = Çelik bantlı VF yaylı yağ kontrol segmanı
Multi-piece steel-rail oil control



UB = Çelik bantlı U tipi yağ kontrol segmanı
U-flex ring (Multi-piece)



X = Segman kalınlığı (mm) / Ring thickness (mm)

Genel Piston Montaj Talimatı

1- Pistonun monte edileceği silindir iç yüzeyinde baklavamsı honlama çizgileri olmalıdır. Şayet montaja hazır piston kullanılmış ve/veya aşınmış silindire monte edilecekse, silindir iç yüzeyi honlama çizgilerinin uygunluğu açısından kontrol edilmelidir. Eğer silindir iç yüzeyinde honlama çizgileri kısmen veya tamamen kaybolmuş ve parlak bir yüzey oluşmuşsa, silindir iç yüzeyi honlama çizgileri tekrar oluşacak şekilde honlanmalıdır.

2- Bütün pistonlar, doğru ölçülü bir silindir içine monte edildiklerinde belirlenmiş olan doğru piston-silindir çalışma boşluğu oluşturmaları için hassas olarak imal edilirler. Silindir iç çapları, kutu üstündeki etiketlerde gösterilen ölçülere uygunluklarını kontrol etmek ve bu şekilde yeniden işlenmelerinin gerekli olup olmadığını saptamak için kontrol edilmelidir. Yıpranmış silindirlerin iç çapları üst ölçüye işlenmesi gerektiğinde, üst ölçü nominal çapı 0.000-0.020 mm toleransında işlenmesi tavsiye edilir.

3- Montaja hazır pistonlardan piston pimi, piston ve pime zarar vermeyecek şekilde uygun metodlarla çıkarılmalıdır. Piston pimleri ilgili pistonlara ölçüsel uygunlukları sağlanacak şekilde eşleştirilerek monte edilmiştir, rastgele değiştirilmemelidir.

4- Segmanların pistonla takılması esnasında segmanları deforme etmeyecek ve pistonu zarar vermeyecek şekilde uygun ekipman kullanınız. Pistonun silindire montajı esnasında uygun bir segman sıkma kelepçesi veya konik montaj kovanı kullanınız. Uygun şekilde segman sıkma işlemi gerçekleştirildikten sonra pistonu silindir içerisine aşırı kuvvet uygulayarak veya vurarak monte etmekten kaçınmalı, parmak kuvveti ile dikkatlice monte edilmelidir.

5- Pistonun silindire montajından önce pistonun dikkatlice temizlenmesi ve özellikle piston pim deliğinin temizlenerek yağlanması önemlidir. Montaj öncesi silindir içleri ilk çalışma esnasında yağlama gerçekleşene kadar piston ve silindirin zarar görmemesi için iyice yağlanmalıdır.

6- Şayet piston tepe kısmında montaj yönünü belirtir işarete yönelik markalama mevcutsa, montaj esnasında bu işaret dikkate alınarak uygun şekilde montaj gerçekleştirilmelidir.

7- Pistona, piston pimine ve segmana zarar vermemek için azami dikkat gösteriniz.

8- Pistonlar genel kabul gören normlar doğrultusunda birlikte kullanılacakları diğer parçalara uygun üretilmektedir. Bu sebeple sonradan üzerinde işlem yapmayınız.

9- Pim ve emniyet segmanları yeniden kullanılmamalıdır, her zaman yeni pim ve emniyet segmanı kullanınız.

10- Montajda kullanılacak biyel kolunun doğrusallığının kontrolü, doğabilecek çok ciddi sorunların önüne geçilmesi açısından önemlidir. Biyel kolunun doğrusallığı, montaj öncesinde uygun cihazlarla yeniden kontrol edilmelidir.

NOT: Bu montaj talimatında belirtilenlere uygun hareket edilmelidir. Talimata uygun olmayan montajdan kaynaklanacak sorunlardan üretici sorumlu tutulamaz.

General Piston Ring Assembly Instruction

General Piston Assembly Instruction

1. The inner surface of the piston cylinder should be rhombic honing lines. If ready assembled piston used and / or assembling to worn cylinder, cylinder rhombic honing lines should be controlled for suitability. If the inner surface rhombic honing lines partially or completely lost and the inner surface has a polished surface, the inner surface should be honed to rebuild rhombic honing lines.

2. All pistons are manufactured sensitive for piston-cylinder make up a correct running clearance when the pistons are assembled inside of the cylinders. Inner diameters of the cylinders should be controlled for suitability according to measurements that they are located on the label shown on the box. If inner diameters of the cylinders are not suitable, the cylinders should be remanufactured. Inside diameters of the worn cylinders must be manufactured to measure the top, the top measure nominal diameter should be manufactured with 0.000-0.020 mm tolerance that this tolerance range is recommended.

3. Piston pin should be removed without damage to piston and piston pin from ready for assembly of the pistons. Piston pins are assembled their relevant pistons according to suitable piston measurements, the piston pins must not be changed randomly.

4. During the assembly of the piston rings, should be used suitable equipment for not deformed piston rings and damaged pistons. During the assembly of the piston in the cylinder, should be used suitable piston ring compressor or tapered assembling sleeve. After piston rings has been clamped in accordance with procedures, pistons must not be assembled with using excessive force or hitting, the pistons must be assembled carefully with finger force.

5. Piston and piston pin must be cleaned carefully and especially piston pin hole must be lubricated before assembling the piston in the cylinder. Before the assembly, inside of the cylinders must be lubricated for during the first engine starting and until lubricating, prevent damage to the cylinders.

6. If assembly direction signs marking locates on the piston crown, during the assembly this direction signs must be taken into consideration for assembly.

7. Please pay utmost attention for avoid damage to piston, piston pin and piston ring.

8. Pistons are manufactured in the direction of generally accepted norms according to the other parts that the other parts are used with the pistons. Therefore, do not make any operation on the pistons.

9. Pins and snap rings should not be used again, please always use a new pin and snap ring.

10. Controlled of piston rods linearity is very important for prevent serious problems. Before assembly, linearity of the connecting rods must be re-controlled again with appropriate equipments.

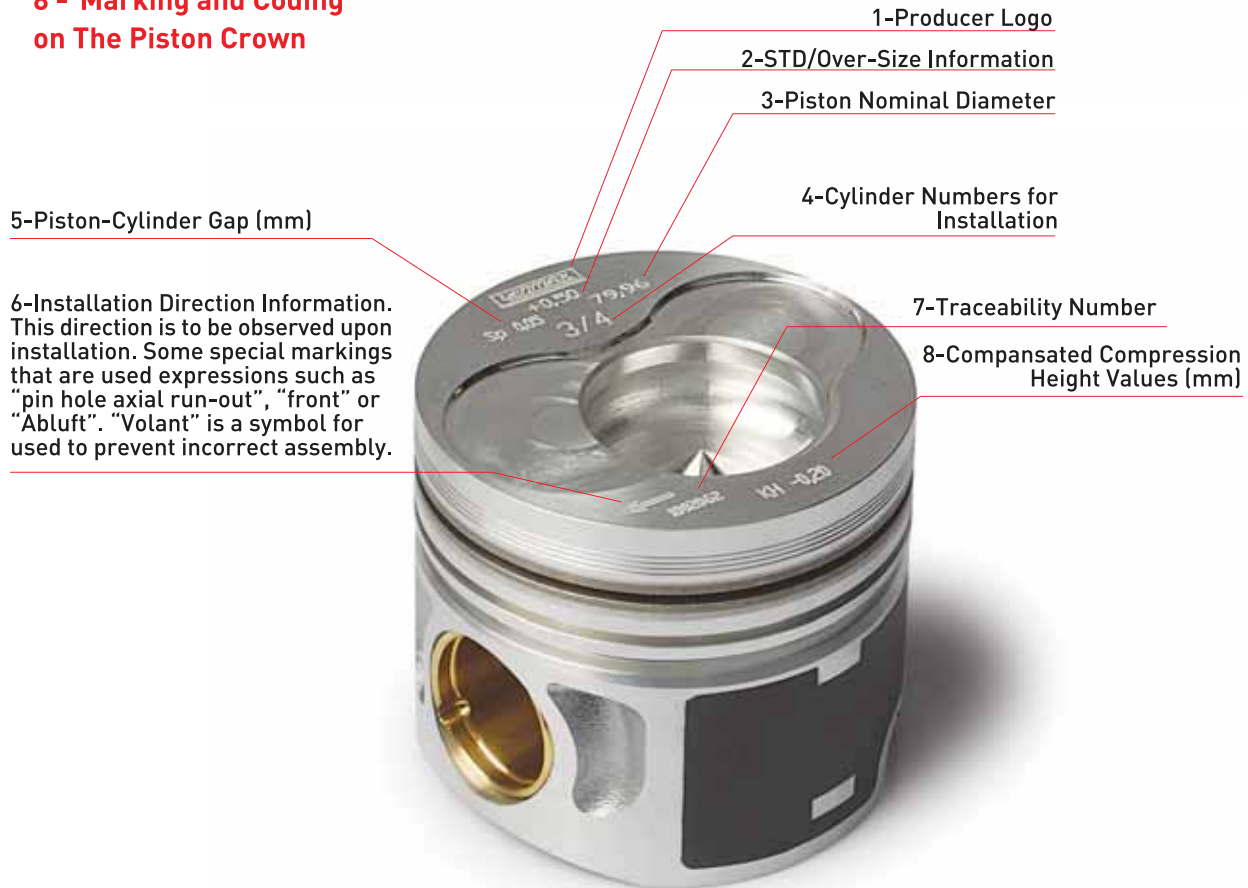
NOTE: Should act in accordance with specified in this assembly instructions. The manufacturer is not liable for faulty assembly problems result from fail to comply instructions.

TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS

8 - Piston Başındaki İşaretler



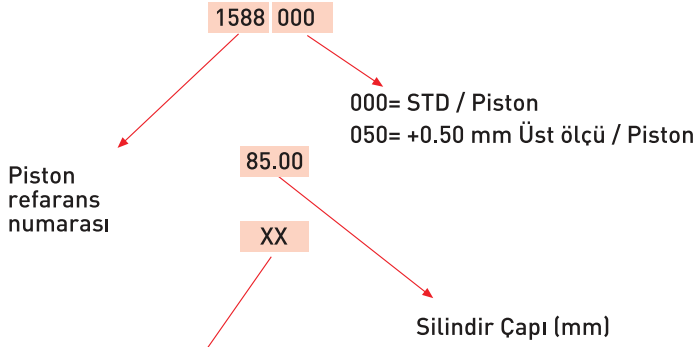
8 - Marking and Coding on The Piston Crown



TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS

9 - Piston Referans Numarası

Örnek

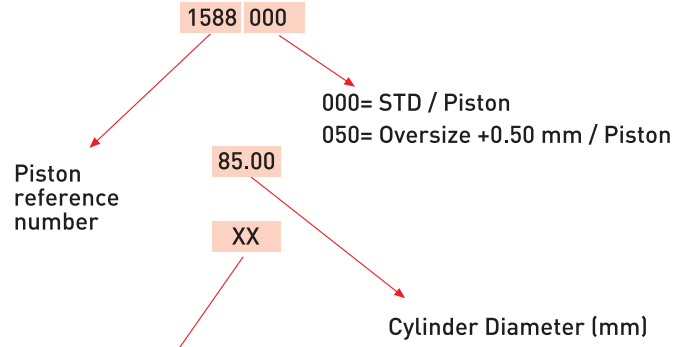


Piston Özellikleri

- AP = Alfinli Piston
- DAP = Çift Alfinli Piston
- HA = Üst kısmı sert anodized kaplama
- YS = Yağ soğutmalı piston

9 - Piston Reference Number

Example

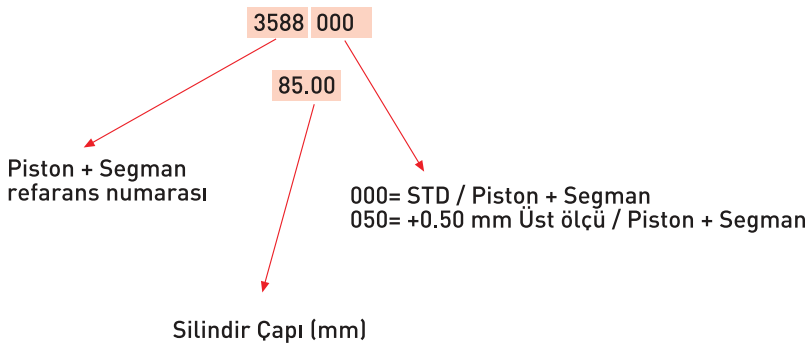


Piston Specifications Code

- AP = Ring insert
- DAP = Duple Ring insert
- HA = Hard-anodized crown
- YS = Cooling galery

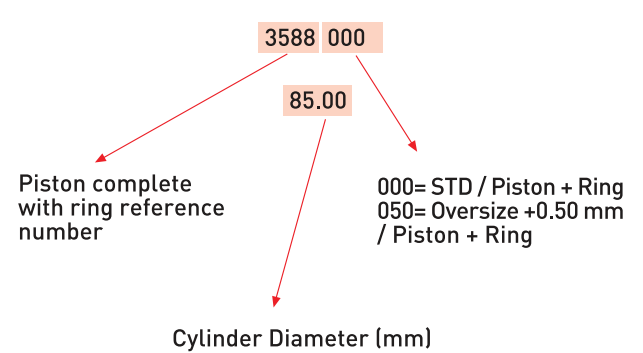
10 - Piston + Segman Referans Numarası

Örnek



10 - Piston Complete With Ring Reference Number

Example



11 - G mlek Referans Tanımlamaları

Standart g mlek referans numarası,

 rnek : 5840 000

Farklı g mlek referans numarası,

 rnek : 5840 050

G mlek referans numarasının sonunda bulunan 3 rakam, g mleğin farklı olduėu dıř  ap  l s  veya M.A.N. ve Daimler Mercedes-Benz'in bazı sulu g mleklerinde ise, fatura boyu  l s n n milimetre olarak farkını g sterir.

G mlek tip kodlamaları ise řu řekildedir

FF = T m  l leri bitmiř sulu ve kuru tip g mlekler.

SF = İ   l s  paylı, diėer  l leri bitmiř kuru g mlekler.

11 - Liner Reference Definations

Reference number for standart liner,

example : 5840 000

Reference number for oversize liner,

example : 5840 050

Last three digits means of difference from OD of standart dimension for dry type liners or flange height of some M.A.N. and Daimler Benz's wet liners by milimeter.

Liner type codes;

FF = Full finished dry and wet liners.

SF = Semi finished dry liners.

12 - Kit, Set, Referans Tanımlamaları

Kullanılan 4 rakamlı referans numarası; G mlek, piston, segmanlar ve pimi ihtiva eden KIT numaralarıdır. ** rnek** ; 7629

K ve S kodları;  r nlerin KIT veya SET olabileceėini g sterir. Eėer K ise; t m  montaj edilmiř bir kutuda, S ise; piston, segmanlar ve pim aynı kutuda, g mlek ise ayrı kutuda veya yan yana montaj edilmemiř manasına gelir.

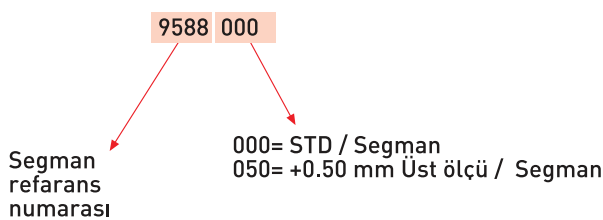
12 - Kit, Set Reference Definations

Four digits numbers includes reference number of liner, piston, pin and rings. **Example**; 7629

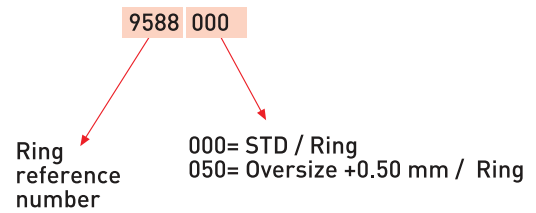
K and S codes are meaning of KIT or SET availability. If the code is K then assembly has been in the same box and montaged.

Else the code is S, it means of the piston, pin and rings in same box but liner is seperated.

13 - Piston + Segman Referans Numarası



13 - Piston Complete With Ring Reference Number



SİLİNDİR GÖMLEĞİ TEKNİK AÇIKLAMA

TSE 482' ye Göre Silindir Gömleklerinin Tanımı:

Silindir gömlekleri içten yanmalı motorlarda, silindir blokuna takılan, içinde pistonun hareket ettiği ve yakıtın yandığı, silindir biçiminde kır döküm makine elemanıdır. Motor Silindir Gömlekleri iki sınıfta incelenebilir.

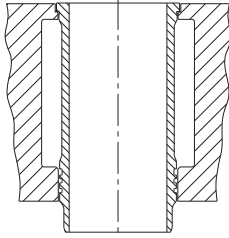
Yaş Silindir Gömlekleri:

Takıldıkları silindir blokunda dıştan su ile soğutulan gömleklerdir. 3 ana grupta toplanır:

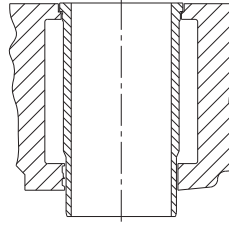
a- Flanşlı ve Kanallı: Silindir blokuna, üstten flanşla oturan, alt kısmında motor soğutma suyunun sızmasını sağlamak için conta kanalları bulunan gömleklerdir.(Şekil-1)

b- Flanşlı ve Kanalsız: Silindir blokuna, üstten flanşlı oturan ve alt kısmında conta kanalları bulunmayan gömleklerdir. Sızdırmazlık contaları blokta açılan kanallarda bulunur. (Şekil-2)

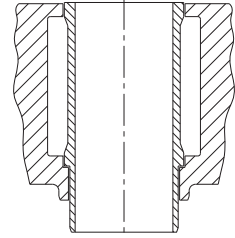
c- Çift Flanşlı:Silindir blokuna, motor soğutma suyunu kaçırmayacak şekilde üstten ve alttan flanşlı ve contalı olarak tespit edilen Silindir Gömleklerdir.(Şeki-3)



Şekil-Figure



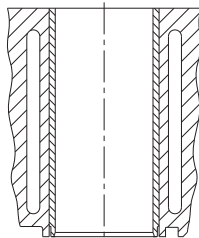
Şekil-Figure



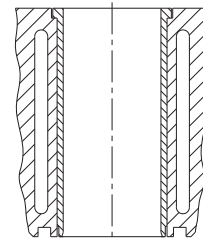
Şekil-Figure

Kuru Silindir Gömlekleri:

Takıldıkları silindir blokunda soğutma suyu ile direkt olarak temas etmeyen gömleklerdir. Şekil yönünden 2 ana sınıfa incelenebilir: Flanşlı (Şekil-4) Flanşsız-Düz (Şekil-5)



Şekil-Figure



Şekil-Figure

TECHNICAL EXPLANATIONS OF CYLINDER LINERS

Definition of Cylinder Liners according to TSE 482:

In the internal combustion motors the cylinder liners are cast machine elements that are placed in the cylinder block and in which the piston moves and the fuel is combusted. The Engine Cylinder Liners may be examined in two classes:

Wet Cylinder Liners:

These are liners that cool the cylinder block that they are placed in with external water. These are classified in 3 main groups:

a- Flanged and Channeled; these are liners that are placed on the cylinder block from the top with a flange and that have seal channels to prevent the leakage of motor cooling water in the lower section (Figure-1)

b- Flanged and without channel; these are liners that are placed on the cylinder block from the top with a flange and that do not have seal channels to prevent leakage.(Figure2)

c- Double Flange; These are the Cylinder Liners that are fixed on the cylinder block from the top and bottom with a flange and seal in a way to prevent water leakage.(Figure3)

Dry Cylinder Liners:

These are the liners that do not come into direct contact with the cooling water in cylinder block that they are placed. They can be classified under 2 main groups in term of shape:

Flanged (figure-4) Flangeless-plain (figure-5)

SİLİNDİR GÖMLEKLERİNİN MONTAJINDA DİKKAT EDİLECEK HUSUSLAR

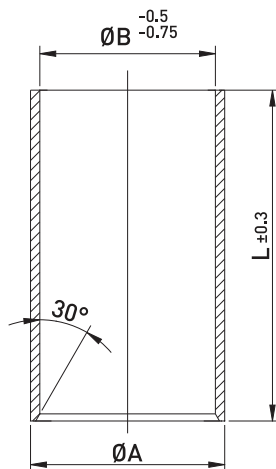
KURU SİLİNDİR GÖMLERİ İÇİN MONTAJ TALİMATI

Kuru silindir gömlekleri Flanşlı ve flanşsız olarak imal edilir. (Şekil-6) Kötü çalışma şartları altında bulunan flanşsız gömleklerde pistonun takılması halinde eksenel yönde sık sık görülmesi muhtemel olan kaymalara flanşlı gömleklerde rastlanmaz. Bu da flanşın sağladığı bir avantajdır.

Gömlekler, silindire preslenmeden önce mutlaka silindirler aşağıdaki listede gömlek dış çapı için (A) gösterilen Nominal ölçülere uygun olarak ya taşlanır veya hassas tornalama ve honlama işlemine tabi tutulur. Aşağıdaki toleranslara özellikle dikkat edilmelidir. (Şekil-7) Aksi takdirde ön gerilim çok düşük ise ısı transferinin sıhhatli olmayacağı, ön gerilim çok yüksek ise çok ince cidarlı olan gömleklerin silindire uyumsuzluklar sebep olma tehlikesini doğuracağı ve bu yüzden işletme arızalarına sebebiyet vereceği, ortaya çıkması muhtemel olan hususlardır. Dış çapları nihai ölçü olarak işlenen kuru gömlekler iç çapları yaklaşık olarak 0.5-0.75 mm küçük olarak tornalanarak sevk edilir.

Flanşlı kuru gömleği silindir bloğuna presle monte ederken, flanşın kopmasını önlemek maksadı ile, blokta flanş için işlenen deliğin, flanşın dış çapından (C) daha büyük olarak işlenmesi gerekir.

Flanşlı kuru gömlekler, pres geçme yapılırken, flanşın alt yüzeyinin bloktaki yuvanın oturma yüzeyine çok iyi bir şekilde oturması sağlanmalıdır.



Şekil-Figure 6

THE MATTERS TO BE TAKEN INTO CONSIDERATION IN ASSEMBLY OF CYLINDER LINERS

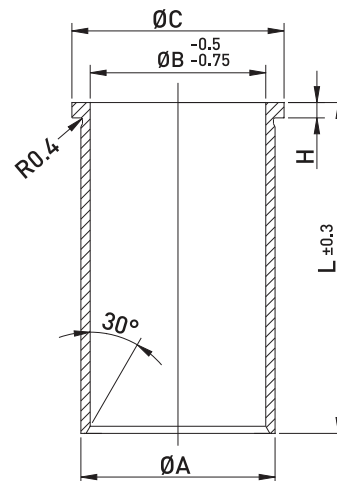
ASSEMBLY INSTRUCTIONS FOR DRY CYLINDERS LINERS

The dry cylinder liners are produced with or without flange. (Figure-6) The displacement frequently seen case of blocking of the piston in the flangeless liners that are under unsuitable operating conditions is not encountered in flanged liners. And this is an advantage that is provided by the flange.

Prior to the pressing of the liners to the cylinder, the cylinders are ground or fine machined in accordance with the rated dimensions specified for liner outer diameter (A) The following tolerances must be observed (Figure-7) Otherwise, the risk of unhealthy heat transfer in case of low pre-tension, incompliance with the cylinders with thin walls in case of high pre-tension and thus operation defects may be encountered. The internal diameter is approximately 0.5-0.75 mm dry liners with final outer diameter dimensions.

When assembling the flanged dry liner to the cylinder block by pressing, the hole processed for flange should be greater than the outer diameter (C) of the flange to prevent breaking of the flange.

When press assembling the flanged dry liner to the cylinder it should be made sure that the lower section of the flange is placed precisely on the having block.



Şekil-Figure 7

Bilindiği gibi gömlekler, flanşın alt tarafında yaklaşık 0.8 mm lik bir radyüse sahiptir. Gömleğin bloka montajında bu radyüsün oturmasını önlemek için, blokta flanşın oturduğu geçiş bölgesine 1.0 mm lik bir pah verilmelidir. Aksi taktirde gömlek flanşının kopması kaçınılmazdır.

Yeni gömlekler monte edilmeden önce motor blokundaki silindirler özenle temizlenmeli ve ölçüleri hassas olarak kontrol edilmelidir. Ovallık ya da koniklik 0.025 mm yi aşmamalıdır. Honlama yapılırken parlak bir yüzey elde edilmeye çalışılmalı ve motorun tipine göre yüzey pürüzlülük değerleri kontrol edilmelidir. Çok parlak ve pürüzsüz yüzeyler yağlamanın eksik olmasına sebep olacağı için bu durumdan kaçınılmalıdır.

Kuru silindir gömleklerinin presle basılmalarında 3000-5000 kg lık bir basınç yeterlidir. Montaj esnasında yağlama maddesi olarak katı bir madde kullanılacak olursa daha sonra ısıdan dolayı bu madde koklaşacak ve ısı tranferini zorlaştıracaktır. Presle yapılan montajdan sonra silindir blokunu conta yüzeyinden taşlamalar yüzey taşlama ile alınmalıdır.

Silindir bloğunun conta yüzeyini işleme tabi tutmak gerektiği taktirde, buna uygun olarak flanşın yuvadaki oturma yüzeyi daha derin işlenmelidir. Ayrıca dış çapları bitmiş ölçüde iç çapları ise hassas tornalanmış silindir gömlekleride mevcuttur. Bu gömlekler çok az bir honlama payına haiz olarak silindire preslenirler. Ve preslenmiş durumda honlanırlar. Silindirin iç çapı nominal ölçü toleransı +0 ile +0.015 mm. Silindir gömleğinin dış çapı ise nominal ölçü toleransı +0.012 ile 0.024 mm. arasındadır.

As it is known, the liners have a radius of 0.8 mm at the lower section of the flange. A tolerance of 1.0 mm should be given in the transition section on the block on which the flange is placed in assembly of the liner to the block in order to prevent placement of this radius. Otherwise the breaking of the liner flange is unavoidable.

Prior to mounting of the new liners, the cylinders on the motor block should be cleaned thoroughly and the dimensions should be controlled. The level of ovalness and conicity should not exceed 0.025 mm. When honing a bright surface should be provided and the level of surface roughness should be controlled according to the motor type. Excessively bright and smooth surfaces should be avoided due to the fact that they shall cause inefficient lubrication.

In pressing of the dry cylinder liners a pressure of 3000-5000 kg is efficient. If a solid substance shall be used as lubricator during assembly, this substance shall become coked, thus making the heat transfer difficult. Following the assembly by press the extrusions of the cylinder block from the seal surface should be removed by grinding.

If it shall be necessary to reprocess the seal surface of the cylinder block, the placement surface of the flange in the housing should be processed deeper. Moreover, liners with final outer dimensions and fine machined inner diameters are also available. These liners are pressed into the cylinders with a little honing tolerance and honed in pressed form. The rated dimension tolerance of the cylinder is between +0 and +0.015 mm. The rated dimensions tolerance of the outer diameter of the cylinder liner between 0.012 and 0.024 mm.

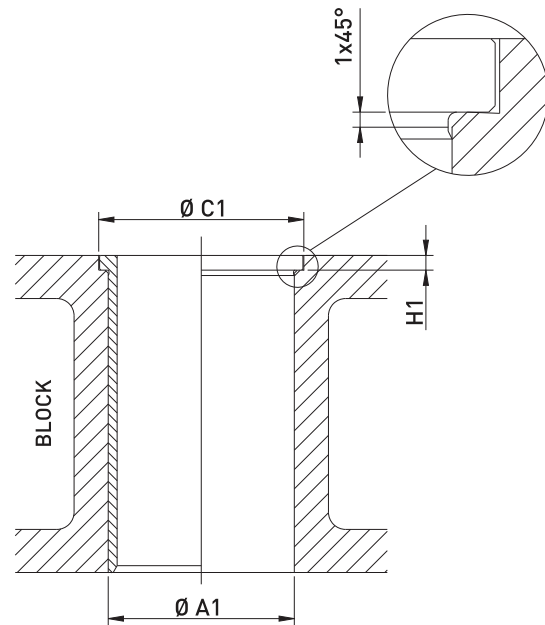
KURU SILİNDİR GÖMLEKLERİ İÇİN TOLERANS TABLOSU (mm)
TOLERANCE TABLE FOR DRY CYLINDER LINERS (mm)

	Liner Out Diametre Groups (mm) Gömlek Dış Çap Grupları (mm)		
	50 - 80	80 - 120	120 - 180
ØA	+0.03 +0.04	+0.04 +0.06	+0.05 +0.07
H	+0.2 -0	+0.2 -0	+0.2 -0
ØC	-0.06 -0.10	-0.06 -0.10	-0.06 -0.10

SİLİNDİR BLOK DELİĞİ İÇİN TOLERANS TABLOSU (mm)
TOLERANCE TABLE FOR CYLINDER BLOCK BORES (mm)

	Block Bore Diametre (mm) Blok Delik Çapları (mm)		
	50 - 80	80 - 120	120 - 180
Ø A	±0.01	±0.01	±0.01
H ₁	+0 -0.15	+0 -0.15	+0 -0.15
Ø C ₁	+0.10 +0.25	+0.10 +0.25	+0.10 +0.25

Şekil-Figure 8



Şekil-Figure 9

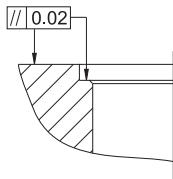
SULU SİLİNDİR GÖMLEKLERİ MONTAJ TALİMATI

YENMAK Motor Silindir Gömlekleri aşınmaya ve çekmeye karşı mukavim bir yapı özellikleri elde edilmesini sağlayan savurma döküm yöntemiyle imal edilir. Silindirde oturma yüzeylerinde tahribata sebep olmamak için eski gömlekler çıkartılırken büyük bir itina gösterilmelidir.

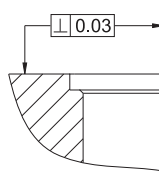
Motor blokunda silindirlerin temas yerleri kireç çamur ve diğer kirli maddelerden özenle temizlenmelidir. Temizlik esnasında çizilmeye yol açacak raspa, keski gibi aletler kullanılmamalıdır. Bu işlem için elverişli araç çelik telli fırçadır. Pas kireç tabakaları ile silindirde sabitleşen gömleklerin çıkarılması için üzerlerine konan bir araç takoz parçasına çekiçle vurulur, buna rağmen gömlek çıkartmak mümkün olmazsa o zaman hidrolik pres'e baş vurulur. Temizleme yapılırken oturma yüzeylerine son derece dikkat edilerek, hasar görmemeleri sağlanmalıdır.

Gömlek flanşı alt yüzeyinin oturduğu yüzey bloku yüzeyine paralel olmalı. (Şekil-10) da gösterildiği gibi düzgünlük ve düzlemsellik bakımından farklılık göstermemelidir. Ayrıca silindir eksenin, silindir blokunun conta yüzeyine dik olup olmadığı kontrol edilmelidir.(Şekil-11) Daima dikkat edilmesi gereken bir konuda silindirdeki oturma yüzeylerinin ezilerek tahrip edilmemeleridir.(Şekil 12) Gömlek flanş alt yüzeyindeki radyüsün (d) silindirdeki flanş oturma yüzeyi (a) daki köşeye oturmasını önlemek için silindir çapını (c) geçiş yaptığı noktada 0.5-1.0 mm. 45° lik bir radyüs verilmelidir.

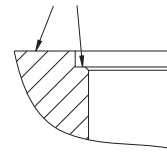
Kırılma tehlikesinin önlenmesi için sızdırmazlık kuvveti ile karşı kuvvet düşey olarak karşılıklı bulunmalıdır.



Şekil-Figure 10

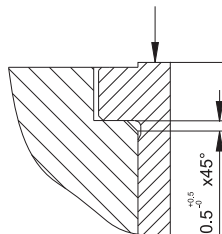


Şekil-Figure 11



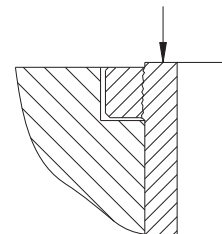
Şekil-Figure 12

Contaların delik çapı (b) ile gömleğin dış çapı (c) birbirine eşit olmalıdır. Yanma odasında tam bir sızdırmazlığın sağlanabilmesi için metal çerçeveli contaların kullanılması gerekir.



Şekil-Figure 13

The hole diameter (b) of the seals and the outer diameter (c) of the liner should be equal to one another. In order to provide for a full tightness the metal framed seals should be used.



Şekil-Figure 14

TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS

Gömleğin kolaylıkla yerleşip yerleşmediğini ve bloktaki silindirin çok büyük yahut çok geniş olup olmadığını tespit etmek için, gömlekler montajdan önce el ile Ring kullanmadan silindire sokulmalıdır. Bilhassa gömlek flanşının blok yüzeyine olan pozisyonunun doğru olup olmadığını tespit etmek için, montajdan önce gömlekleri ters çevirerek, flaş tarafından, flanş oturma yüzeyine yerleştirilmesi tavsiye edilir. Flanş bilindiği gibi, motorun soğumayan bölgesinde olup genişlemek durumundadır. Burada 0.3-0.5 mm. lik bir boşluk nazari dikkate alınmalıdır.

Bu montaj talimatında her fırsatta önemle vurgulanan şey, gömleği takma ve sökme işleminin maksada uygun olarak yapılması hususudur. Yani montaj esnasında çekiç v.b diğer ağır takımların kullanılmasıyla ki bu şekil doğru değildir, ortaya çıkan hatalar kötü sonuç verir.

Montaj esnasında kullanılacak lastik ringler mutlaka kaliteli olmalı ve kabarmaya, eskimeye dayanıklı, yağ ve ısıya karşı mukavim olmalıdır. Aksi halde kartere su inmesi, gömleğin sıkışmasına ve ölçülerin bozulmasına yol açar. Lastik ringlere her defasında yağlama sabunu sürülür ve böylece yuvalarına yerleştirilir.

Lastik ringler olarak yalnızca motor üreticileri tarafından kullanılan kaliteli markalar tercih edilmelidir. Bu tercihteki asıl sebep lastik ringlerin kabarmaya ve eskimeye dayanıklı, yağ ve ısıya karşı mukavim olmalarıdır.

Gömlekte kopmalara neden olan piston krepajı, uygun olmayan lastik ring kullanmanın bir neticesidir. Lastik ringlerin oturduğu kısımlar hiçbir zaman kazanmamalıdır.

Gömlekler el ile yerleştirildikten sonra silindirin ölçüsünü bir kere daha kontrol edilmesinde fayda vardır. Bu kontrol bilhassa lastik ringlerin bulunduğu bölgelerde ovalleşme ve büzülmelerin meydana gelebileceği yerlerde yapılmalıdır.

Gömlekler tamamen yerleştirildikten sonra silindir bloku su ile doldurularak sıkıştırılmalı ve sızdırmazlık durumu mutlaka kontrol edilmelidir.

In order to determine whether the liner is placed easily and whether the cylinder on the block is too big or too wide, the liners should be placed manually in the cylinder without a ring prior to assembly. Especially the correct positioning of the liner flange to the block surface should be controlled. Utilization of a drawing ink is recommended for a correct placement control. In order to determine whether the flange diameter has an efficient space it is recommended that the liners are turned inside out prior to the assembly and placed to the flange placement surface on the flange side. As it is known, the flange is in the section of the motor that is not cooled and it is subject to expansion. At this point a space of 0.3-0.5 mm should be taken into consideration.

The matter that is emphasized the most in these instructions is the matter of placement and removal of the liner in accordance with the purpose. In other words, the errors that may be caused by utilization of heavy tools such as hammers etc. may cause severe results.

The elastic rings that shall be used during assembly should be of high quality and resistant against swelling, wear, oil and heat. Otherwise, penetration of water into the crankcase may cause clogging of the liner or defects in dimensions. Lubrication soap is applied on the elastic rings every time and then they are placed to their housings.

Only the high quality brands used by motor producers should be used as elastic rings. The main reason of this preference is the fact that they are resistant against swelling, wear, lubrication and heat.

Piston creepage that causes breaking in the liner is a result of utilization of elastic rings. The sections on which the elastic rings are placed should never be scratched

Following manual placement of the liners, it shall be benefiting to check the cylinder dimension once again. This control should be made especially in the sections that may cause oval formation and shrinkage.

After the liners are placed completely, the cylinder block should be filled with water and the tightness must be controlled.



SULU GÖMLEK
WET CYLINDER LINER



HAVA SOĞUTMALI GÖMLEK
AIR-COOLED FINNED
TYPE CYLINDER LINERS



KURU GÖMLEK
DRY TYPE CYLINDER LINERS



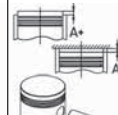
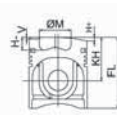
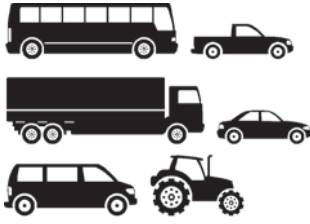
ÇELİK GÖMLEK
STEEL CYLINDER LINER

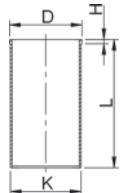
TEKNİK TANIMLAMALAR TECHNICAL DEFINITIONS

GÖMLEK MARKALAMA DETAYI

DETAIL OF LINER MARKING





Diesel Engine	4	93.00			9389 000		2385 000	4385 000	5721 000	8385
4JB1			51.85	31.00	2.000D	P	93.00		K=95.00	K,S
Isuzu ile ortak motor			-0.55	76.00	2.000TN	P	AP		L=181.00	
	2771 cm ³		-19.50		4.000DY	P	CP		H+F=0.90	
57 Kw (78 PS)			91.85						D=101.00	
Vehicle			MØ=43.90				Pist. Çıkıntısı 0 / +0.70		FF	
Karsan J9 Premier	2005...								CHR	
									Steel	
										

Motor, Araç tipi
Engine, Vehicle details

Silindir sayısı
Cylinder units

Nominal silindir çapı
Nominal cylinder-bore diameter (mm)

Kompresyon yüksekliği (mm)	Compression height (mm)
Supap cebi derinliği (mm)-Yükseklik (mm)	Valve pocket depth (mm)-Dome height (mm)
Yanma odası derinliği (mm)	Bowl depth (mm)
Toplam boy (mm)	Total length (mm)
Yanma odası çapı (mm)	Combustion chamber diameter (mm)
Piston şekli	Piston shape

Pim çapı (mm)	Pin diameter (mm)
Pim boyu (mm)	Pin length (mm)
Pim özelliği	Pin specification

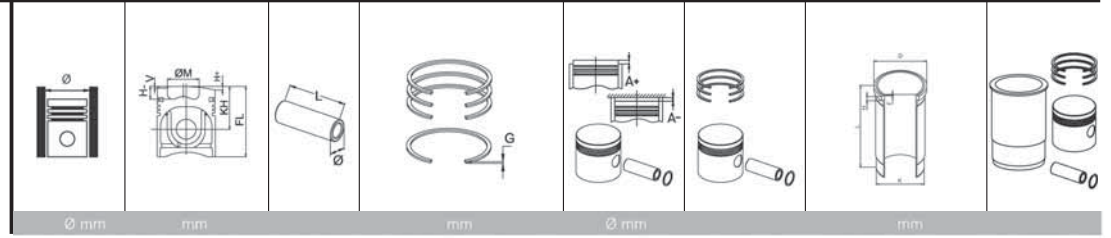
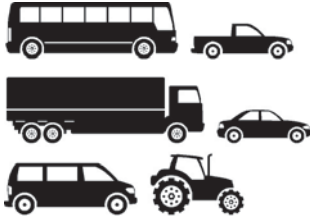
Segman referans no	Ring reference no
Segman kalınlığı (mm)	Ring thickness (mm)
Segman tipi	Ring types
Segman malzemesi	Ring material
Yüzey kaplama	Surface coating

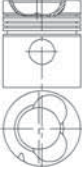
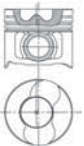
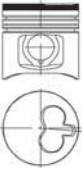
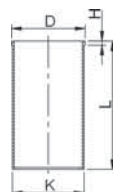
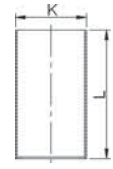
Piston referans no	Piston reference no
Piston çapı (mm)	Piston Diameter (mm)
Piston özellik kodları	Piston specification codes
Piston kafa çıkıntısı	Piston protrusion

Gömlek referans no	Liner reference no
K= Dış çapı (mm)	K= Outside diameter (mm)
L= Toplam boy (mm)	L= Total length (mm)
H+F= Flanş boyu	+Conta Derinliği (mm)
H+F=Flange width	+ Flange overlap (mm)
D=Flanş çapı (mm)	D= Flange diameter (mm)
Gömlek tipi	Liner Type
Gömlek Şekli	Liner Shape

Piston+Segman	Komple referans no
Piston+Ring	Complete reference no

KİT referans no KIT reference no
KİT,SET kullanabilirliği KIT,SET availability
K= KIT S= SET
Süper KİT referans no Super KIT reference no

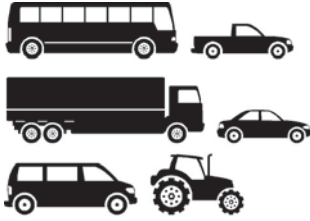


Diesel Engine AR37101 1910cm ³ 77-85 kW (105-115 PS) Vehicle 147 1.9 JTD 11.2000...05.2001 159 1.9 JTD 09.2000...12.2001	4	82.00	71.25 -2.60 -23.00 119.90 MØ=57.50 	34.925 90.00	9428 000 2.385D IF CrP 2.385D IW CrP 2.385D IW P 4.747DY CrP	1428 000 104.775 AP -0.150 / +0.40	3428 000		
			46.50 -0.50 -17.50 72.50 MØ=37.50 		9399 000 2.000D CkP 2.000TN P 2.000DY NtSt	2281 000 82.00 AP 0 / +0.20			
					9399 040	2281 040 82.40			
					9399 060	2281 060 82.60			
Diesel Engine 8140 61, 8140 61.300 2445 cm ³ 53 kW (72 PS) Vehicle 40 AR 8 1978...1985 30 AR 8, 35 AR 8 1978...	4	93.00	55.00 - -2.20 90.00 	32.00 75.00	9686 000 3.000D Cr 2.000TN P 4.000DY Cr	1686 000 93.00 AP HA	3686 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF 	S
					9686 040	1686 040 93.40	3686 040	5452 000 K=96.06 L=167.30 SF 	S
					9686 060	1686 060 93.60			

		Ø mm	mm		mm	Ø mm		mm	
Diesel Engine CY 1588 cm ³ 51 kW (70 PS) Vehicle 80 02/1982...03/1987 90 08/1984...07/1986	4	76.51	41.70 - -1.60 71.70	24.00 64.00	9301 000 1.750 D IF CrP 2.000 K IFU CrP 3.000 DY CrP	1301 000 76.51 AP HA 1. Çentik 1.53 mm +0.66 / +0.80 2. Çentik 1.57 mm +0.81 / +0.90 3. Çentik 1.61 mm +0.91 / +1.02	3301 000	5301 000 K=79.50 L=145.00 H+F=4.70 D=81.50 SF 	S
Diesel Engine RA,SB 1588 cm ³ 59 kW (80 PS) Vehicle 80 04/1988...10/1991 90 04/1988...09/1991	4							5301 050 K=80.00 L=145.00 H+F=6.00 D=82.00 SF	
Diesel Engine DE 1986 cm ³ 64 kW (87 PS) Vehicle 100 12/1981...12/1988	5							5313 000 K=79.50 L=142.00 H+F=4.70 D=82.50 SF	
Diesel Engine NC 1985 cm ³ 75 kW (102 PS) Vehicle 100 03/1988...12/1990	5					9301 050	1301 050 77.01	3301 050	
					9301 100	1301 100 77.51	3301 100		

			Ø mm	mm	mm	mm	Ø mm	Ø mm	mm	mm	mm
Diesel Engine CR 1598 cm ³ 40 kW (54 PS) Vehicle 80 08/1980...08/1992 Diesel Engine JK 1598 cm ³ 40 kW (54 PS) Vehicle 80 08/1981...08/1989 90 04/1987...07/1989 Diesel Engine CN 1588 cm ³ 51,5 kW (70 PS) Vehicle 100 10/1976...07/1989	4	76.51	41.70 - -1.60 71.70	24.00 64.00	9301 000 1.750D IF CrP 2.000K IFU CrP 3.000DY CrP	1305 000 76.51 AP 1.Çentik 1.40 mm Conta ile +0.67 / +0.80 2.Çentik 1.50 mm Conta ile +0.81 / +0.90 3.Çentik 1.60 mm Conta ile +0.91 / +1.02	3305 000	5301 000 K=79.50 L=145.00 H+F=4.70 D=81.50 SF 	S		
	4								5301 050 K=80.00 L=145.00 H+F=6.00 D=82.00 SF		
	4								5313 000 K=79.50 L=142.00 H+F=4.70 D=82.50 SF 		
						9301 050	1305 050 77.01	3305 050			
					9301 100	1305 100 77.51	3305 100				
Benzin Engine AUA, BBY 1390 cm ³ 55 kW (75 PS) Vehicle A2 1.4i 16V 06.2000...08.2005	4	76.51	28.92 -2.32 -1.98 49.92 MØ=61.90	17.00 54.00	9305 000 1.200D St 1.500K P 2.500SY P	2304 000 76.51	4304 000				
					9305 050	2304 050 77.01	4304 050				
Benzin Engine BCB, 16 valves 1600 cm ³ 77 kW (105 PS) Vehicle Bora, Golf 2001...2006	4	76.51	29.270 - -2.350 50.270 MØ=64.60	17.00 54.00	9306 000 1.200D NtSt 1.500K P 2.500VF St	2315 000 76.510	4315 000				
					9306 050	2315 050 77.010	4315 050				

		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine RA, SB, 23:1 1598 cm³ 59 kW (80 PS) Vehicle 80 TD 1989...1993	4	76.51	30.85 - -8.00 60.40	17.00 52.00	9302 000 1.200D CrP 1.500K P 2.500VF CrP	2321 000 76.50	4321 000	5313 000 K=79.50 L=142.00 H+F=4.70 D=82.50 SF 	S
Diesel Engine AKE Turbo, LLK, 24V 2496 cm³ 132 kW (180 PS) Vehicle A4 12/2000...05/2003 A6 11/1999...05/2003 A8 11/1999...09/2002	6	78.31	47.83 -1.38 -17.25 71.83 MØ=36.00	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2331 000 78.31 AP YS cyl 1/2/3	4331 000		
Diesel Engine AYM Euro3 Turbo, LLK, 24V 2496 cm³ 114 kW (155 PS) Vehicle A4 04/2001...06/2002 A6 06/2001...06/2002	6		47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2331 050 78.81	4331 050		
Diesel Engine BAU Euro3 Turbo, LLK, 24V 2496 cm³ 132 kW (179PS) Vehicle A4 06/2003...12/2004 A6 02/2003...08/2005	6		47.83 -1.138 -17.25 71.83 MØ=36.00	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2332 000 78.31 AP YS cyl 4/5/6	4332 000		
Diesel Engine BCZ / BFC Euro3 Turbo, LLK, 24V 2496 cm³ 120 kW (163 PS) Vehicle A4 06/2003... A6 02/2003...08/2005 A4 / A6 07/2002...08/2003	6		47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2332 050 78.81	4332 050		



Ø mm	mm	mm	mm	Ø mm	Ø mm	mm	mm

Diesel Engine

AFB / AKN
Turbo, LLK, 24V
8D-X-400 001 ...

2496 cm³

110 kW (150 PS)

Vehicle

A4 2.5 TDI

1999...09/2001

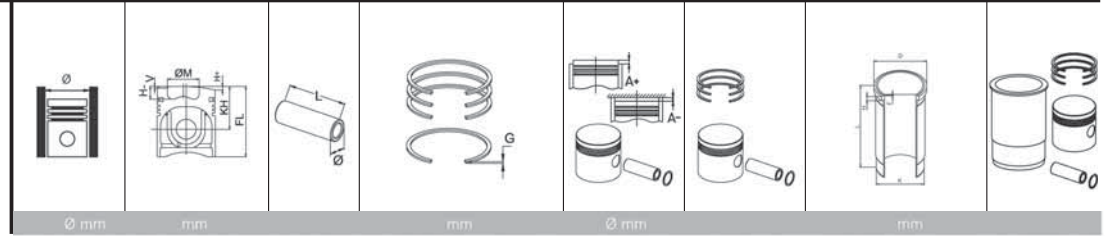
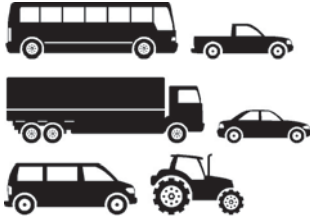
A6 2.5 TDI

04/1997...12/2001

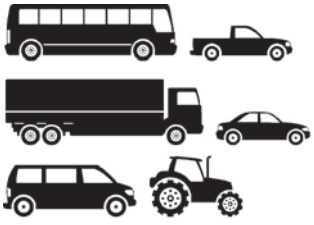
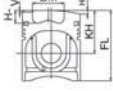
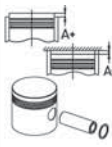
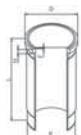
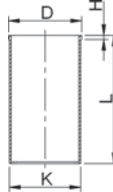
A8 2.5 TDI

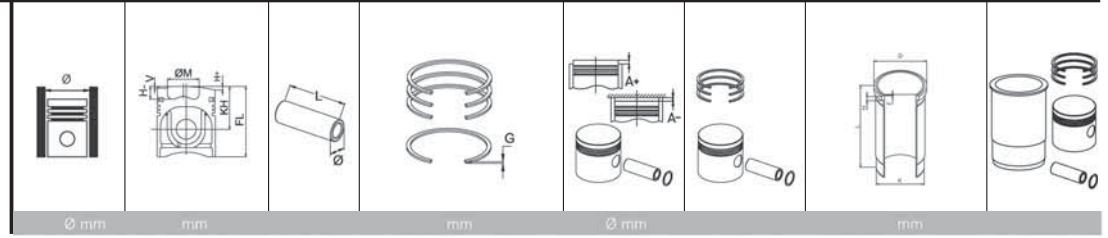
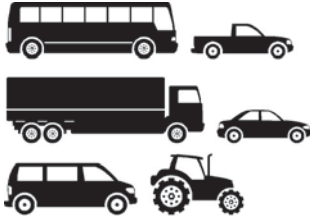
06/1994...12/2003

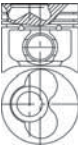
6	78.31	47.83 -1.38 -16.50 71.83 MØ=35.80 	26.00 65.50	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2333 000 78.31 AP YS cyl 1/2/3	4333 000	
		47.58 -1.38 -16.50 71.58 MØ=35.80		9331 050	2333 050 78.81	4333 050	
		47.83 -1.38 -16.50 71.83 MØ=35.80 	26 65.50	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2334 000 78.31 AP YS cyl 4/5/6	4334 000	
		47.58 -1.38 -16.50 71.58 MØ=35.80		9331 050	2334 050 78.81	4334 050	

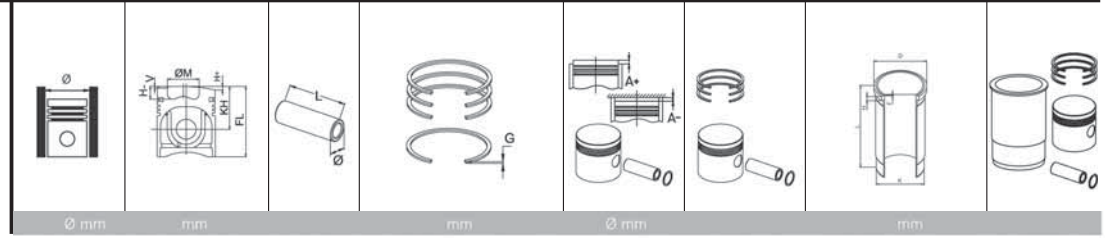
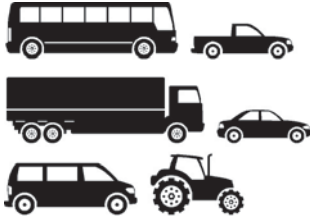


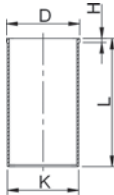
Diesel Engine	4	79.50	45.80 -0.65 -17.10 68.80 MØ=38.00	26.00 66.00 PDB	9309 000 1.750 D CrP 2.000 K IFU P 3.000 DY CrP	2319 000 79.50 AP YS Cyl.1/2 to be 1.45 mm Conta ile +0.91 / +1.00 1.53 mm Conta ile +1.01 / +1.10 1.61 mm Conta ile +1.11 / +1.20	4319 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF	S
ATD, 19:1 Turbo, Intercooler 1896 cm ³ 74 kW (101 PS) Vehicle A 3 1.9 TDi 01/2001...06/2003									
Diesel Engine AVB, 19:1 Turbo, Intercooler 1896 cm ³ 74 kW (101 PS) Vehicle A 4 1.9 TDi 04/2001...	4								
Diesel Engine AXR, Turbo 1896 cm ³ 74 kW (101 PS) Vehicle A 3 1.9 TDi 07/2001...06/2003	4				9309 050	2319 050 80.00	4319 050		
Diesel Engine BKC, R 4 Diesel 1889 cm ³ 77 kW (105 PS) Vehicle A 3 1.9 TDi 07/2003...	4		45.80 -0.65 -17.10 68.80 MØ=38.00	26.00 66.00 PDB	9309 000 1.750 D CrP 2.00 K IFU P 3.00 DY CrP	2320 000 79.50 AP YS Cyl.3/4 to be used with 2319	4320 000	5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	
Diesel Engine AAZ 1896 cm ³ 55 kW (75 PS) Vehicle 80 TD 09/1991....07/1995	4	79.51	45.65 - -1.90 71.70	26.00 66.00	9309 000 1.750 D CrP 2.000 K IFU P 3.000 DY CrP	1302 000 79.51 AP HA 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3302 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF	S
					9309 025	1302 025 79.76	3302 025		
					9309 050	1302 050 80.01	3302 050		
					9309 100	1302 100 80.51	3302 100		

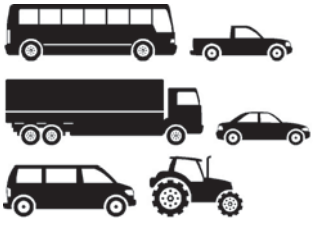
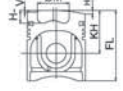
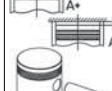
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 1Y 1896 cm ³ 47 kW (67 PS) Vehicle 80 08/1989...12/1991 Diesel Engine 3D, AAS 2370 cm ³ 60 kW (82 PS) Vehicle 100 1989...1994	4	79.51	39.65 - -1.90 65.65	24.00 64.00	9309 000 1.750 D CrP 2.000 K IFU P 3.000 DY CrP	1309 000 79.51 AP 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3309 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF	S
	5								
					9309 025	1309 025 79.76	3309 025	5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	
					9309 050	1309 050 80.01	3309 050		
					9309 100	1309 100 80.51	3309 100		
	4	79.51	41.80 - -6.10 73.80 MØ=65.00	22.00 55.00	9304 000 1.750 D CrP 2.000 TN P 4.000 DY CrP	1304 000 79.51	3304 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF	S
	4								
	4				9304 025	1304 025 79.76	3304 025		
					9304 050	1304 050 80.01	3304 050		
					9304 100	1304 100 80.51	3304 100		

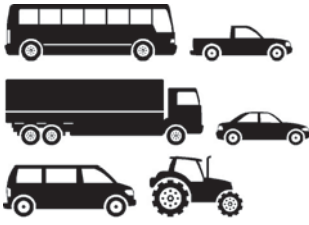
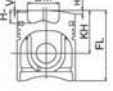
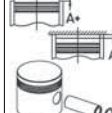
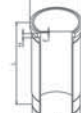
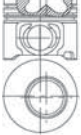
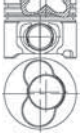


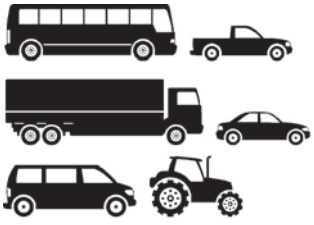
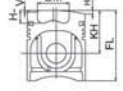
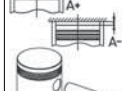
Diesel Engine 1Z, ALH, AHU, AHH, AGR 66 kW (90 PS) Vehicle 80 03/1994...07/1995 A4 01/1995...07/1996 A6 07/1994...06/1996 Cabrio 07/1995...07/1996 A3 1997... Diesel Engine AFN, AGV, AHF 81kW (110 PS) Vehicle A4 02/1996...07/1999 A6 04/1997..04/2001 A3 1997...	4	79.51	45.80 -1.10 -17.65 71.80 MØ=37.90 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2301 000 79.51 AP Cyl. 1/2 to be used 1.Çentik 1.45 mm Conta ile +0.91 / +1.00 2.Çentik 1.53 mm Conta ile	4301 000			
					9309 025	2301 025 79.76 3.Çentik 1.61 mm Conta ile +1.10 / +1.20	4301 025			
					9309 050	2301 050 80.01	4301 050			
					9309 100	2301 100 80.51	4301 100			
					45.55 -1.10 -17.65 71.55 MØ=37.90	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2302 000 79.51 AP Cyl. 3/4 to be used with 2301	4302 000		
						9309 025	2302 025 79.76	4302 025		
					45.55 -1.10 -17.65 71.55 MØ=37.90	9309 050	2302 050 80.01	4302 050		
						9309 100	2302 100 80.51	4302 100		

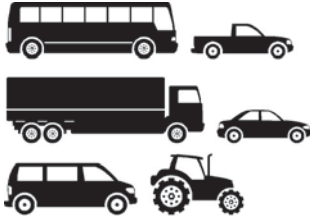


Diesel Engine ASZ, AVF, AWW 18.5:1, 8 Valves Turbo, Intercooler PDI 1896 cm³ 96 kW (130 PS) Vehicle A 3 1.9 TDI 05/2000...06/2003 A 4 1.9 TDI, A 6 1.9 TDI 2001...	4	79.51	45.80 -1.10 -17.90 68.80 MØ=38.00 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2313 000 79.51 AP YS Cyl.1/2 to be 1.45 mm Conta ile +0.91 / +1.00 1.53 mm Conta ile +1.01 / +1.03 1.61 mm Conta ile +1.11 / +1.20	4313 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
					9309 050	2313 050 80.01	4313 050	5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	
			45.80 -1.10 -17.90 68.00 MØ=38.00 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2314 000 79.510 AP YS Cyl.3/4 to be used with 2313	4314 000		
					9309 050	2314 050 80.01	4314 050		
Diesel Engine 1Z 1896 cm³ 66kW (90 PS) Vehicle 80 1.9 TDI 09.1991...07.1995 A4 1.9 TDI 01.1995...07.1996 A6 1.9 TDI 06.1994...10.1997 Cabriolet 1.9 TDI 07.1995...07.1996		79.51	45.80 -1.10 -17.65 71.80 MØ=37.90 	26.00 66.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2305 000 79.51	4305 000		
					9309 025	2305 025 79.76	4305 025		
			45.55 -17.65 -1.10 71.55 MØ=37.90		9309 050	2305 050 80.01	4305 050		
				9309 100	2305 100 80.51	4305 100			

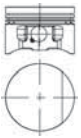
									
		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	mm
Benzin Engine BSE, BSF R 4 Gasoline 1598 cm ³ 75 kW (102 PS) Vehicle A 3 06/2005...	4	81.00	29.780 -0.70 -2.70 50.70 MØ=62.30	19.00 42.00	9303 000 1.000D Cr 1.200TN P 2.000VF CrPSt	2316 000 81.00	4316 000		
	4				9303 050	2316 050 81.50	4316 050		
Benzin Engine BFQ, R 4 Gasoline 1598 cm ³ 75 kW (102 PS) Vehicle A 3 07/2003...05/2005	4								
	4								
Benzin Engine BFQ, R 4 Gasoline 1598 cm ³ 75 kW (102 PS) Vehicle A 3 05/2002...06/2003	4								
	4								
Benzin Engine AHL, R 4 Gasoline 10.3:1 1595 cm ³ 74 kW (101 PS) Vehicle A 4 1999...	4								
	4								
Benzin Engine ALZ, R 4 Gasoline 1598 cm ³ 75 kW (102 PS) Vehicle A 4 07/2000...	4								
	4								
Benzin Engine ANA, R 4 Gasoline 10.3:1 1595 cm ³ 74 kW (100 PS) Vehicle A 4 08/1998...06/2000	4								
	4								
Benzin Engine ARM, R 4 Gasoline 10.3:1 1595 cm ³ 74 kW (100 PS) Vehicle A 4 08/1998...09/2001	4								
	4								
Benzin Engine AVU, R 4 Gasoline 1598 cm ³ 75 kW (102 PS) Vehicle A 3 05/2000...04/2002	4								
	4								

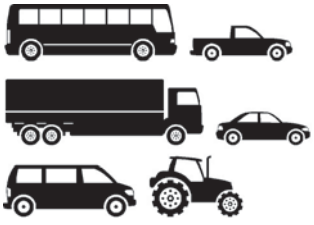
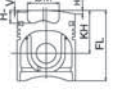
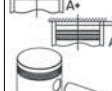
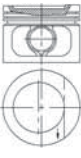
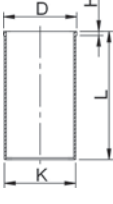
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine AXD, AXE, BLJ Euro 3 18:1 2460 cm ³ 2460 96 - 128 kW (130 - 174 PS) Vehicle Transporter T5	5	81.00	45.75 -1.40 18.20 69.75 MØ=37.80 	26.00 66.00 PDB	9318 000 2.500D IW CrP 2.000K IFU CrP 3.000DY CrP	2317 000 81.00 AP YS Cyl.1/2 to be 0 / +0.75	4317 000		
					9318 050	2317 050 81.50	4317 050		
Diesel Engine AXD, AXE, BLJ Euro 3 18:1 2460 cm ³ 96 - 128 kW (130 - 174 PS) Vehicle Transporter T5	5	81.00	45.75 -1.40 18.20 69.75 MØ=37.80 	26.00 66.00 PDB	9318 000 2.500D IW CrP 2.000K IFU CrP 3.000DY CrP	2318 000 81.00 AP YS Cyl.3/4/5 to be used with 2317	4318 000		
					9318 050	2318 050 81.50	4318 050		

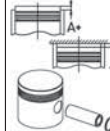
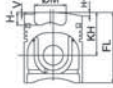
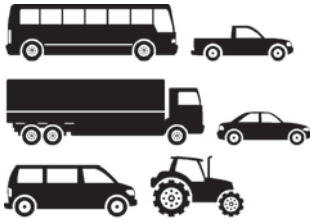
										
			Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine BMN 125 kW (170 PS) 1968 cm ³ Vehicle A3 II 2.0 TDI 03/2006...08/2012			4	81.00	45.80 - -17.80 68.80 MØ=38.00	26.00 66.00 PDB	9298 000 1.750 D CKP 2.000 K IFU P 3.000 DY CrP	2298 000 81.01 AP YS	4298 000	
Diesel Engine BVG 89kW (121 PS) 1968 cm ³ Vehicle A4 2.0 TDI 09/2005...09/2006 A6 2.0 TDI 09/2005...06/2006			4							
Diesel Engine BUY 120kW (163 PS) 1968 cm ³ 125kW (170 PS) Vehicle A3 II 2.0 TDI 06/2006...06/2008			4	45.80 - -17.80 68.80 MØ=38.00		9298 050	2298 050 81.51	4298 050		
Diesel Engine BRP 100 kW (136 PS) 1968 cm ³ Vehicle A4 2.0 TDI 11/2004...06/2008 A6 2.0 TDI 07/2004...08/2011			4							
Diesel Engine BRE 103kW (140 PS) 1968 cm ³ Vehicle A4 2.0 TDI 11/2004...06/2008 A6 2.0 TDI 07/2004...10/2008			4							
Diesel Engine AZV 100kW (136 PS) 1968 cm ³ Vehicle A3 II 2.0 TDI 05/2003...			4							
Diesel Engine BKD 103kW (140 PS) 1968 cm ³ Vehicle A3 II 05/2003...			4							
Diesel Engine BLB 103kW (140 PS) 1968 cm ³ Vehicle A4 2.0 TDI 11/2004...06/2008 A6 2.0 TDI 07/2004...10/2008			4							
Diesel Engine BNA 100kW (136 PS) 1968 cm ³ Vehicle A6 2.0 TDI 07/2004...08/2011 A4 2.0 TDI 11/2004...06/2008			4							

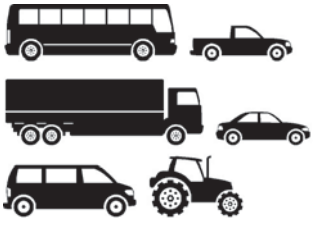
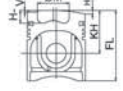
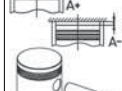
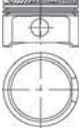


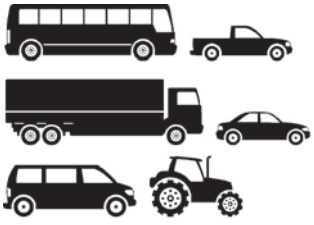
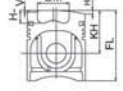
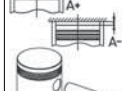
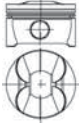
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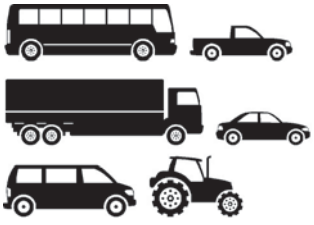
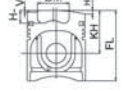
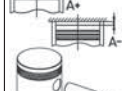
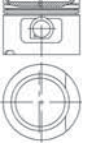
Benzin Engine ARG 1781 cm³ 92 kW (125 PS) Vehicle A4 1.8i 01/1995...09/2001	4	81.00	32.550 +3.60 - 56.55 	20.00 59.00	9296 000 1.50 D CrP 1.75 TN P 2.00 DY CrP	2336 000 81.01	4336 000		
Benzin Engine AGN 1781 cm³ 92 kW (125 PS) Vehicle A3 I 1.8i 09/1996...05/2003	4				9296 050	2336 050 81.51	4336 050		
Benzin Engine ADR 1781 cm³ 92 kW (125 PS) Vehicle A4 1.8 01/1995...09/2001 A6 1.8 12/1995...12/1997 Cabriolet 1.8i 01/1997...08/2000	4								
Benzin Engine APT 1781 cm³ 92 kW (125 PS) Vehicle A4 1.8 01/1995-09/2001	4								
Benzin Engine DS, JV 1781 cm³ 66 kW (90 PS) Vehicle 80, 100 01/1983...03/1989	4	81.01	32.20 - +1.30/-4.40 62.50 MØ=56.00 	20.00 57.00	9307 000 1.500D IF CrP 1.750TN P 3.000DY CrP	1307 000 81.01	3307 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	S
Benzin Engine DZ 1781 cm³ 82 kW (112 PS) Vehicle 80 01/1983...10/1991 90 08/1985...09/1991	4				9307 025	1307 025 81.26	3307 025		
Benzin Engine NE, PH 1781 cm³ 66 kW (90 PS) Vehicle 80, 100 1984...1991	4		31.90 +1.30/-4.40 - 62.20 MØ=56.00		9307 050	1307 050 81.51	3307 050		
					9307 100	1307 100 82.01	3307 100		

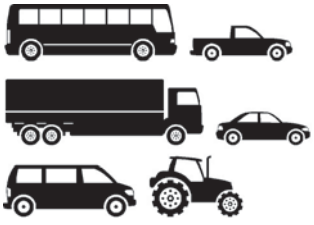
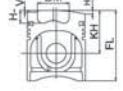
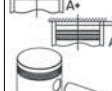
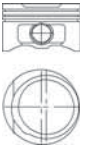
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine ABM 1595 cm ³ 52 kW (71 PS) Vehicle 80 01/1992...06/1994 Benzin Engine JU 1595 cm ³ 55 kW (75 PS) Vehicle 80 09/1983...07/1986	4	81.01	35.60 - +2.20/-2.30 66.80 MØ=62.60 	20.00 57.00	9307 000 1.500 D IF CrP 1.750 TN P 3.000 DY CrP	1308 000 81.01	3308 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	S
	4		35.30 - +2.20/-2.30 66.50 MØ=62.60		9307 025 9307 050 9307 075 9307 100	1308 025 81.26 1308 050 81.51 1308 075 81.76 1308 100 82.01	3308 025 3308 050 3308 075 3308 100		
	4	81.01	32.70 - -2.05 53.70 MØ=70.00 	20.00 59.00	9296 000 1.500 K MoP 1.750 TN P 2.000 VF Cr	1296 000 81.01	3296 000		
	4		32.40 - -2.05 53.40 MØ=70.00		9296 025 9296 050	1296 025 81.26 1296 050 81.51	3296 025 3296 050		
Benzin Engine ADP KAT, AEH KAT, APF KAT 1595 cm ³ 74 kW (101 PS) Vehicle A4 1.6i 11/1994...10/1996 Benzin Engine AKL 1595 cm ³ 74 kW (101 PS) Vehicle A3 1.6i 08/1997...06/2003	4	81.01	32.00 +0.70 -2.30 53.70 MØ=61.40 	20.00 57.00	9107 000 1.200 D StNt 1.500 TN P 2.000 VF CrSt	2307 000 81.01	4307 000		
	4		31.70 +0.70 -2.30 53.40 MØ=61.40		9107 025 9107 050	2307 025 81.26 2307 050 81.51	4307 025 4307 050		
	4	81.01	32.00 +0.70 -2.30 53.70 MØ=61.40 	20.00 57.00	9107 000 1.200 D StNt 1.500 TN P 2.000 VF CrSt	2307 000 81.01	4307 000		
	4		31.70 +0.70 -2.30 53.40 MØ=61.40		9107 025 9107 050	2307 025 81.26 2307 050 81.51	4307 025 4307 050		

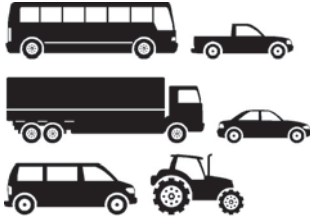
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		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine AMB Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,3:1 1781 cm ³ 125 kW (170 PS)		4	81.01	32.70 - -1.90 53.70 MØ=68.00 	19.00 50.00	9296 000 1.500D CrP 1.750TN P 2.000VF CrP	2299 000 81.01 HA	4299 000	
Vehicle A4 1.8i Turbo 20V 07/2001 ... 12/2004									
Benzin Engine ARX, AUM, AVJ, AWT 1781 cm ³ 110 kW (150PS)		4				9296 025	2299 025 81.26	4299 025	
Vehicle A3 1.8i Turbo 20V A4 1.8i Turbo 20V A6 1.8i Turbo 20V TT 1.8i Turbo 20V 09.2000 ... 06.2006						9296 050	2299 050 81.51	4299 050	
Benzin Engine ARY, AUQ 1781 cm ³ 132 kW (180 PS)		4							
Vehicle A3 1.8i Turbo 20V TT 1.8i Turbo 20V 2000 ...									
Benzin Engine BEX 1781 cm ³ 140 kW (190 PS)		4							
Vehicle A4 1.8i Turbo 20V 11.2002 ... 12.2004									
Benzin Engine BFB, BVP 1781 cm ³ 120 kW (163 PS)		4							
Vehicle A4 1.8i Turbo 20V TT 1.8i Turbo 20V 07.2002...06.2006									

										
			Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine AMK 1781 cm ³ 154 kW (209 PS) Vehicle A3 S3 1.8 I 03/1999...05/2003 03/199			4	81.01	32.70 - -2.10 53.70 MØ=70.30 	20.00 62.00	9294 000 1.500D 1.750TN 2.000DY StMo P CrP	2329 000 81.01 HA	4329 000	
Benzin Engine APY 1781 cm ³ 154 kW (209 PS) Vehicle A3 S3 1.8 I 03/1999...05/2003			4							
Benzin Engine APX 1781 cm ³ 165 kW (224 PS) Vehicle TT 1.8T 10/1998...06/2006			4		32.70 - -2.10 53.70 MØ=70.30		9294 050	2329 050 81.51	4329 050	
Benzin Engine BAM 1781 cm ³ 165 kW (224 PS) Vehicle A3 S3 I 10/2001...05/2003 TT 1.8T 10/1998...06/2006			4							
Benzin Engine AUL 1781 cm ³ 154 kW (209 PS) Vehicle A3 S3 1.8 I 03/1999...05/2003			4							
Benzin Engine BDW 2393 cm ³ 130 kW (177 PS) Vehicle A6 2.4i 05/2004...10/2008			6	81.01	30.30 -2.90 +3.60 53.90 	20.00 44.00	9335 000 1.200K 1.500TN 2.000DY StNt StNt	2335 000 81.01 HA	4335 000	
					30.30 -2.90 +3.60 53.90 MØ=		9335 050	2335 050 81.51	4335 050	

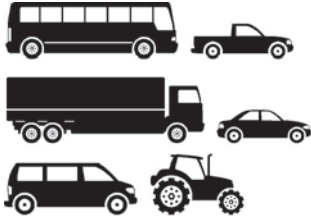
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine ABT 1984 cm ³ 66 kW (90 PS) Vehicle 80 09/1991..02/1994		4	82.51	30.90 - +0.89/-7.20 63.79 MØ=66.80	21.00 59.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	1312 000 82.51	3312 000	
Benzin Engine AAE 1984 cm ³ 74 kW (100 PS) Vehicle 100 12/1990...01/1994		4				9311 050	1312 050 83.01	3312 050	
						9311 100	1312 100 83.51	3312 100	
Benzin Engine AAD 1984 cm ³ 85 kW (115 PS) Vehicle Coupe 08/1990...07/1991 Quattro 12/1990...12/1992 100 12/1990...12/1992 80 09/1990...12/1991		4	82.51	30.90 - +0.89/-5.00 63.80 MØ=63.50	21.00 59.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	1311 000 82.51	3311 000	
Benzin Engine ABK 1984 cm ³ 85 kW (115 PS) Vehicle A6 06/1994...06/1996 Cabrio 03/1993...07/1998 Coupe 08/1991...12/1995 Ouattro 09/1991...07/1995 80 09/1991...07/1996		4				9311 050	1311 050 83.01	3311 050	
						9311 100	1311 100 83.51	3311 100	

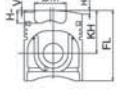
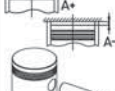
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine AAD 1984 cm ³ 85 kW (115 PS) Vehicle 80 08/1990...12/1991. 100 12/1990...12/1992 Benzin Engine ABK 1984 cm ³ 85 kW (115 PS) Vehicle 80 08/1991...07/1995 100 01/1993...07/1994 A6 06/1994...06/1996		4	82.51	30.90 - +0.89 / -5.00 51.79 MØ=64.00 	21.00 56.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	1303 000 82.51	3303 000	
						9311 050	1303 050 83.01	3303 050	
						9311 100	1303 100 83.51	3303 100	
Benzin Engine AAR 2309 cm ³ 98 kW (133 PS) Vehicle 100 12/1990...07/1994 A6 06/1994...06/1996 Benzin Engine NF 2309 cm ³ 100 kW (136 PS) Vehicle 100 08/1986...12/1990 Benzin Engine NG 2309 cm ³ 98 kW (133 PS) Vehicle 80 09/1991...11/1994 90 04/1987...12/1991		4	82.51	32.20 - +1.10/-4.40 52.80 MØ=59.60 	20.00 57.00	9295 000 1.500D Mo 1.750TN P 3.000DY CrP	1295 000 82.51	3295 000	
		4		31.90 - +1.10/-4.40 52.50 MØ=59.60		9295 025	1295 025 81.76	3295 025	
		4				9295 050	1295 050 83.01	3295 050	
		4				9295 100	1295 100 83.51	3295 100	



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Benzin Engine AAH, V6 2771 cm ³ 128 kW (174 PS) Vehicle A4, A6, A8 1994...1996	6	82.51	30.80 - +0.70/-4.25 60.50 MØ=59.85 	21.00 56.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	1294 000 82.51	3294 000		
Benzin Engine AEJ, V6 2771 cm ³ 120 kW (163 PS) Vehicle A6, A8 07/1996...10/1997	6		30.50 - +0.70/-4.25 60.20 MØ=59.85 		9311 025	1294 025 82.76	3294 025		
Benzin Engine AFC, V6 2771 cm ³ 128 kW (174 PS) Vehicle A6 08/1994...12/1994	6		30.50 - +0.70/-4.25 60.20 MØ=59.85 		9311 050	1294 050 83.01	3294 050		
					9311 100	1294 100 83.51	3294 100		
Benzin Engine ALT R 4 1984 cm ³ 95 kW (129 PS) Vehicle A 4 12/2000...03/2001 A 6 06/2001...01/2005	4	82.51	29.60 -2.51 -1.2 50.60 MØ=64.00 	19.00 44.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	2327 000 82.51	4327 000		
					9311 025	2327 025 82.76	4327 025		
					9311 050	2327 050 83.01	4327 050		
Benzin Engine ALG 2771 cm ³ 142kW (193 PS) Vehicle A4 10/1996...09/2001 A6 12/1995...01/2005 Benzin Engine ACK 2771 cm ³ 142kW (193 PS) Vehicle A4 (10/1996...09/2001) A6 12/1995...01/2005	6	82.51	30.16 -1.31/-1.32 +2.56 53.72 	21.00 56.00	9330 000 1.200K IF Mo 1.500K IWU Cr 2.000DY	2330 000 82.51	4330 000		
	6		29.86 -1.31/-1.32 +2.56 53.42 		9330 050	2330 050 83.01	4330 050		



							
Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Kompressor Engine

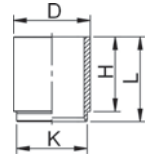
BMC-FORD

4

66.68

5330 000

K=72.95
L=88.90
H+F=77.50
D=79.20

FF

Diesel Engine

A50/A55, 23:1

1489 cm³

29.5 kW (40 PS)

Vehicle

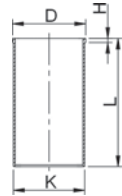
J2M 16, JM10, JU250, Marrix Oxford
1963....

4

73.025

5314 000

K=77.00
L=163.50
H+F=5.00
D=78.06

SF

Benzin Engine

A60

1622 cm³

36 kW (45 PS)

Vehicle

J2-J4-16JE/U/L
TM 25 Minibus-Pickup

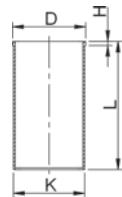
1962...1978

4

76.20

5335 000

K=81.05
L=155.00
H+F=5.00
D=82.05

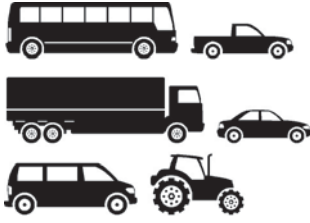
SF

5335 050

K=81.50
L=155.00
H+F=6.00
D=82.50

SF
5335 100

K=82.05
L=155.00
H+F=6.00
D=83.05

SF



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Diesel Engine

9.731

37 kW (50 PS)

1799 cm³

Vehicle

J-4-1000

Furgon Sava,

Sherpa 185/220/240/250

1975...

4

80.25

5336 000

K=97.46

L=167.50

H+F=3.81+0.65

D=104.45

FF

PHS



5337 000

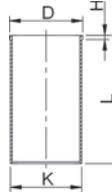
K=83.05

L=152.00

H+F=6.00

D=84.00

SF



5337 050

K=83.50

L=152.00

H+F=6.00

D=84.50

SF

5337 100

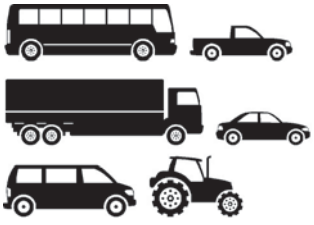
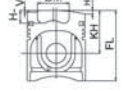
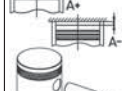
K=84.05

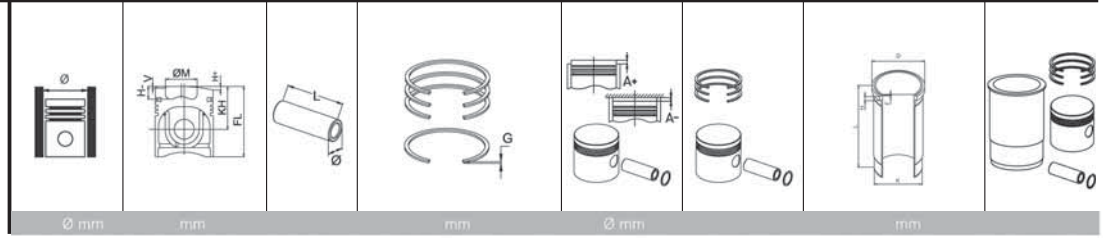
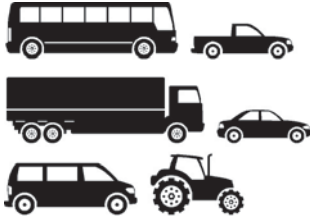
L=152.00

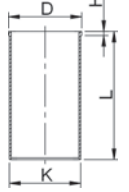
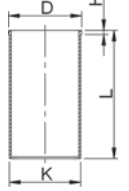
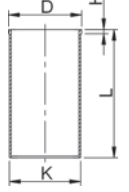
H+F=6.00

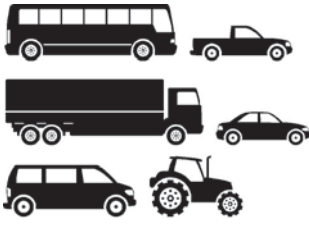
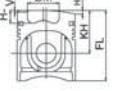
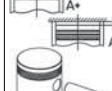
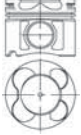
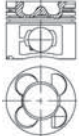
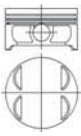
D=85.00

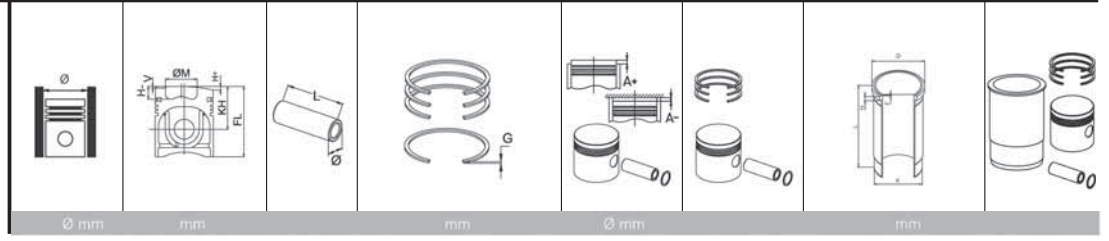
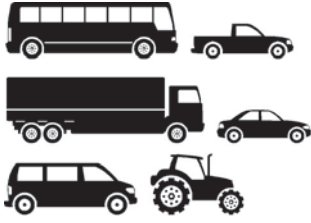
SF

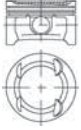
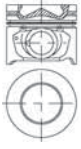
										
			Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine M 21 D 24 WA 2443 cm ³ 84,5 kW (115 PS) Vehicle 324 td, 524 td 1983...1991			6	80.00	46.40 -2.00 - 79.30	26.00 69.00	9612 000 2.500T Cr 2.000K IFU 3.500DY Cr	2608 000 80.00 AP YS	4608 000	
					46.20 -2.00 - 79.30		9612 025	2608 025 80.25	4608 025	
					46.00 -2.00 - 79.30		9612 050	2608 050 80.50	4608 050	
Diesel Engine M 41 R 4 Diesel, Turbo, IC 8 Valves, 22:1 1675 cm ³ 66 kW (90 PS) Vehicle 318 tds 1994...			4	80.00	39.45 -2.50 - 62.45	27.00 63.00	9613 000 3.000T CrP 1.750K IFU P 3.000DY CrP	2613 000 80.00 AP YS	4613 000	
Diesel Engine M 51 D 25 WA R 6 Diesel, Turbo, IC 12 Valves, 22:1 2497 cm ³ 105 kW (143 PS) Vehicle 325 tds 1993... 525 tds 1991...			6				9613 050	2613 050 80.50	4613 050	
Diesel Engine M 51 D 25 WA, R 6 Diesel, Turbo 12 Valves, 22:1 2497 cm ³ 85 kW (115 PS) Vehicle 325 td 1991... 525 td 1992...			6							

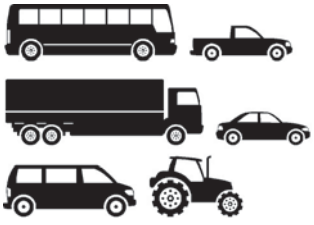
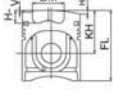
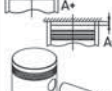
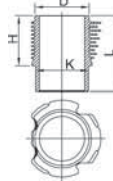
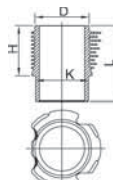
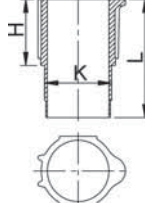


Benzin Engine M 20 B 25 M.E 2494 cm ³ 126 kW (171 PS) Vehicle 325 i (E30) 07/1985...04/1994 Benzin Engine M 20 B 25 E/8 KAT 2494 cm ³ 126 kW (171 PS) Vehicle 525 i (E34) 09/1987...08/1991	6	84.00	34.09 - +4.34/-4.95 69.43 MØ=71.20	22.00 54.00	9600 000 1.500D CrP 1.750TN P 3.000SY CrP	2600 000 84.00	4600 000	5344 000 K=88.05 L=147.00 H+F=5.00 D=89.08 SF 	S
	6				9600 025 9600 050	2600 025 84.25 2600 050 84.50	4600 025 4600 050		
Benzin Engine M 50 B 25 M 2494 cm ³ 141 kW (192 PS) Vehicle 325 i 1991...08/1992 525 i 1990...08/1992	6	84.00	38.20 -2.24/-2.93 -4.01 63.20 MØ=70.00	22.00 54.00	9600 000 1.500D CrP 1.750TN P 3.000SY CrP	2601 000 84.00	4601 000	5344 000 K=88.05 L=147.00 H+F=5.00 D=89.08 SF 	
					9600 025 9600 050	2601 025 84.25 2601 050 84.50	4601 025 4601 050		
Benzin Engine M40B 18E 1795 cm ³ 83 Kw (113 PS) Vehicle 3.18i, 5.18i		84.00						5318 000 K=87.00 L=137.00 H+F=6.00 D=88.50 SF 	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 3000 cm ³ Vehicle 330D, 330CD,330XD,E-53 X5 3,0D, E-60, 530D, E-61 530D,E-65 730D Diesel Engine M 47 204 D1 Turbo Intercooled DOHC 1951 cm ³ 85-100 kW (116-136 PS) Vehicle 3 (E46) 318 d 09/01.....03/03 3 (E46) 320 d 04/98.....09/01 3 Compact (E46) 2.0 TD 10/01.....12/02 3 Touring (E46) 318 d 03/02.....02/05 3 Touring (E46) 320 d 03/00.....09/01 5 (E39) 520 d, 5 Touring (E39) 520 d 02/00.....06/03	6	84	44.87 -1.36/-1.48 -13.50 70.62 MØ=46.90	30.00 68.00 PDB	9606 000 3.000T Cr 2.000TN P 3.000DY Cr	2614 000 84.00 AP YS	4614 000		
	4	84.00			9606 050	2614 050 84.50	4614 050		
Diesel Engine M57D30 18:1 Turbo intercool Land Rover ile ortak motor FREE LANDER M47 D 20R / RANGE ROVER TD6 2926 cm ³ 135 kW (184 PS) Vehicle 330 D, 530 D, 730 D 1999...	6	84.00	47.00 -1.36/-1.48 16.50 71.00 MØ=41.55	30.00 68.00	9606 000 3.000T Cr 2.000TN P 3.000DY Cr	2615 000 84.00 AP YS	4615 000		
									
Benzin Engine M 10 B 18 V 1766 cm ³ 66 kW (90 PS) Vehicle 316 1975...1988 518 1974...1984 518 i 1981...1987	4	89.00	47.10 - +4.50 83.60	22.00 58.00	9609 000 1.750D IF CrP 2.000TN P 4.000DY CrP	2609 000 89.00	4609 000		
					9609 025	2609 025 89.25	4609 025		
					9609 050	2609 050 89.50	4609 050		
Benzin Engine M 62 B 44 LEV, Injection, 4 Valves , Catality Converter 4395 cm ³ 210 kW (286 PS) Vehicle 540 i, 740 i, 840 i 08/1996... X 5 01/2001...	8	92.00	31.30 -2.70 - 53.30	22.00 60.00	9611 000 1.500D Cr 1.500TN P 2.000VF	2611 000 92.00 HA	4611 000		
					9611 025	2611 025 92.25	4611 025		
					9611 050	2611 050 92.50	4611 050		



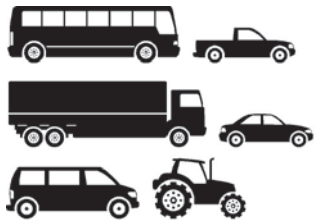
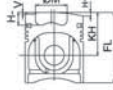
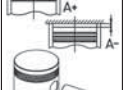
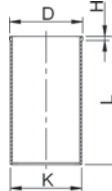
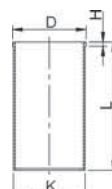
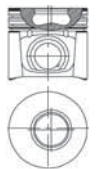
Benzin Engine A14 XER 1364 cm ³ 74 kW (101 PS) Vehicle Aveo II 1.4i 16V 03.2011...	4	73.40	25.85 -3.60/-1.55 -1.60 46.80 MØ=52.50 	18.00 53.00	9222 000 1.200D NtSt 1.200TN P 2.000VF CrP	1913 000 73.40	3913 000		
					9222 050	1913 050 73.90	3913 050		
					9222 100	1913 100 74.40	3913 100		
Diesel Engine 2.0 DİZEL 1988 cm ³ 110 kW (150 PS) Vehicle Captiva 2006...	4	83.00	46.35 - -13.95 72.35 MØ=51.90 	28.00 66.80	9880 000 2.000T CrP 2.000K IF P 3.000DY StNt	2200 000 83.00 AP YS	4200 000		

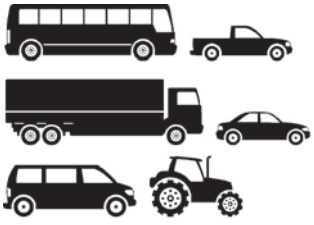
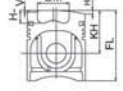
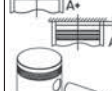
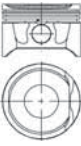
									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine M 28 602 cm ³ Vehicle Dyane6, AML6, AML8, AZL6	2	74.00	34.80 - +11.60/-13.50 77.40	20.00 63.90	9359 000 1.750D Mo 2.000K 3.500DY	1359 000 74.00	3359 000	5316 000 K=83.00 L=129.00 H+F=90.00 D=82.00 FF	7359 K,S
					9359 050	1359 050 74.50	3359 050		
					9359 100	1359 100 75.00	3359 100		
Benzin Engine M 28 602 cm ³ 23,5 kW Vehicle Dyane 1970...1981 AML6 1968...1969 AML8 1969...1978	2	74.00	34.80 - +12.50/-13.50 77.50	20.00 63.90	9359 000 1.750D Mo 2.000K 3.500DY	1360 000 74.00	3360 000	5316 000 K=83.00 L=129.00 H+F=90.00 D=82.00 FF	7360 K,S
									
					9359 050	1360 050 74.50	3360 050		
					9359 100	1360 100 75.00	3360 100		
Diesel Engine TUD 3 1361 cm ³ 39 kW (53 PS) Vehicle AX 14 D, ZX 14 D 1988...	4	75.00						5359 000 K=79.50 L=135.40 H+F=90.01 FF	
								 1 R 77,2x1,2	

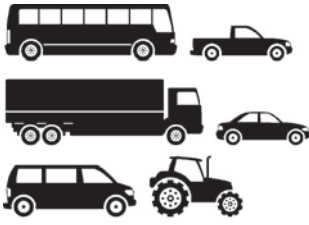
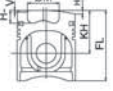
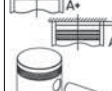
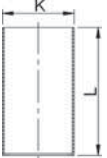
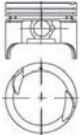
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine TU 3 JP L4 Euro 4 55 kW (75 PS) Vehicle C2, C3, Belingo, Xsara	4 1361 cm³ 2004...	75.00 27.80 - +0.10 49.80 	18.00 55.00	9889 000 1.500D Cr 1.500TN P 2.500SY P	2500 000 75.00	4500 000	5873 000 K=79.45 L= 134.50 H+F=90.00 D=89.20 FF 1 VI 77.2x1.25	8500 K,S	
Benzin Engine TU 3 JP 55 kW (75 PS) Vehicle Berlingo C2, C3 Saxo	4 1361 cm³ 07/1996... 04/2002... 1996...08/2008	75.00 27.90 - -1.25 49.70 MØ=64.75 	18.00 55.00	9889 000 1.500D Cr 1.500TN P 2.500SY P	1889 000 75.00	3889 000	5873 000 K=79.45 L= 134.50 H+F=90.00 D=89.20 FF 1 VI 77.2x1.25	7889 K,S	
Diesel Engine DV6 TD /TED Common Rail 80 kW (109 PS) Vehicle C3 1.6 HDI, C4 1.6 HDI, C5 1.6 DI, Berlingo 1.6 HDI, Jumpy 1.6 HDI	4 1560 cm³ 								

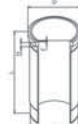
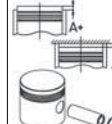
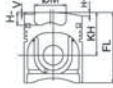
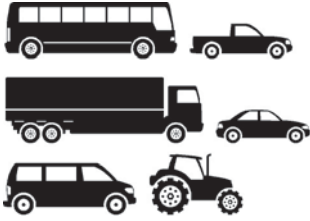
		Ø mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine NFU 4V 80 kW (109 PS) Vehicle Berlingo 1.6i 16V C2 1.6i 16V C3 1.6i 16V C3 Plurial 1.6i 16V C4 1.6i 16V Elysee 1.6i 16V Xsara 1.6i 16V Xsara Picasso 1.6i 16V	4 1587 cm³ 							

		Ø mm	mm		mm		Ø mm		mm
Benzin Engine XU 7 JP 4 1761 cm³ 81 kW (110 PS) Vehicle Xsara 11/1998... Xsara Picasso 1998... ZX 01/1996...02/1998	4	83.00	33.30 -1.95 -1.00 56.30 MØ=52.00 	22.00 62.00	9887 000 1.500D Mo 1.500K Cr 3.000DY	2924 000 83.00	4924 000	5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF 1 R 86x1.25	8924 K,S
Benzin Engine LFY 1761 cm³ 81 kW (110 PS) Vehicle Xantia 06/1995...12/2001 Xsara 07/1997...12/2000 Xsara Picasso 12/1999... ZX 01/1996...02/1998	4								
Benzin Engine X U 10 J 4 RZ 1998 cm³ 98 kW (133 PS) Vehicle XM 01/1995... Xantia	4	86.00	33.80 -1.70/-2.00 -4.30 53.80 MØ=52.00 	22.00 62.00	9499 000 1.500D Mo 1.750K 3.000UB	2499 000 86.00	4499 000		
Benzin Engine XN 1 T 1971 cm³ 56.5 kW (77 PS) Vehicle C 25 1981...	4	88.00	37.90 - +2.55 73.60 	23.00 74.00	9140 000 1.500D CrP 2.000K Cr 4.000VF	2140 000 88.00	4140 000	5889 000 K=93.00 L=136.20 H+F=90.00 D=101.90 FF 1 SM 92.5x99.7x0.1 1 SM 92.5x99.7x0.12 1 SM 92.5x99.7x0.15	8140 K,S

	 Ø mm	 mm	 mm	 mm	 Ø mm	 mm	 mm	
Diesel Engine 322.615, M 22/621 2175 cm³ Vehicle C 32, C 35 1974...1979 CX 2200 D, Normale Super,Break, Break Super 1974...1979	4	90.00					5367 000 K=94.06 L=165.00 SF 	
							5366 000 K=94.50 L=164.50 H+F=5.00 D=96.00 SF 	
Benzin Engine CRD 93 2499 cm³ Vehicle CX 25 D, C 35 RD 1978...1983	4	93.00					5365 000 K=97.54 L=163.00 H+F=5.00 D=98.90 SF 	
Diesel Engine 8140 43S Euro 3, Sofim Hp 125 TCA Euro 3 2798 cm³ 92 kW (125 PS) Vehicle Jumper 03/2002...	4	94.40	58.75 - -21.35 87.60 MØ=39.30 	32.00 72.00	9691 000 2.500T Cr 2.000K P 2.500DY Cr	1692 000 94.40 AP YS Pist. Ç k nt s 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70 1.50 mm Conta ile +0.71 / +0.80	3692 000 5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9691 040	1692 040 94.80	3692 040	
					9691 060	1692 060 95.00	3692 060	

									
		Ø mm	mm		mm	Ø mm		mm	
Diesel Engine K9K 792 Common Rail 50 kW (68 PS) 1496 cm ³ Vehicle Logan 1.5 dci 03/2005...	4	76.00	41.75 -0.20/-0.40 -13.95 66.00 MØ=39.70 	26.00 60.00	9164 000 2.000D IF MoP 2.000K IFU P 2.500DY Cr	2164 000 76.00 AP Pist. Ç k nt s +0.25 / +0.30	4164 000	5936 000 K=79.10 L=142.00 H+F=5.00 D=81.00 SF 	S
					9164 050	2164 050 76.50	4164 050		
					9164 100	2164 100 77.00	4164 100		
Benzin Engine K4M 710, 16V 1598 cm ³ 79 kW (107 PS) Vehicle Logan 1.6i 03/2005...	4	79.50	31.70 - -1.30 55.00 	20.00 62.00	9166 000 1.500D Mo 1.500TN 2.500SY	2171 000 79.50	4171 000		
					9166 050	2171 050 80.00	4171 050		
					9166 100	2171 100 80.50	4171 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine Tico		67.00						5378 000 K=72.05 L=145.00 SF 	
Benzin Engine F8C 796cm ³ Vehicle Tico, Matiz 1991...	3	68.50	25.10 -3.20 +2.50 55.00 MØ=47.00 	16.00 52.20	9244 000 1.200D StNt 1.500TN P 2.800VF StNt	1244 000 68.50	3244 000		
			25.10 -3.20 +2.50 55.00 MØ=47.00		9244 050	1244 050 69.00	3244 050		
Benzin Engine 1500 cm ³ Vehicle Lemans	4	76.50	28.50 - -3.70 48.00 MØ=58,50 	18.00 56.00	9014 000 1.500D Cr 1.500TN CrPSt 3.000VF	2008 000 76.50	4008 000		
					9014 050	2008 050 77.00	9001 050		
Benzin Engine 1500 cm ³ Vehicle Cielo	4	76.50	28.90 -1.80 -0.60 51.90 	18.00 56.00	9014 000 1.500D Cr 1.500TN CrPSt 3.000VF	2009 000 76.50	4009 000		
					9014 050	2009 050 77.00	4009 050		

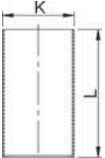
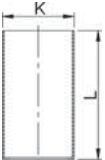
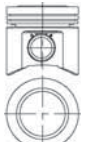


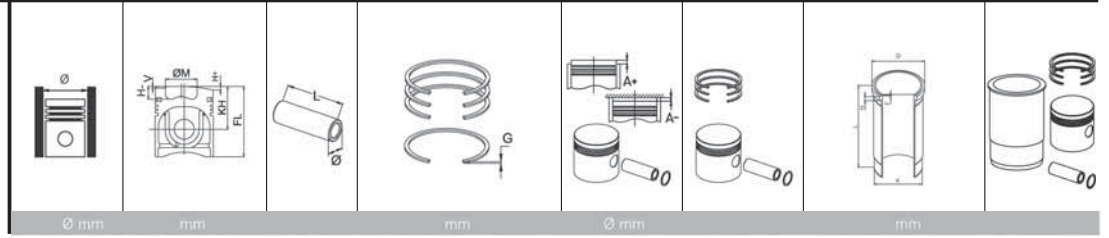
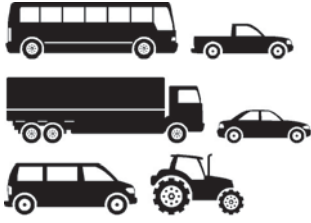
STAT

1851/52

Ø mm

mm

Benzin Engine 100 G 000 25 kW (34 PS) Vehicle 850 Berlina - 850 Spical	4	65.00	30.75 - - 61.25	20.00 54.00	9390 000 1.750D IF CrP 2.000TN P 3.947DY CrP	1390 000 65.00	3390 000	5390 000 K=68.04 L=115.00 SF 	S
Benzin Engine 100 G 002 27 kW (37 PS)	4								
Vehicle 850 1964...1972									
Benzin Engine 100 GF 000 25.5 - 29.5 kW (35 - 40 PS)	4				9390 020	1390 020 65.20	3390 020		
					9390 040	1390 040 65.40	3390 040		
Vehicle 127,850,900, 1975...					9390 060	1390 060 65.60	3390 060		
Benzin Engine 100 GL 000,ECE 146 A 000 33 - 44.5 kW (45 - 47 PS)	4				9390 080	1390 080 65.80	3390 080		
Vehicle 127 1971...					9390 100	1390 100 66.00	3390 100		
Benzin Engine 156 A4.000 2 Valves 25 kW (34 PS)	4	65.00	37.55 - +0.80 63.35	18.00 53.00	9283 000 1.500D IF CrP 1.500K IF P 3.000VF CrSt	1357 000 65.00	9283 000	5390 000 K=68.04 L=115.00 SF 	S
Vehicle 750 (141AA) PANDA Hatchback 01/1986 ... 01/1995									
					9283 040	1357 040 65.40	3357 040		
					9283 060	1357 060 65.60	3357 060		



Diesel Engine

M 733 AT.12.Z, Z 1,3 DT
Turbo Comon Rail

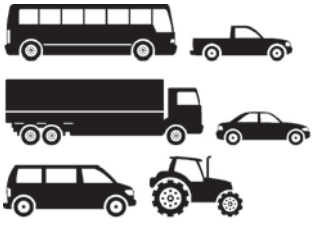
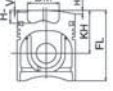
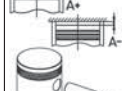
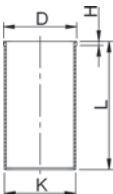
51 - 55 kW (69 - 75 PS) 1247 cm³

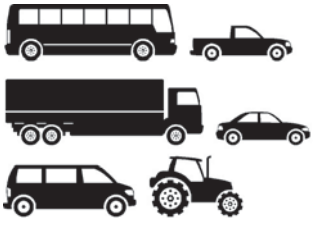
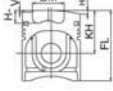
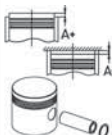
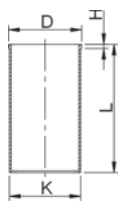
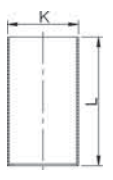
Vehicle

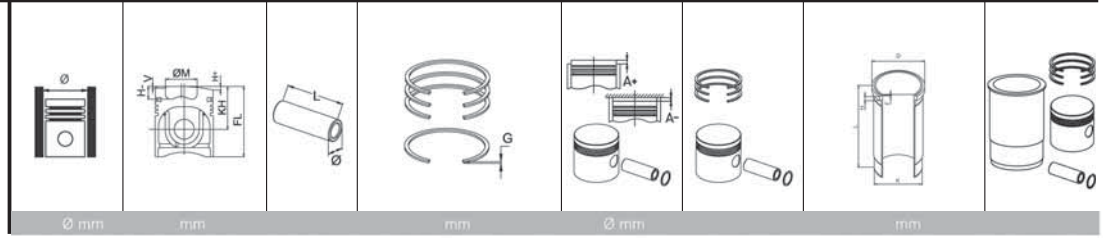
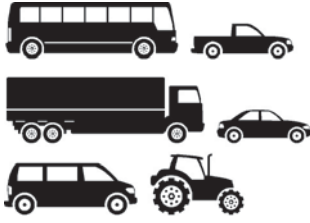
Gingo, Idea, Punto, Panda
Doblo 1.3 Multijet, Palio 1.3 Multijet
Albea 1.3 Multijet

2003...

4	69.60	40.43 -1.00 -12.40 63.43 MØ=37.00	23.00 57.00	9282 000 2.000D 1.500K 2.000DY Cr P NtSt	2282 000 69.60 AP Pist. Ç k nt s 0.67 / 0.77 mm Conta ile +0.02 / +0.13 0.77 / 0.87 mm Conta ile +0.13 / +0.23 0.87 / 0.97 mm Conta ile +0.23 / +0.33	4282 000	5451 000 K=72.10 L=142.00 H+F=5.00 D=73.60 SF	S
		40.23 -1.00 -12.40 63.23 MØ=37.00		9282 000	2282 001 69.60	4282 001		
		40.43 -1.00 -12.40 63.43 MØ=37.00		9282 040	2282 040 70.00	4282 040		
		40.23 -1.00 -12.40 63.23 MØ=37.00		9282 040	2282 041 70.00	4282 041		
		40.43 -1.00 -12.40 63.43 MØ=37.00		9282 060	2282 060 70.20	4282 060		
		40.23 -1.00 -12.40 63.23 MØ=37.00		9282 060	2282 061 70.20	4282 061		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 199A3000 Multijet 1248 cm ³ 66 kW (90 PS) Vehicle Grande Punto 1.3 CDTI 16V Linea 1.4 CDTI 16V 2007...	4	69.60	40.43 -0.90 / -1.15 -12.40 63.43 MØ=38.00	23.00 56.70	9282 000 2.000D Cr 1.500K P 2.000DY NtSt	2289 000 69.60 AP YS	4289 000	5451 000 K=72.10 L=142.00 H+F=5.00 D=73.60 SF	S
					9282 040	2289 040 70.00	4289 040		
Benzin Engine 156A2.100 160A3.000 Vehicle UNO 45, UNO 55, UNO 60 SX 1.1 PANDA 1.0	4	70.00						5271 000 K=73.00 L=116.00 H+F=4.00 D=73.60 sf	
Benzin Engine 176 A 8.000 1242 cm ³ 44 kW (60 PS) Vehicle Palio 1997... Punto 1993...1999	4	70.80	28.00 -1.40 -2.10 48.00 MØ=60.00	18.00 53.00	9285 000 1.200D IF CrSt 1.200K 2.500VF CrSt	2285 000 70.80	4285 000	5491 000 K=73.80 L=128.00 H+F=5.00 D=75.00 SF	S
Benzin Engine 609 FA 12.C 1242 cm ³ 54 kW (73 PS) Vehicle Palio, Punto 1993...	4				9285 040	2285 040 71.20	4285 040		
					9285 060	2285 060 71.40	4285 060		

										
			Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 188 A 5.000, Euro 3, 6:1, 16 Valves 1242 cm ³ 59 kW (80 PS) Vehicle Brava 1.2, Bravo 1.2 01/1999...02/1999 Nuova Punto 1.2 1999...2003 Palio 1.2, Siena 1.2 2002... Stilo 1.2 2001...09/2001	4	70.80	28.00 -2.00 -5.10 48.00	18.00 49.00	9285 000 1.200 D IF CrSt 1.200K 2.500VF CrSt	2287 000 70.80	4287 000			
	4				9285 040	2287 040 71.20	4287 040			
	4				9285 060	2287 060 71.40	4287 060			
Benzin Engine 350.A1.000 Euro 4 11:0, 8 Valves 1368 cm ³ 57 kW (77 PS) Vehicle Albea 1.4, Doblo 1.4, Grande Punto 1.4, Idea 1.4, Palio 1.4 2003...	4	72.00	26.00 -2.05 -4.75 49.00	18.00 49.00	9263 000 1.000 D IF NtSt 1.200TN P 2.000VF NtSt	2266 000 72.00	4266 000	5269 000 K=75.00 L=126.00 H+F=5.10 D=76.50 SF	S	
					9263 040	2266 040 72.40	4266 040			
Benzin Engine 1.2 1200 cm ³ Vehicle 1200	4	72.00						5267 000 K=76.05 L=148.00 SF		



Benzin Engine

124 A, 124 A 000, 124 BL 016
1197 cm³
45 kW (60 PS)

Vehicle

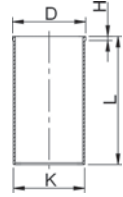
TOFAS MURAT 124, 238,

4

73.00

5391 000

K=77.00
L=133.50
H+F=5.00
D=78.18
SF



5391 050

K=77.50
L=133.50
H+F=6.00
D=78.50
SF

5391 100

K=78.00
L=133.50
H+F=6.00
D=79.00
SF

Benzin Engine

124 TRO
1297 cm³
52 kW (70 PS)

Vehicle

TOFAS Serçe

Benzin Engine

131 A 000
1297 cm³
41 kW (55 PS)

Vehicle

131
10/1974...1981

4

76.00

38.45
-
+0.50
77.95
MØ=45.00



22.00
61.00

9392 000

1.500D CrP
2.000N P
3.947DY P

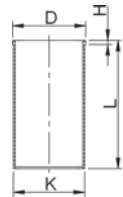
1392 000

76.00

3392 000

5392 000

K=80.00
L=133.50
H+F=5.00
D=81.18
SF



5392 050

K=80.50
L=133.50
H+F=6.00
D=81.50
SF

5392 100

K=81.00
L=133.50
H+F=6.00
D=82.00
SF

S

9392 040

1392 040

76.40

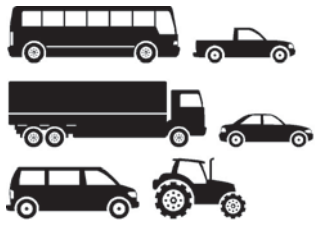
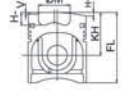
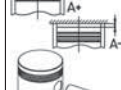
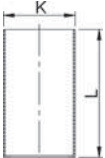
3392 040

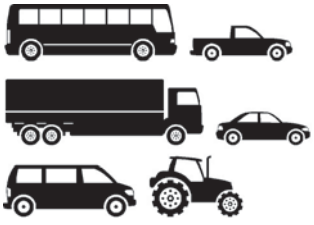
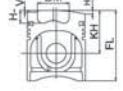
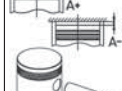
9392 060

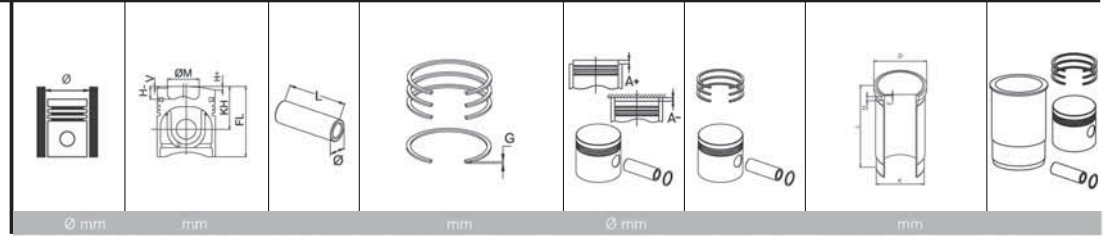
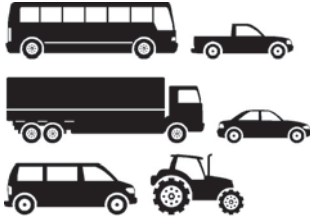
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76.60

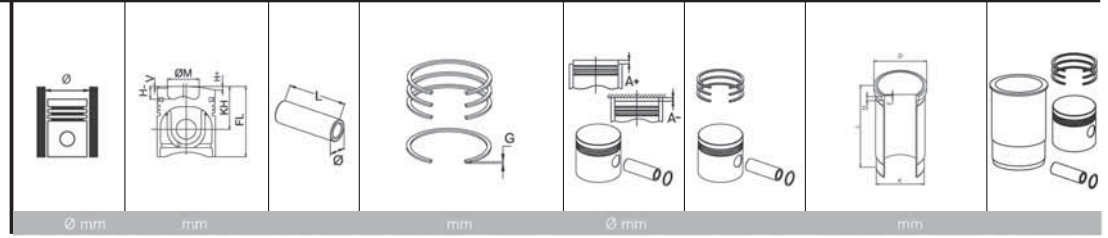
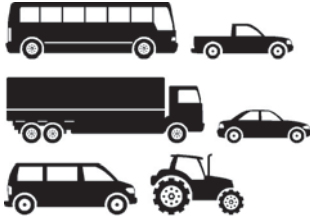
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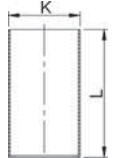
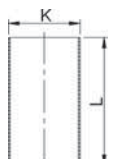
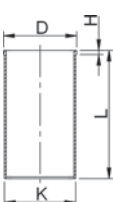
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Diesel Engine 127 A 5000, M 703 AA .13.0 1302 cm³ 33 kW (45 PS) Vehicle 127 D 1981....1986 Uno D Panda 1984...1992 Spazio (ARG) 1985...1987	4	76.00	47.15 - +4.90 79.15	22.00 64.50	9393 000 2.500T MoP 2.000K P 3.000DY CrP	1393 000 76.00 AP	3393 000	5393 000 K=79.08 L=135.50 SF 	S
					9393 040	1393 040 76.40	3393 040		
					9393 060	1393 060 76.60	3393 060		
					9393 080	1393 080 76.80	3393 080		
					9393 100	1393 100 77.00	3393 100		
Benzin Engine 132 A 0000, 132 BB 0A.0 , 132 AB.0A.0 1590 cm³ 72 kW (98 PS) Vehicle 132 1972...1975 Benzin Engine 132 A 9.000, 132 AC.000 1592 cm³ 70 - 79.5 kW (95 - 108 PS) Vehicle 124 1972...1975	4	80.00	37.75 - +4.50 81.75	22.00 68.00	9755 000 1.500D Cr 2.000TN P 3.947PS	1753 000 80.00	3753 000	5385 000 K=84.06 L=145.50 SF 	S
	4				9755 040	1753 040 80.40	3753 040		
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					9755 100	1753 100 81.00	3753 100		

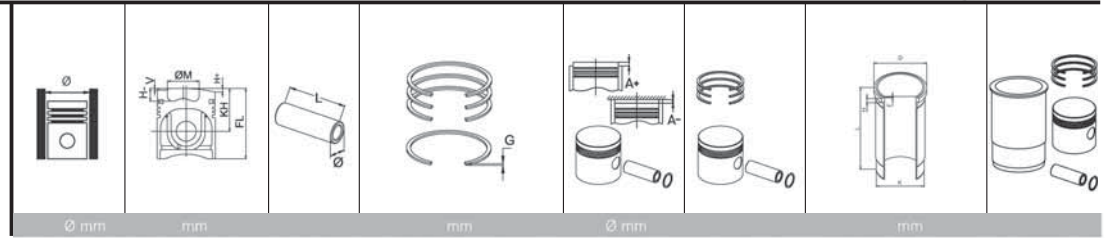
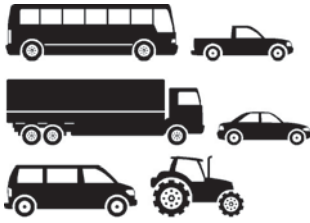
									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine 138 1372 cm ³ Vehicle 91 RON 1.4	4	80.50	33.30 - -2.90 65.30 MØ=61.00 	22.00 58.20	9396 000 1.500D CrP 1.750TN P 3.000DY P	1396 000 80.50	3396 000		
					9396 040	1396 040 80.90	3396 040		
					9396 060	1396 060 81.10	3396 060		
Benzin Engine 146 C1.000 KAT 1372 cm ³ 51 - 53 kW (70 - 72 PS) Vehicle Uno 70 1.4i 8 Valf 1989...	4	80.50	33.30 - -2.90 65.30 	22.00 58.00	9396 000 1.500D CrP 1.750TN P 3.000DY P	2303 000 80.50	4303 000		
					9396 040	2303 040 80.90	4303 040		
					9396 060	2303 060 81.10	4303 060		
Benzin Engine 182 B6.000 16 Valves 1596 cm ³ 73 kW (103 PS) Vehicle Brava 1.6, Bravo 1.6, Doblo 1.6, Marea 1.6, Palio 1.6, Stilo 1.6 1997... 2003	4	80.50	28.65 -2.20/-2.80 - 50.70 	21.00 56.00	9262 000 1.200D NtSt 1.200TN P 2.000DY NtSt	2267 000 80.50	4267 000		
					9262 040	2267 040 80.90	4267 040		



Diesel Engine 188 A3,000 Euro 2, 223 A.6000 1910 cm ³ 44 kW (60 PS) Vehicle Doblo 1.9D 2000... Palio 1.9D, Punto 1.9D 1999... Diesel Engine 223 A6,00 Euro 2 1910 cm ³ 46 kW (63 PS) Vehicle Doblo 1.9D 2000... Palio 1.9D, Punto 1.9D 1999... Diesel Engine M720 SA 19 V Euro 2 1910 cm ³ Vehicle Doblo 1.9D 2000... Palio 1.9D, Punto 1.9D 1999...	4	82.00	44.45 - -2.60 70.40	26.00 65.00	9399 000 2.000D CkP 2.000TN P 2.000DY NtSt	1399 000 82.00	3399 000	5268 000 K=85.00 L=155.00 H+F=5.00 D=86.00 SF 	S
Diesel Engine M 724 MT 19Z Euro4 M 724 RT 19Z Euro4, 182 B.9000 Turbo Comman Rail 1910 cm ³ 74 - 88 kW (101 - 120 PS) Vehicle Multipla, Idea, Punto, Doblo, Sedici, Stilo, Doblo 1.9JTD 2003...	4	82.00	46.50 -0.50 -17.50 72.50 MØ=37.50	26.00 61.00 PDB	9399 000 2.000D CkP 2.000TN P 2.000DY NtSt	2281 000 82.00 AP Pist. Ç k nt s 0 / +0.20	4281 000	5265 000 K=85.00 L=155.00 H+F=4.50 D=88.00 SF	S
					9399 040	2281 040 82.40	4281 040		
					9399 060	2281 060 82.60	4281 060		



Diesel Engine 149 B 3.000, 149 B 4.000 M 705 BA .19.0 1698 cm ³ 44 kW (60 PS)	4	82.60	42.60 - +2.40 84.40	25.00 69.50	9394 000 2.500T 2.000N 4.000DY MoP MoP CrP	1394 000 82.60 AP	3394 000	5394 000 K=86.08 L=154.00 SF 	S
Vehicle Uno D, Duna D, Regata D, Ritmo D, Tipo D 1986...	4							5395 000 K=86.06 L=154.00 H+F=4.50 D=89.00 SF 	S
Diesel Engine 149 A 1.000, 460 A 7.000 1929 cm ³ 48 kW (65 PS)					9394 040	1394 040 83.00	3394 040		
Vehicle Regata DS 1984...1990 Tempra 1990...1996 Tipo 1993...1996					9394 060	1394 060 83.20	3394 060		
Diesel Engine 138 A 5.000 1714 cm ³ 40,5 kW (55 PS)	4	83.00						5396 000 K=86.08 L=147.50 SF 	
Vehicle Ritmo D 1980...1985	4							5405 000 K=86.06 L=147.50 H+F=4.50 D=89.00 SF 	
Diesel Engine 138 B 6.000 1714 cm ³ 42,5 kW (58 PS)								5405 050 K=86.50 L=147.50 H+F=5.00 D=89.50 SF	
Vehicle Regata D 1983...1986									



Benzin Engine

131 A 1.000

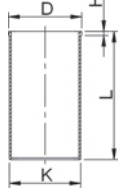
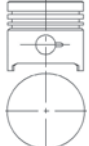
1585 cm³

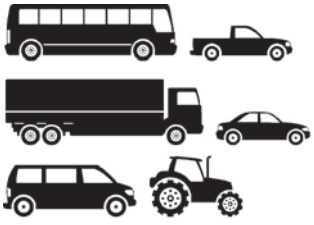
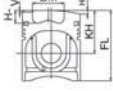
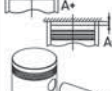
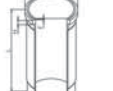
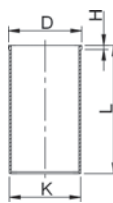
55 kW (75 PS)

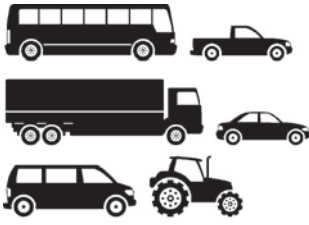
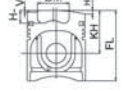
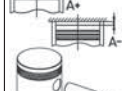
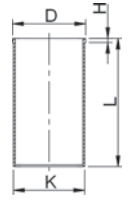
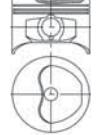
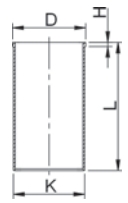
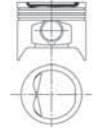
Vehicle

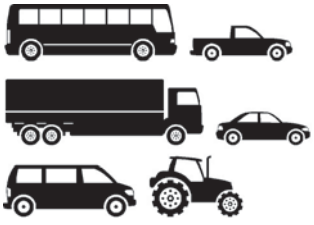
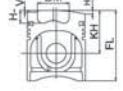
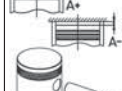
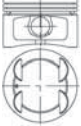
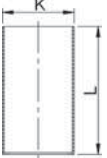
131

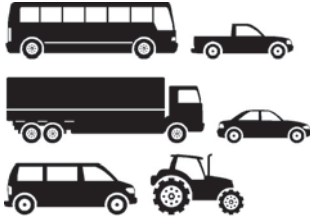
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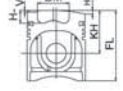
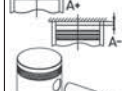
4	84.00	38.45 - 77.95	22.00 69.00	9397 000 1.500 D IF CrP 2.000 TN P 3.947 PS P	1397 000 84.00	3397 000	5397 000 K=88.00 L=133.50 H+F=5.00 D=89.18 SF 	S
							5397 050 K=88.50 L=133.50 H+F=6.00 D=90.00 SF	
				9397 040	1397 040 84.40	3397 040	5397 100 K=89.00 L=133.50 H+F=6.00 D=90.50 SF	
				9397 060	1397 060 84.60	3397 060		
				9397 080	1397 080 84.80	3397 080		
				9397 100	1397 100 85.00	3397 100		

										
			Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	mm
Benzin Engine 131 B 2.000 1995 cm ³ 84.5 kW (115 PS) Vehicle 131 06/1978...1985			4	84.00						5412 000 K=88.00 L=152.00 SF 
Benzin Engine 132 C 3.000 1995 cm ³ 90 kW (120 PS) Vehicle Argenta 1981...1985			4							5446 000 K=88.00 L=152.00 H+F=5.00 D=89.00 SF 
Benzin Engine 132 DB 2.A0, 132 C 2.000 1995 cm ³ 82.5 kW (112 PS) Vehicle 132 1972...1982			4							
Benzin Engine 132 D 1.000 1995 cm ³ 83 kW (113 PS) Vehicle Argenta 1981...1985			4							
Benzin Engine 131 B 2,000 131 C 4,000 1995 cm ³ 83 - 85 kW (113 - 115 PS) Vehicle 131 1978...1983			4	84.00	38.45 -3.80/-4.40 - 77.95	22.00 69.00	9397 000 1.500 D IF CrP 2.000 TN P 3.947 PS P	2270 000 84.00	4270 000	
Benzin Engine 132 C 2,000 132 C 3,000 132 D 1,000 132 DB 2 A 0 1995 cm ³ 82 - 83 - 90 kW (112 - 113 - 122 PS) Vehicle 132 Argenta 1981...1985			4				9397 040 2270 040 84.40 4270 040			
							9397 060 2270 060 84.60 4270 060			
							9397 080 2270 080 84.80 4270 080			
							9397 100 2270 100 85.00 4270 100			
Benzin Engine 828 B 1,000 828 B 4,000 1995 cm ³ 85 - 86 kW (115 - 117 PS) Vehicle Lancia Beta Lancia Trevi Lancia HPE Lancia Prisma 1975...1984			4				9397 150 2270 150 85.50 4270 150			

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 159 A 3.000 M 202 PA 15.0 1580 cm ³ 61 - 66 kW (83 - 90 PS) Vehicle Multiplex Carburattor Tipo 1988... Tempra 1990... Benzin Engine 159 A 3.000 M 202 PB 15.0 1581 cm ³ 59 - 66 kW (80 - 90 PS) Vehicle Injection Catalyser Tempra 1990... Tipo 1991... Punto 1993... Scudo 10/1995	4	86.40	33.30 - -2.30 72.80	22.00 63.00	9395 000 1.500D IW CrP 1.750K IWU P 3.000DY CrP	1395 000 86.40	3395 000	5270 000 K=90.05 L=127.00 H+F=5.00 D=91.00 SF 	S
	4							5270 050 K=90.50 L=127.00 H+F=6.00 D=91.50 SF	
					9395 040	1395 040 86.80	3395 040	5270 100 K=91.05 L=127.00 H+F=6.00 D=92.00 SF	
					9395 060	1395 060 87.00	3395 060		
	4	86.40	33.30 -3.10/-3.20 -2.30 65.20	22.00 63.00	9395 000 1.500D IW CrP 1.750K IWU P 3.000DY CrP	2273 000 86.40	4273 000	5270 000 K=90.05 L=127.00 H+F=5.00 D=91.00 SF 	S
	4							5270 050 K=90.50 L=127.00 H+F=6.00 D=91.50 SF	
					9395 060	2273 060 87.00	4273 060	5270 100 K=91.05 L=127.00 H+F=6.00 D=92.00 SF	
					9395 080	2273 080 87.20	4273 080		
					9395 100	2273 100 87.40	4273 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 182 B 6.000, 16 Valves 1580 cm ³ 1580 120 kW (163 PS) Vehicle Palio 1.6, Siena 1.6, Marea 1.6, Brava 1.6 1998...	4	86.40	34.170 -2.20/-2.80 - 59.43	22.00 56.00	9969 000 1.500 D IW CrP 1.500 K IWU P 3.000 VF Cr	2269 000 86.40	4269 000		
	4				9969 040	2269 040 86.80	4269 040		
	4				9969 060	2269 060 87.00	4269 060		
	4								
	4								
Benzin Engine 182 .B6000, 16 Valves 1580 cm ³ 120 kW (163 PS) Vehicle Palio 1.6, Stilo 1.6, Siena 1.6, Brava 1.6, Bravo 1.6, Marea 1.6 1998...	4								
Benzin Engine 182 .A4000 Euro 1, 16 Valves 1580 cm ³ 120 kW (163 PS) Vehicle Palio 1.6, Stilo 1.6, Siena 1.6, Brava 1.6, Bravo 1.6, Marea 1.6 1998...	4								
Benzin Engine M 645 BA 15.T, 16 Valves 1580 cm ³ 120 kW (163 PS) Vehicle Palio 1.6, Stilo 1.6, Siena 1.6, Brava 1.6, Bravo 1.6, Marea 1.6 1998...	4								
Diesel Engine 8144.65.200/300 1995 cm ³ 44 kW (60 PS) Vehicle 131 D, 132 D 1978...	4	88.00						5272 000 K=91.00 L=154.50 SF	



							
Ø mm	mm		mm	Ø mm		mm	

Diesel Engine

F1 AE 0481 G Euro 4, F1 AE 0481 H Euro 4,
F1 AE 0481 R Euro 4, 16 Valves
19:1, Charge intercooling, Common Rail

2286 cm³

85 kW (116 PS)

Vehicle

Daily V 29 L 12, Daily V 35 C 12,
Daily V 35 S 12, Daily V 40 C 12
2006...

Diesel Engine

F1 AE 0481 D Euro 4, 19:1
Charge intercooling, Common Rail
16 Valves

2286 cm³

88 kW (120 PS)

Vehicle

Ducato 11 2.3 JTD, Ducato 15 2.3 JTD
Ducato 17 2.3 JTD, Ducato 20 2.3 JTD
2006...

Diesel Engine

F1 AE 0481 F Euro 4, 19:1
Charge intercooling, Common Rail
16 Valves

2286 cm³

70 kW (95 PS)

Vehicle

Daily V 29 L 10, Daily V 35 C 10, Daily V 35 S 10,
Daily V 40 C 10, Daily V 40 S 10
2006...

Diesel Engine

F1 AE 0481 M Euro 3/4, 19:1
Charge intercooling, Common Rail
16 Valves

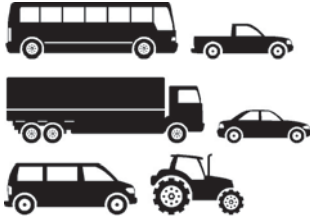
2286 cm³

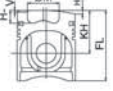
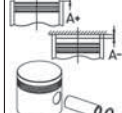
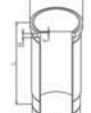
100 kW (136 PS)

Vehicle

Daily IV 2.3 TD 29 L 14, Daily IV 3.0 TD 35 C 14,
Daily IV 3.0 TD 35 S 14
2002...2006

4	88.00	57.00 - -13.75 84.00 MØ=50.00	31.00 67.00	9838 000 2.500T Cr 2.000K P 2.500DY Cr	2838 000 88.00 AP YS	4838 000		
4		 		9838 040	2838 040 88.40	4838 040		
4				9838 060	2838 060 88.60	4838 060		
4								



							
Ø mm	mm		mm	Ø mm		mm	

Diesel Engine

8140.67 Euro 2, SOFIM 2.5 Düz
2499 cm³

62 kW (85 PS)

Vehicle

Ducato 2.5D

1994...

4	93.00	54.00 - -2.20 89.00	32.00 68.00	9689 000 3.000T CrP 2.000TN P 3.000DY CrP	1684 000 93.00 AP HA	3684 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF 	S
				9689 040	1684 040 93.40	3684 040		
				9689 060	1684 060 93.60	3684 060		
		54.00 - -2.20 89.00	32.00 68.00	9689 000 3.000T CrP 2.000TN P 3.000DY CrP	1689 000 93.00 AP	3689 000		
								

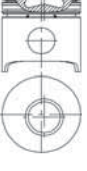
Diesel Engine

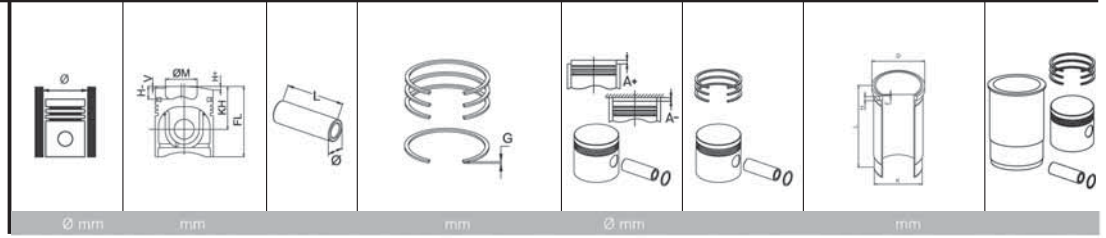
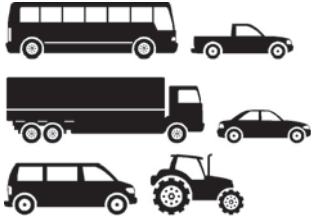
8140 47.2700 Euro 1, 8140 47.2711 Euro 1,
8140 47.2721 Euro 1, 8140 47.2785 Euro 1,
8140 47.3700, 8140 47.3700
2499 cm³

80 - 85 - 84.50 kW
(109 - 115 - 114 PS)

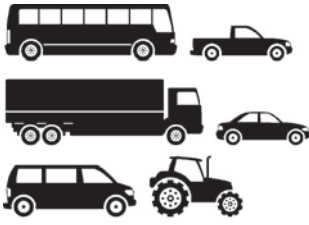
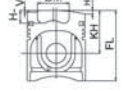
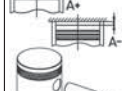
Vehicle

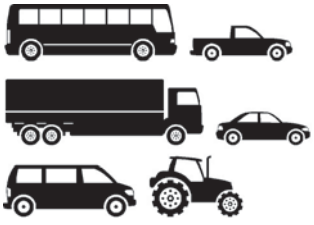
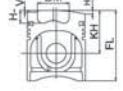
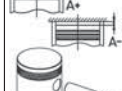
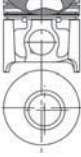
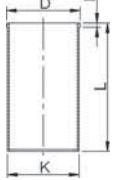
35.10, 35.12, 40.12, 49.12, 59.12
Stationary engine

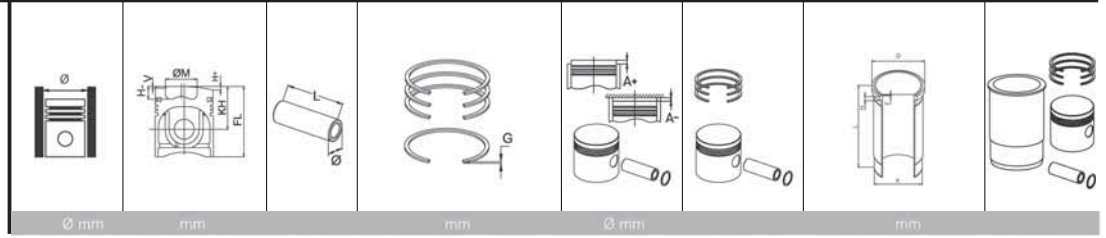
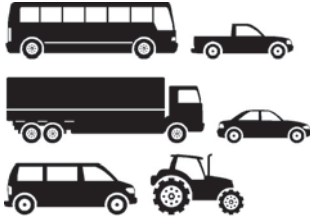
4	93.00	58.75 - -18.40 96.75 MØ=38.00	32.00 78.00 PDB	9689 000 3.00 T CrP 2.00 TN P 3.00 DY CrP	1687 000 93.00 AP YS	3687 000	5401 000 K=96.06 L=171.00 H+F=5.00 D=98.90 SF 	S
				9689 040	1687 040 93.40	3687 040		
				9689 060	1687 060 93.60	3687 060		



Diesel Engine 8140 61, 8142 61, 8144 61, 8140 61.300 2445 cm ³ 53 kW (72 PS) Vehicle 238 E, 30 F8, 32 F8, 35 F8, 40 F8, 900 T, Ducato, Ducato 13, Ducato 14, 131, 132, Argenta 1978...1985	4	93.00	 55.00 - -2.20 90.00	32.00 75.00	9686 000 3.000D Cr 2.000TN P 4.000DY Cr	1686 000 93.00 AP HA	3686 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF 	S
								5452 000 K=96.06 L=167.30 SF 	
								9686 040 1686 040 93.40 3686 040	
								9686 060 1686 060 93.60 3686 060	
Diesel Engine 8140 27.2700 2499 cm ³ 76 kW (103 PS) Vehicle 35.10, 40.10, 45.10, Ducato 1989...1994	4	93.00	58.75 - -18.00 96.75 MØ=38.00 	32.00 78.00 PDB	9689 000 3.00 T CrP 2.00 TN P 3.00 DY CrP	1685 000 93.00 AP	3685 000	5401 000 K=96.06 L=171.00 H+F=5.00 D=98.90 SF 	S
								9689 040 1685 040 93.40 3685 040	
								9689 060 1685 060 93.60 3685 060	

										
			Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	mm
Diesel Engine CRD 93, 22.25:1 2499 cm ³ 55 kW (75 PS)			4	93.00						5399 000 K=97.55 L=163.00 H+F=5.00 D=99.00 SF
Vehicle Ducato 10 1986...06/1990										
Diesel Engine CRD 93 B, 22.25:1 2499 cm ³ 50 kW (68 PS)			4							
Vehicle 242 E 1981...1985										
Diesel Engine U 25.651, 22.25:1 2499 cm ³ 55 kW (75 PS)			4							
Vehicle Ducato 10, Ducato 13, Ducato 14, Ducato 18 1983...1993										
Diesel Engine U 25.661, 22.25:1 2499 cm ³ 55 kW (75 PS)			4							
Vehicle Ducato 10, Ducato 13, Ducato 14 Ducato 18 1986...1993 1984...1993										
Diesel Engine 8140 07.3700, Euro 1, 19:1, 16 Valves 2499 cm ³ 55 kW (75 PS)			4	93.00	58.75 - -16.90 96.75 MØ=40.00	32.00 75.00	9689 000 3.000T CrP 2.000TN P 3.000DY CrP	2280 000 93.00 AP	4280 000	
Vehicle Daily 30, Daily 30.8, Daily 35.8, Daily 40.8, Ducato 14										
Diesel Engine 8140 07.2700, 18:1, 16 Valves 2499 cm ³ 55 kW (75 PS)			4							
Vehicle Daily 30, Daily 30.8, Daily 35.8, Daily 40.8, Ducato 14 1989...							9689 040	2280 040 93.40	4280 040	
							9689 060	2280 060 93.60	4280 060	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 8140 07.2700 R 4 Diesel, 18:1 2499 cm ³ 55 kW (75 PS) Vehicle Daily 30, Daily 30.8, Daily 35.8, Daily 40.8, Ducato 14 1989... Diesel Engine 8140 07.3700, Euro 1 R 4 Diesel, 19:1 2499 cm ³ 55 kW (75 PS) Vehicle Daily 30, Daily 30.8, Daily 35.8, Daily 40.8, Ducato 14	4	93.00	58.75 - -16.90 96.75 MØ=40.00 	32.00 75.00	9689 000 3.000T CrP 2.000TN P 3.000DY CrP	1683 000 93.00 AP	3683 000		
	4								
Diesel Engine 8140,23 3700 / 8140,43,3700 Euro 2 SOFIM Turbo Intercooled Motor No: 2572279 2798 cm ³ 77 - 85 kW (105 - 115 PS) Vehicle 35.12, 59.12, Daily 49.12 Ducato 1996...	4	94.40	58.75 - -19.45 96.75 MØ=39.30 	32.00 78.00	9690 000 3.000T CrP 2.000K IWU P 3.000DY CrP	1690 000 94.40 AP YS Pist. Ç k nt s 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70 1.50 mm Conta ile +0.71 / +0.80	3690 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9690 040	1690 040 94.80	3690 040		
					9690 060	1690 060 95.00	3690 060		
Diesel Engine 8140 63.2200 Euro 2, SOFIM Euro 2 2798 cm ³ 63 kW (85 PS) Vehicle 30.8 New Daily 2.8D, 35.8 New Daily 2.8D Ducato 2.8D	4	94.40	55.00 - -2.80 90.00 	32.00 68.00	9693 000 3.000T CrP 2.000K IWU P 2.500DY CrP	1693 000 94.40 AP HA	3693 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9693 040	1693 040 94.80	3693 040		
					9693 060	1693 060 95.00	3693 060		



Diesel Engine

8140 43S Euro 3,
SOFIM Turbo Hp 125 TCA Euro 3
2798 cm³
92 kW (125 PS)

Vehicle

Daily 29.11, 35 C 11, 35 C 13, 35 C 9,
35 S 11, 35 S 13,
35 S 9, 35.11, 40.11, 45.11, 49.11, 50
C 11, 50 C 13

05/1999...

Ducato 10, 14

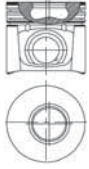
09/2000...03/2002

Ducato 11, 15

04/2002...

Ducato 18

09/2000...

4	94.40	58.75 - -21.35 87.60 MØ=39.30	32.00 72.00
			

9691 000

2.500T Cr
2.000K P
2.500DY Cr

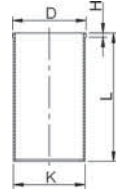
1692 000

94.40
AP
YS

3692 000

5453 000

K=97.50
L=167.00
H+F=5.10
D=100.90
SF



S

9691 040

1692 040

94.80

3692 040

9691 060

1692 060

95.00

3692 060

Diesel Engine

8140 23.3700 Euro 2, 8140 23.3900
Euro 2,
8140 43.3700 Euro 2, 8140 43.3728
Euro 2,
SOFIM Turbo Euro 2
Motor No: 2572280

2798 cm³

77 - 85 kW (105 - 115 PS)

Vehicle

35.12, 59.12, Daily 49.12,

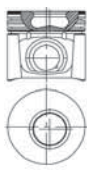
1996...

Ducato

08/1996...

Ducato

...12/1996

4	94.40	58.75 - -19.45 87.60 MØ=39.30	32.00 72.00
			

9691 000

2.500T Cr
2.000K P
2.500DY Cr

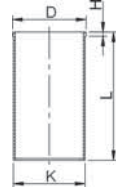
1691 000

94.40
AP
YS

3691 000

5453 000

K=97.50
L=167.00
H+F=5.10
D=100.90
SF



S

9691 040

1691 040

94.80

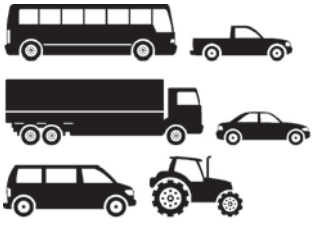
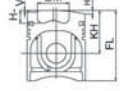
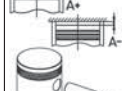
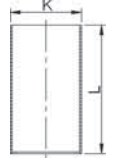
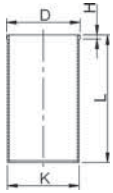
3691 040

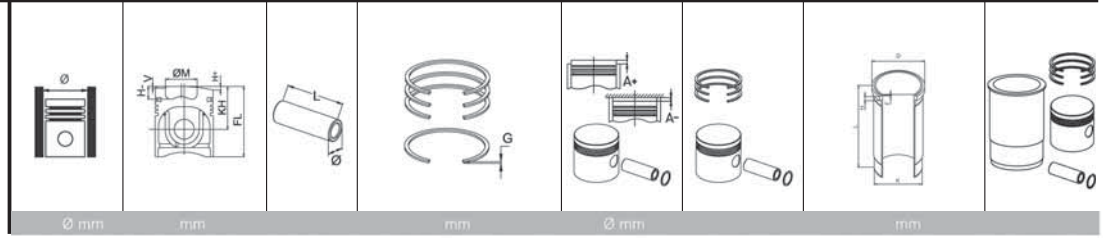
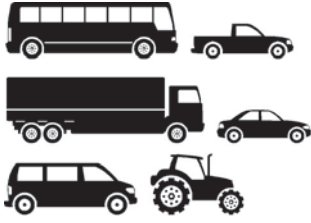
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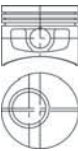
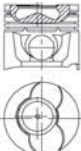
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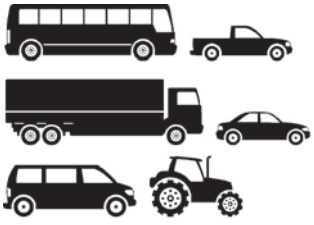
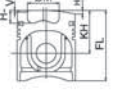
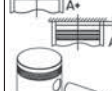
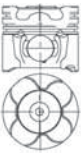
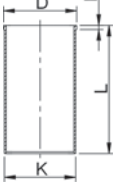
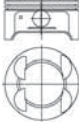
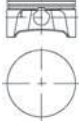
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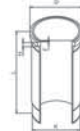
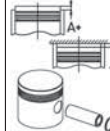
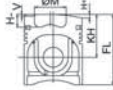
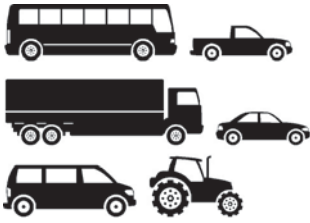
3691 060

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	
Diesel Engine 802.000 1560 cm ³ 18.5 kW (25 PS) Diesel Engine 803.000 2340 cm ³ 28 - 33 - 37.5 kW (38 - 45 - 51 PS) Diesel Engine 804.000 3120 cm ³ 41 - 51.5 kW (54 - 70 PS) Diesel Engine 806.000, 8065.01.000 4678 cm ³ 66 - 81 kW (90 - 110 PS) Vehicle 250, 255, 300, 400, 416, 450, 455, 460, 470, 480, 500, 550, 555, 615, 625, 650, 662, 900 1966...1971	2	95.00	59.65 - -23.50 101.15 MØ=42.50	32.00 82.50	9402 000 2.500 D IF CrP 2.500 TN P 5.500 DY CrP	1402 000 95.00 Pist. Ç k nt s +0.46 / +0.79	3402 000	5402 000 K=99.08 L=187.50 SF 	S
	3								
	4								
	6							5454 000 K=99.05 L=187.50 H+F=6.00 D=100.05 SF 	S
					9402 040	1402 040 95.40	3402 040		
					9402 060	1402 060 95.60	3402 060		
								5454 050 K=99.50 L=187.50 H+F=6.00 D=100.50 SF	S
Diesel Engine F1CE 0481 HA/HC Euro4 Turbo Intrcooled 2998 cm ³ 107 - 130 kW (146 - 176 PS) Vehicle Ducato III Ducato 11/15/17/20 3.0 JTD Daily IV 3.0 TD Daily V 2004...	4	95.80	71.35 - -22.15 105.50 MØ=52.00	40.00 83.00	9369 000 3.00 T Mo 3.00 TK IW P 4.00 DY CrP	2839 000 102.00 AP	4839 000		

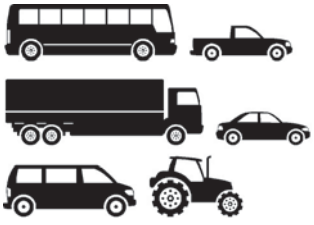
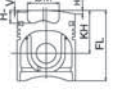
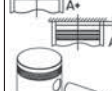
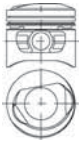
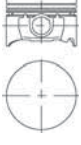


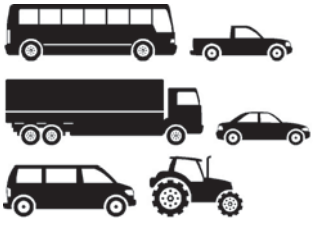
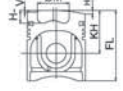
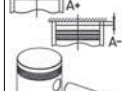
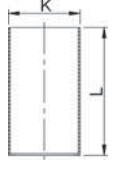
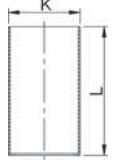
Benzin Engine BL11CFi (HCS/GUE), GUF 1118 cm³ 40 kW (54 PS) Vehicle Fiesta 1,1i 12/1991...09/1996 Escort 1,1 08/1990...12/1994	4	68.685	29.40 - -3.50 53.90 MØ=36.00 	18.034 59.00	9457 000 1.500D IF Mo 1.750TN 3.000DY Cr	1457 000 68.685	3457 000		
					9457 050	1457 050 69.190	3457 050		
					9457 100	1457 100 69.685	3457 100		
Diesel Engine DV4DT 1398 cm³ 40 - 50 kW (54 - 68 PS) Vehicle Fiesta 1,4 TDCi 01/2002... Fusion 1,4 TDCi 03/2002...	4	73.70	42.94 -1.65 -14.70 65.40 MØ=37.15 	25.00 60.00	9460 000 2.500T CkP 1.950K IFU P 2.500DY CrP	1460 000 73.70 AP Pist. Ç k nt s 1. Çentik 1.252 mm conta ile +0.618 / +0.725 2. Çentik 1.303 mm conta ile +0.726 / +0.775 3. Çentik 1.351 mm conta ile +0.776 / +0.825	3460 000	5819 000 K=76.70 L=136.00 H+F=5.00 D=78.20 SF 	S
			42.74 -1.65 -14.70 65.20 MØ=37.15		9460 000	1460 001 73.70	3460 001		
			42.94 -1.65 -14.70 65.40 MØ=37.15		9460 050	1460 050 74.20	3460 050		
			42.74 -1.65 -14.70 65.20 MØ=37.15		9460 050	1460 051 74.20	3460 051		

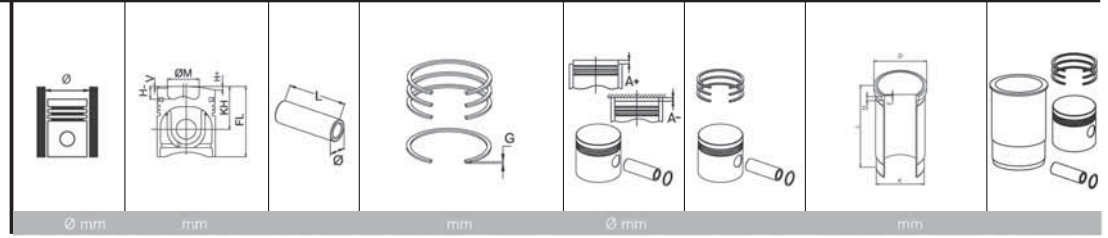
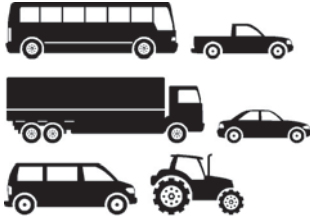
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine DV6 TD / TED Common Rail 80 kW (109 PS) 1560 cm ³ Vehicle Focus 1.6 HDI, C-Max 1.6 HDI	4	75.00	41.700 -1.20 -13.25 65.30 MØ=41.80 	26.00 61.00	9168 000 3.000T CkP 1.950K P 2.500DY CrP	2498 000 75.00 AP Pist. Ç k nt s 1.25 mm Conta ile +0.53 / +0.63 1.30 mm Conta ile +0.63 / +0.68 1.35 mm Conta ile +0.68 / +0.73	4498 000	5826 000 K=78.00 L=142.00 H+F=5.00 D=79.50 SF 	S
					9168 050	2498 050 75.50			
					9168 060	2498 060 75.60			
Benzin Engine 10,3:1 Enjeksiyonlu 16v 65 kW (89 PS) Vehicle Eskort Zetec 1.6L, Escort 1.6, Ghia 16v, 1.6L/LX/S, Fiesta 1.6 Ghia, 1.6 Si, Fiesta 1.6i 16v, Mondeo 1.6 GLXi 16v, 1.6LXi, Orion 1.6 Ghia 16v 1992...	4	76.00	32.65 - 1.70 58.35 MØ=61.40 	20.625 63.40	9448 000 1.500D CrP 1.600TN P 2.500SY P	1769 000 76.00	3769 000		
					9448 050	1769 050 76.50			
					9448 100	1769 100 77.00			
Benzin Engine 1.6 ZETEC-S (115 PS) Vehicle C-MAX 1,6Ý 16V, FOCUS 2003 ... Focus, Mondeo 2007 ...	4	79.00	25.35 - -0.70 48.30 MØ=52.00 	18.00 54.00	9795 000 1.200D CrSt 1.500TN P 2.000DY NtSt	1795 000 79.00	3795 000		
					9795 025	1795 025 79.25			
					9795 050	1795 050 79.50			
Benzin Engine ZH16 ZETEC S Enjeksiyonlu 16v 73 kW (99 PS) Vehicle Focus Ghia, LX 1998...	4	79.00	25.05 - - 48.10 	18.00 51.00	9795 000 1.200D StNt 1.500TN P 2.000VF StNt	2259 000 79.00	4259 000		
					9795 050	2259 050 79.50			

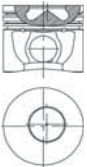
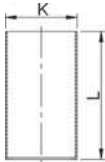
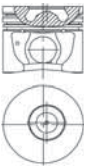
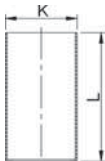
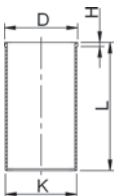


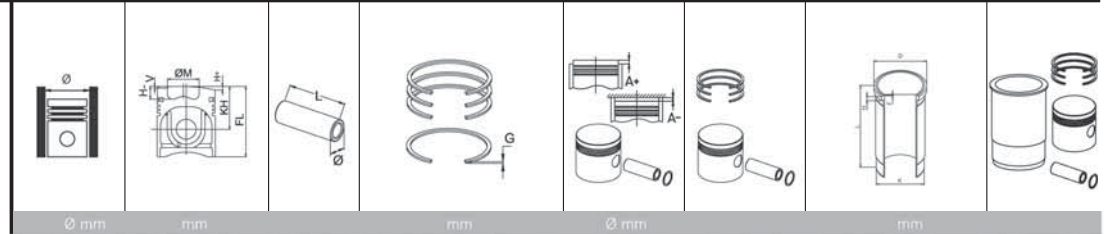
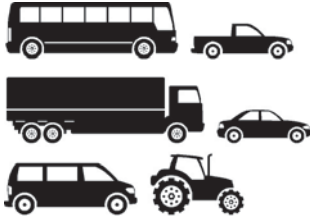
Diesel Engine 1Z 66 kW (90 PS) Vehicle Galaxy 01/1995...08/1996	4	79.50	45.80 -1.10 -17.65 71.80 MØ=37.90 	26.00 66.00 PDB	1.750D 2.000K IFU 3.000DY	CrP P CrP	79.51 AP Cyl. 1/2 to be used	4301 000	
Diesel Engine AFN 66 kW (90 PS) Vehicle Galaxy 10/1996...03/2000	4						Pist. Ç k nt s 1.Çentik 1.45 mm Conta ile +0.91 / +1.00 2.Çentik 1.53 mm Conta ile +1.01 / +1.10 3.Çentik 1.61 mm Conta ile +1.10 / +1.20		
Diesel Engine AHU 66 kW (90 PS) Vehicle Galaxy 05/1995...03/2000	4				9309 025		2301 025 79.76	4301 025	
Diesel Engine MF 66 kW (90 PS) Vehicle Galaxy 01/1996...	4		45.55 -1.10 -17.65 71.55 MØ=37.90		9309 050		2301 050 80.01	4301 050	
Diesel Engine MG 81 kW (110 PS) Vehicle Galaxy 01/1998...	4		45.55 -1.10 -17.65 71.55 MØ=37.90		9309 100		2301 100 80.51	4301 100	
					9309 000 1.750D 2.000K IFU 3.000DY	CrP P CrP	2302 000 79.51 AP Cyl. 3/4 to be used with 2301	4302 000	
					9309 025		2302 025 79.76	4302 025	
					9309 050		2302 050 80.01	4302 050	
					9309 100		2302 100 80.51	4302 100	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine CVH LUC Çok Bogazli Karbüratör 1598 cm ³ 66-70 kW (90-95 PS) Vehicle Escort 1.6, Fiesta XR2, Orion 1985...1992	4	79.97	36.59 - +7.12 73.71 MØ=75.00 	20.63 66.70	9031 000 1.600D CrP 2.000K IFU P 4.000DY CrP	2031 000 79.97	4031 000		
					9031 050	2031 050 80.47	4031 050		
					9031 100	2031 100 80.97	4031 100		
Benzin Engine ZH 1.8 ZETEC 1796 cm ³ (103-113 PS) Vehicle Mondeo 1.8 16V 1994...	4	80.60	33.05 - - 57.10 	20.63 63.50	9032 000 1.500D IW CrP 1.750TN P 3.000DY CrP	2032 000 80.60	4032 000		
					9032 050	2032 050 81.10	4032 050		
					9032 100	2032 100 81.60	4032 100		
Diesel Engine LCR, LCS, LCT, LSD, LSE 1598 cm ³ 54 kW (75 PS) Vehicle Series P 100 1.6 08/1982....12/1986 Sierra 1.6 08/1982....12/1986 Diesel Engine LSE, LSF 1598 cm ³ 55 kW (72 PS) Vehicle Sierra 1.6 01.1987...02.1993	4	81.335	41.55 - - 71.55 	24.00 68.80	9422 000 1.600D Mo 2.000K P 4.000VF Cr	1422 000 81.335	3422 000		
	4				9422 050	1422 050 81.835	3422 050		
					9422 100	1422 100 82.335	3422 100		

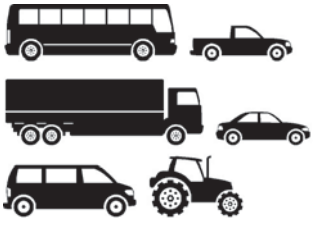
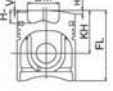
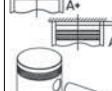
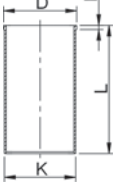
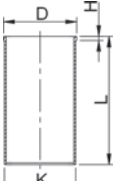
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine D18T Turbo 1753 cm ³ 54 kW (74 PS) Vehicle Sierra Sapphire 1.8 TD, Fiesta 1.8 TD, Industrial Unit 1993...1998 Diesel Engine D18TI Turbo Intercooled, EGR 1753 cm ³ Vehicle Escort 1.8 TD 1994... Mondeo 1.8 TD 1993... Fiesta 1.8 D, Fiesta 1.9 TD 1995... Diesel Engine 18,5:1 1753 cm ³ 81 kW (110 PS) Vehicle Transit Connect 2007...	4	82.50	45.65 - -1.50 75.80	26.00 69.00	9777 000 2.500T Mo 2.000K Cr 3.000DY	1777 000 82.50 AP	3777 000	5433 000 K=86.05 L=140.00 SF	S
	4								
	4				9777 020	1777 020 83.00	3777 020	5433 100 K=87.05 L=140.00 SF	
	4				9777 040	1777 040 83.50	3777 040		
Diesel Engine D18NA Indirect Injection 1753 cm ³ 44 kW (60 PS) Vehicle Escort 1.8 D 40 Van, Escort 1.8 D Van 60 1991...1994 Escort 1.8 D 55 Van, Escort 1.8 D Van 75 1994... Fiesta 1.8D 35 Van, Fiesta 1.8D Classic Quartz, Fiesta 1.8D L, Fiesta 1.8D Van, Fiesta 1.8D Encore, Fiesta 1.8D Ghia, Fiesta 1.8D LX Escort 1.8 GLD, Escort 1.8D LD 1988...1990 Diesel Engine 19:1 Common Rail 1998 cm ³ 125 PS Vehicle Mondeo 2.0 TDCI, Transit 300 SF Journey Deluxe	4	82.50	45.70 - -1.60 73.70	26.00 59.00	9807 000 2.000D CrP 2.000K P 3.000DY CrP	1778 000 82.50 AP	3778 000	5433 000 K=86.05 L=140.00 SF	S
	4								
	4	86.01			9807 020	1778 020 83.00	3778 020	5433 100 K=87.05 L=140.00 SF	
	4				9807 040	1778 040 83.50	3778 040		

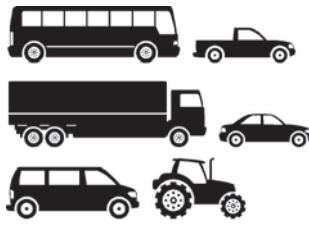
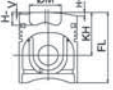
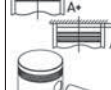
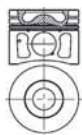


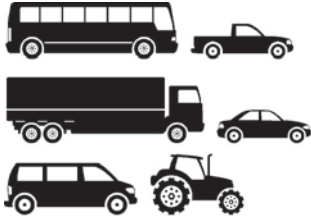
Diesel Engine Ecotorq 1.8 TDCi, YD18TCi Endura, F9DA, F9DB 1758 cm³ 66 - 85 kW (90 - 115 PS) Vehicle Transit 1.8 TDCi, Connect 1.8 TDCi 2001... Focus 1999... Focus C-Max 2003... Tourneo 2004...	4	82.50	45.70 - -14.05 70.70 MØ=41.52 	28.00 66.00	9964 000 2.500TT 2.000K 3.000DY	CrSt P Cr	82.50 AP YS Pist. Ç k nt s 1.36mm Conta ile +0.43 / +0.68 1.42mm Conta ile +0.68 / +0.74 1.52mm Conta ile +0.74 / +0.86	1464 000 3464 000 5433 000 K=86.05 L=140.00 SF 	S
					9964 050		1464 050 83.00	3464 050	
					9964 100		1464 100 83.50	3464 100 5492 000 K=85.50 L=146.00 H+F=5.00 D=87.00 SF 	S
Diesel Engine Ecotorq 1.8 TDDi, LD18TCi Endura, C9DA, C9DB, C9DC 1758 cm³ 55 - 66 kW (75 - 90 PS) Vehicle Connect 1.8 TDDi, Transit 1.8 TDDi 2001... Focus 1.8 DI 1999...2001 Focus C-Max 2003... Tourneo 2004...	4	82.50	45.70 - -16.10 70.70 MØ=36.75 	28.00 66.00	9964 000 2.500TT 2.000K 3.000DY	CrSt P Cr	82.50 AP Pist. Ç k nt s +0.50 / +0.60 +0.60 / +0.70 +0.70 / +0.80	1465 000 3465 000 5433 000 K=86.05 L=140.00 SF 	S
					9964 050		1465 050 83.00	3465 050	
					9964 100		1465 100 83.50	3465 100 5492 000 K=85.50 L=146.00 H+F=5.00 D=87.00 SF 	S



Diesel Engine ECOTORQ 1,8 TDCI 1800 cm ³ (90 PS) Vehicle Turbo Common Rail Transit Connect 1.8 TDCI 2002....	4	82.50						5492 000 K=85.50 L=146.00 H+F=5.00 D=87.00 SF 	
Diesel Engine DURATORQ 1.8 TDCI, 18.5:1 1753 cm ³ 81 kW (110 PS) Vehicle TRANSIT CONNECT 2007...	4	82.50	45.65 - -12.47 71.15 MØ=45.29 	28.00 66.00	9477 000 1.750D IF CrSt 2.000N P 2.000DY NtSt	1477 000 82.50 AP YS Pist. Ç k nt s 0.31mm Conta ile +0.43 / +0.68 1.42mm Conta ile +0.68 / +0.74 +0.72mm Conta ile +0.74 / +0.86	3477 000 1477 050 83.00 Conta ile +0.74 / +0.86	5492 000 K=85.50 L=146.00 H+F=5.00 D=87.00 SF 	S
Benzin Engine 2.0 DOHC /EFI /NS /NSE 1998 cm ³ 80.5 kW (116 PS) Vehicle Galaxy 1995...	4	86.00	32.27 -1.40/-1.60 - 62.27 	20.63 63.40	9447 000 1.600D Mo 1.750TN 3.000VF Cr	1447 000 86.00	3447 000		
Benzin Engine 2.0 DOHC 1998 cm ³ 88 kW (120 PS) Vehicle Sierra, Scorpio 1989...	4				9447 020 9447 040	1447 020 86.50 1447 040 87.00	3447 020 3447 040		

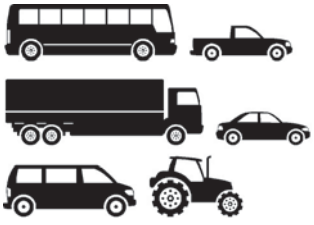
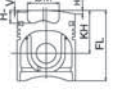
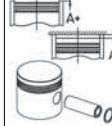
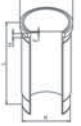
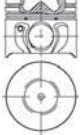
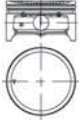
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine V347 Duratorq Common Rail 1422 cm ³ 2200 96 kW (130 PS) Vehicle Transit 2.2 TDCi 2006...	4	86.01	43.42 - -15.85 69.82 MØ=46.90	30.00 66.85	9425 000 2.000D CrSt 2.000TN P 2.000DY Nt	1461 000 86.01 AP YS Pist. Ç k nt s 1.10 mm Conta ile +0.38 / +0.47 1.20 mm Conta ile +0.48 / +0.58 1.30 mm Conta ile +0.59 / +0.68	3461 000	5496 000 K=89.00 L=156.00 H+F=5.00 D=90.50 SF 	S
					9425 050	1461 050 86.51	3461 050		
Diesel Engine V 185 DURATORQ TDCI 1998 cm ³ (125 PS) Vehicle Turbo, Intercooler, Common Rail Transit 2.0 TDCI 2000....	4	86.01						5494 000 K=89.00 L=167.00 H+F=5.00 D=90.50 SF 	
	4								
Diesel Engine CD 132 DURATORQ TDCI 1998 cm ³ (115-130 PS) Vehicle Turbo, Intercooler, Common Rail Mondeo 2.0 TDCI 2000....	4	86.01	47.70 - -14.80 71.00 MØ=43.40	30.00 66.85	9425 000 2.000D Crst 2.000TN P 2.000DY Nt	1478 000 86.01 AP YS Pist. Ç k nt s 1.10 mm Conta ile +0.43 / +0.52 1.15 mm Conta ile +0.52 / +0.57 1.20 mm Conta ile +0.57 / +0.62	3478 000	5494 000 K=89.00 L=167.00 H+F=5.00 D=90.50 SF 	S
					9425 025	1478 025 86.26	3478 025		
					9425 050	1478 050 86.51	3478 050		

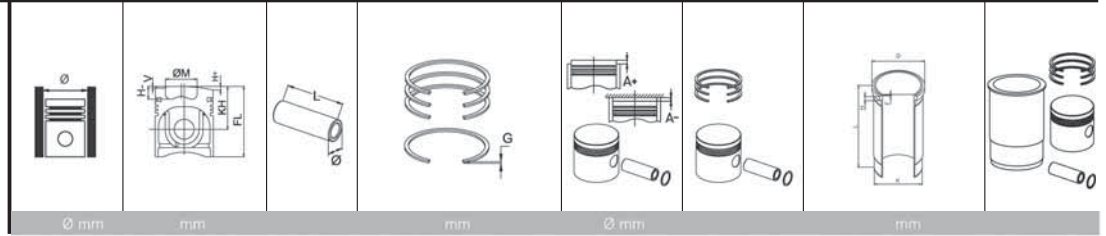
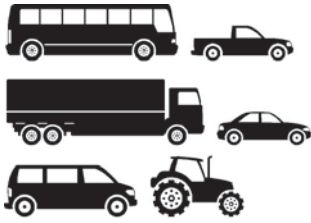
										
		Ø mm	mm		mm	Ø mm		mm		
Diesel Engine V185 DURATORQ TDI, 19:1 Turbo Intercooler 1998 cm ³ 55 - 63 - 74 kW (75 - 85 - 100 PS)	4	86.01	47.58 - -16.50 73.98 MØ=40.20	30.00 66.00	9425 000 2.000D 2.000TN 2.000DY	CrSt P Nt	1479 000 86.01 AP	3479 000	5494 000 K=89.00 L=167.00 H+F=5.00 D=90.50 SF	S
Vehicle TRANSIT 2.0 TDI 2000...										
Diesel Engine CD132 DURATORQ TDI, 18.2:1 Turbo Intercooler 1998 cm ³ 66 kW (90 PS)	4									
Vehicle MONDEO 2.0 TDI 2001...										
Diesel Engine V185 DURATORQ TDCI Turbo, Intercooler, Common Rail 1998 cm ³ 92 kW (125 PS)	4	86.01	47.70 - -15.20 74.10 MØ=43.30	30.00 66.85	9425 000 2.000D 2.000TN 2.000DY	CrSt P Nt	1471 000 86.01 AP YS	3471 000	5494 000 K=89.00 L=167.00 H+F=5.00 D=90.50 SF	S
Vehicle TRANSIT 2.0 TDCI 2000...										
Diesel Engine CD132 DURATORQ TDCI Turbo, Intercooler, Common Rail 1998 cm ³ 85 - 96 kW (115 - 130 PS)	4									
Vehicle MONDEO 2.0 TDCI 2001...										
Diesel Engine V347 DURATORQ, C. RAIL 2200 cm ³ 74 kW (100 PS)	4	86.01	43.42 - -15.85 69.82 MØ=46.90	30.00 66.85	9425 000 2.000D 2.000TN 2.000DY	CrSt P Nt	2253 000 86.01 AP	4253 000		
Vehicle TRANSIT 2.2 TDCI							Pist. Ç k nt s 1.10 mm Conta ile +0.43 / +0.52 1.15 mm Conta ile +0.52 / +0.57 1.20 mm Conta ile +0.57 / +0.62			

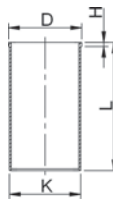
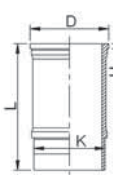


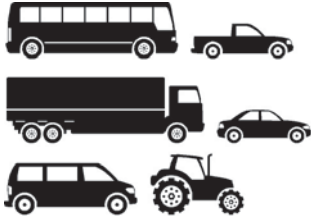
Ø mm	mm		mm		Ø mm		mm

Diesel Engine 9C1Q-6105-EAA Turbo Parça No : T188101 Vehicle Transit 2006...	4	86.01	48.400 - -15.80 74.85 MØ=46.90 	30.00 66.85	9425 009 2.000D CrSt 2.000TN P 2.000DY Nt	2256 000 86.01 AP YS	4256 000		
Diesel Engine CD132 Duratorq TDCI 150 PS Vehicle Mondeo 2.2 TDCI, Transit 2.2 TDCI	4	86.01	43.42 - -15.85 69.82 MØ=46.90 	30.00 66.85	9425 000 2.000D IF CrP 2.000TN P 2.000DY NtSt	2034 000 86.01 AP YS Pist. Ç k nt s 1.10 mm Conta ile +0.43 / +0.52 1.15 mm Conta ile +0.52 / +0.57 1.20 mm Conta ile +0.57 / +0.62	4034 000		
					9425 025	2034 050 86.51	4034 050		
Diesel Engine V185 Duratorq TDCI Turbo, Intercooler, Common Rail 1998 cm³ (125 PS) Vehicle Transit 2.0 TDCI 2000... Diesel Engine CD132 Duratorq TDCI 1998 cm³ (115-130 PS) Vehicle Mondeo 2.0 TDCI 2001...	4	86.01	47.70 - -15.20 74.10 MØ=43.30 	30.00 66.85	9425 000 2.000D IF CrP 2.000TN P 2.000DY NtSt	1459 000 86.01 AP YS Pist. Ç k nt s 1.10mm Conta ile +0.43 / +0.52 1.15mm Conta ile +0.52 / +0.57 1.20mm Conta ile +0.57 / +0.62	3459 000		
	4				9425 050	1459 050 86.51	3459 050		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine V185 Duratorq TDI Turbo, Intercooler 1998 cm ³ (75-85-100 PS) Vehicle Transit 2.0 TDI 2000... Diesel Engine CD132 Duratorq TDI Turbo, Intercooler 1998 cm ³ (90 PS) Vehicle Mondeo 2.0 TDI 2001...	4	86.01	47.85 - -16.50 73.98 MØ=40.20	30.00 66.00	9425 000 2.000D IF CrP 2.000TN P 2.000DY NtSt	2033 000 86.01 AP Pist. Ç k nt s 1.10 mm Conta ile +0.43 / +0.52 1.15mm Conta ile +0.52 / +0.57 1.20mm Conta ile +0.57 / +0.62	4033 000		
	4				9425 025	2033 050 86.51	4033 050		
Benzin Engine TL18H, REC 1796 cm ³ 66 kW (90 PS) Vehicle Granada, Sierra 1984...1992 Scarpio 1984...12/1992	4	86.21	41.55 - - 66.55	24.00 68.80	9423 000 1.600D Mo 2.000TN P 4.000DY Cr	1423 000 86.21	3423 000		
					9423 050	1423 050 86.71	3423 050		
					9423 100	1423 100 87.21	3423 100		
Benzin Engine AODA, AODB, CJBA Duratc-HE, CJBB Duratc-HE N4JB Duratec-ST Volvo ile ortak motor B 4204 S3 10.8:1 1999 cm ³ 107 kW (145 PS) Vehicle C-Max 2.0i 16V Fiesta 2.0i 16V Focus 2.0i 16V Focus C-Max 2.0i 16V Mondeo 2.0i 16V S-Max 2.0i 16V 10.2000... Volvo C30 2.0i 16V Volvo S40 2.0i 16V Volvo S80 2.0i 16V Volvo V50 2.0i 16V Volvo V70 II 2.0i 16V 05.2006...	4	87.50	28.40 - -0.35 51.00 MØ=75.40	21.00 60.00	9716 000 1.200D CrSt 1.200K IFU P 2.500VF NtP	2257 000 87.50	4257 000		
					9716 050	2257 050 88.00	4257 050		



Benzin Engine HC 1576 cm ³ 44 - 70 kW (60 - 95 PS) Vehicle Taunus 1600, Capri 1600 II, Escort 1600, Cortina 1600, Granada 1600 1970...1981	4	87.65	41.10 - - 72.70 	24.00 72.80	9424 000 2.000D IF CrP 2.500TN P 4.000DY CrP	1425 000 87.65 Pist. Ç k nt s -1.23 / -1.70	3425 000	5424 000 K=91.50 L=125.00 H+F=5.00 D=92.50 SF 	S
								5424 050 K=92.00 L=125.00 H+F=6.00 D=93.00 SF	
								5424 100 K=92.50 L=125.00 H+F=6.00 D=93.50 SF	
					9424 020	1425 020 88.15		3425 020	
Diesel Engine XD 4.88 1948 cm ³ 39.5 kW (54 PS) Vehicle Granada 08/1977...1982	4	88.00	58.70 - -1.95 95.70 	28.00 72.00	9220 000 2.000D IW Cr 2.000K P 2.000TN P 4.500DY CrP	2220 000 88.00	4220 000	5890 000 K=96.00 L=173.00 H+F=7.00 D=106.30 FF 	8220 K,S
								1 R 88x2.5	



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Diesel Engine

V184 PUMA DT24H Duratorq
Turba Intercooled, 19:1, 16 Valves
2402 cm³
86 kW (120 PS)

Vehicle

Transit 2.4 TDi

1999...

4	89.91	53.50 - -17.24 80.50 MØ=40.40	32.00 71.10	9966 000 2.500TT CrSt 2.000K IF P 3.000DY Nt	1466 000 89.91 AP YS Pist. Ç k nt s +0.45 / +0.53 / +0.53 / +0.65 / +0.65 / +0.70	3466 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF	S
				9966 025	1466 025 90.16	3466 025		
				9966 050	1466 050 90.41	3466 050		

Diesel Engine

V184 PUMA DT24P Duratorq,
Turbo Intercooled, 19:1, 16 Valves
2402 cm³
66 kW (90 PS)

Vehicle

Transit 2.4 DT24P

1999...

Diesel Engine

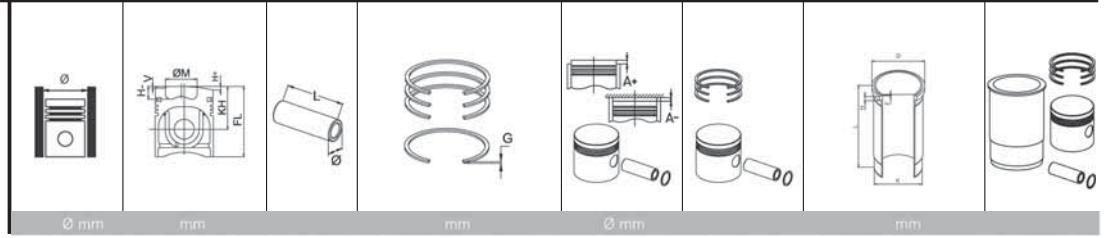
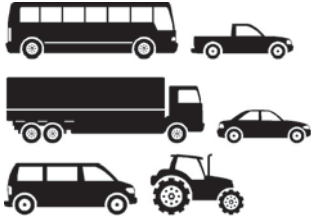
DT24N Duratorq, Turbo,
19:1, 16 Valves
2402 cm³
55 kW (75 PS)

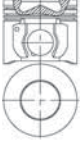
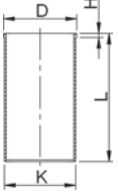
Vehicle

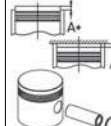
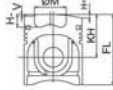
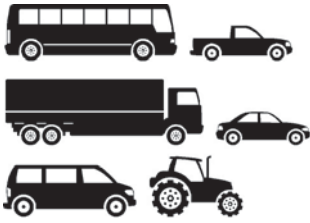
Transit 2.4 TD

1999...

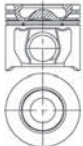
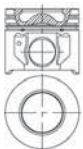
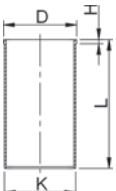
4	89.91	53.50 - -17.00 80.50 MØ=41.05	32.00 66.15	9966 000 2.500TT CrSt 2.000K IF P 3.000DY Nt	1467 000 89.91 AP Pist. Ç k nt s +0.45 / +0.53 / +0.53 / +0.65 / +0.65 / +0.70	3467 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF	S
4				9966 025	1467 025 90.16	3467 025		
				9966 050	1467 050 90.41	3467 050		

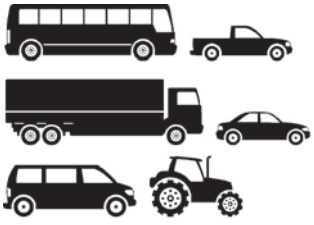
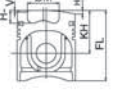
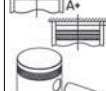
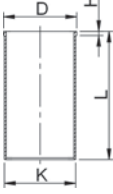
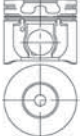


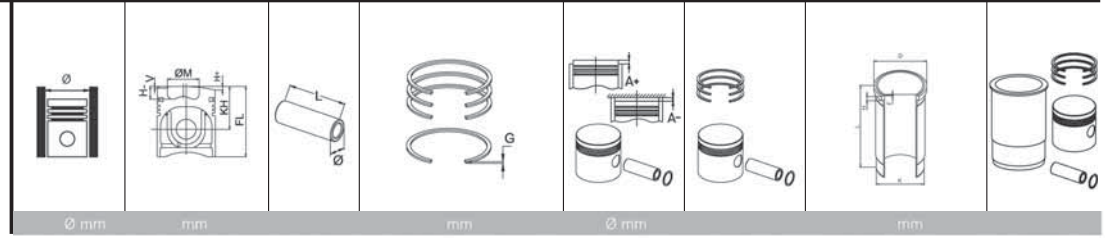
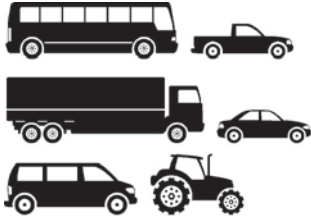
Diesel Engine V184 PUMA Common Rail 2400 cm ³ 2400 95 kW (130 PS) Vehicle Transit 2.4 Common Rail 2003...	4	89.91	53.50 - -15.62 80.50 MØ=47.10 	32.00 71.10	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	1468 000 89.91 AP YS Pist. Ç k nt s 1.10mm Conta il +0.30 / +0.40 1.15mm Conta il +0.40 / +0.45 1.20mm Conta il +0.45 / +0.50	3468 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF 	S
					9968 025	1468 025 90.16	3468 025	5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF 	S
					9968 050	1468 050 90.41	3468 050		
Diesel Engine V184 TDI, 19:1 2402 cm ³ 120 PS Vehicle Turbo Transit 310S, Journey, Transit 350E, Transit 350L, Transit 350M 2003....	4	89.91	53.50 - -17.24 80.50 MØ=40.40 	32.00 71.10	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	1474 000 89.91 AP YS Pist. Ç k nt s 1.10mm Conta ile +0.30 / +0.40 1.10mm Conta ile +0.40 / +0.45 1.10mm Conta ile +0.45 / +0.50	3474 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF 	S
					9968 025	1474 025 90.16	3474 025	5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF	S
					9968 050	1474 050 90.41	3474 050		



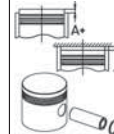
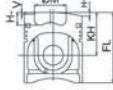
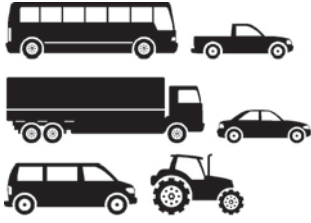
Ø mm

Diesel Engine V348 DURATORQ TDCI 74 kW (100 PS) Vehicle Transit 2.4 TDi	4	89.91	53.50 - -16.30 80.50 MØ=49.00 	32.00 71.00	9968 000 2.000D 2.000TN 2.000DY	CkP P StNt	89.91 AP	3469 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF 	S
									5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF 	S
Diesel Engine V348 DURATORQ 85 - 106 kW (115 - 143 PS) Vehicle TRANSIT 2.4 TDi	4	89.91	53.30 - -16.30 80.50 MØ=49.00 	32.00 71.00	9968 000 2.000D 2.000TN 2.000DY	CkP P StNt	89.91 AP YS	3463 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF 	S
									5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF	S

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine V348 TDCI 3200 cm ³ Vehicle TRANSIT 3.2	5	89.91	48.20 - -16.76 75.25 MØ=50.30 	32.00 74.00	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	1462 000 89.91 AP YS Pist. Ç k nt s 1.10 mm Conta ile +0.30 / +0.40 1.15 mm Conta ile +0.40 / +0.45 1.20 mm Conta ile +0.45 / +0.50	3462 000	5476 000 K=92.50 L=165.00 H+F=3.00 D=95.50 SF 	S
								5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF 	S
Diesel Engine New Model V184 TDI 2400 cm ³ 90 kW (125 PS) Vehicle Duratorq Transit 2.4 TDI 2003...	4	89.91	53.50 - -17.24 MØ=41.05 80.50 	32.00 71.10	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	2250 000 89.91 AP YS	4250 000	5477 000 K=92.50 L=165.00 H+F=5.00 D=94.00 SF 	S
					9968 050	2250 050 90.41	4250 050		



Diesel Engine D2FA 19:1 2402 cm ³ 66 kW (90 PS) Vehicle Ford Transit 01/2000...05.2006 Diesel Engine F4FA 19:1 2402 cm ³ 55 kW (75 PS) Vehicle Ford Transit 00/2000...05.2006	4	89.91	53.50 - -17.24 80.50 MØ=41.05	32.00 66.15	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	1475 000 89.91 AP YS Pist. Ç k nt s 1.10mm Conta ile +0.30 / +0.40 1.15mm Conta ile +0.40 / +0.45 1.20mm Conta ile +0.45 / +0.50	3475 000		
	4				9968 025	1475 025 90.16	3475 025		
					9968 050	1475 050 90.41	3475 050		
Diesel Engine 2.4 Duratorq 2400 cm ³ 135 PS Vehicle Transit 2.4 TDCI Duratorq 2.4	4	89.91	53.50 - -15.62 80.50 MØ=47.10	32.00 71.10	9968 000 2.000D CkP 2.000TN P 2.000DY StNt	1768 000 89.91 AP YS	3768 000		
					9968 050	1768 050 90.41	3768 050		
Diesel Engine XD 4.90 2112 cm ³ 46.5 kW (63 PS) Vehicle Granada D 2.1 08/1977...1982	4	90.00	57.20 - -2.00 96.35	28.00 77.00	9891 000 2.000D CrP 2.000K P 2.000N P 4.500DY CrP	1891 000 90.00	3891 000	5891 000 K=96.00 L=173.00 H+F=7.00 D=106.30 FF	7891 K,S
					9891 050	1891 050 90.50	3891 050	 1 R 88x2.5	
					9891 100	1891 100 91.00	3891 100		



Ø mm

mm

mm

Ø mm

mm

Benzin Engine

15 M-TS, 17 M, V 6

1498 cm³

Vehicle

Taunus

1962...1970

Capri 1700

Capri 260,RS,GT

Granada 2600,L,GL,GXL,SGLS,Gia

1970...1979

Benzin Engine

15 M-TS, 17 M, V 6

1699 cm³

Vehicle

Taunus

1962...1970

Capri 1700

Capri 260,RS,GT

Granada 2600,L,GL,GXL,SGLS,Gia

1970...1979

5425 000

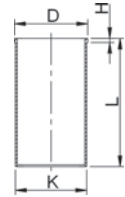
K=94.05

L=128.00

H+F=5.50

D=96.00

SF



5425 050

K=94.50

L=128.00

H+F=6.00

D=96.50

SF

Benzin Engine

OHC 2000 HC

1993 cm³

75 kW (101 PS)

Vehicle

Taunus 2000

1982...

Benzin Engine

HC

1994 cm³

84.5 kW (115 PS)

Vehicle

Sierra 2000

1982...

Benzin Engine

HC

1994 cm³

84.5 kW (115 PS)

Vehicle

Sierra 2.0 i , Scorpio 2.0 i

1983...

Benzin Engine

HC

1998 cm³

72 - 81 kW (98 - 110 PS)

Vehicle

Consul 2000, Escort RS 2000,
Cortina 2000 , Capri 200 II

1970...

4

90.80

41.55

24.00

9443 000

2.000D

MoP

2.500K

P

4.000DY

CrP

1443 000

90.80

Pist. Ç k nt s

-0.18 / -0.64

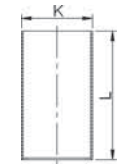
3443 000

5285 000

K=94.05

L=137.00

SF



S

5284 000

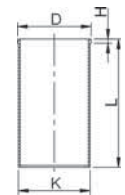
K=94.05

L=137.00

H+F=5.00

D=95.50

SF



S

5284 050

K=94.50

L=137.00

H+F=6.00

D=96.00

SF

9443 020

1443 020

91.30

3443 020

9443 040

1443 040

91.80

3443 040

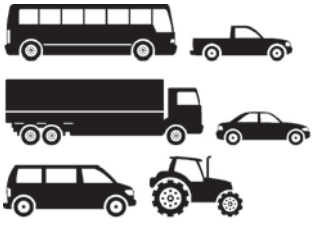
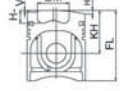
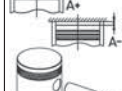
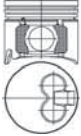
9443 225

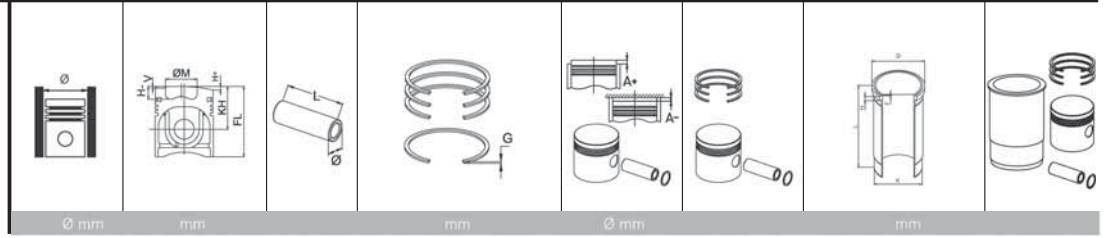
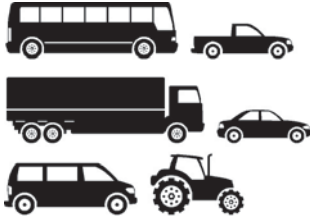
1443 225

93.05

3443 225

		Ø mm	mm	mm	mm	Ø mm	mm	mm	
Benzin Engine HC 1994 cm³ 72 - 81 kW (98 - 110 PS) Vehicle Consul 2000, Escort 2000, Cortina 2000, Taunus 2000, Granda 2000, Capri 2000 II 1970...1982	4	90.80	41.55 - 69.55	24.00 68.80	9444 000 1.600D Mo 2.000K P 4.000VF Cr	1444 000 90.80	3444 000	5285 000 K=94.05 L=137.00 SF 	S
Benzin Engine HC 1994 cm³ 84.5 kW (115 PS) Vehicle Sierra 2000 1983...1993 Scarpio 1983...	4							5284 000 K=94.05 L=137.00 H+F=5.00 D=95.50 SF 	S
Benzin Engine HC 1994 cm³ 77 kW (105 PS) Vehicle Sierra 2000 1982...1993	4							5284 050 K=94.50 L=137.00 H+F=6.00 D=96.00 SF	
Benzin Engine HC 1994 cm³ 73.5 kW (100 PS) Vehicle Sierra 2.0 1986...1993	4				9444 020	1444 020 91.30	3444 020		
					9444 030	1444 030 91.55	3444 030		
					9444 040	1444 040 91.80	3444 040		
Diesel Engine XM34 2500 cm³ (79 PS) Vehicle Ranger Pick Up	4	93.00						5498 000 K=96.00 L=162.00 H+F=5.00 D=97.50 SF 	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine XM34 TD / WL-T 2500 cm ³ 81 kW (110 PS) Vehicle Ranger Pickup XLT 1998... Ranger Pickup Thunder 1998...	4	93.00	47.85 - -2.10 87.35	32.00 70.00	9985 000 2.50 D IF CrP 2.50 K IF CrP 3.00 DY CrP	1977 000 93.00 AP YS Pist. Ç k nt s +0.30 / +0.42	3977 000		
					9985 050	1977 050 93.50			
Diesel Engine XM34 2500 cm ³ (80 PS) Vehicle Ranger Pickup	4	93.00	47.790 -1.20/-1.10 -2.90 87.35	32.00 70.00	9985 000 2.500 D IF MoP 2.000 K IF CrP 3.000 DY CrP	1985 000 93.000 AP Pist. Ç k nt s +0.12 / +0.25	3985 000		
					9985 050	1985 050 93.50			
Diesel Engine 2.5 DI Turbo 944 F-6110-AA 1496 cm ³ 73.6 kW (100 PS) Vehicle Pick up, Panelvan, Minibus 1995...	4	93.67	59.42 - -18.40 93.95 MØ=44.00	29.00 79.30	9426 000 2.500T CrP 2.000K IFU P 4.000DY CrP	1420 000 93.67 AP Pist. Ç k nt s +0.35 / +0.45	3420 000	5286 000 K=96.94 L=171.45 SF	S
									
					9426 025	1420 025 94.32	3420 025	5426 000 K=97.50 L=171.45 H+F=6.00 D=98.50 SF	S
					9426 040	1420 040 94.67	3420 040		



Diesel Engine

89 MY 2.5 Lt.
M4 T-6110 AA

51 - 60 kW (68 - 80 PS) 1496 cm³

Vehicle

Transit Minibus, Pick up
Pick up Van V5, T 2 Pick Up Transit V6,
T3 Minibus V4, Transit 80/100/
120/130/160/190

1990...

4 93.67

59.52
-
-18.00
94.00
MØ=40.00



29.00
77.00

9426 000

2.500T CrP
2.000K IFU P
4.000DY CrP

1426 000

93.67
AP

Pist. Ç k nt s
+0.30 /
+0.40

3426 000

5286 000

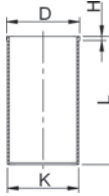
K=96.94
L=171.45
SF



S

5426 000

K=97.50
L=171.45
H+F=6.00
D=98.50
SF



S

9426 025

1426 025
94.32

3426 025

9426 040

1426 040
94.67

3426 040

Diesel Engine

York D 25 N/P

50 kW (68 PS) 2496 cm³

Vehicle

Transit 80/100/120/130/
160/190

1984...10/1988

4 93.67

59.50
-0.60 / -0.95
-16.94
93.50
MØ=46.70



29.00
77.00

9427 000

2.000D CrP
2.000K P
4.000DY CrP

1427 000

93.67
AP

Pist. Ç k nt s
+0.30 /
+0.50

3427 000

5286 000

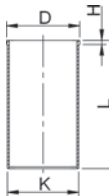
K=96.94
L=171.45
SF



S

5426 000

K=97.50
L=171.45
H+F=6.00
D=98.50
SF



S

9427 025

1427 025
94.32

3427 025

9427 040

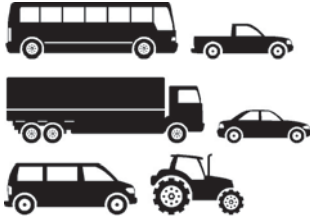
1427 040
94.67

3427 040

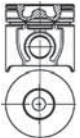
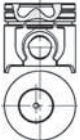
9427 060

1427 060
95.17

3427 060



Ø mm	mm		mm	Ø mm		mm	

Diesel Engine 2.5 Di TC 55 kW (76 PS) Vehicle TRANSIT 1995...	4	93.67	59.52 - -18.00 94.00 MØ=40.00 	29.00 77.00	9420 000 2.500TT IF-IFU CrP 2.000TN P 4.000DY CrP	2251 000 93.67 AP Pist. Ç k nt s +0.25 / +0.40	4251 000		
					9420 065	2251 065 94.32	4251 065		
					9420 100	2251 100 94.67	4251 100		
Diesel Engine 2.5 Di TC 74 kW (100 PS) Vehicle TRANSIT V5 MINIBUS	4	93.67	59.42 - -18.40 93.95 MØ=44.00 	29.00 79.30	9420 000 2.500TT IF-IFU CrP 2.000TN P 4.000DY CrP	2252 000 93.67 AP Pist. Ç k nt s +0.30 / +0.40	4252 000		
					9420 065	2252 065 94.32	4252 065		
					9420 100	2252 100 94.67	4252 100		
Diesel Engine LD X 2 49 kW (69 PS) Vehicle Sierra 2.3 D 1982...1992 Granada 2.3 D, Scorpio 2.3 D 1982...	4	94.00	57.42 - -2.00 99.92 	30.00 78.80	9895 000 2.000D CrP 2.000K IF P 4.000DY CrP	1894 000 94.00	3894 000	5288 000 K=97.00 L=170.60 H+F=3.90 D=99.50 SF 	S
					9895 040	1894 040 94.40	3894 040		
					9895 060	1894 060 94.60	3894 060		
					9895 100	1894 100 95.00	3894 100		

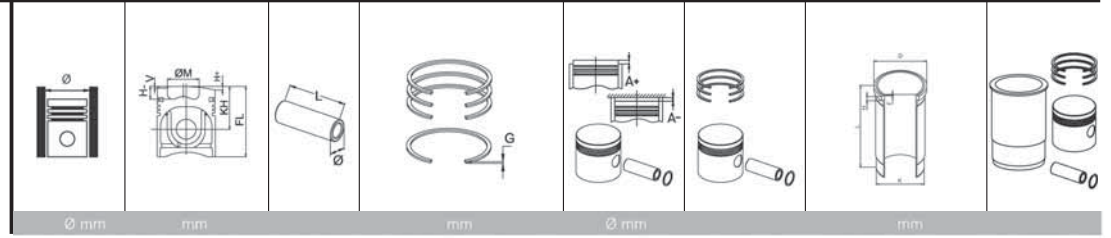
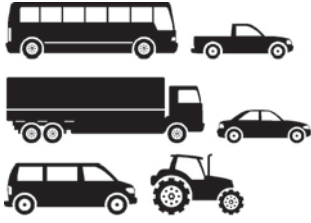
Ø mm	mm	mm	mm	Ø mm	mm	mm	mm	mm

Diesel Engine XD 3 P 2498 cm ³ 51.5 kW (70 PS) Vehicle Granada 2.5 D, Scpio 2.5 D 1982...	4	94.00	53.92 - -1.80 96.42	30.00 78.80	9895 000 2.000 D CrP 2.000 K IF P 4.000 DY CrP	1893 000 94.00 Pist. Ç k nt s 1.58 mm Cont ... / +0.84 1.70 mm Cont ... / +0.84	3893 000	5288 000 K=97.00 L=170.60 H+F=3.90 D=99.50 SF	S
					9895 040	1893 040 94.40	3893 040		
					9895 060	1893 060 94.60	3893 060		
					9895 100	1893 100 95.00	3893 100		

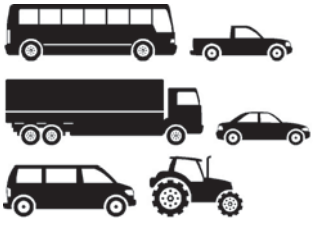
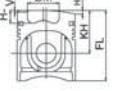
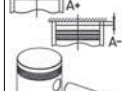
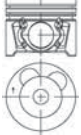
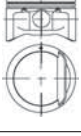
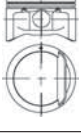
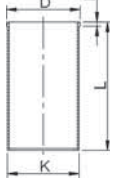
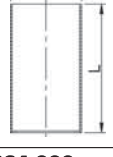
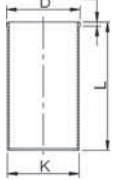
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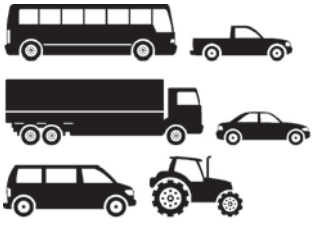
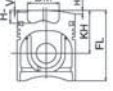
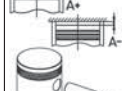
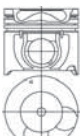
Benzin Engine R18A1-Flex DE 1799cm ³ Vehicle Civic / New Civic Anev	4	81.00	30.45 -0.40/-1.35 -1.95 50.95	19.96 46.00	9029 000 1.200 1.200 2.000	2005 000 81.00	4005 000		
					9029 050	2005 050 81.50	4005 050		
Benzin Engine R18A1 GNS 1799cm ³ Vehicle Civic SOHC 16V	4	81.00	28.90 -0.61/-1.60 2.00 49.400 36.8	19.96 46.00	9029 000 1.200 1.200 2.000	2006 000 81.00	4006 000		
					9029 050	2006 050 81.50	4006 050		

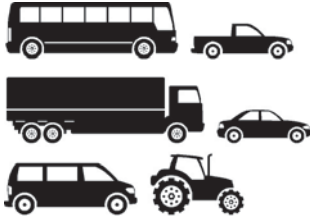
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Benzin Engine G4EH 1348 cm³ Vehicle Accent 1.3 1995...1998	4	71.50	31.30 -2.00 -1.10 54.40 MØ=59.00 	18.00 47.50	9614 000 1.500D CrP 1.500K P 3.000DY CrP	2441 000 71.50	4441 000 K=74.50 L=132.00 H+F=5.70 D=75.50 SF 	S
			31.30 -2.00 -1.10 54.40 MØ=59.00		9614 050	2441 050 72.00	4441 050	
Benzin Engine G4K 1300 cm³ 74 kW (100 PS) Vehicle Accent Milenyum 2000...	4	71.50	30.80 -2.20 -0.70 53.90 MØ=65.50 	18.00 47.50	9614 000 1.500D CrP 1.500K P 3.000DY CrP	2479 000 71.50	4479 000	
			30.80 -2.20 -0.70 53.90 MØ=65.50		9614 050	2479 050 72.00	4479 050	
Diesel Engine 16 Valves, Doch Turbo Intercooler VGT 1493 cm³ 81 kW (110 PS) Vehicle ERA CRDi 1,5 04.2005...	4	75.00	41.950 -0.50 -12.20 65.700 MØ=43.45 	28.00 62.00	9497 000 1.750D IF CrP 1.750D IW MoP 3.000DY CrP	2447 000 75.00 AP YS Pist. Ç k nt s +0.15 / +0.35	4447 000	
					9497 050	2447 050 75.50	4447 050	



Benzin Engine G4EE DOCH 16 Valve 10:1 97 PS 1399 cm ³ Vehicle Accent Era 1.4 16V 2005...	4	75.50	28.75 -2.95 +2.20 47.90 	18.00 47.90	9093 000 1.200D IF CrSt 1.200TN P 2.000VF NtP	2478 000 75.50	4478 000		
					9093 050	2478 050 76.00	4478 050		
Diesel Engine 1500 cm ³ Vehicle Accent 1.5 Milenium 2000...	4	75.5	31.07 -3.00 +0.95 54.40 	18.00 47.50	9493 000 1.200D CrSt 1.500K P 3.000VF CrSt	2483 000 75.50	4483 000		
			31.07 -3.00 +0.95 54.40		9493 050	2483 050 76.00	4483 050		
Benzin Engine DOCH 1.6 G4ED 1599 cm ³ Vehicle Accent 1.6i 16 V 08.1999...	4	76.50	28.140 -3.20 -0.42 50.200 	18.00 47.50	9496 000 1.200D IF Mo 1.200N Cr 2.000UB CrP	2446 000 76.500	4446 000	5711 000 K=79.50 L=132.00 H+F=5.10 D=81.00 SF 	S
					9496 050	2446 050 77.000	4446 050		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine D4FB 1582 cm ³ 85 kW (115 PS) Vehicle I 30 2007...	4	77.2	41.95 -0.50 -12.70 65.70 MØ=44.00 	28.00 62.00	9026 000 1.750 D IF StNt 1.750 K IF CrP 3.000 DY StNt	2481 000 77.20 AP YS	4481 000		
			41.95 -0.50 -12.70 65.70 MØ=44.00 		9026 050	2481 050 77.70			
Benzin Engine G4GC/G4GF 1975 cm ³ Vehicle Tiburon / Tuscon DOCH 2001...	4	82.00	31.30 -3.64 - 57.80 	20.00 59.00	9179 000 1.20 1.20 2.00	2029 000 82.00	4029 000		
Diesel Engine D 3 EA, Turbo Common Rail, 12V 1493 cm ³ 60 kW (81 PS) Vehicle Accent 1.5 CRDi, Getz 1.5 CRDi 2002...	3	83.00	46.30 - -13.80 72.30 MØ=47.00 	28.00 65.40 PDB	9880 000 2.000 T CrP 2.000 K IFU MoP 3.000 DY CrP	2444 000 83.00 AP Pist. Ç k nt s +0.30 / +0.39	4444 000	5610 000 K=87.08 L=155.00 H+F=5.10 D=88.25 SF 	S
					9880 050	2444 050 83.50			
Diesel Engine 2600 cm ³ Vehicle H 100 Kamyonet Tek ve Çift Kabin 1996...	4	91.10	46.25 -2.00/-2.40 -3.20 76.15 	29.00 75.00	9498 000 2.000 D CrP 2.000 K CrP 3.000 DY CrP	2439 000 91.10 AP Pist. Ç k nt s 1.45 mm Conta ile +0.562 / +0.620 1.50 mm Conta ile +0.62 / +0.68 1.55 mm Conta ile +0.68 / +0.774	4439 000	5661 000 K=94.18 L=165.00 SF 	S
					9498 050	2439 050 91.60		5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine D4BF Turbo Intercooled 2467 cm ³ Vehicle Starex 2.5 TCI	4	91.10	48.70 -1.25 -3.30 88.70 	29.00 75.00	9843 000 2.500TT CrP 2.000TT CrP 4.000DY CrP	2442 000 91.10 AP YS Cyl. 1/3 to be Pist. Ç k nt s +0.50 / +0.60	4442 000	5661 000 K=94.18 L=165.00 SF 	S
					9843 050	2442 050 91.60	4442 050	5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	S
					48.70 -1.25 -3.30 88.70 	29.00 75.00	9843 000 2.500TT CrP 2.000TT CrP 4.000DY CrP	2443 000 91.10 AP YS Cyl. 2/4 to be Pist. Ç k nt s +0.50	4443 000
					9843 050	2443 050 91.60	4443 050		
Diesel Engine D4CB CRDI 2497 cm ³ 103 kW (140 PS) Vehicle STAREX 2.5 CRDI 2002...	4	91.00						5712 000 K=94.20 L=170.00 SF 	
Benzin Engine D4CB CRDI 2497 cm ³ (140 PS) Vehicle Starex 2.5 CRDI 07.2002...	4	91.00	54.21 -0.35 -15.00 83.74 MØ=51.95 	33.00 75.00	9537 000 2.500TT CrP 2.000K IW CrP 3.000DY CrP	1537 000 91.00 AP YS Pist. Ç k nt s +0.06 / +0.24	3537 000		
					9537 050	1537 050 91.50	3537 050		



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Diesel Engine

D4

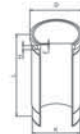
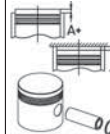
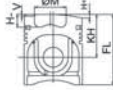
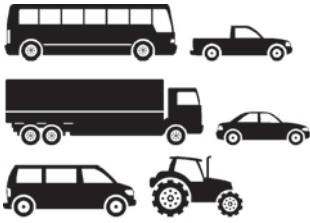
Eski Tip

2477 cm³

Vehicle

H 100 Eski Tip

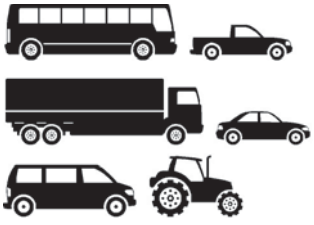
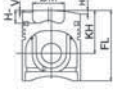
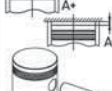
4	91.10	48.65 -2.00 / -2.60 -3.20 88.70	29.00 75.00	9498 000 2.000D CrP 2.000K CrP 3.000DY CrP	1498 000 91.10 AP	3498 000	5661 000 K=94.18 L=165.00 SF 	S
							5661 050 K=94.65 L=165.00 SF	
							5661 100 K=95.15 L=165.00 SF	
							5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	S
							5664 050 K=94.60 L=165.00 H+F=6.00 D=96.50 SF	
							5664 100 K=95.08 L=165.00 H+F=6.00 D=97.00 SF	
				9498 050	1498 050 91.60	3498 050		

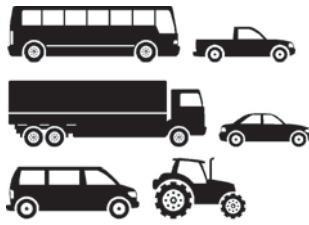
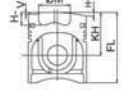
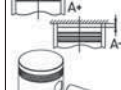
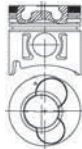
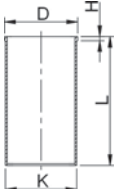
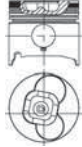
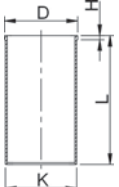


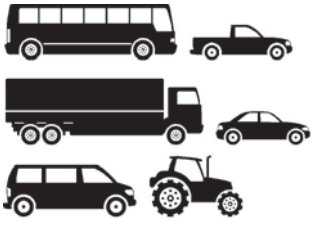
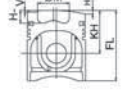
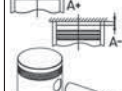
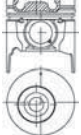
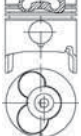
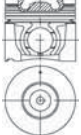
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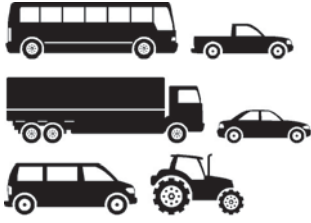
Ø mm

Diesel Engine D4 Yeni Tip Vehicle H 100 Yeni Tip	2477 cm³	4	91.10	48.65 -2.00 / -2.60 -3.20 88.70	29.00 75.00	9498 000 2.000D 2.000K 3.000DY	CrP CrP CrP	1499 000 91.10 Pist. Ç k nt s 1.45 mm Conta ile +0.562 / +0.620 1.50 mm Conta ile +0.62 / +0.68 1.55 mm Conta ile +0.68 / +0.774	3499 000	5661 000 K=94.18 L=165.00 SF 	S
										5661 050 K=94.65 L=165.00 SF	
										5661 100 K=95.15 L=165.00 SF	
										5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	S
										5664 050 K=94.60 L=165.00 H+F=6.00 D=96.50 SF	
						9498 050		1499 050 91.60	3499 050	5664 100 K=95.08 L=165.00 H+F=6.00 D=97.00 SF	
Diesel Engine D48F Vehicle Starex 2.5 TC	2500 cm³ 1998...	4	91.10	48.70 -2.30/-2.60 -3.10 88.70	29.00 75.00	9843 000 2.500TT 2.000TT 4.000DY	CrP CrP CrP	2480 000 91.10 AP Pist. Ç k nt s 1.45 mm Conta ile +0.562 / +0.620 1.50 mm Conta ile +0.62 / +0.68 1.55 mm Conta ile +0.68 / +0.775	4480 000		
						9843 050		2480 050 91.60	4480 050		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 4EC1-T 22,5:1 Turbo charged 1488 cm ³ 49-54 kW (67-73 PS) Vehicle Gemini 1.5 TD 05/1985 ... 04/1990	4	76.020	41.70 -0.35 -1.60 71.70	25.00 60.00	9976 000 2.000D CrP 1.500K CrP 3.000DY Cr	2391 000 76.02 AP	4391 000	5722 000 K=105.00 L=204.00 H+F=1.40 D=112.40 FF CHR Steel	8396 K,S
					9976 050	2391 050 76.52	4391 050		
					9976 100	2391 100 77.02	4391 100		
Diesel Engine 4EE2 Charge Intercooling Common Rail 18.4:1 1686 cm ³ 74 kW (100 PS)	4	79.00	39.75 -1.30/-1.20 -14.00 64.75 MØ=41.80	27.00 64.00	9822 000 2.000D StNt 1.500K CrP 3.000DY CrPSt	2233 000 79.00 AP YS	4233 000		
					9822 025	2233 025 79.25	4233 025		
					9822 050	2233 050 79.50	4233 050		
Diesel Engine C220 1991cm ³ Vehicle C220 1964...1968 Diesel Engine DL201 2707 cm ³ Vehicle DL201 1964...1968	4	83.00						5485 000 K=86.05 L=174.50 H+F=5.00 D=92.00 SF	S
									

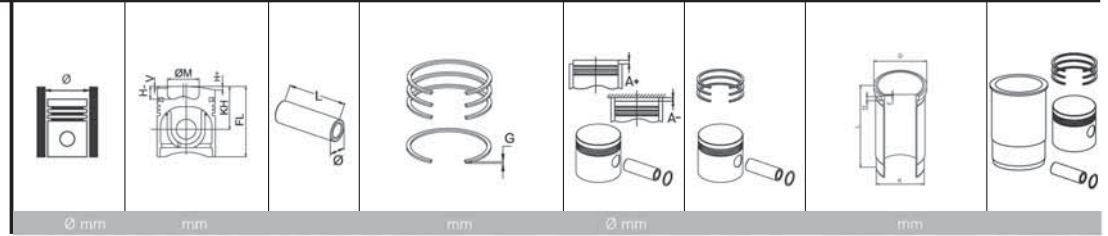
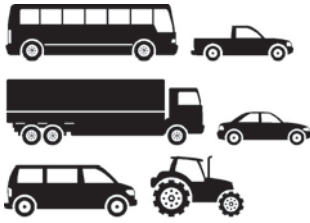
									
	Ø mm	mm		mm		Ø mm		mm	
Diesel Engine 4JB1T New Turbo Diesel 18.2:1 100-115 PS Vehicle 2.8 TD Pick-Up 2771 cm ³	4	93.00	52.00 - -19.30 92.00 MØ=44.00 	34.00 78.00	9389 000 2.000D P 2.000TN P 4.000DY P	2389 000 93.00 AP	4389 000	5721 000 K=95.00 L=181.00 H+F=0.90 D=101.00 FF CHR Stil 	8389 K,S
Diesel Engine 4JB1 Peugeot ile ortak motor 57 Kw (78 PS) Vehicle NKR 55 Kamyonet 2771 cm ³ 1985....	4	93.00	51.85 -0.55 -19.50 91.85 MØ=43.90 	31.00 76.00	9389 000 2.000D P 2.000TN P 4.000DY P	2385 000 93.00 AP Pist. Ç k nt s 0 / +0.70	4385 000	5721 000 K=95.00 L=181.00 H+F=0.90 D=101.00 FF CHR Stil 	8385 K,S
Diesel Engine 4JB1 50 Kw (68 PS) Vehicle NKR 55 KAMYONET 2771 cm ³ 1997...	4	93.00	51.84 -0.49 -14.40 91.84 MØ=48.00 	31.00 76.00	9389 000 2.000D P 2.000TN P 4.000DY P	2387 000 93.00 AP Pist. Ç k nt s 0 / +0.70	4387 000		
Diesel Engine 4JA1 50-56 Kw (73-76 PS) Vehicle TFR 54 Pick-Up 2499 cm ³ 1988...	4	93.00	47.80 -0.50 -14.60 87.80 MØ=44.30 	31.00 76.00	9389 000 2.000D P 2.000TN P 4.000DY P	2386 000 93.00 AP Pist. Ç k nt s 1.60 mm Conta ile +0.718 / +0.773 1.65 mm Conta ile +0.773 / +0.819 1.70 mm Conta ile +0.819 / +0.874	4386 000	5720 000 K=95.00 L=156.00 H+F=0.90 D=101.00 FF CHR Steel 	8386 K,S

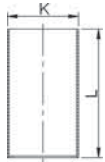
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine 4JA1-TC Common Rail 2499 cm ³ 74 kW (100 PS) Vehicle D-MAX Pickup 4x2, 4x4 2004...	4	93.00	31.07 -3.00 +0.95 54.40	18.00 47.50	9493 000 1.200D CrSt 1.500K P 3.000VF CrSt	2483 000 75.50	4483 000		
					9493 050	2483 050 76.00	4483 050		
4JA1-TC Serisi Common Rail 18,5:1 1499 cm ³ 74 kW (100 PS) Vehicle D-MAX Pickup 4x4, 4x2 2004...	4	93.00	47.81 - -15.80 102.85 MØ=49.50	31.00 76.00	9391 000 2.000D P 2.000TN P 4.000DY StNt	2383 000 93.00 AP YS	4383 000		
									
Diesel Engine 4JA1T New 2499 cm ³	4	93.00	47.80 -0.5 -17.10 102.80 MØ=44.50	31.00 76.00	9391 000 2.000D P 2.000TN P 4.000DY NtSt	2390 000 93.000 AP	4390 000		
									
Diesel Engine 4JK-TC 2499 cm ³ 85 kW (116 PS) Vehicle D-MAX Pickup 4x4, 4x2 2007...	4	95.40	58.50 - -16.80 87.20 MØ=45.80	34.00 78.00	9384 000 2.000T StNt 1.500K IWU MoP 3.000	2384 000 95.40 AP YS	4384 000		
					9384 050	2384 050 95.90	4384 050		
Diesel Engine			58.50 - -16.80 87.20 MØ=45.80						

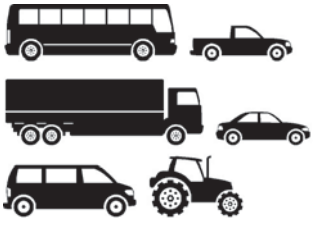
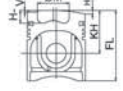


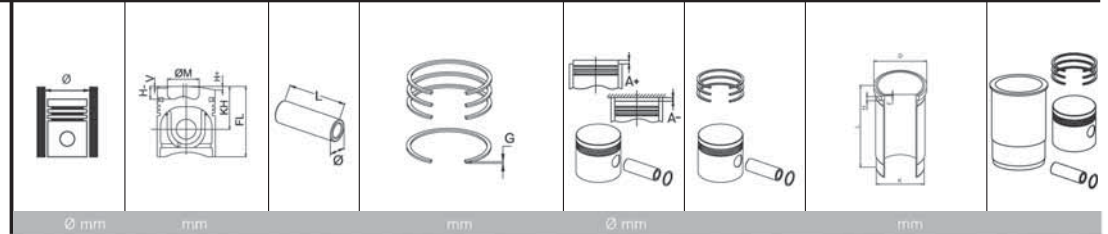
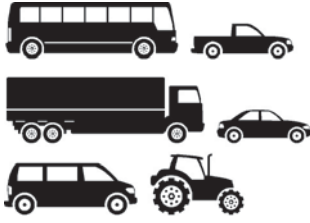
Ø mm	mm	mm	mm	Ø mm	mm	mm	mm	mm

Diesel Engine Vehicle Pride	4	71.00	28.70 -1.00 / -1.50 -3.60/-4.50 60.00 	20.00 52.00	9535 000 1.200D 1.500D 3.000PS	1535 000 71.00	3535 000		
Diesel Engine D4FB 85 kW (115 PS) Vehicle Cerato	4	77.2	41.95 -0.50 -12.70 65.70 MØ=44.00 	28.00 62.00	9026 000 1.750D IF StNt 1.750K IF CrP 3.000DY StNt	2481 000 77.20 AP YS	4481 000		
			41.95 -0.50 -12.70 65.70 MØ=44.00		9026 050	2481 050 77.70	4481 050		
Diesel Engine Eski Tip 2184 cm ³ Vehicle Besta-Mazda E2200	4	86.00	47.35 - -1.60 86.15 	25.00 68.00	9530 000 2.000D CrP 2.000TN IW P 4.000DY CrP	1530 000 86.00 AP Pist. Ç k nt s Çelik Conta +0.35 / +0.55 Klingerit Conta +0.35 / +0.65	3530 000	5530 000 K=89.60 L=165.00 H+F=5.00 D=91.50 SF 	S
					9530 050	1530 050 86.50	3530 050	5530 050 K=90.10 L=165.00 H+F=6.00 D=92.00 SF	
								5530 100 K=90.60 L=165.00 H+F=6.00 D=92.50 SF	

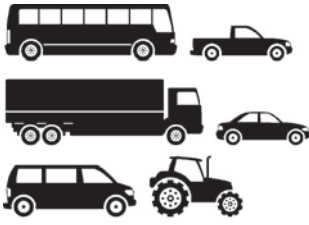
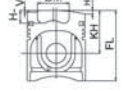
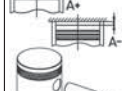


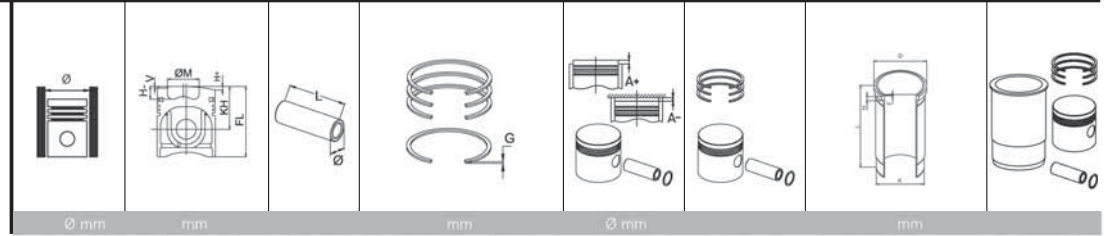
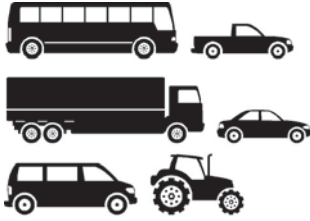
Diesel Engine D4BH Turbo Intercooled 2467 cm ³ Vehicle K 2500 TCI Bongo, Starex 2000...	4	91.10	48.70 -1.25 -3.30 88.70 	29.00 75.00 	9843 000 2.500TT CrP 2.000TT CrP 4.000DY CrP 9843 050	2442 000 91.10 AP YS Cyl. 1/3 to be Pist. Ç k nt s +0.50 / +0.60 2442 050 91.60 2443 000 91.10 AP YS Cyl. 2/4 to be Pist. Ç k nt s +0.50 2443 050 91.60	4442 000 4442 050 4443 000 4443 050	5612 000 K=94.18 L=167.00 SF 	
Diesel Engine SF2400 53 kW (72 PS) 2367 cm ³ Vehicle Ceres K 2400	4	92.00	50.60 - -1.95 94.60 	28.00 75.00 	9532 000 2.385D CrP 2.385K P 4.000DY CrP	1532 000 92.00 AP Pist. Ç k nt s +0.20 / +0.35	3532 000	5532 000 K=96.88 L=167.00 H+F=3.70+0.70 D=101.00 SF 	S
								5532 050 K=97.40 L=167.00 H+F=3.70+0.70 D=101.00 SF	
								5532 100 K=97.88 L=167.00 H+F=4.70+0.70 D=102.00 SF	

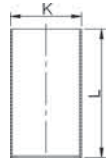
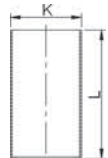
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine J 20 HC 2665 cm ³ Vehicle Bongo 2,7, Pregio 1997...	4	94.545	50.00 - -2.00 81.65	30.00 76.00	9534 000 2.000D Cr 2.000K IW Cr 3.000DY Cr	1534 000 94.545 AP Pist. Ç k nt s +0.30 / +0.40	3534 000	5535 000 K=97.55 L=167.00 H+F=3.80 D=104.50 SF 	
								5536 000 K=97.46 L=167.50 H+F=3.81+0.65 D=104.45 FF PHS	7534
Diesel Engine SH K3600 New 3598 cm ³ Vehicle BONGO	4	100.00	56.20 - -20.00 102.00 MØ=51.00	34.00 82.00	9538 000 2.000D CrSt 2.000K IW CrP 3.000DY NtSt	1539 000 100.00 YS	3539 000		

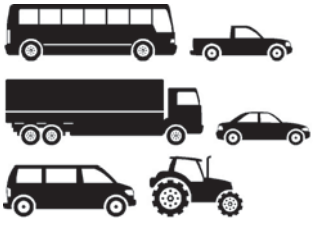
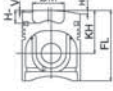
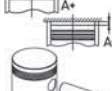
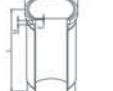


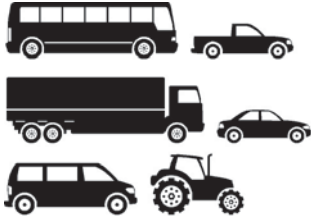
Benzin Engine BA 3 2101 1198 cm ³ 44 - 45.5 kW (60 - 62 PS) Vehicle VAZ 2101, VAZ 2102, 1200 Nova Junior 1970... Benzin Engine 1451 cm ³ 55 - 56.5 kW (75 - 77 PS) Vehicle VAZ 2103,1500 1973...	4	76.00	38.00 - 77.00	22.00 67.00	9231 000 1.500D CrP 2.000TN P 3.947DY P	1232 000 76.00	3232 000	5547 000 K=80.05 L=145.20 H+F=5.00 D=81.00 SF 	S
	4				9231 040 9231 060 9231 080 9231 100 9231 150	1232 040 76.40 1232 060 76.60 1232 080 76.80 1232 100 77.00 1232 150 77.50	3232 040 3232 060 3232 080 3232 100 3232 150	5547 050 K=80.50 L=145.20 H+F=6.00 D=81.50 SF 5547 100 K=81.05 L=145.20 H+F=6.00 D=82.00 SF 	
Benzin Engine 1.5 1488 cm ³ 55 kW (75PS) Vehicle Samara 1500 Shiguli VAZ 21083 1984...	4	82.00						5545 000 K=85.50 L=128.00 H+F=5.00 D=86.50 SF 	

									
		Ø mm	mm		mm	Ø mm		mm	
Diesel Engine Storm MDI 525 KAT 2496 cm ³ 102 kW (138 PS)	5	84.45	47.94 - -17.40 78.94 MØ=39.00 	30.00 70.00	9549 000 3.000T Cr 2.000TN P 3.000DY Cr	1549 000 84.45 AP YS	3549 000		
					9549 000	1549 020 84.95			
Diesel Engine 20 T 2N, 20 T 2R 1984 cm ³ 63 - 77 kW (86 - 105 PS) Vehicle 220, 420 1996... 620 03/1995...	4	84.45	47.97 - -17.00 76.97 MØ=38.00 	30.00 70.00	9548 000 3.000T IF Mo 2.000TN P 3.000DY Cr	1548 000 84.45 AP	3548 000		
Diesel Engine 12 J 2494 cm ³ Vehicle 90,110 1984...1990 Defender 90/110/130 1990..	4	90.475	54.60 - -3.60 86.31 	30.162 74.50	9551 000 2.000D CrP 2.000K P 4.000DY CrP	1551 000 90.475 AP	3551 000	5549 000 K=94.50 L=191.30 SF 	S
								5550 000 K=94.53 L=191.30 H+F=4.76 D=99.70 SF 	S
					9551 020	1551 020 90.985			
					9551 030	1551 030 91.225			
					9551 040	1551 040 91.475	3551 040		



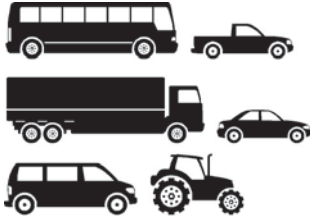
Benzin Engine 2.3 L 2286 cm ³ Vehicle 88 Series II/IIA/III 90 Series II/IIA/III 1958...1985	4	90.475	58.522 - 99.924 	25.397 76.20	9552 000 1.778D CrP 1.778K P 4.722DY CrP	1552 000 90.475	3552 000	5549 000 K=94.50 L=191.30 SF 	S
								5550 000 K=94.53 L=191.30 H+F=4.76 D=99.70 SF 	
								9552 020 1552 020 90.975 3552 020	
								9552 030 1552 030 91.225 3552 030	
Benzin Engine 17 H 2495 cm ³ Vehicle 90,110 Defender 1985...1990 1990..	4	90.475	54.48 - -0.91 89.23 	25.397 76.20	9552 000 1.778D CrP 1.778K P 4.722DY CrP	1553 000 90.475	3553 000	5549 000 K=94.50 L=191.30 SF 	S
								9552 020 1553 020 90.975 3553 020	
								9552 030 1553 030 91.225 3553 030	
								9552 040 1553 040 91.475 3553 040	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine Gemini III DI/TCI 2486 cm ³ 83.kW (113 PS) Vehicle Landrover 90, 200 TDI Discovey, 300 TDI 1994...	4	90.475	55.40 - -18.45 91.90 MØ=39.08	30.162 77.00	9554 000 3.000T CrP 2.500TN P 3.000DY Cr	1554 000 90.475 AP Pist. Ç k nt s 1.Çentik Conta ile +0.50 / +0.60 2.Çentik Conta ile +0.61 / +0.70 3.Çentik Conta ile +0.71 / +0.80	3554 000	5549 000 K=94.50 L=191.30 SF	S
					9554 020	1554 020 90.975	3554 020		
					9554 030	1554 030 91.225	3554 030		
					9554 040	1554 040 91.475	3554 040		
Diesel Engine 10 J 2495 cm ³ Vehicle Land Rover 110 1986...1990	4	90.475	54.597 - -3.63 86.309	30.162 74.50	9558 000 1.990D Cr 1.950K IF 2.990DY	1558 000 90.475 AP HA	3558 000		
					9558 020	1558 020 90.975	3558 020		
					9558 040	1558 040 91.475	3558 040		
Diesel Engine 2486 cm 83 kW (113 PS) Vehicle Landrover 90, 200 TDI Discovery 1989...1993	4	90.475	55.40 - -18.85 91.90 MØ=39.60	30.162 77.00	9555 000 2.500T Cr 2.000K P 3.000DY Cr	1555 000 90.475 AP	3555 000		
					9555 020	1555 020 90.975	3555 020		
					9555 030	1555 030 91.225	3555 030		
					9555 040	1555 040 91.475	3555 040		



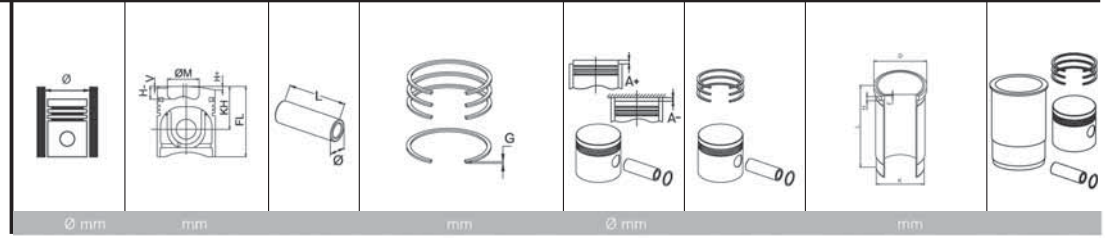
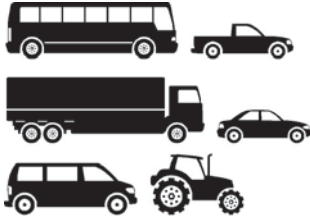
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Diesel Engine 3,5 L EFI 3942 cm ³ Vehicle Rover D scovery-Range Rover Vogue SE 1989...1992	8	94.00	47.295 - -6.10 77.10 MØ=77.40 	22.22 72.80	9559 000 1.500D 1.500TN 3.000VF Cr	1559 000 94.00	3559 000		
					9559 020	1559 020 94.50	3559 020		
Benzin Engine V8 3950 cm ³ Vehicle Range Rover 4,0 V8 09/1994...	8	94.00	35.90 - -3.38 66.35 MØ=77.00 	24.00 60.20	9546 000 1.200D 1.490K 2.900VF Cr	1546 000 94.00	3546 000		
Benzin Engine 4,6 L V 8 4554 cm ³ Vehicle Range Rover 4,6 V8 HSE 09/1994...	8	94.00	35.90 - -5.83 66.35 MØ=77.00 	24.00 60.20	9546 000 1.200D 1.490K 2.900VF Cr	1547 000 94.00	3547 000		

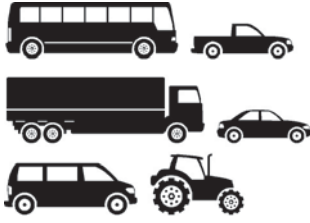


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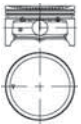
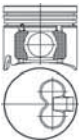
Diesel Engine DV 4 TD 1398 cm ³ 50 kW (68PS) Vehicle 2 1.4 CDi 02.2003...	4	73.70	42.94 -1.65 -14.70 65.40 MØ=37.15 	25.00 60.00	9460 000 2.500T CKP 1.950K IFU P 2.500DY CrP	1460 000 73.70 AP Pist. Ç k nt s 1. Çentik 1.252 mm conta ile +0.618 / +0.725 2. Çentik 1.303 mm conta ile +0.726 / +0.775 3. Çentik 1.351 mm conta ile +0.776 / +0.825	3460 000		
					9460 050	1460 050 74.20			
Benzin Engine FS DOCH 16V 1839 cm ³ Vehicle 626 1.9 1991...2001	4	83.00	29.90 - -8.30 53.90 	19.00 58.00	9025 000 1.200D IF CrSt 1.500TN P 3.000UB CrSt	1976 000 83.00	3976 000		
					9025 050	1976 050 83.50			

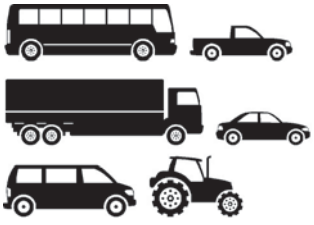
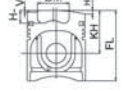
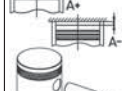
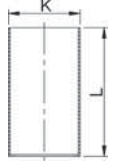
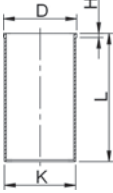


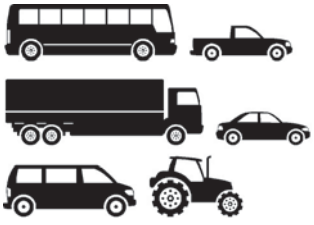
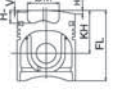
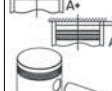
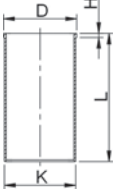
Diesel Engine R 2 2184 cm ³ 44 kW (60 PS) Vehicle E 2200 1984...1988 Diesel Engine RF 1998 cm ³ 47-55 kW (64-75 PS) Vehicle 626 1982...1990	4	86.00	47.35 - -1.60 86.15	25.00 68.00	9530 000 2.000D CrP 2.000TN IW P 4.000DY CrP	1530 000 86.00 AP Pist. Ç k nt s Çelik Conta +0.35 / +0.55 Klingerit Conta +0.35 / +0.65	3530 000	5621 000 K=89.10 L=163.50 H+F=3.00 D=94.10 SF	S
	4							5621 050 K=89.60 L=163.50 H+F=4.00 D=94.10 SF	
					9530 050	1530 050 86.50	3530 050	5621 100 K=90.10 L=163.50 H+F=4.00 D=95.00 SF	
Diesel Engine RF, R2 2184 cm ³ 47 kW (64 PS) Vehicle Crew Cap, E2200 Van Pickup, Yeni Tip, Bongo 2.2D	4	86.00	43.31 - -1.50 82.31	25.00 64.00	9986 000 2.000D IF CrP 2.000K IW P 3.000DY CrP	1986 000 86.00 AP YS	3986 000	5621 000 K=89.10 L=163.50 H+F=3.00 D=94.10 SF	S
								5621 050 K=89.60 L=163.50 H+F=4.00 D=94.10 SF	
					9986 050	1986 050 86.50	3986 050		

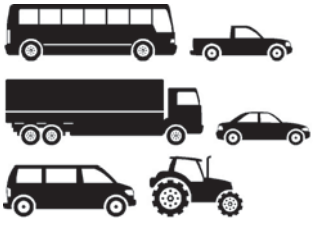
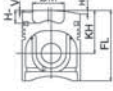
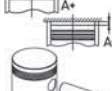
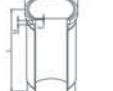
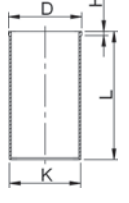


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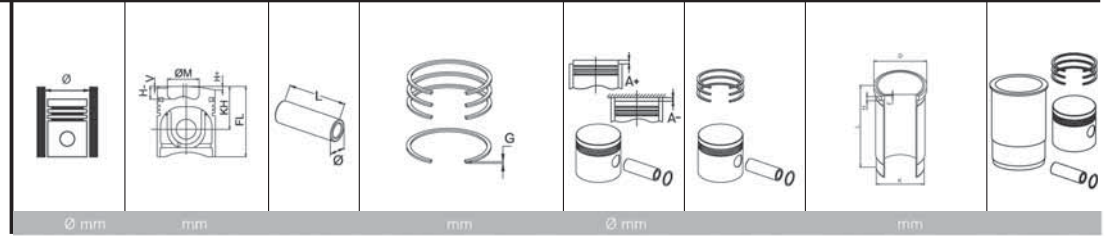
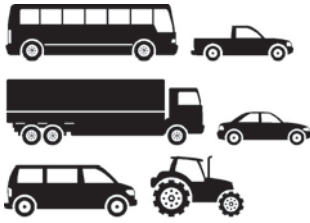
Benzin Engine LF17, LF18, LFF7 10.8:1 1999 cm³ 104 - 110 kW (141 - 150 PS) Vehicle Mazda 3 2.0i 16V Mazda 5 2.0i 16V Mazda 6 2.0i 16V 03.2002...	4	87.50	28.40 - -0.35 51.00 MØ=75.40 	21.00 60.00	9716 000 1.200D CrSt 1.200K IFU P 2.500VF NtP	2257 000 87.50	4257 000	
					9716 050	2257 050 88.00	4257 050	
Diesel Engine WL OHC 2500 cm³ Vehicle Pick-Up B2500 1997...2004	4	93.00	47.790 -1.20/-1.10 -2.90 87.35 	32.00 70.00	9985 000 2.500D IF MoP 2.000K IF CrP 3.000DY CrP	1985 000 93.000 AP Pist. Ç k nt s +0.12 / +0.25	3985 000	5498 000 K=96.00 L=162.00 H+F=5.00 D=97.50 SF 
					9985 050	1985 050 93.50	3985 050	
Diesel Engine XM34 TD / WL-T 2500 cm³ 81 kW (110 PS) Vehicle B2500 TD 1998...	4	93.00	47.85 - -2.10 87.35 	32.00 70.00	9985 000 2.50 D IF CrP 2.50 K IF CrP 3.00 DY CrP	1977 000 93.00 AP YS Pist. Ç k nt s +0.30 / +0.42	3977 000	
			47.85 - -2.10 87.35		9985 050	1977 050 93.50	3977 050	

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine M 160 R3, Turbo, Intercooling 6 Valves, 9.5:1 599 cm ³ 33 - 52 kW (45 - 70 PS) Vehicle City Cabrio 600i Turbo, City Coupe 600i, Passion 600i Turbo, Pulse 600i Turbo, Pure 600i Turbo 1998... Crossblade 600i 2002... Fortwo City Coupe 600i Turbo 2004...	3	63.50	27.00 - -2.75 43.50 MØ=50.00 	16.00 48.00	9720 000 1.200D Cr 1.500K P 2.500VF Cr	2720 000 63.50	4720 000		
					9720 025	2720 025 63.75	4720 025		
					9720 050	2720 050 64.00	4720 050		
Benzin Engine 0.7L (37 kW), Charge Intercooling 6 Valves, 9:1 698 cm ³ 37 - 45 kW (50 - 61 PS) Vehicle City Cabrio 700i Turbo, Roadster 700i 2003... Fortwo City Cabrio 700i 2004... Fortwo City Coupe 700i 2000...	3	66.50	25.20 -3.30 - 41.70 	16.00 52.00	9698 000 1.200D NtSt 1.200K NtSt 2.500VF Nt	2698 000 66.50	4698 000		
					9698 025	2698 025 66.75	4698 025		
					9698 050	2698 050 67.00	4698 050		
Diesel Engine OM 636.914/915/916/917/918/919/930 /931/934 1767 cm ³ 23.5/25/31.5 kW (32/34/43 PS) Vehicle 170, 180, L 319, O 319, L 405 , L 406 1951..1961 Unimog 411,110,-118, -119, -120, U 30, U 32, U 34 1951...1961	4	75.00					5637 000 K=79.00 L=189.00 SF 		
							5636 000 K=78.00 L=189.00 H+F=4.00 D=81.00 SF 		

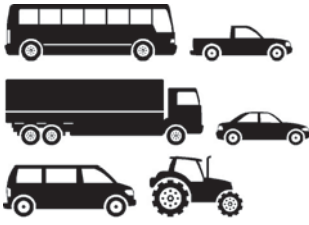
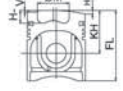
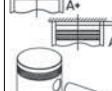
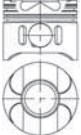
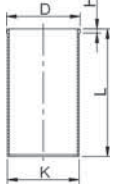
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 615.940/943/944 1988 cm ³ 44 kW (60 PS) Vehicle 200 D,206 D,207 D,306 D 02/79...1085 Diesel Engine OM 615.963 1988 cm ³ Vehicle MB 120 (E)	4	87.00	52.90 -1.20 -8.85 91.40	26.00 72.00	9653 000 2.000D IF CrP 2.000K IF P 4.000DY CrP	1653 000 87.00 AP Pist. Ç k nt s +0.65 / +1.05	3653 000	5630 000 K=90.06 L=158.40 H+F=4.70 D=91.92 SF 	S
	4							5630 050 K=90.50 L=158.40 H+F=5.00 D=92.40 SF	
					9653 050	1653 050 87.50	3653 050	5630 100 K=91.06 L=158.40 H+F=6.00 D=92.92 SF	
					9653 100	1653 100 88.00	3653 100		
Diesel Engine OM 615.940/943/944 1988 cm ³ 40.5 kW (55 PS) Vehicle 200 D,206 D,207 D,306 D, 307 D 1971...1979	4	87.00	52.90 -1.00 -8.85 91.40	26.00 72.00	9630 000 3.000D IW MoP 2.000K IF P 4.000DY CrP	1630 000 87.00 AP	3630 000	5630 000 K=90.06 L=158.40 H+F=4.70 D=91.92 SF 	S
								5630 050 K=90.50 L=158.40 H+F=5.00 D=92.40 SF	
								5630 100 K=91.06 L=158.40 H+F=6.00 D=92.92 SF	
					9630 050	1630 050 87.50	3630 050		
					9630 100	1630 100 88.00	3630 100		

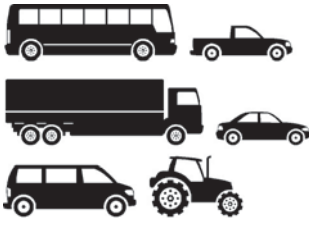
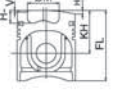
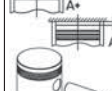
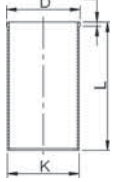
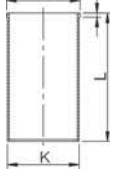
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 601,911/912/913 1997 cm ³ 55 kW (75 PS) Vehicle 190 D,200 D,200 TD 06/1984...1993 C 200 D, E 200 D 1993... Diesel Engine OM 602,911/912/930/931/938/939 2497 cm ³ 69 kW (94 PS) Vehicle 190 D 2,5 250 D, 310 D,410 D 1991... Diesel Engine OM 603, 912/913/931 2996 cm ³ Vehicle 300 GD 1991...	4	87.00	44.85 -1.05 / -1.25 -9.05 74.85	26.00 55.00	9921 000 2.000 D IF CrP 2.000 K IF P 3.000 DY CrP	2921 000 87.00 AP Pist. Ç k nt s +0.735 / +0.965	4921 000	5632 000 K=90.08 L=148.40 H+F=4.70 D=92.55 SF 	S
	5								
	6								
					9921 050	2921 050 87.50	4921 050	5632 050 K=90.50 L=148.40 H+F=5.00 D=93.00 SF	
					9921 100	2921 100 88.00	4921 100	5632 100 K=91.05 L=148.40 H+F=6.00 D=93.50 SF	

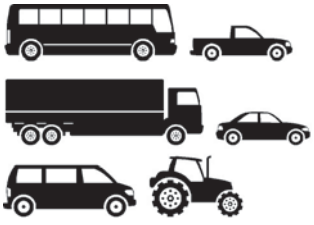
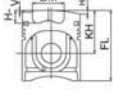
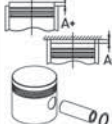
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Diesel Engine OM 602 A 911-993 2874 cm³ 90 - 93 kW (122 - 126 PS) Vehicle 190 D 2,5, 190 D 2,5 (USA) 06/1984...1995 250 D Turbo 250 D (USA) 1985...1995 E 250 TD 1993...1995 Diesel Engine OM 602 A 692 2496 cm³ 93 kW (126 PS) Vehicle 250 D Turbo 1985...1995 E 250 TD 1993...1995 Diesel Engine OM 602 A 961 2494 cm³ 93 kW (122 PS) Vehicle 190 D 2,5 06/1984...1995 Diesel Engine OM 602 A 950,953 2594 cm³ 105 - 108 kW (143 - 147 PS) Vehicle 300 D, 300 TD 1988... E300 TD 1993...1995 Diesel Engine OM 602 A 961 2996 cm³ 105 - 110.5 kW (142.3 - 150 PS) Vehicle 300 D Turbo 1985...1995 300 SD Turbo	5	87.00		44.85 -1.05/-1.25 -9.01 74.85	28.00 70.00	9608 000 2.500D Mo 2.000K IF Mo 3.000DY C	1606 000 87.00 AP YS HA Pist. Ç k nt s +0.73 / +0.96	3606 000	5632 000 K=90.08 L=148.40 H+F=4.70 D=92.55 SF 	S
	5								5632 050 K=90.50 L=148.40 H+F=5.00 D=93.00 SF	
	5								5632 100 K=91.05 L=148.40 H+F=6.00 D=93.50 SF	
	5					9608 050	1606 050 87.50	3606 050		
	5			44.85 -1.05/-1.25 -9.01 74.85	28.00 70.00	9608 000 2.500D Mo 2.000K IF Mo 3.000DY Cr	1608 000 87.00 AP YS	3608 000		
						9608 050	1608 050 87.50	3608 050		
	6					9608 070	1608 070 87.70	3608 070		

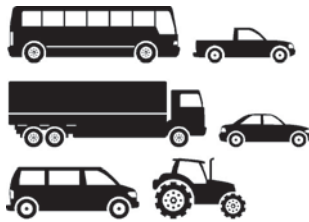
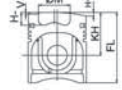
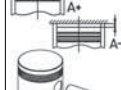
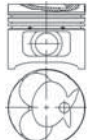


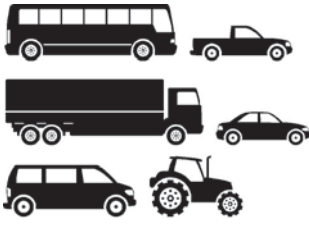
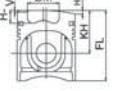
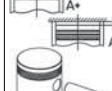
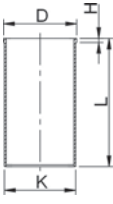
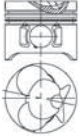
Diesel Engine OM605 910/911/912/917 22:1 2497 cm ³ 83 KW (113 PS) Vehicle C 250 D, E 250 D, E 250 TD 1993 - 1996 Diesel Engine OM606 910/912 22:1 2996 cm ³ 100 KW (136 PS) Vehicle E 300 D 1993 - 1996 Diesel Engine OM604 915/917 22:1 1997 cm ³ 83 KW (113 PS) Vehicle C 200 D 1996 - 1999	5	87.00	44.90 -2.41/-2.26 -5.92/+1.32 76.22	26.00 55.00	9608 000 2.500D Cr 2.000K IF 3.000DY Cr	2694 000 87.00 AP Pist. Ç k nt s +0.74 / +0.97	4694 000	5632 000 K=90.08 L=148.40 H+F=4.70 D=92.55 SF 	S
	6							5632 050 K=90.50 L=148.40 H+F=5.00 D=93.00 SF	
	4				9608 050	2694 050 87.50	4694 050	5632 100 K=91.05 L=148.40 H+F=6.00 D=93.50 SF	
Benzin Engine M 103 E 30 981, M 103 E 30 982 M 103 E 30 983, M 103 E 30 985 2962 cm ³ 126 - 140 kW (170 - 190 PS) Vehicle 300 SE, 300 SL, 300 E 12/1984...1986	6	88.50	33.00 - -2.70 66.00	22.00 52.00	9646 000 1.500D IF 1.750TN P 3.000DY Cr	1646 000 88.50	3646 000		
			33.00 - 3.30 66.00		9646 050	1646 050 89.00	3646 050		
			33.00 - 3.60 66.00		9646 100	1646 100 89.50	3646 100		

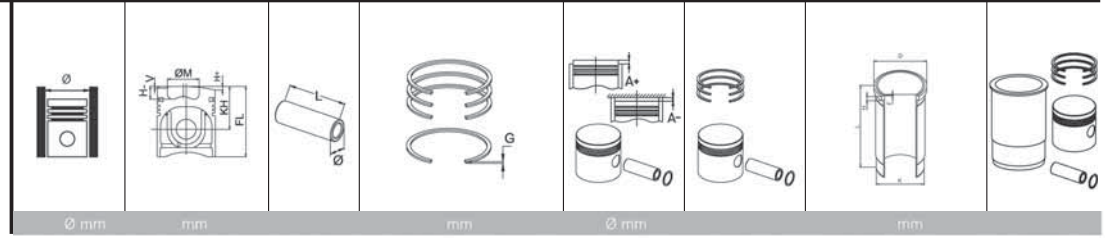
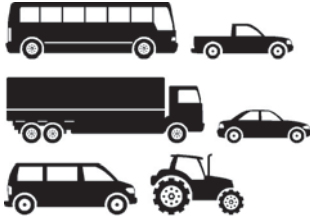
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 611 DE 22 LA 2151 cm ³ 85 - 115 kW (116 - 156 PS) Vehicle Sprinter CDI, C 220 CDI, V 200 CDI, V 220 CDI Vito CDI, C 200 CDI, E 220 CDI 1996...	4	88.00	42.33 -2.48 -13.90 72.30 MØ=43.70 	30.00 70.00	9718 000 2.500D IF CkP 2.000K IF P 3.000DY CrP	2718 000 88.00 AP YS Pist. Ç k nt s +0.38 / +0.62	4718 000	5606 000 K=91.00 L=147.00 H+F=5.00 D=93.00 SF 	S
					9718 050	2718 050 88.50	4718 050		
					9718 075	2718 075 88.75	4718 075		
					9718 100	2718 100 89.00	4718 100		
Diesel Engine OM 611.961 Turbo Intercooled 16 Valves, 18:1 2148 cm ³ 75-105 kW (102-143 PS) Vehicle E-Class (W210) E 200 CDI (210.007) E-Class (W210) E 220 CDI (210.006) E-Class Estate (S210) E 220 T CDI (210.206) 1998... E-Class (W210) E 200 CDI (210.007) E-Class (W210) E 220 CDI (210.006) E-Class Estate (S210) E 220 T CDI (210.206) 1999...	4	88.00	42.30 -2.10/-1.80 -13.30 68.30 MØ=43.10 	28.00 70.00	9718 000 2.500D IF CkP 2.000K IF P 3.000DY CrP	2696 000 88.00 AP YS Pist. Ç k nt s +0.38 / +0.62	4696 000	5606 000 K=91.00 L=147.00 H+F=5.00 D=93.00 SF 	S
	4				9718 050	2696 050 88.50	4696 050		
Diesel Engine OM 611.980 Euro 3 (OM 611 LA) Turbo Intercooled Common Rail 16 Valves, 18:1 2151 cm ³ 85-115 kW (116-156 PS) Vehicle V-Class (638/2) V 200 CDI (638.294) V-Class (638/2) V 220 CDI (638.294) Vito Box (638) 112 CDI 2.2 Vito Bus (638) 112 CDI 2.2 1999...									

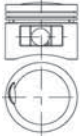
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 648.961 Turbo Intercooled 3222 cm ³ 130-150 kW (177-204 PS) Vehicle E-Class (W211) E 280 CDI (211.023) E-Class T-Model (S211) 2004... E-Class (W211) E 320 CDI (211.026) 2002... E-Class T-Model (S211) 2003... E 280 T CDI (211.223) E 320 T CDI (211.226)	6	88.00	42.30 -2.03/-1.78 -14.10 72.30 MØ=46.00	30.00 70.00	9718 000 2.500 D IF CkP 2.000 K IF P 3.000 DY CrP	2697 000 88.00 AP YS Pist. Ç k nt s +0.38 / +0.60	4697 000	5607 000 K=92.05 L=165.00 H+F=4.70 D=94.00 SF	S
					9718 050	2697 050 88.50	4697 050		
					9718 100	2697 100 89.00	4697 100		
Diesel Engine OM611 DE22 LA Euro 3 19:1 Turbo ,Intercool,Common Rail 2151 cm ³ 85-115 KW (143PS) Vehicle C200 CDI, C220 CDI, E200 CDI, E220 CDI, SPRINTER 213, SPRINTER 313, SPRINTER 413 CDI, V200 CDI, V220CDI, VITO CDI 1998...2003	4	88.00	42.30 -1.90/-2.20 -13.80 72.30 MØ=43.50	30.00 70.00	9718 000 2.500 D IF CkP 2.000 K IF P 3.000 DY CrP	2699 000 88.00 AP YS Pist. Ç k nt s +0.38 / +0.62	4699 000	5606 000 K=91.00 L=147.00 H+F=5.00 D=93.00 SF	S
	5				9718 050	2699 050 88.50	4699 050		
	6								
Diesel Engine OM 613 Euro 3 18:1 Turbo ,Intercool,Common Rail 3226 cm ³ 145 KW (197 PS) Vehicle E320 CDI, S320 1999...2005									

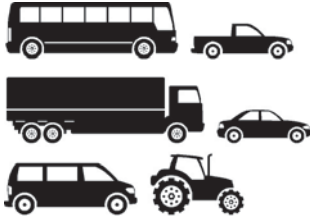
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 646 986 (65-80-95-110) kW (88-109-129-150) PS Vehicle Sprinter 209 CDI / 211 CDI / 213 CDI 215 CDI / 309 CDI / 311 CDI / 313 CDI 315 CDI / 411 CDI / 415 CDI / 509 CDI 511 CDI / 515 CDI 2007...	4	88.00	42.40 -1.78/-2.03 -14.1 72.30 MØ=46.00	30.00 70.00	9718 050	2692 000 88.00 AP YS	4692 000		
					9718 050	2692 050 88.50	4692 050		
Benzin Engine M 102 V 20, 920/921/961 1997 cm ³ 66 - 80 kW (90 - 100 PS) Vehicle 190, 200 1980...1983 Benzin Engine M 102 E 20 1997 cm ³ 90 kW (122 PS) Vehicle 190 E, 200 T 1982/12...1983	4	89.00	43.20 -1.00 / -2.30 - 83.20	24.00 62.00	9652 000 1.750 D IF CrP 2.000 TN P 3.500 DY CrP	1652 000 89.00	3652 000	5634 000 K=92.00 L=165.00 H+F=4.10 D=94.95 SF	S
	4				9652 050	1652 050 89.50	3652 050		
					9652 100	1652 100 90.00	3652 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine M 102 V 20.921/924 1997 cm³ 66 - 75 - 77 kW (90 - 102 - 105 PS) Vehicle 190 01/1984...	4	89.00	43.20 -1.72 / -2.24 - 79.70 	22.00 56.00	9652 000 1.750D IF CrP 2.000TN P 3.500DY CrP	1651 000 89.00	3651 000	5634 000 K=92.00 L=165.00 H+F=4.10 D=94.95 SF 	S
Benzin Engine M 102 V 20.920/922/964 1997 cm³ 80 kW (109 PS) Vehicle 200 01/1984...	4								
Benzin Engine M 102 E20.961/962/963 1997 cm³ 90 kW (122 PS) Vehicle 190 E, 200 E 01/1984...	4		42.90 -1.42 / -1.94 -1.60 79.40 MØ=49.50 		9652 050 9652 100	1651 050 89.50 1651 100 90.00	3651 050 3651 100		
Benzin Engine M102 E 20.961/962/963 1997 cm³ 87 kW (118 PS) Vehicle 190 E, 200 E 01/1984...	4								
Diesel Engine OM 601.940/941/9427943 2299 cm³ 58 - 60 kW (79 - 82 PS) Vehicle 208, 308, 408, 508 1990...1994	4	89.00	44.65 -1.05 / -1.25 -9.05 74.65 	26.00 62.00	9617 000 2.500D IF MoP 2.000K IF P 3.000DY CrP	1617 000 89.00 AP Pist. Ç k nt s 1.80 mm Conta ile +0.84 / +1.06 2.00 mm Conta ile +1.03 / +1.06	3617 000	5645 000 K=91.50 L=156.00 H+F=4.75 D=94.05 SF 	S
Diesel Engine OM 602.900/940/942/946/947/991 2874 cm³ 70 - 72 kW (95 - 98 PS) Vehicle 210, 310, 410, 290 GD Unimog 90/110/140 1990...	5							5745 000 K=91.50 L=156.00 H+F=4.75 D=96.50 SF	S
					9617 050	1617 050 89.50	3617 050		
					9617 070	1617 070 89.70	3617 070		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine OM 602 DE 29 LA 984-985 Euro 2 2874 cm ³ 90 kW (122 PS) Vehicle Vario 512 D, Vario 612 D, Vario 614 D 1996... Vario 812 D Vario 814 D Diesel Engine OM 602 DE 29 LA 983 Euro 2 2874 cm ³ 90 kW (122 PS) Vehicle 290 GD 1993... Diesel Engine OM 602 DE 29 LA 980 Euro 2 2874 cm ³ 90 kW (122 PS) Vehicle Sprinter 212 D, Sprinter 312 D, Sprinter 412 D 1996... Diesel Engine OM 602 DE 29 LA 982 Euro 2 2874 cm ³ 95 kW (129 PS) Vehicle E 290 TD 1995...	5	89.00	44.75 -0.30/-0.60 -16.73 71.25 MØ=42.00	28.00 70.00	9617 000 2.500D IF MoP 2.000K IF P 3.000DY CrP	1609 000 89.00 AP YS Pist. Ç k nt s +0.83 / +1.06	3609 000	5645 000 K=91.50 L=156.00 H+F=4.75 D=94.05 SF	S
	5								
	5				9617 050	1609 050 89.50	3609 050	5745 000 K=91.50 L=156.00 H+F=4.75 D=96.50 SF	S
Diesel Engine OM 601D 23A.970 22:1 Turbo 2299 cm ³ 72 Kw (98 PS) Vehicle VITO 108D, VITO 110D 1996...1999 Diesel Engine OM 603D 35A.970-972 22:1 Turbo 3449 cm ³ 100 Kw (136 PS) Vehicle 350GD, 350S 1992...1997	4	89.00	44.65 -1.05/-1.25 9.05 74.65	28.00 70.00	9617 000 2.500D IF MoP 2.000K IF P 3.000DY CrP	2695 000 89.00 AP YS HA Pist. Ç k nt s 1.74 mm Conta ile +0.83 / +1.06 1.97 mm Conta ile +1.03 / +1.26	4695 000	5645 000 K=91.50 L=156.00 H+F=4.75 D=94.05 SF	S
	6								
					9617 050	2695 050 89.50	4695 050	5745 000 K=91.50 L=156.00 H+F=4.75 D=96.50 SF	S
					9617 100	2695 100 90.00	4695 100		

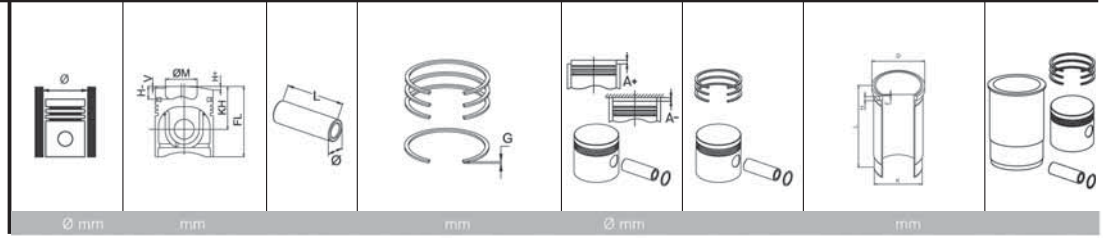
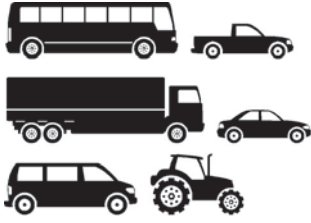


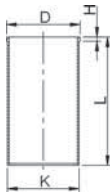
Diesel Engine OM 604 D22 910/912/915/917 22:1 2155 cm ³ 70 Kw (95 PS) Vehicle C220 D, E220 D 1993...	4	89.00	43.55 -2.36/-2.21 -4.55 73.55 MØ=19.00 	26.00 55.00	9617 000 2.500 D IF MoP 2.000 K IF P 3.000 DY CrP	2693 000 89.00 AP YS Pist. Ç k nt s +0.73 / +0.97	4693 000	5645 000 K=91.50 L=156.00 H+F=4.75 D=94.05 SF 	S
					9617 050	2693 050 89.50	4693 050	5745 000 K=91.50 L=156.00 H+F=4.75 D=96.50 SF	S
					9617 100	2693 100 90.00	4693 100		
Benzin Engine M102 E20.962/963/965 1997 cm ³ 80-87 kW (108-118 PS) Vehicle 190E, 200E, 200GE 1984-1993 Benzin Engine M102 V20 1997 cm ³ 77kW (105 PS) Vehicle 190, 200 1989-1990	4	89.00	42.38 -2.53 +3.85 74.40 	22.00 56.00	9617 100	2691 000 89.00	4691 000		
					9617 100	2691 050 89.50	4691 050		
					9617 100	2691 100 90.00	4691 100		

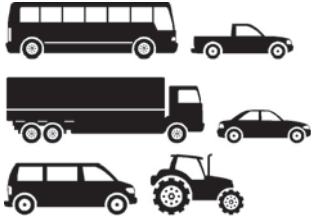


Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Benzin Engine M 104 E 32 980, M 104 E 32 981 M 104 E 32 990, M 104 E 32 994 3199 cm ³ 170 kW (231 PS) Vehicle 320 SL, 300 SE 1991...1993 S320 1994...09/1998 Benzin Engine M 104 E 32 981, M 104 E 32 992 3199 cm ³ 162 kW (220 PS) Vehicle SSANGYONG Musso 1994... 300 SE 1991...1992 320 E 09/1992...06/1993 E 320 1993...06/1998 SSANGYONG Musso 01/1996... SSANGYONG Korando 01/1996... SSANGYONG Chariman 10/1997... SSANGYONG Rexton RX 320 09/2002...	6	89.90	31.10 - -1.20 54.60 MØ=74.50 	22.00 56.00	9647 000 1.500D IF 1.750TN 3.000DY	1647 000 89.91	3647 000	
	6		30.80 - -1.20 54.60 MØ=74.50 		9647 025 9647 050	1647 025 90.16 1647 050 90.41	3647 025 3647 050	
Benzin Engine M111 E20.940/941/942 1996 cm ³ 95-100 kW (129-136 PS) Vehicle 200 CE, 200E, 200TE, C200, E200 1993...	4	89.91	31.65 -1.4/-1.9 - 55.15 	22.00 56.00	9647 050 9647 050 9647 050	2690 000 89.91 2690 050 90.41 2690 100 90.91	4690 000 4690 050 4690 100	



Diesel Engine OM 616.910/912/913/918/930/939/940/ 962/963 2399 cm³ 38 - 48 - 53 kW (52 - 65 - 72 PS)	4	90.90	48.35 -1.15 -8.85 81.85	26.00 74.00	9633 000 3.000D IW MoP 2.000D IW P 4.000DY CrP	1633 000 90.90 AP Pist. Ç k nt s +0.50 / +0.90	3633 000	5633 000 K=94.06 L=158.40 H+F=4.70 D=96.00 SF 	S
Vehicle 240 D, 207 D, 307 D, 407 D 507 D, O 309 D, U 600/L U 6000 1978... 100 D 1990... MB 100 1987...									
Diesel Engine OM 617.912/913/919/931/932 2998 cm³ 64.5 - 66 kW (88 - 90 PS)	5							5633 050 K=94.50 L=158.40 H+F=6.00 D=96.50 SF	
Vehicle 209 D, 309 D, 409 D, 300 D (USA) 1979...1985					9633 025	1633 025 91.25	3633 025		
					9633 050	1633 050 91.50	3633 050		
					9633 070	1633 070 91.70	3633 070		
					9633 100	1633 100 91.90	3633 100		



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Benzin Engine

M 105 E 23 945/946/980..982/987
2299 cm³
92 - 100 kW (125 - 136 PS)

Vehicle

190 E 2.3 1986...1988
230 E 1982...1984

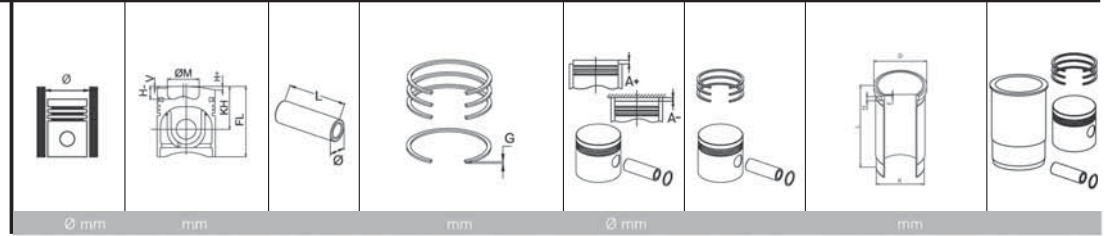
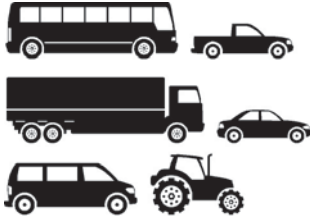
Benzin Engine

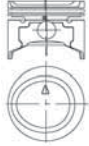
M 102. E23. 981/987
2299 cm³
89.5 - 92 kW (122 - 125 PS)

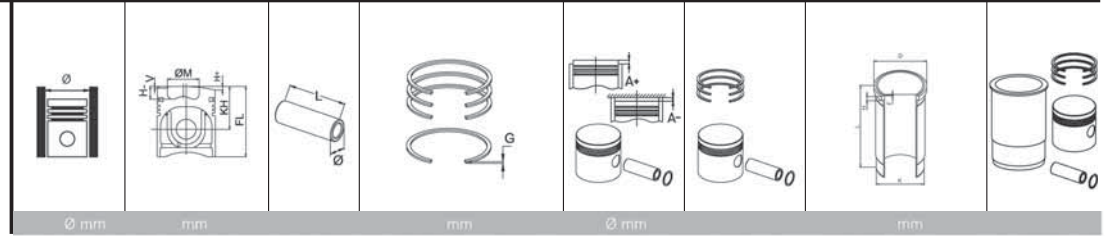
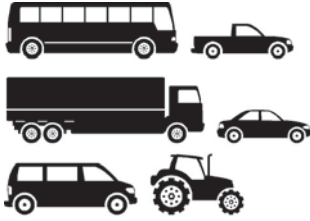
Vehicle

230 GE 1986...1993

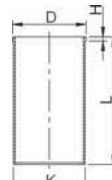
4	95.50	43.20 -1.75/-3.46 -1.85 78.70 MØ=70.00	22.00 56.00	9635 000 1.750 D IF CrP 2.000TN P 3.500DY CrP	1636 000 95.50	3636 000	5629 000 K=98.50 L=148.00 H+F=4.70 D=100.30 SF 	S
4							5629 100 K=99.50 L=148.00 H+F=5.95 D=100.54 SF	
		42.90 -1.45/-3.16 -2.90 78.40 MØ=70.00		9635 050	1636 050 96.00	3636 050		
		42.90 -1.45/-3.16 -3.10 78.40 MØ=70.00		9635 100	1636 100 96.50	3636 100		S

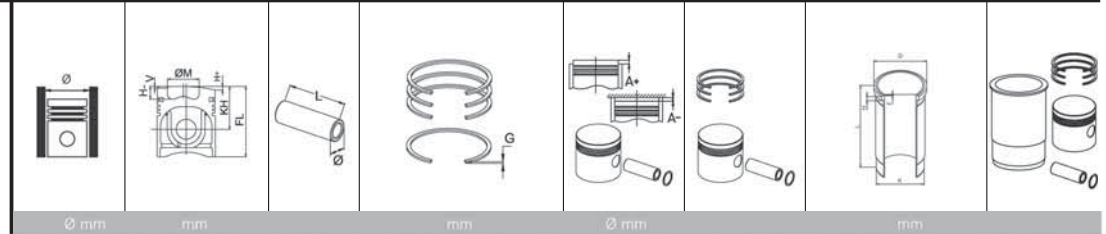
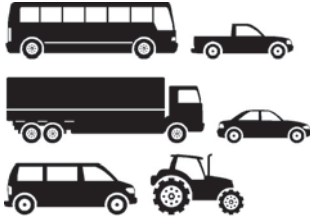


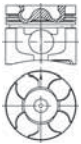
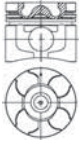
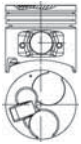
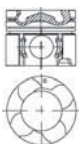
Benzin Engine		4	75.50	29.10 - -3.60 58.30	18.00 60.00	9664 000 1.500 1.500 4.000	2007 000 75.50	4007 000		
Vehicle G15B-II										
						9664 050	2007 050 76.00	4007 050		
Diesel Engine		4	80.00	47.10 -0.75 -17.70 77.00 MØ=38.00	28.00 60.00	9165 000 2.500D IF Mo 2.000K IFU 3.000DY Cr	2165 000 80.00 AP Pist. Ç k nt s +0.86 / +1.00	4165 000		
F9Q Turbo, Intercooler 18:3:1 74kW (100 PS) Vehicle CArisma 1.9 GDI										
						9165 025	2165 025 80.25	4165 025		
						9165 050	2165 050 80.50	4165 050		
Diesel Engine		4	81.01	45.80 - -17.80 68.80 MØ=38.00	26.00 66.00 PDB	9298 000 1.750D CkP 2.000K IFU P 3.000DY CrP	2298 000 81.01 AP YS	4298 000		
BKD 1968 cm³ 103 kW (146 PS) Vehicle LANCER VIII 2.0 DI-D LANCER VIII DI-D										
						9298 050	2298 050 81.51	4298 050		
				45.80 - -17.80 68.80 MØ=38.00						

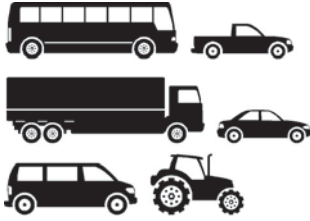


Diesel Engine 4 D 56 54 kW (72 PS) Vehicle L 300, Galant A 167, Galant Sappore	4	91.10		29.00 75.00	9661 000 2.500D MoP 2.000D CrP 4.000DY CrP	1661 000 91.10 Pist. Ç k nt s +065 / +0.90	3661 000	5661 000 K=94.18 L=165.00 SF 	S	
								5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	S	
								9661 010	1661 010 91.35	3661 010
								9661 020	1661 020 91.60	3661 020
					9661 030	1661 030 91.85	3661 030			

Diesel Engine 4 D 56 54 kW (72 PS) Vehicle L 300 1998...	4	91.10		29.00 75.00	9661 000 2.500D MoP 2.000D CrP 4.000DY CrP	1664 000 91.10 Pist. Ç k nt s +0.55 / +0.65	3664 000	5661 000 K=94.18 L=165.00 SF 	S	
								5664 000 K=94.15 L=165.00 H+F=5.00 D=96.00 SF 	S	
								9661 050	1664 050 91.60	3664 050

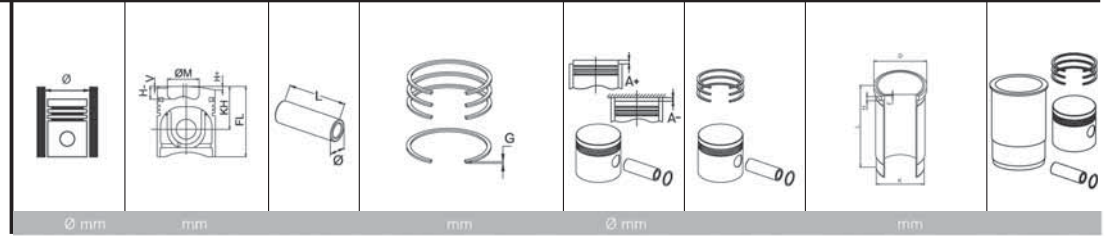
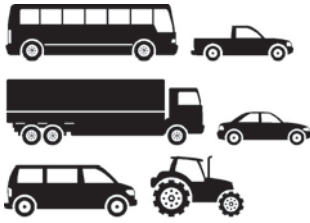


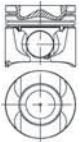
Diesel Engine 4D56 TDI Euro 4 Common Rail 1-3 Cyl. 2477 cm ³ 85 - 100 - 123 kW (115 - 136 - 167 PS) Vehicle L200 DI-D 2006...	4	91.10	48.25 -2.00/-2.50 -18.90 78.25 MØ=44.00 	32.00 75.00	9660 000 2.500TT NtSt 2.000TTK CrP 4.000DY NtSt 9660 050	2370 000 91.10 AP YS HA 2370 050 91.60	4370 000 4370 050		
Diesel Engine 4D56 TDI Euro 4 Common Rail 2-4 Cyl. 2477 cm ³ 85 - 100 - 123 kW (115 - 136 - 167 PS) Vehicle L200 DI-D 2006...	4	91.10	48.25 -2.00/-2.50 -18.90 78.25 MØ=44.00 	32.00 75.00	9660 000 2.500TT NtSt 2.000TTK CrP 4.000DY NtSt 9660 050	2371 000 91.10 AP YS HA 2371 050 91.60	4371 000 4371 050		
Diesel Engine 4M40-0A Euro 1 2835 cm ³ 69 kW (94 PS) Vehicle Fuso Kanter FE511 2006... Fuso Kanter FE711 2006...	4	95.00	51.70 -0.40/-1.35 -1.20 91.70 	30.00 77.90	9666 000 2.500T CrP 2.000K IW CrP 4.000DY CrP 9666 050	2372 000 95.00 AP HA Pist. Ç k nt s +0.50 / +0.75 2372 050 95.50	4372 000 4372 050		
Diesel Engine 4M42 2977 cm ³ Vehicle Fuso Canter 3.0 TD 2005... Fuso Canter 3.0 TDI 16 V 2005... Fuso Canter 3S11 2005... Fuso Canter 3C11 2005...	4	95.00	51.00 - -17.00 77.00 MØ=55.50 	32.00 80.00	9027 000 2.500T StNt 2.000K IW Cr 3.000DY StNt 9027 050 9027 100	2373 000 95.00 AP YS 2373 050 95.50 2373 100 96.00	4373 000 4373 050 4373 100		

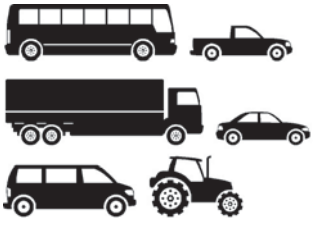
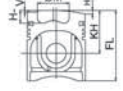
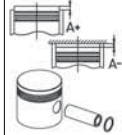
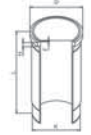
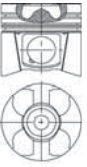
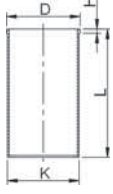


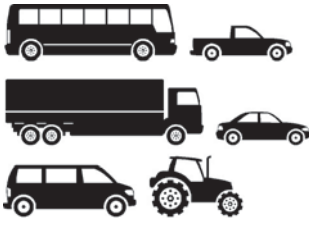
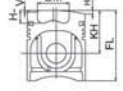
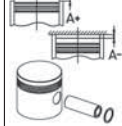
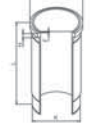
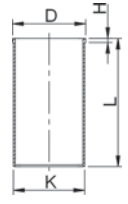
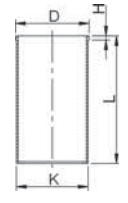
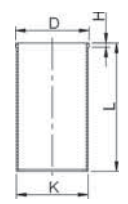
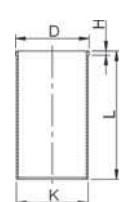
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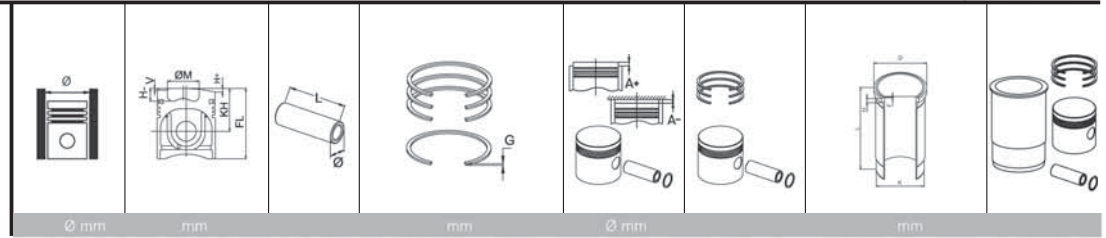
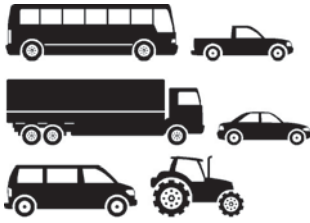
Benzin Engine GA15DS 1497 cm ³ Vehicle GAIS	4	73.60	29.50 - -4.80 51.90 MØ=64,00 	19.00 49.00	9566 000 1.500D Cr 1.500K CrP 2.800VF	2566 000 73.60	4566 000	
					9566 050	2566 050 74.10	4566 050	
Diesel Engine F9Q 800 1870 cm ³ 88 kW (120 PS) Vehicle Primera 1.9 dCi 01.2003...	4	80.01	47.04 -0.75 -17.80 77.00 MØ=38.00 	28.00 60.00	9165 000 2.500D IF Cr 2.000K IFU 3.000DY Cr	2183 000 80.010 AP YS	4183 000	
					9165 050	2183 050 80.51	4183 050	
Diesel Engine SD 20 1991 cm ³ 44 kW (60 PS) Vehicle Cedric 200, Laurel 200 Diesel Engine SD 22 2164 cm ³ 48 - 51.4 kW (65 - 70 PS) Vehicle Datsum Cedric220 Diesel Engine SD 30 2987 3246 cm ³ 70 kW (96 PS) Vehicle 340 C Patrol 1973...1983	4	83.00					5790 000 K=87.05 L=176.00 H+F=5.00 D=93.00 SF 	
	4							
	6						5790 100 K=88.05 L=176.00 H+F=6.00 D=94.00 SF	



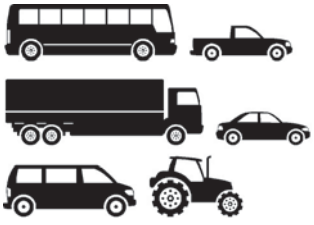
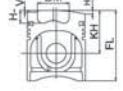
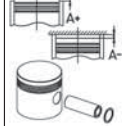
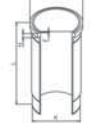
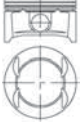
Diesel Engine M9R 780 Euro4 2000 cm³ 66 - 84 kW (90 - 114 PS) Vehicle Primastar 2.0 dCi 16V 09.2006...	4	84.00	47.916 - -14.90 76.00 MØ=49.07 	32.00 65.00	9171 000 2.500TT 2.000TN 2.000DY Cr P CrSt	2182 000 84.00 AP YS	4182 000	
Diesel Engine M9R 782 2000 cm³ 66 kW (90 PS) Vehicle Primastar 2.0 dCi 16V 09.2006...	4				9171 050	2182 050 84.50	4182 050	
Diesel Engine LD 20 1938 cm³ 43 kW (58PS) Vehicle Bluebird, Laurel, Trade, Vanette 1981...1987	4	85.00					5791 000 K=90.00 L= 150.00 H+F=4.50 D=92.00 SF 	
							5792 000 K=88.50 L= 150.00 H+F=4.50 D=90.50 SF	
Diesel Engine LD 23 2283 cm³ 55 kW (75 PS) Vehicle Cargo, Trade, Serena, Vanette 1995...	4 4	87.00	47.23 -1.18/-1.23 -2.28 76.21 	26.00 63.70	9567 000 2.000D IW 2.000TN 3.000DY CrP CrP CrP	2567 000 87.00 AP Pist. Ç k nt s 1.25 mm Conta ile +0.60 / +0.65 1.30 mm Conta ile +0.65 / +0.70 1.35 mm Conta ile +0.60 / +0.65 1.30 mm Conta ile		

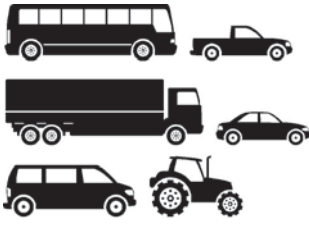
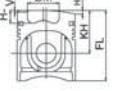
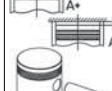
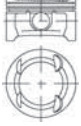
									
		Ø mm	mm		mm	Ø mm		mm	
Diesel Engine G9U 720 4V Euro 3 2463 cm ³ 73-84 kW (99-115 PS) Vehicle Interstar 2.5 dCi 16V 07,2002...	4	89.00	53.03 -1.65/-1.90 -17.85 83.09 MØ=43,20 	31.00 65.00	9159 000 2.500D IF MoP 1.750K IFU P 2.500DY CrP	2159 000 89.00 AP Pist. Ç k nt s +0.50 / +0.60	4159 000		
					9159 050	2159 050 89.50	4159 050		
Diesel Engine YD25 DDTI / TCID22 2488 cm ³ 95 kW (129 PS) Vehicle P ckup Skyster, Navara 1998...	4	89.00	48.82 -1.28/-0.82 -18.10 80.00 MØ=43.00 	28.00 61.00	9568 000 2.000TT MoP 2.000K IW CrP 3.000DY CrP	2568 000 89.00 AP YS Pist. Ç k nt s 1.Çentik Conta ile +0.25 / +0.28	4568 000	5689 000 K=91.50 L=166.00 H+F=5.10 D=92.40 SF 	S
					9568 050	2568 050 89.50	4568 050		
Diesel Engine TD 2.5 2494 cm ³ 56 kW (75 PS) Vehicle Midibus17/1,Levend 2.5 MD,Nofork Cubstar 1985...1992	4	92.90						5795 000 K=96.05 L=160.00 H+F=5.07 D=102.00 SF 	
								5795 050 K=96.50 L=160.00 H+F=5.07 D=102.00 SF	
								5795 100 K=97.05 L=160.00 H+F=6.05 D=103.00 SF	

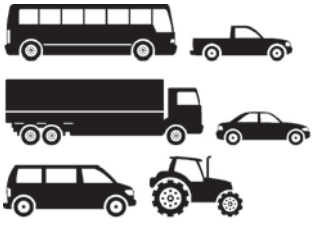
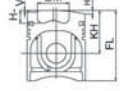
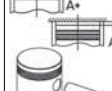
										
			Ø mm	mm	mm	Ø mm	mm	mm	mm	mm
Diesel Engine A 4.28/M24 2820 cm ³ 56 kW (76PS) Vehicle Ebro, Patrol, Trade Einbaumotor 1981...1989			4	94.00						5793 000 K=97.65 L=190.20 H+F=7.00+1.00 D=103.50 SF 
Diesel Engine BD 30 TI Turbocharged 2956 cm ³ Vehicle Intercooler 2001...				96.00	53.10 -0.30/-0.50 -20.40 89.50 MØ=45.20 	30.00 80.00	9570 000 2.500TT CrP 2.000K IW CrP 3.000DY CrP	2570 000 96.00 AP	4570 000	5797 000 K=99.05 L=172.50 H+F=5.00 D=105.00 SF 
Diesel Engine BD 30 TI 2956 cm ³ Vehicle Intercooler				96.00	53.10 -0.15/-0.50 -21.20 89.50 MØ=47.00 	30.00 80.00	9570 000 2.500TT CrP 2.000K IW CrP 3.000DY CrP	2571 000 96.00 AP YS	4571 000	5797 000 K=99.05 L=172.50 H+F=5.00 D=105.00 SF 
Diesel Engine TD 27 AD-2 2700 cm ³ 95 kW (129 PS) Vehicle Urban, Pick-Up			4	96.00	50.25 - -0.47 86.00 	30.00 74.00	9569 000 2.500D CrP 2.000K IW CrP 3.000DY CrP	2569 000 96.00 AP Pist. Ç k nt s 1.Çentik Conta ile +0.16 / +0.21 2.Çentik Conta ile +0.21 / +0.26	4569 000	5796 000 K=99.00 L=160.00 H+F=5.00 D=105.00 SF 
							9569 050	2569 050 96.50	4569 050	

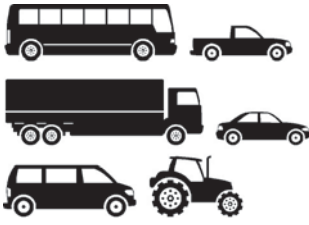
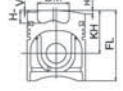
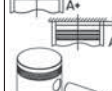
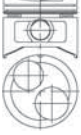


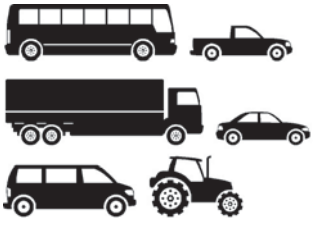
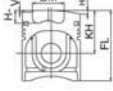
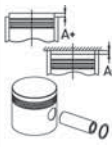
Diesel Engine Y 13 DT, Z 13 DT Turbo Comman Rail, 16 Valves 1248 cm ³ 51-55 kW (69-75 PS) Vehicle Corsa 1.3 CDTI, Combo 1.3 CDTI, Tigra B 1.3 CDTI, Meriva 1.3 CDTI, Agila 1.3 CDTI 2003...	4	69.60	40.43 -1.00 -12.40 63.43 MØ=37.00 	23.00 57.00	9282 000 2.000D 1.500K 2.000DY Cr P NtSt	2282 000 69.60 AP Pist. Ç k nt s 0.67 / 0.77 mm Conta ile +0.02 / +0.13 0.77 / 0.87 mm Conta ile +0.13 / +0.23 0.87 / 0.97 mm Conta ile +0.23 / +0.33	4282 000	5451 000 K=72.10 L=142.00 H+F=5.00 D=73.60 SF 	S
Diesel Engine 199A3000 Multijet 1248 cm ³ 66 kW (90 PS) Vehicle Astra 1.3 CDTI 2005...	4	69.60	40.43 -0.90 / -1.15 -12.40 63.43 MØ=38.00 	23.00 56.70	9282 000 2.000D 1.500K 2.000DY Cr P NtSt	2289 000 69.60 AP YS	4289 000	5451 000 K=72.10 L=142.00 H+F=5.00 D=73.60 SF 	S
Benzin Engine 12 NZ 8 Valves, 9:1 1195 cm ³ 33 kW (45 PS) Vehicle Combo 1.2i 2000...2001 Corsa B 1.2i 1994...2000	4	72.00	32.05 - -4.10 58.05 	18.00 55.00	9812 000 1.500D 1.500K 3.000VF CrP P CrP	2212 000 72.00	4212 000		
Benzin Engine C 12 NZ 8 Valves, 9.1:1 1196 cm ³ 33 kW (45 PS) Vehicle Combo 1.2i, Corsa B 1.2i 1994...2001 Corsa A 1.2i 1990...1994	4				9812 050 9812 100	2212 050 72.50 2212 100 73.00	4212 050 4212 100		

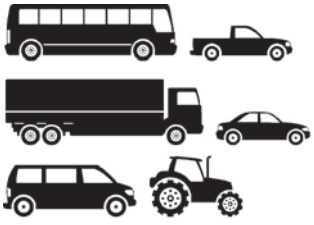
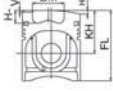
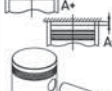
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine X 1.2 XE Katalitik Converter, 16 Valves 10.1:1 1199 cm ³ 44 - 48 kW (60 - 65 PS) Vehicle Agila, Astra, Corsa 1997...2003 Benzin Engine Z 1.2 XE Euro 4 Katalitik Converter, 16 Valves 10.1:1 1199 cm ³ 44 - 48 kW (60 - 65 PS) Vehicle Agila 1.2i, Astra G 1.2i, Corsa C 1.2i 1998...	4	72.50	24.00 -1.25 - 45.00	18.00 51.00	9223 000 1.200D NtSt 1.500K P 2.000VF CrP	2213 000 72.50	4213 000		
	4				9223 050	2213 050 73.00	4213 050		
Benzin Engine Z1,4XEP Euro 4 Katalizörlü, 10.5:1 1364 cm ³ 66 kW (90 PS) Vehicle Astra 1.4, Corsa 1.4, Meriva 1.4 2001...	4	73.40	23.00 -1.33/-1.35 -1.25 44.00 MØ=53.50	18.00 51.00	9222 000 1.200D NtSt 1.200TN P 2.000VF CrP	2214 000 73.40	4214 000		
					9222 050	2214 050 73.90	4214 050		
Benzin Engine Z 1.2 XEP 10.5:1, 16 Valves 1199 cm ³ 55 kW (75 PS) Vehicle Agila, Astra, Corsa 2004...	4	73.40	24.00 -1.46 / -1.49 -0.53 45.53	18.00 51.00	9222 000 1.200D NtSt 1.200TN P 2.000VF CrP	2222 000 73.40	4222 000		
					9222 050	2222 050 73.90	4222 050		

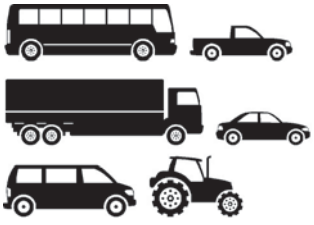
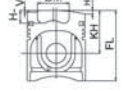
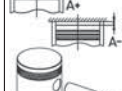
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine A14 XER 1364 cm ³ 74 kW (101 PS) Vehicle Adam 1.4 EcoFlex 01.2013... Astra J 1.4i 16V 11.2009... Corsa D 1.4i 16V, Meriva B 1.4i 16V 01.2010...	4	73.40	25.85 -3.60/-1.55 -1.60 46.80 MØ=52.50 	18.00 53.00	9222 000 1.200D NtSt 1.200TN P 2.000VF CrP	1913 000 73.40	3913 000		
					9222 050	1913 050 73.90	3913 050		
					9222 100	1913 100 74.40	3913 100		
Benzin Engine C 1.3 N, 1.3 S 1297 cm ³ 44 kW (60 PS) Vehicle Corsa, Kadett 1986...1990 Benzin Engine 1.3 S 1297 cm ³ 50 - 51.5 - 55 kW (68 - 70 - 75 PS) Vehicle Acona, Corsa, Kadett, Manta 1979...1990	4	75.00	35.80 -5.40 -3.60 62.40 MØ=63.00 	20.00 65.00	9801 000 1.500D IF CrP 1.500TN P 4.000DY CrP	1801 000 75.00	3801 000		
	4		35.50 -5.40 -3.60 62.10 MØ=63.00		9801 050	1801 050 75.50	3801 050		
			35.30 -5.40 -3.60 61.90 MØ=63.00		9801 075	1801 075 75.75	3801 075		
Diesel Engine 15 TD 22,5:1 Turbo charged 1487 cm ³ 49-53 kW (67-72 PS) Vehicle Corsa A 1.5 TD 03.1988 ... 08.1994 Corsa B 1.5 TD 09.1994 ... 08.2000 Kadett E 1.5 TD 09.1988 ... 08.1991 Astra Mk II 1.5 TD 01.1987 ... 08.1990 Corsa B 1.5 TD 09.1994 ... 08.2000 Nova 1.5 TD 01.1990 ... 08.1994	4	76.02	41.70 -0.35 -1.60 71.70 	25.00 60.00	9976 000 2.000D CrP 1.500K CrP 3.000DY Cr	2391 000 76.02 AP	4391 000		
					9976 050	2391 050 76.52	4391 050		
					9976 100	2391 100 77.02	4391 100		

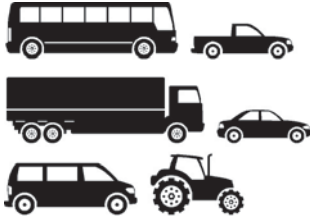
									
		Ø mm	mm		mm	Ø mm	Ø mm	mm	
Benzin Engine X 1.4 XE, NC, NE, NZ 1389 cm ³ 66 kW (90 PS) Vehicle Corsa, Tigra 1993..	4	77.60	32.05 - +1.00/-0.57 57.05	18.00 55.00	9808 000 1.500D IF CrP 1.500TN P 3.000DY CrP	1808 000 77.60	3808 000		
					9808 050	1808 050 78.10	3808 050		
					9808 100	1808 100 78.60	3808 100		
Benzin Engine 14 NV 1398 cm ³ 53-55 kW (72-75 PS) Vehicle Corsa A 01/1990...03/1993 Kaddet E 01/1990...08/1991 Benzin Engine 14 NVH 1389 cm ³ 55 kW (75 PS) Vehicle Vectra A 09/1993...01/1995 Benzin Engine C 14 NZ KAT 1389 cm ³ 44 kW (60 PS) Vehicle Astra F 09/1991...01/1999 Combo B 07/1994...04/1996 Corsa A 09/1991...03/1993 Corsa B 03/1993...10/1996 Kaddet E 01/1990...07/1994	4	77.60	32.05 - -3.30 52.50	18.00 55.00	9808 000 1.500D IF CrP 1.500TN P 3.000DY CrP	1819 000 77.60	3819 000		
					9808 050	1819 050 78.10	3819 050		
					9808 100	1819 100 78.60	3819 100		
Benzin Engine Z 1.4 XE, 10.46:1 1389 cm ³ 66 kW (90 PS) Vehicle Astra, Corsa 1999...09/2000	4	77.60	31.30 - -2.45 55.75	18.00 55.00	9230 000 1.200D NtSt 1.500K P 2.000VF CrP	2230 000 77.60	4230 000		
					9230 050	2230 050 78.10	4230 050		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 1.2 S /NV/ST 1196 cm ³ Vehicle Corsa 1.2, Kadet 1.2 Type D/E	4	77.80	35.80 -4.20 -4.40 65.00	20.00 65.00	9203 000 1.500D Cr 1.500K P 4.000VF CrP	2203 000 77.80	4203 000		
					9203 050 2203 050 78.30 4203 050				
					9203 100 2203 100 78.80 4203 100				
Benzin Engine C 1.6 NZ, X 16 SZ, X 16 SZR 1598 cm ³ 55 kW (75 PS) Vehicle Ascona ,Kadett 1986...1995 Astra A/B,Vectra A/B 06/1993...	4	79.00	28.00 - +0.40 /-2.70 48.40	18.00 55.00	9803 000 1.200D CrP 1.500TN P 3.000DY CrP	1803 000 79.00	3803 000		
					9803 050 1803 050 79.50 3803 050				
			27.70 - +0.40 /-2.70 48.10		9803 100 1803 100 80.00 3803 100				
Benzin Engine 1,6i Ecotec 1598 cm ³ Vehicle Astra Vectra 1995...	4	79.00	28.00 -2.07/-2.27 -0.80 48.00 MØ=60.00	18.00 55.00	9817 000 1.200D CrP 1.500TN P 2.500VF CrPSt	1817 000 79.00	3817 000		
					9817 050 1817 050 79.50 3817 050				
			27.70 -2.07/-2.27 -0.80 47.70 MØ=60,00						

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine TC 4 EE 1 1686 cm ³ 65 kW (88 PS) Vehicle Astra, Corsa, Vectra, Combo 1990... / 1992...	4	79.00	39.70 -1.20 -1.90 69.60	27.00 63.50	9419 000 2.000D Cr 1.500K P 3.000DY CrP	2419 000 79.00 AP	4419 000		
	4				9419 050 2419 050 79.50 4419 050				
					9419 100 2419 100 80.00 4419 100				
Diesel Engine Y 1.7 DT Turbo, Intercooler 18.4:1 1686 cm ³ 55 kW (75 PS) Vehicle Astra Van 1.7 DTi, Combo 1.7 DTi, Corsa Van 1.7 DTi 2002...2005	4	79.00	39.75 -1.10 -14.00 84.00 MØ=38.70	27.00 64.00	9419 000 2.000D Cr 1.500K P 3.000DY CrP	2210 000 79.00 AP Pist. Ç k nt s 1.45 mm Conta ile +0.63 / +0.70 1.50 mm Conta ile +0.70 / +0.76 1.55 mm Conta ile 0.76 / 0.83	4210 000		
Benzin Engine Y16 XE MPI, 10.5:1, 16 Valves 1598 cm ³ 74 kW (101 PS) Vehicle Vectra 1.6i 2000...	4	79.00	27.20 - 50.20	18.00 55.00	9817 000 1.200D CrP 1.500TN P 2.500VF CrPSt	2215 000 79.00	4215 000		
Benzin Engine Z16 XE MPI, 10.5:1, 16 Valves 1598 cm ³ 74 kW (101 PS) Vehicle Astra 1.6i, Meriva 1.6i, Vectra 1.6i, Zafira 1.6i 1999...	4								

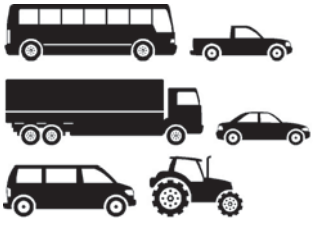
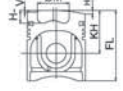
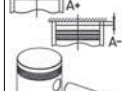
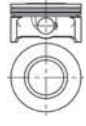
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine Z1,6 XEP Enjektörlü, Katalizörlü 10.5:1 1598 cm ³ 74 kW (101 PS) Vehicle Meriva 1.6, Astra Twinport 2003...	4	79.00	26.73 - - 48.73	18.00 52.00	9216 000 1.200D NtSt 1.200K P 2.000VF CrP	2216 000 79.00	4216 000		
					9216 050	2216 050 79.50	4216 050		
	4	79.00	38.00 -2.00 - 76.00	20.00 65.00	9813 000 2.000D Cr 2.000TN P 5.000SY P	2204 000 79.00	4204 000		
					9813 050	2204 050 79.50	4204 050		
Benzin Engine 12 S OHV 8 Valves, 9.1:1 1196 cm ³ 44 kW (60 PS) Vehicle Manta B 1.2, Ascona B 1.2 1975... Manta A 1.2, Ascona A 1.2 1972... Kadett C 1.2, Kadett D 1.2 1979... Corsa A 1.2 1986... Kadett E 1.2 1984...	4	79.00			9813 100	2204 100 80.00	4204 100		

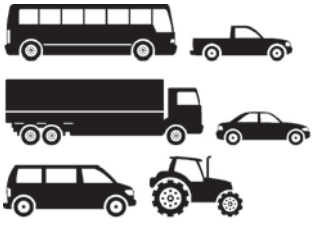
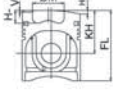
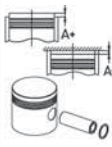
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine X 1.7 DT, Turbo, IC, 22:1 1700 cm ³ 60 kW (82 PS) Vehicle Astra, Combo, Vectra 1992...	4	79.00	39.70 -0.40 -1.20 79.80	25.00 60.00	9419 000 2.000D Cr 1.500K P 3.000DY CrP	2227 000 79.00 AP Pist. Ç k nt s STD Conta ile +0.58 / +0.64 1 Delik Conta ile +0.65 / +0.70 2 Delik Conta ile +0.70 / +0.78	4227 000		
			39.70 -0.40 -1.20 79.80		9419 050	2227 050 79.50	4227 050		
			39.70 -0.40 -1.20 79.80		9419 100	2227 100 80.00	4227 100		
Benzin Engine A16XER, 16 Valves, 10.8:1 1598 cm ³ 85 kW (116 PS) Vehicle Insignia 1.6i 16V, Astra J 1.6i 16V 2008...2009	4	79.00	26.80 - +1.25 48.75	19.00 46.00	9216 000 1.200D NtSt 1.200K P 2.000VF CrP	2231 000 79.00 HA	4231 000		
					9216 050	2231 050 79.50	4231 050		
Diesel Engine Z 17 DTH Charge Intercooling Common Rail 18.4:1 1686 cm ³ 74 kW (100 PS) Vehicle Astra H 1.7 CDTI 16V Corsa 1.7 CDTI 16V Combo 1.7 CDTI 16V Meriva A 1.7 CDTI 16V 03.2003...	4	79.00	39.75 -1.30/-1.20 -14.00 64.75 MØ=41.80	27.00 64.00	9822 000 2.000D StNt 1.500K CrP 3.000DY CrPSt	2233 000 79.00 AP YS	4233 000		
					9822 025	2233 025 79.25	4233 025		
					9822 050	2233 050 79.50	4233 050		

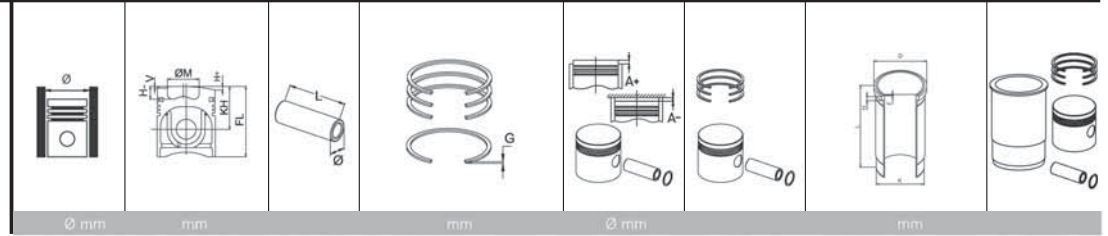
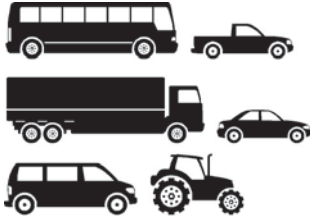


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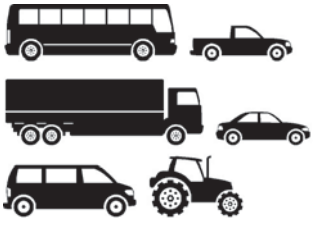
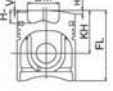
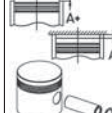
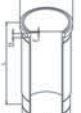
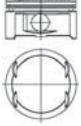
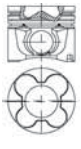
Benzin Engine A16 LET Euro 5 1598 cm ³ 132 kW (180 PS) Vehicle Astra H 1.6i Turbo 16v 02.2007...11.2010 Astra J 1.6i Turbo 16V 11.2009... Insignia 1.6i Turbo 16V 11.2008... Benzin Engine Z16 LET 1598 cm ³ 132 kW (179 PS) Vehicle Astra H 1.6i Turbo 16V, Meriva A 1.6i Turbo 16V 02.2006...	4	79.00	27.50 - +1.75 44.50 MØ=66.50 	19.00 53.00	9216 000 1.200D NtSt 1.200K P 2.000VF CrP	1912 000 79.00 HA	3912 000	
					9216 050	1912 050 79.50	3912 050	
Benzin Engine 1.6 N 1598 cm ³ 55 kW (75 PS) Vehicle Ascona 1981...	4	80.00	40.00 - -3.20 72.00 	23.00 70.00	9810 000 1.500D IF CrP 1.750K IF P 4.000DY CrP	1810 000 80.00	3810 000	5800 000 K=83.05 L=143.50 H+F=4.50 D=84.95 SF
			39.70 - -3.20 71.70		9810 050	1810 050 80.50	3810 050	
					9810 075	1810 075 80.75	3810 075	
					9810 100	1810 100 81.00	3810 100	
Diesel Engine 1.6 L DA 1598 cm ³ 40-40,5 kW (54-55 PS) Vehicle Kadett E ...1984 Ascona 1982...1989	4	80.00	44.95 - -1.50 76.95 	26.00 65.00	9800 000 2.000D MoP 2.000K IF P 3.000DY CrP	1800 000 80.00 AP HA Pist. Ç k nt s 1.30 mm Conta ile 0 / +0.75 1.40 mm Conta ile +0.75 / +0.85 1.50 mm Conta ile +0.85 / +1.05	3800 000	5800 000 K=83.05 L=143.50 H+F=4.50 D=84.95 SF
					9800 050	1800 050 80.50	3800 050	
					9800 100	1800 100 81.00	3800 100	

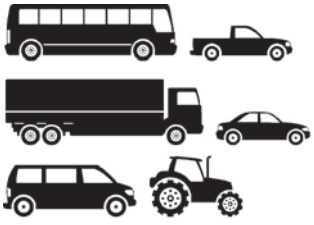
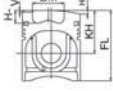
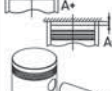
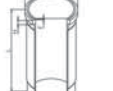
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine F9Q Turbo, Intercooler 18:3:1 74kW (100 PS) 1900 cm ³ Vehicle Vivaro 1.9 CDTI 8V	4	80.00	47.10 -0.75 -17.70 77.00 MØ=38.00 	28.00 60.00	9165 000 2.500D IF Mo 2.000K IFU Cr 3.000DY	2165 000 80.00 AP Pist. Ç k nt s +0.86 / +1.00	4165 000		
					9165 025	2165 025 80.25	4165 025		
					9165 050	2165 050 80.50	4165 050		
Benzin Engine X 1.8 XE1 10.5:1, 16 Valves 1796 cm ³ 85 kW (115 PS) Vehicle Astra 1.8i, Vectra 1.8i 1998...2000 Zafira 1.8i 04/1999...10/2000	4	80.50	24.10 - - 44.70 	18.00 55.00	9219 000 1.200D NtSt 1.200K P 2.000VF CrP	2219 000 80.50	4219 000		
	4				9219 000	2219 050 81.00	4219 050		
	4								
Benzin Engine Z 1.8 XEL 10.5:1, 16 Valves 1796 cm ³ 81 - 85 kW (110 - 116 PS) Vehicle Astra 1.8i, Vectra 1.8i , Zafira 1.8i 2000... Meriva 1.8i 2003...	4								
	4								
	4								
Benzin Engine Z 1.8 XE 10.5:1, 16 Valves 1796 cm ³ 92 kW (125 PS) Vehicle Astra 1.8i, Corsa 1.8i, Vectra 1.8i, Zafira 1.8i 2000... Meriva 1.8i, Signum 1.8i 2003...	4								
	4								
	4								
Benzin Engine Z 18 XER, 16 Valves, 10.5:1 1796 cm ³ 103 kW (140 PS) Vehicle Astra H 1.8i 16V 03/2004... Signum 1.8i 16V, Zafira B 1.8i 16V, Astra Mk V 1.8i 16V Zafira Mk II 1.8i 16V 2005... Vectra C 1.8i 16V 2006...	4	80.50	26.10 - -0.70 45.10 	19.00 49.84	9219 000 1.200D NtSt 1.200K P 2.000VF CrP	2229 000 80.50 HA	4229 000		
					9219 050	2229 050 81.00	4229 050		

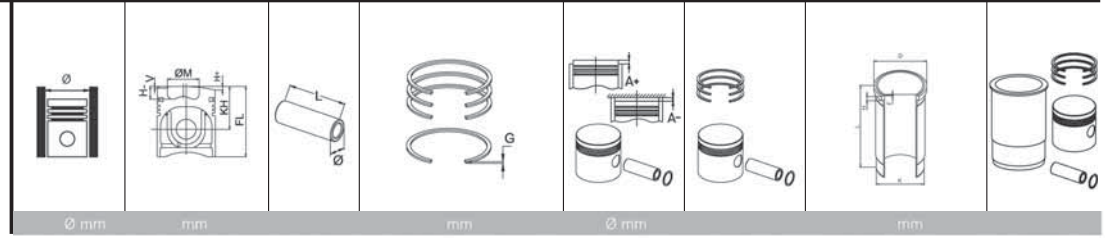
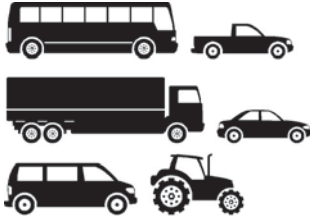
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine C2,5XE / X2,5XE DOHC V6,24 v Enjeksiyonlu, Ecotec 10.8:1 2498 cm ³ 125 kW (170 PS) Vehicle Calibra 2.5, Omega 2.5 L V6, Vectra 2.5 1993...	6	81.60	30.45 -2.00 -0.63 51.05	21.00 56.00	9218 000 1.500D CrP 1.500TN P 3.000VF CrSt	2218 000 81.60	4218 000		
					9218 050	2218 050 82.10	4218 050		
Benzin Engine C 1.8 XE 10.8:1, 16 Valves 1796 cm ³ 92 kW (125 PS) Vehicle Astra F 1.8i 1993... Vectra B 1.8i 1995...	4	81.60	30.40 -1.79 -1.84 50.40	21.00 56.00	9218 000 1.500D CrP 1.500TN P 3.000VF CrSt	2223 000 81.60	4223 000		
	4				9218 050	2223 050 82.10	4223 050		
Benzin Engine C 1.8 XEL, X 1.8 XE 10.8:1, 16 Valves 1796 cm ³ 85 kW (115 PS) Vehicle Astra F 1.8i 1994...1998	4								
Diesel Engine Z 19 DT Common Rail 1910 cm ³ 88 kW (120 PS) Vehicle Astra H 1.9 CDTi, Signum 1.9 CDTi, Vectra C 1.9 CDTi 03.2004...	4	82.00	46.50 -0.50 -17.50 72.50 MØ=37.50	26.00 61.00 PDB	9399 000 2.000D CkP 2.000TN P 2.000DY NtSt	2281 000 82.00 AP Pist. Ç k nt s 0 / +0.20	4281 000		
	4				9399 040	2281 040 82.40	4281 040		
Diesel Engine Z 19 DTL Common Rail 1910 cm ³ 74 kW (100 PS) Vehicle Astra H 1.9 CDTi, 09.2004... Signum 1.9 CDTi 09.2005... Vectra C 1.9 CDTi 2006... Zafira B 1.9 CDTi 03.2005	4				9399 060	2281 060 82.60	4281 060		



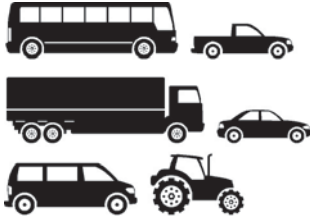
Diesel Engine X 1.7 DR, 1.7 YD 1700 cm ³ 42 kW (57 PS) Vehicle Kadett, Vectra, Astra 1988..1995	4	82.50	44.95 - -1.60 72.95 	26.00 65.00 	9807 000 2.000D CrP 2.000K P 3.000DY CrP 9807 050 9807 100	1799 000 82.50 AP HA Pist. Ç k nt s 1.30 mm Conta ile +0 / 0.75+ 1.40 mm Conta ile +0.75 / +0.85 1.50 mm Conta ile +0.85 / 83.00 +1.05 1799 050 1799 100 83.50	3799 000 3799 050 3799 100	5802 000 K=85.50 L=143.50 H+F=4.50 D=87.40 SF 	S
Diesel Engine A20 DTH, Z20 DMH 1998 cm ³ 110 kW (150 PS) Vehicle Insignia 2.0 CDTI 16V, Antara 2.0 CDTI 16V 2006...	4	83.00	46.35 - -13.95 72.35 MØ=51.90 	28.00 66.80 	9880 000 2.000T CrP 2.000K IF P 3.000DY StNt	2200 000 83.00 AP YS 4200 000			

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine Y 26 SE V 6 benzin 10:1 4 valves 2597 cm ³ 132 kW (180 PS) Vehicle Omega 01/2001...2004	6	83.20	29.650 -1.28 -0.15 49.65 MØ=68.00 	21.00 56.00	9225 000 1.200D Cr 1.500TN CrSt 3.000VF	1797 000 83.20	3797 000		
					9225 025	1797 025 83.45	3797 025		
					9225 050	1797 050 83.70	9225 050		
Diesel Engine X2.0 DTH Turbo, Intercooler, 24 Valves 19.5:1 1998 cm ³ 74 kW (100 PS) Vehicle Omega GLS, Vectra CD, Vectra CDX, Vectra Enjoy, GL, GLS 1997...2004	4	83.975	45.80 -1.00 -14.61 70.80 MØ=41.00 	29.00 68.00	9217 000 2.500T CkP 1.750K P 3.000DY CrP	2217 000 83.975 AP Pist. Ç k nt s STD Conta ile +0.40 / +0.50 1.Çentik Conta ile +0.51 / +0.60 2.Çentik Conta ile +0.61 / +0.70	4217 000		
					9217 050	2217 050 84.475	4217 050		
Diesel Engine X 20 DTL 1998 cm ³ 60 kW (82 PS) Vehicle G 2.0 DI 16V 1998...2000 B 2.0 DI 16V 1996...2000 A 2.0 DI 16V 1999...2000 Diesel Engine Y 20 DTL 1998 cm ³ 60 kW (82 PS) Vehicle G 2.0 DI 16V 1998...2004	4	83.975	45.80 -1.00 -14.84 70.80 MØ=41.00 	29.00 68.00	9820 000 2.000D IF CR 1.750TN FE 3.000DY StNt	2201 000 83.975 AP	4201 000		
					9820 050	2201 050 84.475	4201 050		
					9820 100	2201 100 84.975	4201 100		

										
			Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	mm
Diesel Engine X 20 DTL, 18.5:1 1896 cm ³ 60 kW (81 PS) Vehicle Astra F Classic Hatchback 2.0 DI, Astra G Estate 2.0 DI, Astra G Hatchback 2.0 DI, Astra G Saloon 2.0 DI 1998... Astra G Box 2.0 DI, Zafira 2.0 DI 16V 1999... Vectra B 2.0 DI 16V, Vectra B Estate 2.0 DI 16V, Vectra B Hatchback 2.0 DI 16V 1996...			4	84.00						5808 000 K=87.00 L=160.00 H+F=4.50 D=90.00 SF 
Diesel Engine Y 20 DTL 1995 cm ³ 60 kW (81 PS) Vehicle Astra G Estate 2.0 DI, Astra G Hatchback 2.0 DI, Astra G Saloon 2.0 DI 1998...			4							
Diesel Engine M9R 780 Euro4 2000 cm ³ 66 - 84 kW (90 - 114 PS) Vehicle Vivaro 2.0 CDTI 16V Vivaro 2.5 CDTI 16V 07.2006...			4	84.00	47.916 - -14.90 76.00 MØ=49.07 	32.00 65.00	9171 000 2.500TT 2.000TN 2.000DY Cr P CrSt	2182 000 84.00 AP YS	4182 000	
Diesel Engine M9R 782 2000 cm ³ 66 kW (90 PS) Vehicle Vivaro 2.0 CDTI 16V 02.2008...08.2010			4				9171 050	2182 050 84.50	4182 050	
Diesel Engine M9R 786 2000 cm ³ 66 - 84 kW (90 - 114 PS) Vehicle Vivaro 2.0 CDTI 16V 07.2006...			4							



Benzin Engine 1.6 S 1795 cm ³ 62 - 65 - 70 kW (84 - 88 - 95 PS) Vehicle Ascona, Manta, Omega, Rekord, Vectra, Astra 1982...	4	84.80	40.00 - -2.80 72.00	23.00 70.00	9811 000 1.500 D IF CrP 1.750 N P 4.000 DY CrP	1811 000 84.80	3811 000	5804 000 K=89.00 L=154.50 H+F=5.50 D=90.00 SF	S
			39.70 - -2.80 71.70		9811 050	1811 050 85.30	3811 050		
			39.50 - -2.80 71.50		9811 100	1811 100 85.80	3811 100		
Benzin Engine 1.8 E 1796 cm ³ 85 kW (116 PS) Vehicle Omega, Kadett GSI, Ascona 1986...1995 Benzin Engine 1.8 S, C 1.8 S, SV 1796 cm ³ 66 kW (90 PS) Vehicle Omega 1986...1995	4	84.80	33.65 - -4.00 53.65 MØ=41.80	21.00 61.50	9804 000 1.500 D CrP 1.500 TN P 3.000 DY CrP	1804 000 84.80	3804 000	5804 000 K=89.00 L=154.50 H+F=5.50 D=90.00 SF	S
					9804 050	1804 050 85.30	3804 050		
					9804 100	1804 100 85.80	3804 100		



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Benzin Engine

1.8 E
Enjeksiyonlu, Katalizörlü
1796 cm³
85 kW (115 PS)
10:1

Vehicle

Ascona, Kadett, Omega
1986...1995

Benzin Engine

1.8 S
1796 cm³
66 kW (90 PS)
10:1

Vehicle

Omega
1985...1995

4	84.80	33.65 - -5.00 53.65 MØ=55.70	21.00 61.50	9804 000 1.500D CrP 1.500TN P 3.000DY CrP	2209 000 84.80	4209 000	
4		33.35 - -5.00 53.35 MØ=55.70		9804 050	2209 050 85.30	4209 050	
				9804 100	2209 100 85.80	4209 100	

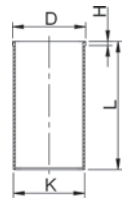
Benzin Engine

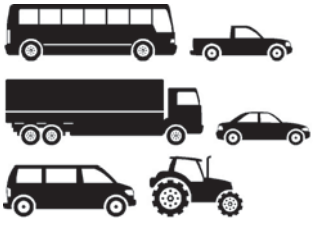
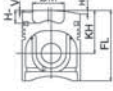
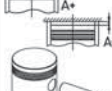
2.0 NE
1998 cm³
85 kW (115 PS)

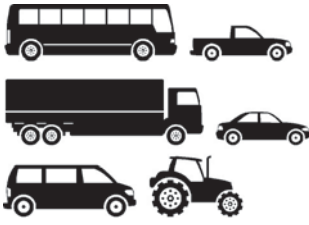
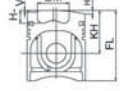
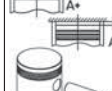
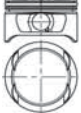
Vehicle

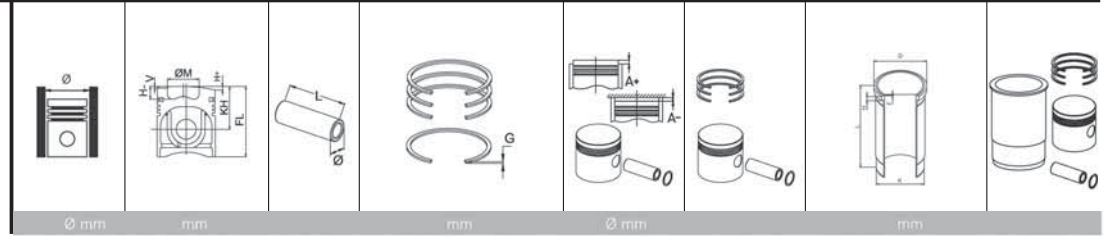
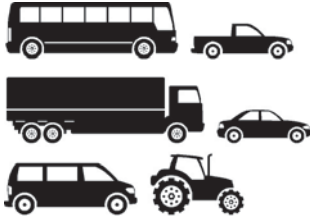
Kadett GSI, Omega, Calibra ,
Vectra
1986...
Frontera
1991...

4	86.00	30.40 - -5.00 50.40 MØ=55.70	21.00 61.50	9805 000 1.500D CrP 1.500TN P 3.000DY CrP	1805 000 86.00	3805 000	5806 000 K=90.00 L=138.00 H+F=5.50 D=91.00 SF	S
		30.10 - -5.00 50.10 MØ=55.70		9805 050	1805 050 86.50	3805 050		
				9805 100	1805 100 87.00	3805 100		



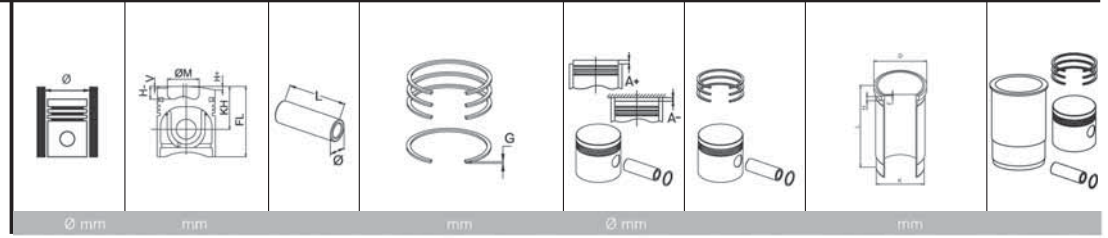
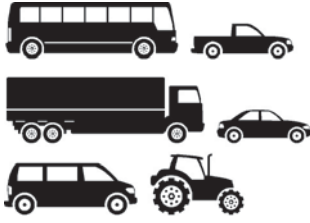
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine C 2,0 XEV 1998 cm ³ 87 kW (112 PS) Vehicle Astra, Calibra, Vectra 1994... Omega 01/1994...	4	86.00	30.40 -2.00 -3.16 55.40 MØ=60.00	21.00 61.50	9805 000 1.500D CrP 1.500TN P 3.000DY CrP	1818 000 86.00 Pist. Ç k nt s +0.25 / +0.30	3818 000		
	4				9805 050	1818 050 86.50	3818 050		
Benzin Engine X2,0 XEV 1996 cm ³ 100 kW (136 PS) Vehicle Astra 1995... Calibra 1994...07/1997 Omega 03/1994...1999 Vectra 1994...09/2000	4	86.00	26.75 - -0.61 48.90 MØ=70.0	20.00 62.84	9221 000 1.200D NtSt 1.500K P 2.500VF CrP	2221 000 86.00	4221 000		
	4				9221 050	2221 050 86.50	4221 050		
Benzin Engine X 30 XE 24 Valves, 10.8:1 2962 cm ³ 148 kW (201 PS) Vehicle Omega B 3.0i 24V 1994...2001 Sintra 3.0i 24V 1996...1999	6	86.00	30.45 - -1.97 50.45	21.00 61.50	9805 000 1.500D CrP 1.500TN P 3.000DY CrP	1812 000 86.00	3812 000		
					9805 050	1812 050 86.50	3812 050		
					9805 100	1812 100 87.00	3812 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine C 20 XE 16 Valves, 10.5:1 110 kW (150 PS) 1998 cm ³ Vehicle Astra F 2.0i 16V, Calibra 2.0i 16V Kadett E 2.0i 16V, Vectra A 2.0i 16V 1988...	4	86.00	30.43 -1.93 -0.85 55.43 MØ=70.00 	21.00 61.50	9805 000 1.500D CrP 1.500TN P 3.000DY CrP	2225 000 86.00	4225 000		
					9805 050	2225 050 86.50	4225 050		
Benzin Engine C 20 SEL 16 Valves, 9.6:1 100 kW (136 PS) 1998 cm ³ Vehicle Vectra B 2.0i 16V 1997...2002	4	86.00	30.40 -2.68 -6.50 55.40 MØ=63.18 	21.00 61.50	9805 000 1.500D CrP 1.500TN P 3.000DY CrP	2226 000 86.00	4226 000		
	4				9805 050	2226 050 86.50	4226 050		
	4				9805 100	2226 100 87.00	4226 100		
	4								
Benzin Engine C 22 SEL 16 Valves, 10:1 106 kW (144 PS) 2198 cm ³ Vehicle Vectra B 2.2i 16V 2000...2002	4								
	4								
	4								
	4								
Benzin Engine X 22 SE 16 Valves, 9.6:1 100-104 kW (136-141 PS) 2198 cm ³ Vehicle Frontera A 2.2i 16V 1995...1998 Frontera B 2.2i 16V 1998...2000 Sintra 2.2i 16V 1996...1999	4								
	4								
	4								
	4								
Benzin Engine X 22 XE 16 Valves, 10.5:1 104 kW (141 PS) 2198 cm ³ Vehicle Sintra 2.2i 16V 1996...1999 Frontera A 2.2i 16V 1995...1998	4								
	4								

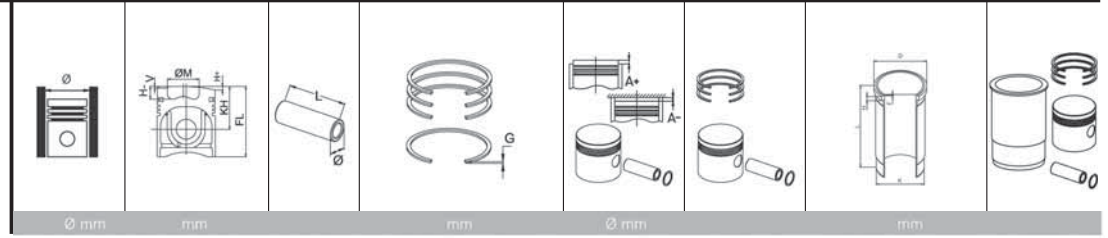
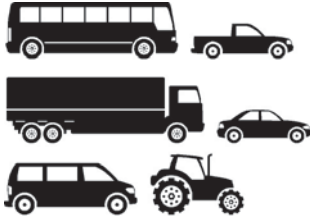


Benzin Engine Y 22 XE, Z 22 XE, 16 Valves, 10.5:1 2198 cm ³ 106 kW (144 PS) Vehicle Omega B 2.2i 16V 09/1999....09/2003 Traviq 2.2i 16V 08/2001...	4	86.00	27.60 - -2.40 55.00	21.00 61.50	9221 000 1.200 D NtSt 1.500 K P 2.500 VF CrP	2228 000 86.00	4228 000	
					9221 010 9221 025	2228 010 86.10 2228 025 86.25	4228 010 4228 025	
			27.60 - -2.40 55.00		9221 050	2228 050 86.50	4228 050	
Benzin Engine A20NHT, A20 NFT 1988 cm ³ Vehicle ASTRA-J / Insignia 2.0 Turbo 2007...2009	4	86.00	31.00 -1.75/-2.50 +5.70/-8.85 59.250 MØ34.00	23.00 54.70	9823 000 1.20 D P 1.50 TN P 2.00 VF Cr	2234 000 86.00 HA	4234 000	
			31.00 -1.75/-2.50 +5.70/-8.85 59.250 MØ=34.00		9823 050	2234 050 86.50	4234 050	
Diesel Engine 2.0 D 1998 cm ³ 40.5 - 43 kW (55 - 58 PS) Vehicle Ascona D, Rekord D 08/1974...1982	4	86.50						5801 000 K=92.00 L=172.00 H+F=4.55 D=93.90 SF

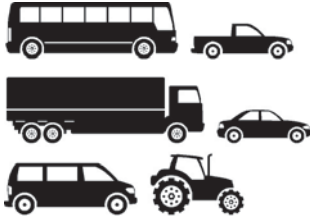
		Ø mm	mm		mm		Ø mm		mm
Benzin Engine Z24XE, 2,4 L 2405 cm³ 103 kW (140 PS) Vehicle Captiva 2.4 16V, Antara 2.4 16V 2007 ...	4	87.50	26.70 - -6.00 50.00 MØ=74.50 	21.00 61.70	9814 000 1.200D NtSt 1.500TN P 2.500VF NtSt	2232 000 87.50	4232 000		
Benzin Engine C 2.6 NE 2594 cm³ Vehicle Omega 2.6 09/1990...05/1994 Senator 2.6 09/1990...08/1993	6	88.80	39.15 -3.52 - 69.00 	22.00 65.00	9816 000 1.500D Cr 1.500TN 3.000DY	1816 000 88.80	3816 000		
					9816 050	1816 050 89.30	3816 050		
Diesel Engine G9U 730 4V Euro 3 2463 cm³ 99 kW (135 PS) Vehicle Vivaro 2.5 CDTI 16V 09,2002...	4	89.00	53.03 -1.65/-1.90 -17.85 83.09 MØ=43,20 	31.00 65.00	9159 000 2.500D IF MoP 1.750K IFU P 2.500DY CrP	2159 000 89.00 AP Pist. Ç k nt s +0.50 / +0.60	4159 000	5807 000 K=92.00 L=168.00 H+F=5.00 D=93.50 	S
Diesel Engine G9U 750 4V Euro 3, G9U 724 4V Euro 3 2463 cm³ 84 kW (114 PS) Vehicle Movano 2.5 CDTI 16V 11,2003...					9159 050	2159 050 89.50	4159 050		
Diesel Engine G9U 754 4V Euro 3, G9U 720 4V Euro 3 2463 cm³ 73 - 84 kW (99 - 115 PS) Vehicle Movano 2.5 CDTI 16V 10,2001...	4								



Diesel Engine	4	92.00	53.65 - -1.80 86.65	30.00 74.00	9802 000 2.000D CrP 2.000K IF P 4.000DY CrP	1798 000 92.00 AP HA	3798 000	5803 000 K=95.00 L=172.00 H+F=4.55 D=97.00 SF	S
2.3 TD 2260 cm ³ 63 - 66 kW (86 - 90 PS) Rekord TD, Senator TD, 1984...1986 Omega TD 1986...						Pist. Ç k nt s 1.30 mm Conta ile ... / +0.60 1.40 mm Conta ile +0.60 / +0.70 1.50 mm Conta ile +0.70 / +0.85			
					9802 050	1798 050 92.50 / +0.85	3798 050		
					9802 100	1798 100 93.00	3798 100		
					9802 000 2.000D CrP 2.000K IF P 4.000DY CrP	1802 000 92.00 AP	3802 000		
					9802 050	1802 050 92.50	3802 050		
					9802 100	1802 100 93.00	3802 100		
					9691 000 2.500T Cr 2.000K P 2.500DY Cr	1691 000 94.40 AP YS	3691 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF	S
S9W 700 Euro 2, S9W 702 Euro 2 2799 cm ³ 84 kW (114 PS) Movano 2.8 DTI 06/1998...09/2002			58.75 - -19.45 87.60 MØ=39.30	32.00 72.00		Pist. Ç k nt s 1.20 mm Conta ile +0.40 / +0.50 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.60 / +0.70			
					9691 040	1691 040 94.80 / +0.80	3691 040		
					9691 060	1691 060 95.00	3691 060		

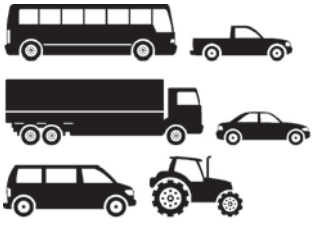
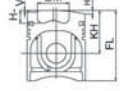
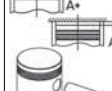
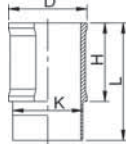
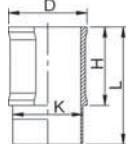
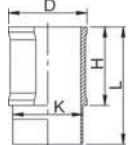


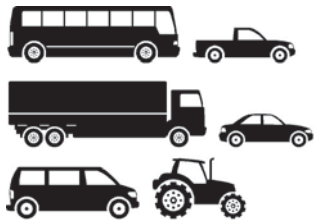
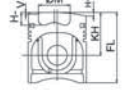
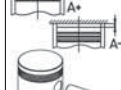
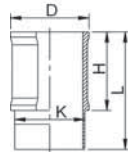
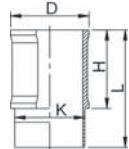
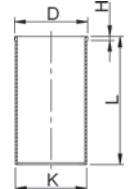
Benzin Engine 2000 S/E 1979 cm ³ 72 - 73.5 kW (98 - 100 PS) Vehicle Ascona, Manta, Rekord 1975... Diesel Engine 2000 S 1979 cm ³ 77 - 81 - 84.5 kW (105 - 110 - 115 PS) Vehicle Ascona, Kadett, Manta, Monza, Rekord, Senator 1977...1986	4	95.00	45.00 - -3.50 87.00	23.00 76.00	9806 000 2.000D IF MoP 2.000K IF P 4.000DY CrP	1806 000 95.00	3806 000	5805 000 K=99.05 L=139.00 H+F=5.00 D=100.00 SF	S
	4				9806 050	1806 050 95.50	3806 050		
					9806 100	1806 100 96.00	3806 100		
Benzin Engine C 2,4 NE 2410 cm ³ 92kW (125 PS) Vehicle Omega 1988... Frontera 1991...	6	95.00	31.50 -4.00 -2.25 61.00 MØ=81.00	22.00 65.00	9815 000 1.500D Mo 1.500K P 3.000DY CrP	1815 000 95.00	3815 000	5805 000 K=99.05 L=139.00 H+F=5.00 D=100.00 SF	S
					9815 050	1815 050 95.50	3815 050		

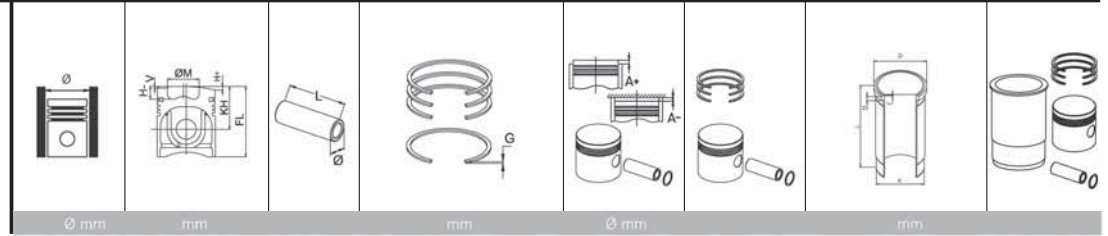
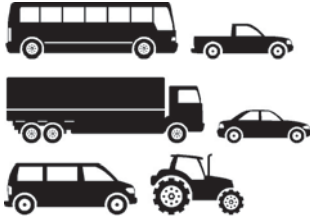


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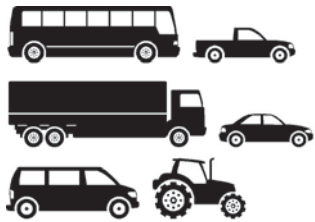
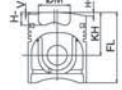
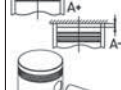
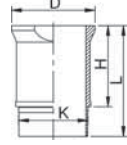
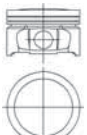
Benzin Engine XV 3,XV 5, XV 8 954 cm ³ 32 - 34 - 35 kW (44.5 - 46 - 48 PS) Vehicle 104,204,205 1972...1988	4	70.00						5870 000 K=77.00 L=122.25 H+F=84.90 D=83.25 FF 1 P 76.3x83.7x0.065 1 P 76.3x83.7x0.085 1 P 76.3x83.7x0.103 1 P 76.3x83.7x0.13	
Benzin Engine TU 9 954 cm ³ 32 kW (44 PS) Vehicle 205 1988... 106 1992...	4	70.00	33.90 - - 58.00	18.00 53.00	9207 000 1.500D IF Cr 1.500TN P 3.000DY Cr	2907 000 70.00	4907 000	5871 000 K=79.50 L=122.00 H+F=85.00 D=89.20 FF 1 SI 79x1.2	8907 K,S
Benzin Engine TU 1M/Z 1124 cm ³ 44 kW (60 PS) Vehicle 205,309 1988... 106 1992... 306 1.1 1993... Partner 1996...	4	72.00	40.00 - +2.97 67.00	19.50 62.00	9100 000 1.500D Cr 2.000K P 3.000DY Cr	2100 000 72.00	4100 000	5872 000 K=79.45 L=122.50 H+F=85.00 D=89.20 FF 1 VI 77.2x1.25	8100 K,S
Benzin Engine TU 1 K 1124 cm ³ 40 kW (54 PS) Vehicle 205,309 1988... 106 1992... 306 1.1 1993...	4								

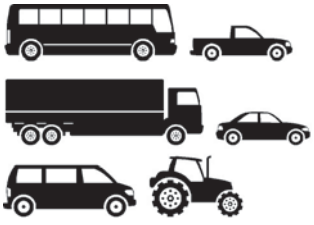
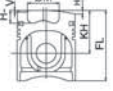
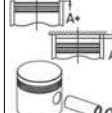
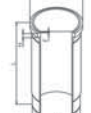
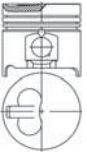
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine XY 6 B ,XY 7, XY8 ,XYR 1360 cm ³ 44 - 59 kW (60 - 80 PS) Vehicle 205 GRI,CT/ST/XR/XT 1978...1988	4	75.00	40.50 - 65.50	19.50 65.00	9154 000 1.750D Cr 2.000K P 4.000DY Cr	2154 000 75.00	4154 000	5873 000 K=79.45 L=134.50 H+F=90.00 D=89.20 FF	8154 K,S
					9154 050	2154 050 75.50	4154 050	 1 VI 77.2x1.25	
Benzin Engine TU 3 A, K2D 1361 cm ³ 48 - 55 kW (65 - 75 PS) Vehicle 205 XR,GR,SR ,C3 1988... 405, Partner 1989... 306 XN,XR,XA,XRA 309 VITAL,GRX,CATA,GR 1990... 106 XS,XY 1992... 306 1,4 1993...	4	75.00	40.50 - -1.10 64.50	19.50 62.00	9888 000 1.750D Cr 2.000TN 3.000DY Cr	1888 000 75.00	3888 000	5873 000 K=79.45 L=134.50 H+F=90.00 D=89.20 FF	7888 K,S
								 1 VI 77.2x1.25	
Benzin Engine TU 3 JP 1361 cm ³ 55 kW (75 PS) Vehicle 106, Partner 05.1996... 205 07.1988...09.1998 206 09.1998... 306 1993...2002 307, 08/2000...	4	75.00	27.90 - -1.25 49.70 MØ=64.75	18.00 55.00	9889 000 1.500D Cr 1.500TN P 2.500SY P	1889 000 75.00	3889 000	5873 000 K=79.45 L=134.50 H+F=90.00 D=89.20 FF	7889 K,S
								 1 VI 77.2x1.25	

								
	Ø mm	mm		mm		Ø mm		mm
Benzin Engine TU 3 JP L4 Euro 4 1361 cm³ 55 kW (75 PS) Vehicle 106, 206, 306, 307, Partner, Ranch 2004...	75.00	27.80 - +0.10 49.80 	18.00 55.00	9889 000 1.500D Cr 1.500TN P 2.500SY P	2500 000 75.00	4500 000	5873 000 K=79.45 L=134.50 H+F=90.00 D=89.20 FF  1 VI 77.2x1.25	8500 K,S
Benzin Engine XK 4 1130 cm³ 34.5 kW (47 PS) Vehicle 204 1968...1976	4 75.00						5874 000 K=81.00 L=128.00 H+F=88.00 D=89.20 FF  1 P 1 P 1 P 1 P	
Diesel Engine DV6 TD / TED Common Rail 1560 cm³ 80 kW (109 PS) Vehicle 206/207 1.6 HDI, 307 1.6 HDI, 308 1.6 HDI, Partner 1.6 HDI, Expert 1.6 HDI,	4 75.00	41.700 -1.20 -13.25 65.30 MØ=41.80 	26.00 61.00	9168 000 3.000T CkP 1.950K P 2.500DY CrP	2498 000 75.00 AP Pist. Ç k nt s 1.25 mm Conta ile +0.53 / +0.63 1.30 mm Conta ile +0.63 / +0.68 1.35 mm Conta ile +0.68 / +0.73	4498 000	5826 000 K=78.00 L=142.00 H+F=5.00 D=79.50 SF 	S
				9168 050	2498 050 75.50	4498 050		
				9168 060	2498 060 75.60	4498 060		

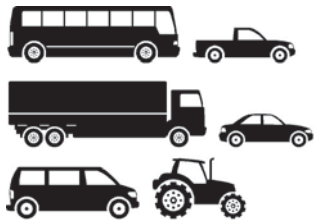
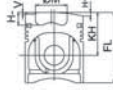
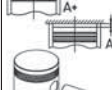
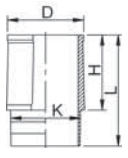
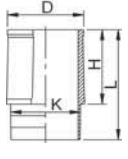


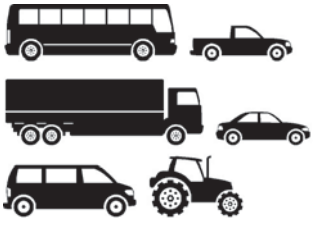
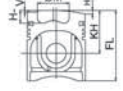
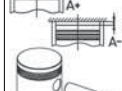
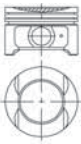
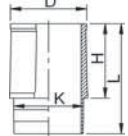
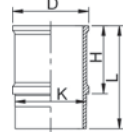
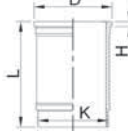
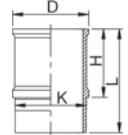
Benzin Engine TU 3 JP 1361 cm ³ Vehicle 106 1.4, 206 1.4, 306 1.4	4	75.00	27.80 - 49.80	18.00 55.00	9889 000 1.500D Cr 1.500TN P 2.500SY P	2501 000 75.00	4501 000		
Benzin Engine XL 3 S 1288 cm ³ 55 kW (75 PS) Vehicle 304 1972...1975	4	76.00	40.30 - +0.90 73.50	20.50 63.40	9904 000 1.750D IF Cr 2.000K P 4.000VF CrPSt	1874 000 76.00	3874 000	5875 000 K=81.00 L=128.30 H+F=87.96 D=89.20 FF	7874 K,S
Benzin Engine XL 5 1290 cm ³ 44 - 48 kW (60 - 65 PS) Vehicle 304,305 1976...1988 Motor Nr...9285506 Benzin Engine XL 5 S 1290 cm ³ 51 kW (69 PS) Vehicle 304 1976...1979 Motor Nr...9285506	4	78.00	36.05 - - 72.05	20.50 68.00	9875 000 1.750D Cr 2.000K P 4.000VF Cr	1875 000 78.00	3875 000	5877 000 K=83.00 L=133.00 H+F=97.40 D=100.00 FF	7875 K,S
	4				9875 050	1875 050 78.50	3875 050	1 P 82.5x89.8x0.065 1 P 82.5x89.8x0.085 1 P 82.5x89.8x0.103 1 P 82.5x89.8x0.13	

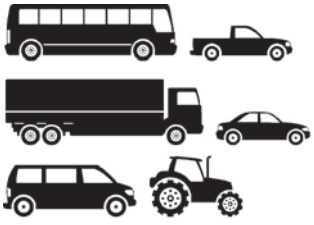
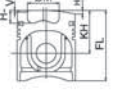
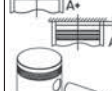
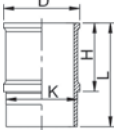
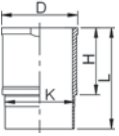
									
	Ø mm	mm		mm	Ø mm		mm		
Benzin Engine XR 5 1472 cm³ 49 - 58 kW (67 - 78 PS) Vehicle 305 1977...	4	78.00	36.10 - +0.75 72.80 	20.50 68.00	9875 000 1.750D 2.000K 4.000VF Cr P Cr	1886 000 78.00	3886 000	5877 000 K=83.00 L=133.00 H+F=97.40 D=100.00 FF  1 P 82.5x89.8x0.065 1 P 82.5x89.8x0.085 1 P 82.5x89.8x0.103 1 P 82.5x89.8x0.13	7886 K,S
Benzin Engine XR 5 S 1472 cm³ 63 kW (86 PS) Vehicle 305 1980...1983	4								
Benzin Engine TU5JP4 1587 cm³ 80 kW (109 PS) Vehicle 206 16 valve 307 16 valve	4	78.50	32.35 - +1.30 51.30 MØ=63.00 	19.50 57.00	9929 000 1.200D 1.500TN 2.500DY Mo P P	2929 000 78.50	4929 000		
					9929 040	2929 040 78.90	4929 040		
					9929 050	2929 050 79.00	4929 050		
Benzin Engine TU 5JP4 4V 1587 cm³ 80 kW (109 PS) Vehicle 1007 1.6i 16V 10.2004...03.2008 206 1.6i 16V 03.2000... 207 1.6i 16V 12.2005...03.2008 307 1.6i 16V 01.2002...12.2008 307 CC 1.6i 16V 06.2003...12.2008 308 1.6i 16V 09.2007 Partner 1.6i 16V 09.2007... Partner Tepee 1.6i 16V 00.2008...	4	78.50	32.35 +0.15 - 50.15 	19.50 57.00	9929 000 1.200D 1.500TN 2.500DY Mo P P	2101 000 78.50	4101 000		
					9929 050	2101 050 79.00	4101 050		
					9929 100	2101 100 79.50	4101 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	
Diesel Engine XUD 7 , 161 A 44 kW (60 PS) Vehicle 205 309	1769 cm ³ 1983... 1993...	4	80.00	46.80 - -2.00 84.30	25.00 69.80	9800 000 2.000D MoP 2.000K IF P 3.000DY CrP	1876 000 80.00 Pist. Ç k nt s 1.61 mm Conta ile +0.54 / +0.77 1.73 mm Conta ile +0.77 / +0.82	3876 000	5876 000 K=83.05 L=154.00 H+F=4.50 D=86.00 SF
Diesel Engine XID 80, XIDL 31.5 - 36 kW (43 - 49 PS) Vehicle 304,305	1548 cm ³ 1979...1983	4	80.00			9800 020 9800 050 9800 080	1876 020 80.20 1876 050 80.50 1876 080 80.80	3876 020 3876 050 3876 080	5865 000 K=84.50 L=133.50 H+F=97.50 D=100.00 FF
Diesel Engine DW 8 /DW 8 TD /DW 8 B /XUD 9 AY 51 kW (71 PS) Vehicle 206 1.9D 306 1.9D Partner 1.9D, Expert 1.9D	1868 cm ³ 09.98...05.2007 09.1998...04.2002 06/1996...	4	82.20	46.70 - -1.20 78.00	25.00 65.50	9878 000 2.000D Cr 2.000K IFU Cr 3.000DY Cr	1878 000 82.20 Pist. Ç k nt s 1.26 mm Conta ile +0.51 / +0.55 1.30 mm Conta ile +0.55 / +0.59 1.34 mm Conta ile +0.59 / +0.63	3878 000	5866 000 K=85.05 L=160.00 H+F=5.10 D=87.00 SF
Diesel Engine DW 8 /DW 8 TD /DW 8 B /XUD 9 AY 51 kW (71 PS) Vehicle 206 1.9D 306 1.9D Partner 1.9D, Expert 1.9D	1868 cm ³ 09.98...05.2007 09.1998...04.2002 06/1996...	4	82.20			9878 060	1878 060 82.80	3878 060	5866 000 K=85.05 L=160.00 H+F=5.10 D=87.00 SF

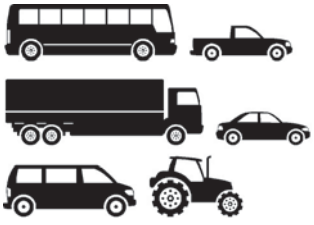
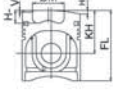
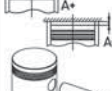
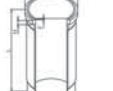
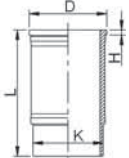
			Ø mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine XU 52 C 1580 cm³ 53 - 55 kW (72 - 75 PS) Vehicle Vergaser,Kat 1988...	4	83.00	37.50 - -2.60 67.00	22.00 66.20	9877 000 1.750D 1.750K 4.000VF Cr CrPSt	2116 000 83.00	4116 000	5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF 1 R 86x1.25	8116 K,S
Benzin Engine XU 52 C 1580 cm³ 59 - 68 - 69 kW (80 - 92 - 94 PS) Vehicle Versager 1988..	4								
Benzin Engine XU 52 C 1580 cm³ 65 kW (88 PS) Vehicle 309,405 1989...	4								
Benzin Engine XU 52 C, B2 A 1580 cm³ Vehicle 309,405,309 GRX	4	83.00	37.50 - -3.00 67.00	22.00 66.20	9877 000 1.750D 1.750K 4.000VF Cr CrPSt	2118 000 83.00	4118 000	5878 000 K=88.60 L=141.00 H+F=95.135 D=97.00 FF 5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF 1 R 86x1.25	8118 8118 600 K,S 8119 K,S
Benzin Engine XU 9 S, XU 9 J2 1905 cm³ 75 - 77 - 81 kW (102 - 105 - 110 PS) Vehicle 305,309,405 1984...	4	83.00	37.50 - - 67.00	22.00 66.20	9885 000 1.500D 1.500K 4.000DY Cr Cr	2120 000 83.00	4120 000	5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF 1 R 86x1.25	8120 K,S

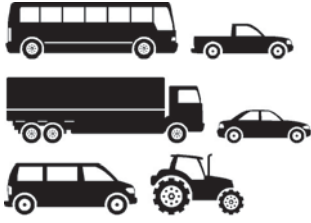
									
	Ø mm	mm		mm		Ø mm		mm	
Benzin Engine XU 5 J 1580 cm³ 83 - 85 kW (113 - 115 PS) Vehicle 205 1988...	4	83.00	37.50 - -9.00 67.50	22.00 66.20	9885 000 1.500D Cr 1.500K Cr 4.000DY	1885 000 83.00	3885 000	5878 000 K=88.60 L=141.00 H+F=95.135 D=97.00 FF 	7885 K,S
Benzin Engine XU 9 JA, XU 9 2 C 1905 cm³ 77 - 81 kW (105 - 110 PS) Vehicle 309,405 1986...1989	4							5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF  1 R 86x1.25	7890 K,S
Benzin Engine XU 9 JA, XU 9 2 C 1905 cm³ 93 - 95.5 kW (127 - 130 PS) Vehicle 205,309 1987...	4								
Benzin Engine XU7 JP K TR 1782 cm³ 75 kW (95 PS) Vehicle 306 1993...	4	83.00	33.30 - -6.38 53.30	22.00 62.00	9887 000 1.500D Mo 1.500K Cr 3.000DY	1887 000 83.00	3887 000	5868 000 K=88.60 L=141.00 H+F=95.135 D=97.00 FF 	7887 7887 600 K,S
								5878 000 K=88.60 L=141.00 H+F=95.135 D=97.00 FF	7892 K,S
								5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF 1 R 86x1.25	7882 K,S

									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine XU 7 JP 4 1761 cm ³ 81 kW (110 PS) Vehicle 306 11.1998...2003 406 11.1998...		4	83.00	33.30 -1.95 -1.00 56.30 MØ=52.00 	22.00 62.00 1.500D 1.500K 3.000DY Mo Cr	2924 000 83.00	4924 000	5881 000 K=88.60 L=141.00 H+F=95.185 D=97.00 FF  1 R 86x1.25	8924 K,S
Benzin Engine XM/KFS/KP6 1796 cm ³ Vehicle 504 1969...1970		4	84.00	38.80 - +1.45 71.75 	23.00 70.00 1.500D 2.000K 4.000VF Cr CrPSt	2923 000 84.00	4923 000	5880 000 K=92.95 L=136.20 H+F=90.00 D=99.20 FF  1 P 92.4x99.7x0.07 1 P 92.4x99.7x0.085 1 P 92.4x99.7x0.105 1 P 92.4x99.7x0.13	7079 K,S
								5883 000 K=89.00 L=135.70 H+F=6.50 D=99.20 FF  1 R	8923 8923 600 K,S
Benzin Engine XM 7 P/T 1796 cm ³ Vehicle 504 L, 504 GR/SR		4	84.00	37.80 - - 69.30 	23.00 70.00 1.500D 2.000K 4.000VF Cr CrPSt	1881 000 84.00	3881 000	5880 000 K=92.95 L=136.20 H+F=90.00 D=99.20 FF  1 P 92.4x99.7x0.07 1 P 92.4x99.7x0.085 1 P 92.4x99.7x0.105 1 P 92.4x99.7x0.13	7881 7881 600 K,S

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine XC 5 A 1618 cm ³ Vehicle 404 , J 7 Benzin Engine XC 7 1618 cm ³ Vehicle 404,504 L Benzin Engine XC 7 P 1618 cm ³ Vehicle 77 E E , J9	4	84.00	41.50 - +3.40 80.85	23.00 70.00	9128 000 2.000D Cr 2.000TN P 4.500DY Cr	2128 000 84.00	4128 000	5880 000 K=92.95 L=136.20 H+F=90.00 D=99.20 FF  1 P 92.4x99.7x0.07 1 P 92.4x99.7x0.085 1 P 92.4x99.7x0.105 1 P 92.4x99.7x0.13	8128 K,S
	4								
	4								
	4								
Benzin Engine XU 10 J 4RZ 1998 cm ³ 98 kW (133 PS) Vehicle 406 01/1995... 605 1995... 806 01/1995...	4	86.00	33.80 -1.70/-2.00 -4.30 53.80 MØ=52.00	22.00 62.00	9499 000 1.500D Mo 1.750K 3.000UB	2499 000 86.00	4499 000		
									
Benzin Engine XN 1 T 1971 cm ³ 57 kW (78 PS) Vehicle J 5, J 9 1982... Benzin Engine XN 1 1971 cm ³ 55 - 64 - 68 - 70.5 kW (75 - 87 - 92.5 - 96 PS) Vehicle 504,505 1976...1992 Benzin Engine XN 2 1971 cm ³ 71 - 73.5 - 74.5 kW (97 - 100 - 101 PS) Vehicle 504 1968...1976	4	88.00	37.90 - +2.55 73.60	23.00 74.00	9140 000 1.500D CrP 2.000K Cr 4.000VF	2140 000 88.00	4140 000	5889 000 K=93.00 L=136.20 H+F=90.00 D=101.90 FF  1 SM 92.5x99.7x0.1 1 SM 92.5x99.7x0.12 1 SM 92.5x99.7x0.15	8140 K,S
	4								
	4								
	4								

		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	
Benzin Engine XN 1 , XN 1 A , XN 1 T 19741 cm ³ Vehicle 504,505 Pick up	4	88.00	38.50 - +0.50 71.95	23.00 74.00	9140 000 1.500D CrP 2.000K Cr 4.000VF	2142 000 88.00	4142 000	5889 000 K=93.00 L=136.20 H+F=90.00 D=101.90 FF 1 SM 92.5x99.7x0.1 1 SM 92.5x99.7x0.12 1 SM 92.5x99.7x0.15	8142 K,S
Benzin Engine XN 2 1971 cm ³ 71.5 - 78 kW (97 - 106 PS) Vehicle 504 TI 09/1968...09/1976	4	88.00	37.90 - +2.55 73.40	23.00 74.00	9140 000 1.500D CrP 2.000K Cr 4.000VF 9140 050 9140 075	2148 000 88.00 2148 050 88.50 2148 075 88.75	4148 000 4148 050 4148 075	5889 000 K=93.00 L=136.20 H+F=90.00 D=101.90 FF 1 SM 92.5x99.7x0.1 1 SM 92.5x99.7x0.12 1 SM 92.5x99.7x0.15	8148 K,S
Diesel Engine J 7 BD8/GD/PZ 30 Vehicle 404 DLD, U6 D,U 8D , 504 LD Diesel Engine XD/SPD 19848 cm ³ Vehicle 504 D8 CV V 20, 504 E,L	4 4	88.00	58.70 - -1.95 95.70	28.00 72.00	9220 000 2.000D IW Cr 2.000K P 2.000TN P 4.500DY CrP	2220 000 88.00	4220 000	5890 000 K=96.00 L=173.00 H+F=7.00 D=106.30 FF 1 R 88x2.5	8220 K,S

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine XDP 4.90 2112 cm ³ 43 - 55 kW (49 - 75 PS) Vehicle 504, J 7, J 9 1967...1982 Diesel Engine XDP 6.90 3168 cm ³ 78 kW (106 PS) Vehicle 504 D, J 7D 1970...1982	4	90.00	57.20 - -2.00 96.35	28.00 77.00	9891 000 2.000D CrP 2.000K P 2.000N P 4.500DY CrP	1891 000 90.00	3891 000	5891 000 K=96.00 L=173.00 H+F=7.00 D=106.30 FF	7891 K,S
	6				9891 050	1891 050 90.50	3891 050		
					9891 100	1891 100 91.00	3891 100		
	4	92.00	49.74 - -1.75/-2.80 79.90	34.00 58.00	9131 000 2.250D CrP 2.000TN P 3.000DY CrP	2131 000 92.00	4131 000	5886 000 K=96.00 L=160.00 H+F=5.00 D=97.00 SF	S
					9131 050	2131 050 92.50	4131 050		
					9131 075	2131 075 92.75	4131 075		
					9131 100	2131 100 93.00	4131 100		
Diesel Engine U 25/651 ,0 U 25 /661 2499 cm ³ 54 kW (75 PS) Vehicle J 5 D 10/1983...	4	93.00						5867 000 K=97.50 L=163.00 H+F=5.00 D=99.00 SF	
									



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Diesel Engine

4JB1
Isuzu ile ortak motor
2771 cm³
57 Kw (78 PS)

Vehicle
Karsan J9 Premier
2005...

4	93.00	51.85 -0.55 -19.50 91.85 MØ=43.90	31.00 76.00	9389 000 2.000D P 2.000TN P 4.000DY P	2385 000 93.00 AP Pist. Ç k nt s 0 / +0.70	4385 000		
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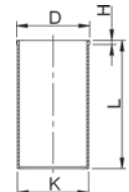


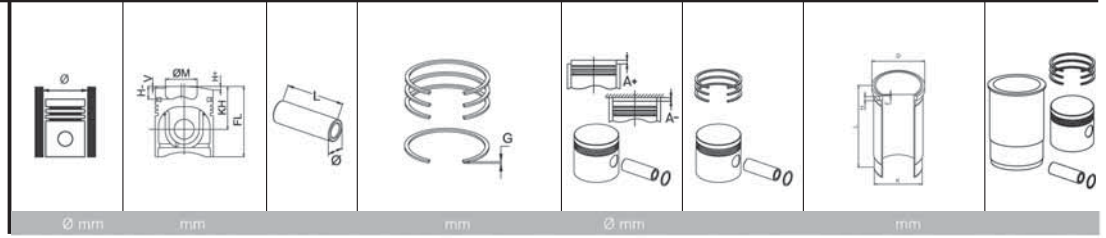
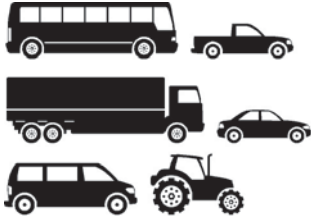
Diesel Engine

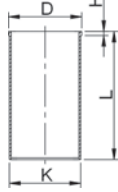
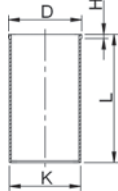
XD 3 P
2498 cm³
51.5 - 56 kW (70 - 76 PS)

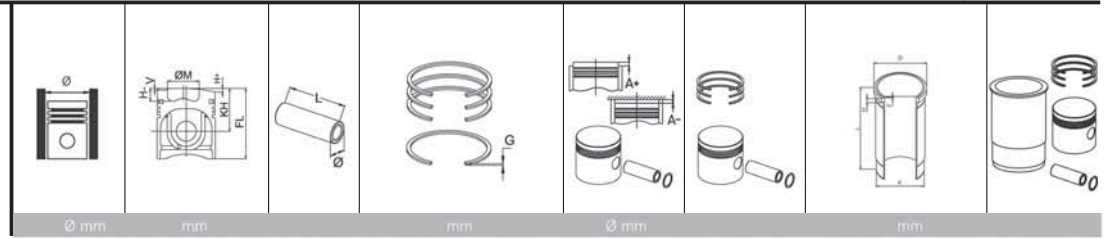
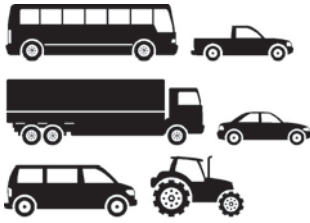
Vehicle
J 9 Gren Motor,505 GRD,
SRD
1982...

4	94.00	53.92 - -1.75 91.42	30.00 78.80	9895 000 2.000D CrP 2.000K IF P 4.000DY CrP	1895 000 94.00 Pist. Ç k nt s 1.56 mm Conta ile 0 / +0.84 1.70 mm Conta ile 0 / +0.84	3895 000	5892 000 K=97.05 L=170.60 H+F=3.90 D=99.50 SF	S
				9895 040	1895 040 94.40	3895 040	5893 000 K=97.05 L=170.60 H+F=5.00 D=99.50 SF	S
				9895 060	1895 060 94.60	3895 060		
				9895 100	1895 100 95.00	3895 100		

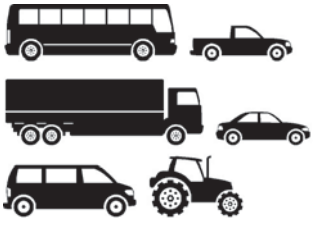
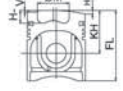
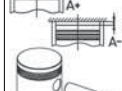


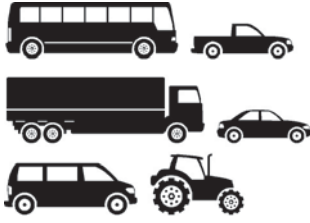


Diesel Engine	4	94.00	53.92 - -1.80 96.42	30.00 78.80	9895 000 2.000D CrP 2.000K IF P 4.000DY CrP	1893 000 94.00 Pist. Ç k nt s 1.58 mm Cont ... / +0.84 1.70 mm Cont ... / +0.84	3893 000	5892 000 K=97.05 L=170.60 H+F=3.90 D=99.50 SF	S
XD 3 P 2498 cm ³ 51.5 - 53 - 56 kW (70 - 73 - 76 PS) Vehicle 505, J 9 1982...									
								5893 000 K=97.05 L=170.60 H+F=5.00 D=99.50 SF	S
								5915 000 K=97.05 L=166.00 H+F=4.00 D=99.50 SF	S
					9895 040	1893 040 94.40	3893 040		
					9895 060	1893 060 94.60	3893 060		
					9895 100	1893 100 95.00	3893 100		
Diesel Engine XD 2/2 P 94 2304 cm ³ 51 kW (70 PS) Vehicle J 9,504 GRD, 505 SRD 1978...1981	4	94.00	57.42 - -2.00 99.92	30.00 78.80	9895 000 2.000D CrP 2.000K IF P 4.000DY CrP	1894 000 94.00	3894 000	5892 000 K=97.05 L=170.60 H+F=3.90 D=99.50 SF	S
Diesel Engine XD 2, XD 94 2304 cm ³ 46 - 53 kW (63 - 72 PS) Vehicle 504,505, J9 01/1981...1983	4								
								5893 000 K=97.05 L=170.60 H+F=5.00 D=99.50 SF	S
					9895 040	1894 040 94.40	3894 040		
					9895 060	1894 060 94.60	3894 060		
					9895 100	1894 100 95.00	3894 100		



Diesel Engine 8140 43S Euro 3, Sofim Hp 125 TCA Euro 3 2798 cm ³ 92 kW (125 PS) Vehicle Boxer 11/2000...04/2002	4	94.40	58.75 - -21.35 87.60 MØ=39.30 	32.00 72.00	9691 000 2.500T Cr 2.000K P 2.500DY Cr	1692 000 94.40 AP YS Pist. Ç k nt s 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70 1.50 mm Conta ile +0.71 / +0.80	3692 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9691 040	1692 040 94.80	3692 040		
					9691 060	1692 060 95.00	3692 060		
Diesel Engine 8140 23.3900 Euro 2 2798 cm ³ 77 - 85 kW (105 - 115 PS) Vehicle Boxer 09/2001...	4	94.40	58.75 - -19.45 87.60 MØ=39.30 	32.00 72.00	9691 000 2.500T Cr 2.000K P 2.500DY Cr	1691 000 94.40 AP YS Pist. Ç k nt s 1.20 mm Conta ile +0.40 / +0.50 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70	3691 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9691 040	1691 040 94.80	3691 040		
					9691 060	1691 060 95.00	3691 060		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 3.5 L EFI 3528 cm ³ Vehicle Discovery D 8 I / V 8 IS 1990...1993 Range Rover V 8 1986..1988 Range Rover VOYUE EFI 1985..1989 Range Rover VOYUE SE/EFI 1988.1989		8	88.86	47.371 - -2.362 77.089	22.22 72.796	9556 000 1.550D CrP 1.588K IW P 4.762DY CrP	1556 000 88.86	3556 000	
						9556 020	1556 020 89.36	3556 020	
						9556 040	1556 040 89.86	3556 040	
Benzin Engine 3.5 L EFI 3528 cm ³ Vehicle Discovery V 8I / V 8 IS 1990...1993 Range Rover 1986...1988 Range Rover VOYUE EFI 1985...1989 Range Rover VOYUE SE/EFI 1988..1989		8	88.86	47.371 - -5.207 77.089	22.22 72.796	9556 000 1.550D CrP 1.588K IW P 4.762DY CrP	1557 000 88.86	3557 000	
						9556 020	1557 020 89.36	3557 020	
						9556 040	1557 040 89.86	3557 040	



Ø mm	mm		mm	Ø mm		mm	

Benzin Engine

800/01/02/ A7, 670.800

845 cm³

25 - 26.5 kW (36 - 39 PS)

Vehicle

R 4, R 6/850, R 1123,
R2106, R4, R1090, R1094, R1095
R1120, R2104, R2130
R2391, Ondine, Ventoux,
Floride, Gordini, Estafette, R 4

1968...1986

800/10

845 cm³

25 - 26 - 26.5 kW (34 - 35.5 - 36 PS)

Vehicle

R 4 ,R 5, R 1221

1972...1986

4

58.00

5935 000

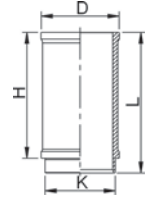
K=62.50

L=126.00

H+F=112.80

D=69.80

FF



Benzin Engine

689/10..

956 cm³

31.6 - 32.4 kW (43 - 44 PS)

Vehicle

R 5 , R 1222, R 2382,

1972...1979

Benzin Engine

C 1C 754

956 cm³

23.5 kW (37 PS)

Vehicle

Express

1985...

Benzin Engine

689/10

956 cm³

32.4 kW (44 PS)

Vehicle

R 5 (I)

1981...1985

4

65.00

5900 000

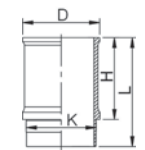
K=75.50

L=135.00

H+F=94.85

D=85.80

FF



1 P 75.5x82.6x0.08

1 P 75.5x82.6x0.12

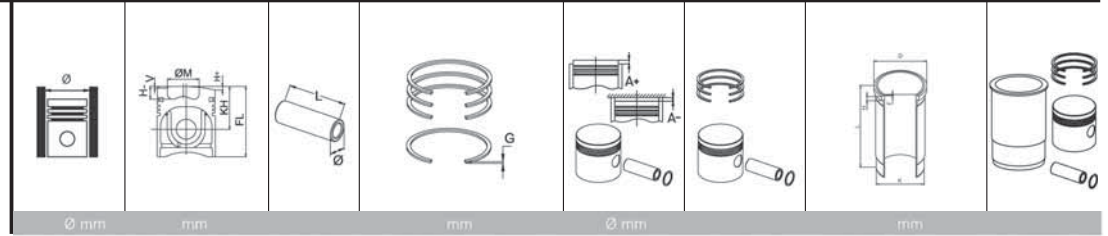
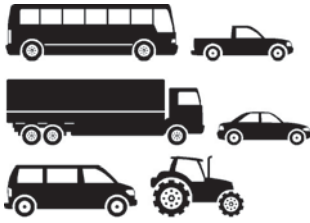
1 P 75.5x82.6x0.1

4

4

		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 810 05 1289 cm ³ 40 kW (54 PS) Vehicle R12 SW, R12 TL	4	73.00	37.50 - -1.60 62.50 MØ=50.00 	20.00 62.00	9903 000 1.750D 2.000K IF 4.000VF Cr P CrPSt	1902 000 73.00	3902 000	5902 000 K=78.50 L=134.00 H+F=94.85 D=87.65 FF 	7902 K,S
Benzin Engine 810 01/02/03/05/06 1289 cm ³ Vehicle R12 L/TL/LN/TN, R12 TR/TS, R15 TL/GTL, R5 GTL, R5 LS/TS 1971...1984 Benzin Engine 810 01 1289 cm ³ Vehicle R 5/12, R 1224, R 1330 1971...1984	4	73.00	37.50 - - 62.50 	20.00 62.00	9903 000 1.750D 2.000K IF 4.000VF Cr P CrPSt	1903 000 73.00	3903 000	5902 000 K=78.50 L=134.00 H+F=94.85 D=87.65 FF 	7903 K,S
Benzin Engine C 3 G 1269 cm ³ 40 kW (50 PS) Vehicle Twingo 1,2 1993...	4	74.00						5887 000 K=78.60 L=135.00 H+F=94.90 D=88.20 	

			Ø mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine 150 00-X 5 J 1360 cm³ 44 - 52 kW (61 - 71 PS) Vehicle R 14 1980...1984	4	75.00	40.50 - 65.50	19.50 65.00	9154 000 1.750D Cr 2.000K P 4.000DY Cr	2154 000 75.00	4154 000	5873 000 K=79.45 L=134.50 H+F=90.00 D=89.20 FF 1 VI 77.2x1.25	8154 K,S
Benzin Engine 129 A 700 129/145 00, XU 6 B 1218 cm³ 42 - 51 kW (57 - 71 PS) Vehicle R 14 L/LT/CTL/TS , R 1210, R 1212, R 1170, R 1330 1976...1983	4								
Benzin Engine E 6 J A700 1390 cm³ 59 kW (80 PS) Vehicle Clio 1.4 1988...	4	75.80	31.70 - 52.60	19.00 60.00	9909 000 1.500D Cr 1.750K IF 3.000VF CrPSt	1909 000 75.80	3909 000	5910 000 K=80.50 L=130.00 H+F=91.50 D=90.20 FF 1 VI 77.2x1.25	7909 K,S
Benzin Engine 847.2, 9.25:1 1397 cm³ 43 - 53 kW (59 - 72 PS) Vehicle R5, R 18, Fuego 1978...1987	4	76.00	37.50 - 64.00	20.00 64.00	9904 000 1.750D IF Cr 2.000K P 4.000VF CrPSt	1904 000 76.00	3904 000	5904 000 K=80.55 L=134.00 H+F=95.00 D=90.20 FF 1 VI 77.2x1.25	7904 K,S
Benzin Engine C 1 J,J 15, 9.25:1 1397 cm³ 43 - 53 kW (59 - 72 PS) Vehicle R9, R11 1981...1985	4								
Benzin Engine C 2 J L 17 C 2 9.25:1 1397 cm³ 43 - 53 kW (59 - 72 PS) Vehicle R 5 / 9 / 11 1981...	4								



Diesel Engine

K9K BP,
Common Rail

65 PS

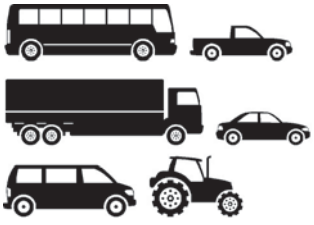
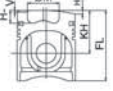
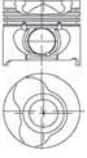
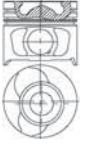
1500 cm³

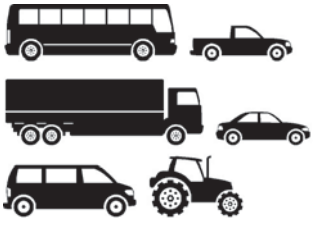
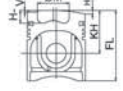
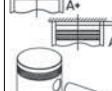
Vehicle

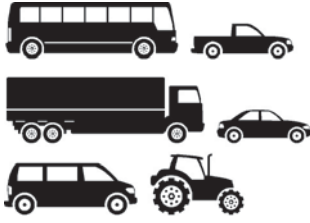
Clio Symbol 1.5 dci
Kango 1.5 dci

2002...

4	76.00	41.75 -0.20/-0.40 -13.95 66.00 MØ=39.70	26.00 60.00	9164 000 2.000D IF MoP 2.000K IFU P 2.500DY Cr	2164 000 76.00 AP Pist. Ç k nt s +0.25 / +0.30	4164 000	5936 000 K=79.10 L=142.00 H+F=5.00 D=81.00 SF	S
		41.55 -0.20/-0.40 -13.95 65.80 MØ=39.70		9164 000	2164 001 76.00	4164 001		
		41.75 -0.20/-0.40 -13.95 66.00 MØ=39.70		9164 050	2164 050 76.50	4164 050		
		41.55 -0.20/-0.40 -13.95 65.80 MØ=39.70		9164 050	2164 051 76.50	4164 051		
		41.75 -0.20/-0.40 -13.95 66.00 MØ=39.70		9164 100	2164 100 77.00	4164 100		
		41.55 -0.20/-0.40 -13.95 65.80 MØ=39.70		9164 100	2164 101 77.00	4164 101		

									
		Ø mm	mm		mm	Ø mm		mm	
Diesel Engine K9K 700/704, 18.8:1 Turbo Common Rail 48 kW (65 PS) 1461 cm ³		4	76.00	41.80 -0.25/-0.40 -14.00 66.00 MØ=39.65	25.00 60.00	9164 000 2.000D IF MoP 2.000K IFU P 2.500DY Cr	2162 000 76.00 AP	4162 000	
Vehicle Clio dCi 05/2001 Kangoo dCi 12/2001									
Diesel Engine K9K 702/722, 18.8:1 Turbo Intercooler, Common Rail 60 kW (82 PS) 1461 cm ³		4							
Vehicle Clio dCi 06/2001 Megane dCi 11/2002									
Diesel Engine K9K 728 Euro3 74 kW (100 PS) 1461 cm ³		4	76.00	41.80 -0.20 -13.70 66.00 MØ=39.60	26.00 60.00	9164 000 2.000D IF MoP 2.000K IFU P 2.500DY Cr	2175 000 76.00 AP YS Pist. Ç k nt s +0.25 / +0.30	4175 000	
Vehicle Scenic 1.5 DCI , Megane II 1.5 DCI, Clio II 1.5 DCI, Kango II 1.5 DCI 2004...									

									
		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	
Diesel Engine K9K 732 Euro 4 Turbo Intrcooled 18.8:1 1461 cm ³ 78 kW (106PS) Vehicle Megane II 1.5 dCi Megane II Coupe-Cabriolet 1.5 dCi Megane II Estate 1.5 dCi Megane II Saloon 1.5 dCi Scenic II 1.5 dCi 05.2005...	4	76.00	41.70 -0.43/-0.25 -12.80 66.00 MØ=49.00	26.00 60.00	9164 000 2.000D IF MoP 2.000K IFU P 2.500DY Cr	2181 000 76.00 AP YS Pist. Ç k nt s +0.25 / +0.30	4181 000	5936 000 K=79.10 L=142.00 H+F=5.00 D=81.00 SF	S
	4				9164 050	2181 050 76.50	4181 050		
	4								
	4								
Diesel Engine K9K 764 Euro 4 Turbo Intrcooled 15.6:1 1461 cm ³ 78 kW (106 PS) Vehicle Clio Grandtour 1.5 dCi Clio III 1.5 dCi Modus 1.5 dCi 05.2005...	4								
Diesel Engine K9K 780 Euro 4 Turbo Intercooled 15.6:1 1461 cm ³ 76 kW (103 PS) Vehicle Laguna III 1.5 dCi Laguna III Grandtour 1.5 dCi 10.2007...	4								
Diesel Engine K9K 804 Euro4 Turbo Intercooled 1461 cm ³ 78 kW (106 PS) Vehicle Kangoo 1.5 dCi Kangoo 1.5 dCi 110 02.2008...	4								
Diesel Engine K9K 806 Euro 4 FAP Turbo Intercooled 1461 cm ³ 76 kW (103 PS) Vehicle Kangoo 1.5 dCi Kangoo BE BOP 1.5 dCi Kangoo Express 1.5 dCi 02.2008...	4								



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm	mm

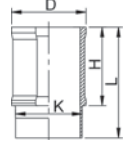
Benzin Engine

C 2L
1600 cm³
69 KW (94 PS)

Vehicle

R11 Rainbow, R9 Fairway ,
R21 Optima

4	77.00	34.00 - -1.95 60.50 MØ=65.00	20.00 64.00	9202 000 1.750D 2.000K IF 4.000VF	Cr P CrPSt	2202 000 77.00	4202 000	5897 000 K=80.90 L=134.00 H+F=95.00 D=90.20 FF	8202 K,S
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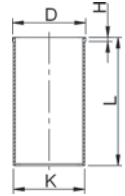
Diesel Engine

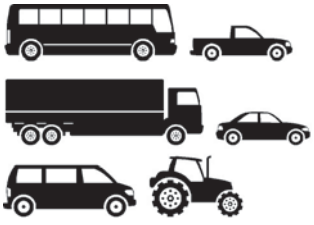
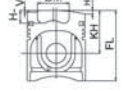
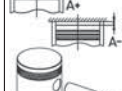
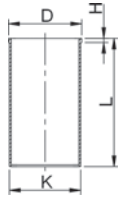
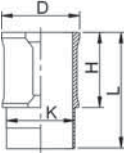
F 8 M/A 700
1596 cm³
40.5 kW (55 PS)

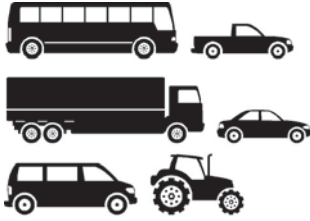
Vehicle

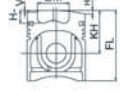
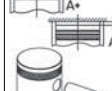
R 5 TD, R 9 TD, R 11 TD,
Express D
1983...1986

4	78.00	47.25 - -1.50 74.50	24.00 66.50	9906 000 2.000D 2.000K 3.000DY	Cr P Cr	1905 000 78.00	3905 000	5905 000 K=81.00 L=149.00 H+F=4.50 D=83.50 SF	S
						Pist. Ç k nt s 1.65 mm Conta ile 0 / +0.885 1.75 mm Conta ile +0.885 / +0.985 1.85 mm Conta ile +0.985 / +1.085			
				9906 025		1905 025 78.25	3905 025	5905 050 K=81.50 L=149.00 H+F=5.00 D=84.00 SF	
				9906 050		1905 050 78.50	3905 050		
				9906 100		1905 100 79.00	3905 100		



									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine F 8 M 730/736/760 D 720/730 1596 cm ³ 40.5 kW (55 PS) Vehicle R 5/R9/R11 TD Express 11/1985... 1988...	4	78.00	47.25 - -1.50 74.50	24.00 66.50	9906 000 2.000D CrP 2.000K IF P 3.000DY CrP	1906 000 78.00 Pist. Ç k nt s 1.65 mm Conta ile 0 / +0.885 1.75 mm Conta ile +0.885 / +0.985 1.85 mm Conta ile +0.985 / +1.085	3906 000	5905 000 K=81.00 L=149.00 H+F=4.50 D=83.50 SF	S
									
					9906 025	1906 025 78.25	3906 025	5905 050 K=81.50 L=149.00 H+F=5.00 D=84.00 SF	
					9906 050	1906 050 78.50	3906 050		
					9906 100	1906 100 79.00	3906 100		
Benzin Engine 841 25/26/C 7/D 7 1647 cm ³ 58 - 70.5 kW (76 - 96 PS) Vehicle R 18, Fuego R 135, P 1000 1978...1986	4	79.00	40.50 - - 66.00	21.00 69.00	9156 000 1.750D Cr 2.000K IF 4.000VF Cr	2156 000 79.00	4156 000	5899 000 K=83.95 L=144.00 H+F=92.60 D=95.90 FF	8156 K,S
									1 SI 81.5x1.2
Benzin Engine K 7 J 1390 cm ³ 55 kW (75 PS) Vehicle Clio Symbol 1.4i 8v 1996...	4	79.50	35.83 - - 58.00	19.00 62.00	9166 000 1.500D Mo 1.500TN 2.500SY	2169 000 79.50	4169 000		
					9166 050	2169 050 80.00	4169 050		



							
Ø mm	mm		mm		Ø mm		mm

Benzin Engine

K 7 M.702/703/720/744/745/746
1598 cm³
66 kW (90 PS)

Vehicle

Megane 1.6i , RL/RN/RT/RXE,
Megane Coupe, Megane Scenic
1996...

4	79.50	29.25 - +2.55 56.25	19.00 62.00	9166 000 1.500D Mo 1.500TN 2.500SY	2166 000 79.50 Cyl.3/4 to be used with 2167	4166 000		
				9166 050	2166 050 80.00	4166 050		
		29.25 - +2.55 56.25	19.00 62.00	9166 000 1.500D Mo 1.500TN 2.500SY	2167 000 79.50 Cyl.1/2 to be used with 2166	4167 000		
				9166 050	2167 050 80.00	4167 050		

Benzin Engine

K4M 708/752 4V KAT
1598 cm³
70 kW (95 PS)

Vehicle

Kangoo 1.6i , Clio II 1.6i
Kangoo 1.6i ,Scenic 1.6i
06/2000...

Benzin Engine

K4M 724/760 4V KAT
1598 cm³
75 - 77 kW (102 - 105 PS)

Vehicle

Laguna I 1.6i, 05/1998...02/2001
Megane II 1.6i 2002...
Scenic II 1.6i 2002...

Benzin Engine

K4M 700/701/704/706/709/710/711
/712/714/720/744/745/748 4V
1598 cm³
79 kW (107 PS)

Vehicle

Megane 1.6i, Scenic 1.6i, Laguna II
1.6i, Clio II 1.6i, Megane II 1.6i, Scenic
II 1.6i

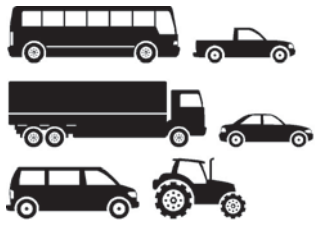
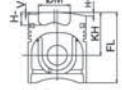
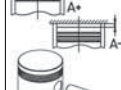
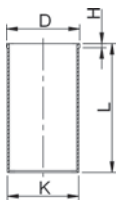
Benzin Engine

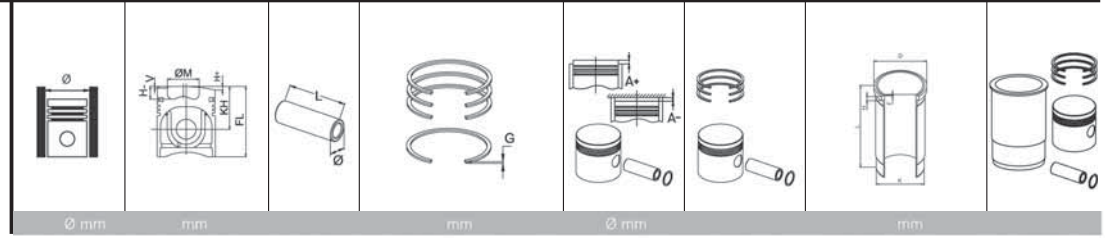
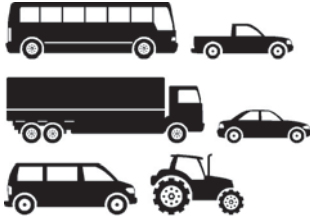
K4M 790 4V
1598 cm³
82 kW (112 PS)

Vehicle

Modus 1.6i 16V
09/2004...

4	79.50	31.70 - -1.30 55.00	20.00 62.00	9166 000 1.500D Mo 1.500TN 2.500SY	2171 000 79.50	4171 000		
				9166 050	2171 050 80.00	4171 050		
		31.70 - -1.30 55.00		9166 100	2171 100 80.50	4171 100		

									
	Ø mm	mm		mm		Ø mm		mm	
Benzin Engine K4M 760, 16 valves 1598 cm³ 85.76 kW (115 PS) Vehicle MEGANE II 1.6 16 V SEDAN Laguna II 1.6 16 V 11/2002...	4	79.50	31.70 -4.00 -1.50 55.00	20.00 62.00	9174 000 1.200D 1.500TN 2.500VF CrP P CrSt	2174 000 79.50 HA	4174 000		
Benzin Engine K4J-730/732/740/... , 16 Valves 10.0:1 1400 cm³ 73.1 kW (98 PS) Vehicle Megane II,Scenic II, Clio II, Clio III, Modus 16v 2004...	4	79.50	28.20 - - 64.50	20.00 62.00	9175 000 1.500D 1.500TN 2.500VF Mo P CrSt	2177 000 79.50	4177 000		
					9175 050	2177 050 80.00	9175 050		
Diesel Engine F 8 Q/F 8 QA 706 1870 cm³ 47 kW (64 PS) Vehicle Clio RL,RN,RT,GTD Societe R 19 Chamade TD,GTD,TDE, R 21 GSD,SD, Express 1.9D, Megana 1,,9D 1990...1996	4	80.00	42.35 - -0.70 70.50	24.00 63.00	9800 000 2.000D 2.000K IF 3.000DY MoP P CrP	2161 000 80.00 AP Pist. Ç k nt s 1.65 mm Conta ile 0 / +0.87 1.75 mm Conta ile +0.87 / +1.00 1.85 mm Conta ile +1.00 / ...	4161 000	5903 000 K=83.05 L=154.00 H+F=5.00 D=84.00 SF 	S
					9800 050	2161 050 80.50	4161 050	5903 050 K=83.50 L=154.00 H+F=5.50 D=85.50 SF	



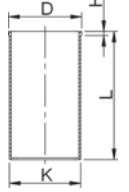
Diesel Engine

F8 Q-630/632/662

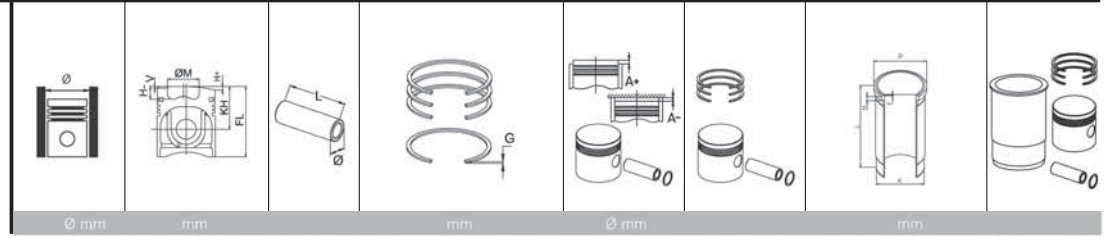
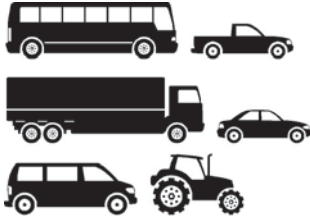
1870 cm³

Vehicle

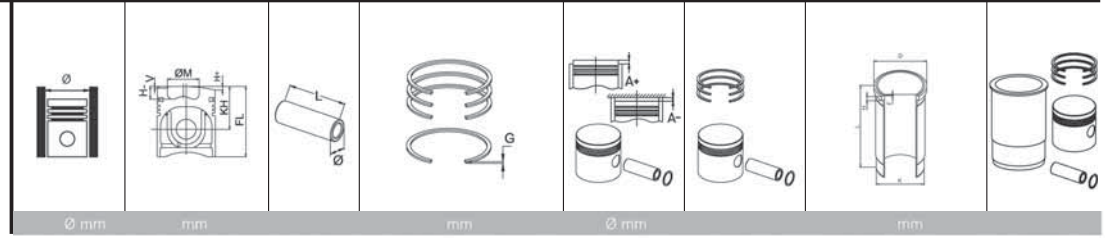
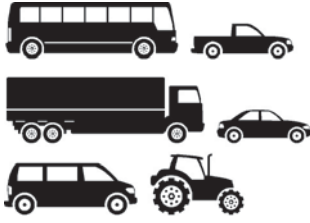
Kangoo 1.9D

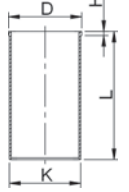
4	80.00	42.25 - -1.50/-4.30 75.25	24.00 63.00	9800 000 2.000D MoP 2.000K IF P 3.000DY CrP	2163 000 80.00 Pist. Ç k nt s 1.40 mm Conta ile +0.55 / +0.65 1.50 mm Conta ile +0.65 / +0.75 1.60 mm Conta ile +0.75 / +0.85	4163 000	5903 000 K=83.05 L=154.00 H+F=5.00 D=84.00 SF 	S
				9800 050	2163 050 80.50	4163 050	5903 050 K=83.50 L=154.00 H+F=5.50 D=85.50 SF	
				9800 100	2163 100 81.00	4163 100		

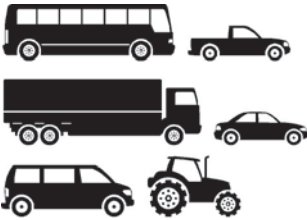
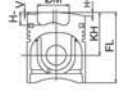
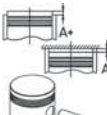
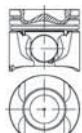
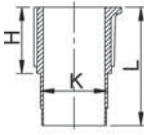
			Ø mm	mm	mm	Ø mm	mm	mm	mm	
Diesel Engine F 9Q 780/782/790, Turbo Intercool 1870 cm³ 72 kW (98 PS) Vehicle Kangoo 1.9 TDI 2000... Diesel Engine F9Q 731/732/733/736/738/744, Turbo Intercool 1870 cm³ 72 kW (98 PS) Vehicle Megane 1.9 TDI 1997... Diesel Engine F9Q 710/717/718, Turbo Intercool 1870 cm³ 72 kW (98 ps) Vehicle Laguna 1.9 TDI 1997... Diesel Engine F9Q 731/732/733/736/738/740/744/748/796, Turbo Intercool 1870 cm³ 72 kW (98 PS) Vehicle Scenic 1.9 TDI 1997... Diesel Engine F9Q 760/762, Turbo Intercool 1870 cm³ 74 kW (100 PS) Vehicle TRAFIC II 1.9 TDI 2003...	4	80.00	47.10 -0.75 -17.70 77.00 MØ=38.00 	28.00 60.00	9165 000 2.500 D IF Mo 2.000 K IFU 3.000 DY Cr	2165 000 80.00 AP Pist. Ç k nt s +0.86 / +1.00	4165 000	5903 000 K=83.05 L=154.00 H+F=5.00 D=84.00 SF 	S	
	4								5903 050 K=83.50 L=154.00 H+F=5.50 D=85.50 SF	
	4				9165 025	2165 025 80.25	4165 025			
	4				9165 050	2165 050 80.50	4165 050			
	4									

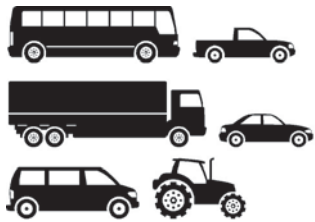
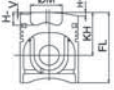
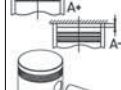
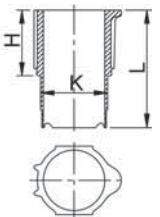
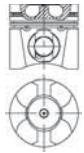
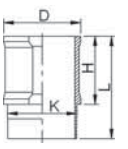
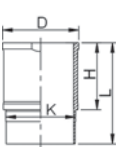


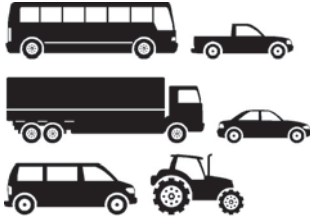
Diesel Engine F8Q 630/622/722/724/732/762/774/776 1870 cm ³ 47 - 50 kW (55 - 65PS) Vehicle Clio I 1.9 D, Kangoo 1.9 D, Megane 1.9 D, R 19, R 21 03.1993...06.1998 / 06.19	4	80.00	42.50 - -0.70 70.50	24.00 63.00	9800 000 2.000D MoP 2.000K IF P 3.000DY CrP	2170 000 80.00 AP	4170 000	5903 000 K=83.05 L=154.00 H+F=5.00 D=84.00 SF 	S
					9800 050	2170 050 80.50	4170 050	5903 050 K=83.50 L=154.00 H+F=5.50 D=85.50 SF	
					9800 080	2170 080 80.80	4170 080		
Diesel Engine F9Q 1870 cm ³ 66 - 68 - 81 - 88 kW (92 - 95 - 110 - 120 PS) Vehicle Clio III 1.9 dCi Espace IV 1.9 dCi Grand Scenic II 1.9 dCi Laguna Grandtour II 1.9 dCi Laguna II 1.9 dCi Megane Grandtour 1.9 dCi Megane II 1.9 dCi Scenic II 1.9 dCi 03.1999...	4	80.01	47.04 -0.75 -17.80 77.00 MØ=38.00	28.00 60.00	9165 000 2.500D IF Cr 2.000K IFU Cr 3.000DY Cr	2183 000 80.010 AP YS	4183 000		
					9165 050	2183 050 80.51	4183 050		
Benzin Engine F 2N 752, F 2N 742 Motor Nr. C00 2642... 1721 cm ³ 55 kW (75 PS) Benzin Engine F 3N 702 Motor nR. C 00 3501... 1721 cm ³ 55 kW (75 PS) Vehicle R5, R9, R11, R19, R21, R5/R9/R11/R19/R21 (USA) 1985...	4	81.00	44.20 - -14.26 70.20	21.00 65.00	9158 000 1.750D CrP 2.000K P 3.000DY Cr	2246 000 81.00	4246 000	5906 000 K=85.05 L=151.00 H+F=5.00 D=86.05 SF 	S
	4				9158 025	2246 025 81.25	4246 025		
					9158 050	2246 050 81.50	4246 050		



Benzin Engine F2N 732//742/753, F3N C 722/J 702 55 kW (75 PS) 1721 cm ³ Vehicle Flash 11 GTX/TXE, R 5 GTE, R 9 GTX/TXE, R 21 Electronic 1985...	4	81.00	44.20 - -14.26 70.20 MØ=60.00	21.00 65.00	9158 000 1.750D CrP 2.000K P 3.000DY Cr	2158 000 81.00	4158 000	5906 000 K=85.05 L=151.00 H+F=5.00 D=86.05 SF 	S
					9158 025	2158 025 81.25	4158 025		
					9158 050	2158 050 81.50	4158 050		
Benzin Engine F3R 722/723/728/729 83 kW (113 PS) 1998 cm ³ Vehicle Laguna 1994...2001 Benzin Engine F3R 791/796 80 kW (109 PS) 1998 cm ³ Vehicle Megane 2.0i, Megane Classic 2.0i, Megane Grandtour 2.0i, Scenic 2.0i 1999... Laguna 1994...03/2001 Benzin Engine F3R 797/798 84 kW (114 PS) 1998 cm ³ Vehicle Megane 2.0i, Megane Classic 2.0i, Megane Grandtour 2.0i, 1997...2003	4	82.70	36.12 - -9.08 60 MØ=67.00	21.00 57.00	9176 000 1.500D CrP 1.750TN P 3.000SY P	2176 000 82.70	4176 000		
	4				9176 025	2176 025 82.95	4176 025		
					9176 050	2176 050 83.20	4176 050		
Benzin Engine F4R 740/741/744/780 16 Valves 103 kW (140 PS) 1948 cm ³ Vehicle LAGUNA 2.0, MEGANE SCENIC 2.0 Benzin Engine F4R 712/713/787 16 Valves, 9.5:1 125 kW (170 PS) 1998 cm ³ Vehicle LAGUNA II 2.0	4	82.70	30.30 -1.60 / -2.00 -2.60 56.80	21.00 61.00	9102 000 1.200D Cr 1.500TN P 2.000VF CrP	2178 000 82.70	4178 000		
	4				9102 050	2178 050 83.20	4178 050		

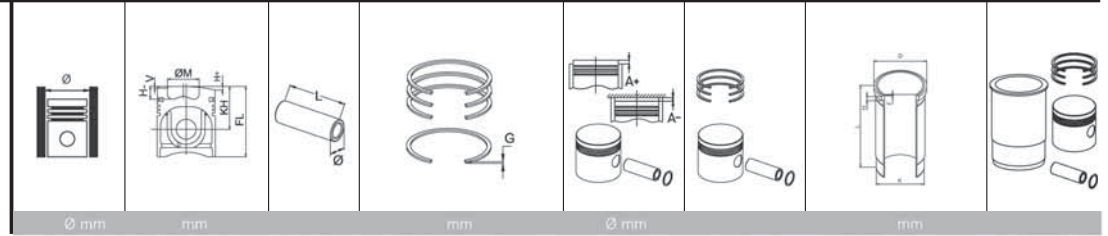
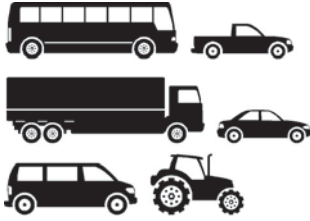
								
	Ø mm	mm		mm		Ø mm	mm	
Benzin Engine N7Q 704, Enjeksiyonlu, 16 Valves 1948 cm ³ 100-102 kW (136-139 PS) Vehicle Laguna I 2.0i 16v, Safrane 1996...	4	83.00	35.90 -1.30 -0.75 60.65 	23.00 61.00	9161 000 1.200D IF Cr 1.500K IW P 2.500VF CrP 9161 050	2179 000 83.00 2179 050 83.50	4179 000 4179 050	
Diesel Engine M9R 2000 cm ³ 66 - 84 - 110 - 127 - 132 kW (90 - 114 - 150 - 175 PS) Vehicle Espace IV 2.0 dCi 16V Grand Scenic II 2.0 dCi 16V Koleos 2.0 dCi 16V Laguna Grandtour 2.0 dCi 16V Laguna II 2.0 dCi 16V Laguna III 2.0 dCi 16V Megane Grandtour 2.0 dCi 16V Megane II 2.0 dCi 16V Megane III 2.0 dCi 16V Scenic II 2.0 dCi 16V Trafic 2.0 dCi 16V Trafic II 2.0 dCi 16V Vel Satis 2.0 dCi 16V 2001...	4	84.00	47.916 - -14.90 76.00 MØ=49.07 	32.00 65.00	9171 000 2.500TT Cr 2.000TN P 2.000DY CrSt 9171 050	2182 000 84.00 AP YS 2182 050 84.50	4182 000 4182 050	
Diesel Engine 852 A 700, 852 B 710 ,852 720/750 J 8 S 3330, J 8 S 704 2068 cm ³ 47 - 49.5 kW (64 - 67 PS) Vehicle R 18,R 20,R 21,R 25, R 1344, R 1354,R 2354, R 1275, Trafic P/T 313,P 323,T 423, PA 32,PA 93, T 800 D, P/T1000 D, P/T 1200 D, P 14400 D 1985... Master 1979... Nevada 1988...1995	4	86.00	51.00 - -4.20 92.90 	28.00 75.00	9907 000 2.000D MoP 2.000K 4.000DY Cr	1907 000 86.00	3907 000   1 VI 90.8x1.25 1 SI 87x90.7x8.2 5908 000 K=93.55 L=166.00 H+F=93.05 FF 1 VI 90.8x1.25 1 SI 87x90.7x8.2	5907 000 K=93.55 L=166.00 H+F=93.05 FF 7907 K,S 7911 K,S

									
	Ø mm	mm		mm		Ø mm		mm	
Diesel Engine J 8 S 708/712/714 2068 cm³ 62 - 65.5 kW (85 - 87 PS) Vehicle R18 TD, R 20 TD, R 21 TD, T 25 TD, R 30 TD, Fuego TD, Escape TD 1981... Nevada 1988...1995	4	86.00	50.99 - -4.00 93.00 	28.00 75.00	9908 000 2.500T MoP 2.500N 4.000DY Cr	1908 000 86.00 AP	3908 000	5908 000 K=93.55 L= 166.00 H+F=93.05 FF  1 VI 90.8x1.25 1 SI 87x90.7x8.2	7908 K,S
Diesel Engine G9T 710 - 720 - 722 - 750 Turbo, Intercooler 2188 cm³ 110 kW (150 PS) Vehicle Mastr 2.2 TDCI 16V, Espace IV 2.2 TDC, Laguna 2.2 TDCI, Velsatis 2.2 TDCI 2000...	4	87.00	54.53 -1.60/-2.00 -17.50 84.20 MØ=40.40 	31.00 65.00	9170 000 3.000TT Mo 1.750K P 2.500SY P	2180 000 87.00 AP	4180 000		
					9170 050	2180 050 87.50	4180 050		
Benzin Engine 829.00/01/702 1995 cm³ 79 kW (104 PS) Vehicle R18 ,R 1363,R 20, R135 300 Fuego 111979...1985 Benzin Engine 829 E 7, J 5 R A 7 1995 cm³ 61 kW (85 PS) Vehicle Trafic P 862,P 1200,P 1400 1983.00 Benzin Engine J 6 R 1995 cm³ 75.5 - 81 kW (103 - 110 PS) Vehicle R 25, Espace 2000,2001-1 1983...	4	88.00	40.50 - +1.50 67.00 	23.00 75.00	9160 000 1.750D CrP 2.000K 4.000VF CrP	2160 000 88.00	4160 000	5909 000 K=93.53 L= 140.50 H+F=93.10 D=104.00 FF 	8160 K,S
	4							5888 000 K=93.60 L= 148.50 H+F=93.06 D=104.00 FF 	7097 K,S

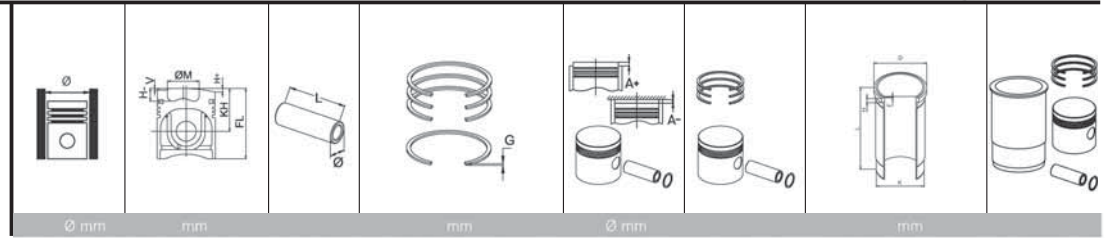
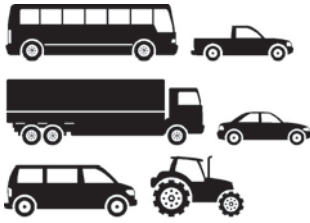


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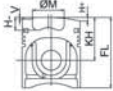
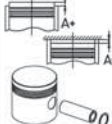
Diesel Engine G9U 730 Common Rail 2463 cm ³ 99 kW (135 PS) Vehicle Trafic IV 2.5 dCi 16V, 06/2002... Diesel Engine G9U 720/724/730/750/754, Common Rail 2463 cm ³ 84 kW (115 PS) Vehicle Master II 2.5 dCi, Master 2.5 dCi 120 05/2000...	4	89.00	53.03 -1.65/-1.90 -17.85 83.09 MØ=43,20	31.00 65.00	9159 000 2.500D IF MoP 1.750K IFU P 2.500DY CrP	2159 000 89.00 AP Pist. Ç k nt s +0.50 / +0.60	4159 000		
	4				9159 050	2159 050 89.50	4159 050		
Diesel Engine 8140 47.2700 Euro 1, 8140 47.2711 Euro 1, 8140 47.2721 Euro 1, 8140 47.2785 Euro 1, S 9 U 714 2499 cm ³ 85 kW (115 PS) Vehicle Master Diesel Engine S 9 U 714 2499 cm ³ 80 - 84.50 kW (109 - 115 PS) Vehicle Master 1989...	4	93.00	58.75 - -18.40 96.75 MØ=38.00	32.00 78.00 PDB	9689 000 3.00 T CrP 2.00 TN P 3.00 DY CrP	1687 000 93.00 AP YS	3687 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF	S
	4				9689 040	1687 040 93.40	3687 040		
					9689 060	1687 060 93.60	3687 060		
Diesel Engine 8140 58 U, 8140 68 U, S 8 U 720, S 8 U 722, S 8 U 730, S 8 U 731 2445 cm ³ 49-53 kW, (67-72 PS) Vehicle Master T28 2.4 D 09/1980...09/1997 Master T30 2.4 D, Master T35 2.4 D 08/1980...08/1989 Trafic 2.4 D 01/1981...12/1986 Trafic 2.5 D 09/1980...02/1989	4	93.00	55.00 - -2.20 90.00	32.00 75.00	9686 000 3.000D Cr 2.000TN P 4.000DY Cr	1686 000 93.00 AP HA	3686 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF	S
					9686 040	1686 040 93.40	3686 040		
					9686 060	1686 060 93.60	3686 060		



Diesel Engine 8140 27.2700 2499 cm ³ 68 kW (92 PS) Vehicle B 90, Master 1990...1993	4	93.00	58.75 - -18.00 96.75 MØ=38.00 	32.00 78.00 PDB	9689 000 3.00 T CrP 2.00 TN P 3.00 DY CrP	1685 000 93.00 AP	3685 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF 	
					9689 040	1685 040 93.40	3685 040		
					9689 060	1685 060 93.60	3685 060		
Diesel Engine Sofim 2.5 Düz Dogal Emisli 2499 cm ³ 62 kW (85 PS) Vehicle Master 2.5D	4	93.00	54.00 - -2.20 89.00 	32.00 68.00	9689 000 3.000T CrP 2.000TN P 3.000DY CrP	1684 000 93.00 AP HA	3684 000	5400 000 K=96.00 L=167.00 H+F=5.00 D=98.90 SF 	S
Diesel Engine 8140,43,3700 Euro 2 2798 cm ³ 85 kW (115 PS) Vehicle Master 1996...	4	94.40	58.75 - -19.45 96.75 MØ=39.30 	32.00 78.00	9690 000 3.000T CrP 2.000K IWU P 3.000DY CrP	1690 000 94.40 AP YS Pist. Ç k nt s 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70 1.50 mm Conta ile +0.71 / +0.80	3690 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
					9690 060	1690 060 95.00	3690 060		



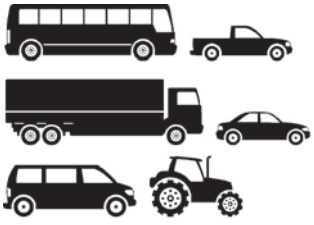
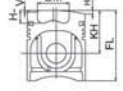
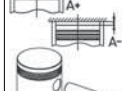
Diesel Engine 8140 43S Euro 3, Sofim Hp 125 TCA Euro 3 2798 cm ³ 92 kW (125 PS) Vehicle Mascott 130 10/2001...07/2004	4	94.40	58.75 - -21.35 87.60 MØ=39.30 	32.00 72.00	9691 000 2.500T Cr 2.000K P 2.500DY Cr	1692 000 94.40 AP YS Pist. Ç k nt s 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70 1.50 mm Conta ile +0.71 / +0.80	3692 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
Diesel Engine 8140 43.3700 Euro 2 2798 cm ³ 85 kW (115 PS) Vehicle Master 1996...	4	94.40	58.75 - -19.45 87.60 MØ=39.30 	32.00 72.00	9691 000 2.500T Cr 2.000K P 2.500DY Cr	1691 000 94.40 AP YS Pist. Ç k nt s 1.20 mm Conta ile +0.40 / +0.50 1.30 mm Conta ile +0.51 / +0.60 1.40 mm Conta ile +0.61 / +0.70	3691 000	5453 000 K=97.50 L=167.00 H+F=5.10 D=100.90 SF 	S
Diesel Engine D 325 1700 cm ³ 24 kW (33 PS) Diesel Engine D 325 2550 cm ³ 26.7 kW (37 PS) Diesel Engine D 325 3400 cm ³ 50 kW (68 PS) Diesel Engine D 325 5100 cm ³ 75 kW (102 PS) Vehicle R50,R 7213,R 53,R 7211, R 56,R7223,R546,R 7281,R80, R7282,R82,R7288,R486,R361, R94,R7611,R91,R7641,R98, R7651,R438	2 3 4 6	95.00	59.80 - -17.50 112.80 MØ=57.50 	32.00 82.00	9670 000 3.000TT CrP 3.000D IF P 3.000N 5.000DY CrP	1670 000 95.00	3670 000	5670 000 K=105.91 L=211.00 H+F=8.07 D=114.00 FF PHS 2 R 105x4	7670 K,S
					9670 050	1670 050 95.50	3670 050		

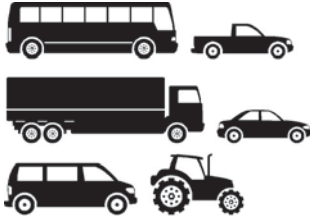
								
	Ø mm	mm		mm	Ø mm		mm	

Benzin Engine K 16 18 K 16 1589 cm ³ Vehicle 216 SI/SLI 218 16v I5 220 VI 420 I/SI/SLI	4	80.00	22.70 -2.30/2.50 -0.525 45.65 MØ=68.00 	18.00 52.60	9544 000 1.000D Cr 1.200TN P 2.000VF Cr	1544 000 80.00	3544 000	5497 000 K=84.10 L=129.50 H+F=50.03 D=87.50 FF 	7544 K,S
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SEAT

Benzin Engine ALL, 8 Valves 10.7:1 999 cm ³ 37 kW (50 PS) Vehicle Arosa 1.0i 08/1997...05/1999 Benzin Engine AER, 8 Valves 10.5:1 999 cm ³ 37 kW (50 PS) Vehicle Arosa 1.0i 02/1997...09/1999 Cordoba 1.0i 06/1997...06/1999 Ibiza 1.0i 09/1996...06/1999	4	67.10	31.25 - -5.65 56.27 MØ=51.50 	17.00 48.00	9312 000 1.000D Cr 1.200K P 2.000SY Cr 9312 050	2322 000 67.10 2322 050 67.60	4322 000 4322 050		
Benzin Engine 1,3 1472 cm ³ 40 kW (54 PS) Vehicle Ibiza 1989... Benzin Engine 2G 1272 cm ³ 40 kW (54 PS) Vehicle Cordoba 02/1993...07/1991 Ibiza 03/1993...07/1994	4	75.01	42.87 -1.50/-1.65 -16.60 69.87 	20.00 54.00	9299 000 1.750D IF CrP 2.000TN P 3.000UB CrP 9299 025 9299 050 9299 075	1299 000 75.01 1299 025 75.26 1299 050 75.51 1299 075 75.76	3299 000 3299 025 3299 050 3299 075		
Benzin Engine ALM 9.8:1 1598 cm ³ 55 kW (75 PS) Vehicle Cordoba, Ibiza, Inca 1997...2002	4	76.50	30.85 - -8.00 60.40 	17.00 52.00	9302 000 1.200D CrP 1.500K P 2.500VF CrP	2321 000 76.50	4321 000		

									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine ABU 1598 cm ³ 55 kW (75 PS) Vehicle Cordoba Ibiza 03/1993...09/1999	4	76.51		32.00 - -8.70 54.00 17.00 52.00	9300 000 1.500D Cr 1.500TN P 2.500SY P	1300 000 76.51	3300 000		
					9300 025	1300 025 76.76	3300 025		
					9300 050	1300 050 77.01	3300 050		
					9300 075	1300 075 77.26	3300 075		
Benzin Engine 1.4 Katalysator, 16 Valve 1390 cm ³ 55 - 74 kW (75 - 101 PS) Vehicle Cordoba 1.4i, Ibiza 1.4i, Inca 1.4i, 04.1996... Leon 1.4i 1999...	4	76.51		28.92 -2.32 -1.98 49.92 MØ=61.90 17.00 54.00	9305 000 1.200D St 1.500K P 2.500SY P	2304 000 76.51	4304 000		
					9305 050	2304 050 77.01	4304 050		
Benzin Engine AFH Katalysator, 16 Valve 1390 cm ³ 74 kW (100 PS) Vehicle Arosa 1.4i, Cordoba 1.4i 1996... Ibiza 1.4i 1995...	4								
Benzin Engine AHW, APE Katalysator, 16 Valve 1390 cm ³ 55 kW (75 PS) Vehicle Leon 1.4i, Toledo 1.4i 07.1999...	4								
Benzin Engine AUA Katalysator, 16 Valve 1390 cm ³ 55 kW (75 PS) Vehicle Ibiza 1.4i 05.2000...	4								
Benzin Engine BBZ Katalysator, 16 Valve 1390 cm ³ 74 kW (100 PS) Vehicle Cordoba 1.4i, Ibiza 1.4i 01.2002...	4								



Ø mm	mm	mm	mm	Ø mm	Ø mm	mm	mm

Diesel Engine

AMF

1422 cm³

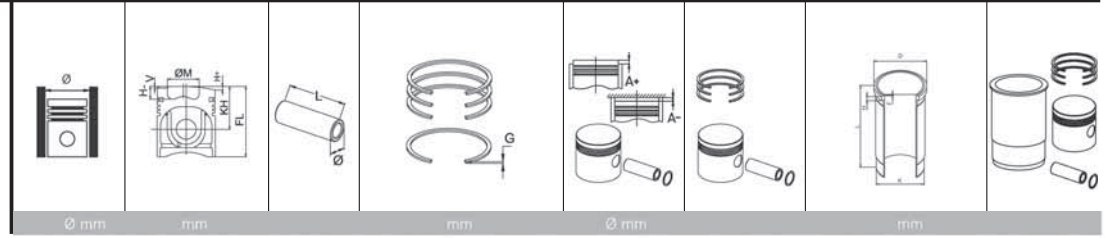
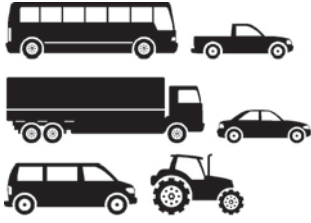
55 kW (75 PS)

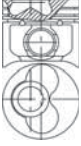
Vehicle

Cordoba 1.4 TDI, Ibiza 1.4 TDI

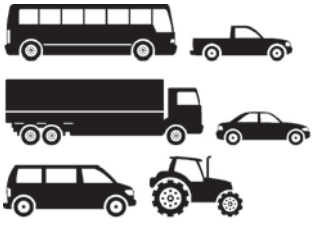
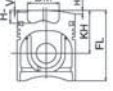
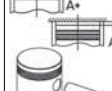
2002...

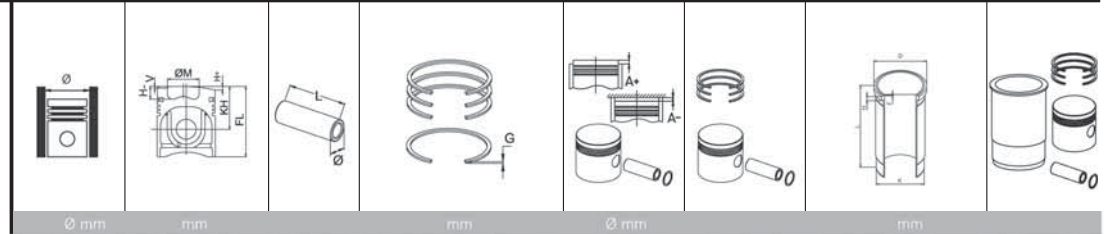
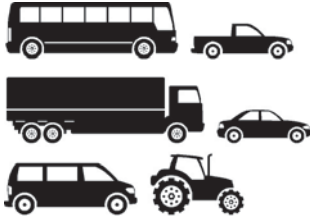
3	79.50	45.80 -1.10 -17.65 69.80 MØ=37.80	26.00 63.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2311 000 79.50 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.53 mm Conta ile +0.81 / +0.96 1.57 mm Conta ile +0.96 / +1.01 1.61 mm Conta ile +1.01 / +1.03	4311 000		
				9309 050	2311 050 80.00	4311 050		
		45.80 -1.10 -17.65 69.80 MØ=37.80	26.00 63.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2312 000 79.50 AP Cyl. 3 to be used with 2311	4312 000		
				9309 050	2312 050 80.00	4312 050		

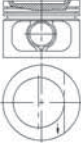


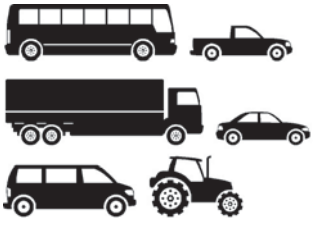
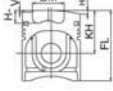
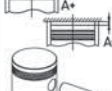
Diesel Engine 1Z, AGR-ALH, AHU 1896 cm ³ 66 kW (90 PS) Vehicle Cordoba, Ibiza, Toledo, Leon, Alhabmra 1996... Diesel Engine AFN, AHF 1896 cm ³ 81 kW (110 PS) Vehicle Cordoba, Ibiza, Toledo, Leon, Alhabmra 1996...	4	79.51	45.80 -1.10 -17.65 71.80 MØ=37.90 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2301 000 79.51 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.Çentik 1.45 mm Conta ile +0.91 / +1.00 2.Çentik 1.53 mm Conta ile +1.01 / +1.10 3.Çentik 1.61 mm Conta ile +1.10 / +1.20	4301 000		
	4				9309 025	2301 025 79.76	4301 025		
		45.55 -1.10 -17.65 71.55 MØ=37.90			9309 050	2301 050 80.01	4301 050		
					9309 100	2301 100 80.51	4301 100		
		45.80 -1.10 -17.65 71.80 MØ=37.90 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2302 000 79.51 AP Cyl. 3/4 to be used with 2301	4302 000			
					9309 025	2302 025 79.76	4302 025		
		45.55 -1.10 -17.65 71.55 MØ=37.90			9309 050	2302 050 80.01	4302 050		
					9309 100	2302 100 80.51	4302 100		

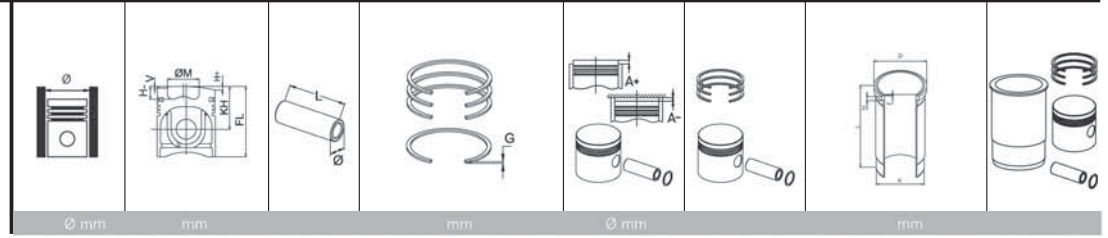
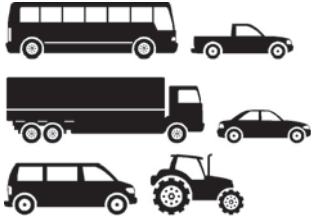
		Ø mm	mm	mm	Ø mm	mm	mm	mm	
Diesel Engine AAZ 1896 cm³ 55 kW (75 PS) Vehicle Cordoba 09/1993 Ibiza 03/1993...08/1996 Toledo 05/1991...12/1997	4	79.51	45.65 - -1.90 71.70	26.00 66.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1302 000 79.51 AP HA Pist. Ç k nt s 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3302 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
Diesel Engine ABL 1896 cm³ 50 kW (68 PS) Vehicle Ibiza Toledo 01/1991...	4				9309 025 9309 050 9309 100	1302 025 79.76 1302 050 80.01 1302 100 80.51	3302 025 3302 050 3302 100		
Diesel Engine 1.9, 1Y 1896 cm³ 47 kW (67 PS) Vehicle Ibiza, Cordoba, Ibiza, Inca, Toledo 1993...	4	79.51	39.65 - -1.90 65.65	24.00 64.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1309 000 79.51 AP Pist. Ç k nt s 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3309 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
Diesel Engine 1.9 1896 cm³ 50 kW (68 PS) Vehicle Toledo 03/1993...	4				9309 025 9309 050 9309 100	1309 025 79.76 1309 050 80.01 1309 100 80.51	3309 025 3309 050 3309 100		

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine ASZ, BLT, AVF, AWX, BUK, ARL Turbo Intercooled PDI, 19.5:1, 8 Valves 1900 cm ³ 96 kW (131 PS) Vehicle Ib za 1.9 TDi, Cordoba 1.9 TDi, Alhambra 1.9 TDi 2002... Leon 1.9 TDi, Toledo 1.9 TDi 2003...	4	79.51	45.80 -1.10 -17.90 68.00 MØ=38.00	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2314 000 79.510 AP YS Cyl.3/4 to be Pist. Ç k nt s used with 2313	4314 000		
	4				9309 050	2314 050 80.01	4314 050		
	4								
Diesel Engine ASZ, BLT, AVF, AWX, BUK, ARL Turbo Intercooled PDI, 18.5:1, 8 Valves 1900 cm ³ 110 kW (150 PS) Vehicle Leon 1.9 TDi 2001...	4								
	4								
	4								
Diesel Engine ASZ, BLT, AVF, AWX, BUK, ARL Turbo Intercooled PDI, 18.5:1, 8 Valves 1900 cm ³ 59 kW (80 PS) Vehicle Toledo 1.9 TDi 2000...	4	79.51	45.80 -1.10 -17.90 68.80 MØ=38.00	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2313 000 79.51 AP YS Cyl.1/2 to be Pist. Ç k nt s 1.45 mm Conta ile +0.91 / +1.00 1.53 mm Conta ile +1.01 / +1.03 1.61 mm Conta ile +1.11 / +1.20	4313 000		
	4				9309 050	2313 050 80.01	4313 050		
	4								
Diesel Engine ASZ, BLT, AVF, AWX, BUK, ARL Turbo Intercooled PDI, 18.5:1, 8 Valves 1900 cm ³ 59 kW (80 PS) Vehicle Toledo 1.9 TDi 2000...	4								
	4								
	4								

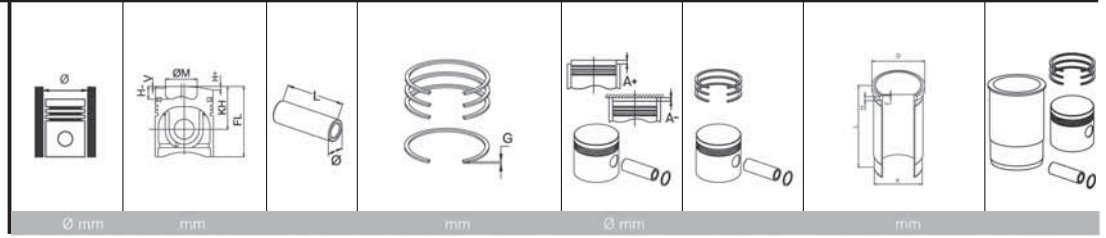
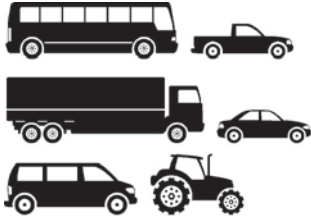


Benzin Engine 1,6 1595 cm ³ 53 - 55 kW (72 - 75 PS) Vehicle Ibiza Toledo 03/1991...	4	81.01	35.60 - + 2.20/-2.30 66.80 MØ=62.60 	20.00 57.00	9307 000 1.500D IF CrP 1.750TN P 3.000DY CrP	1308 000 81.01	3308 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	S
			35.30 - + 2.20/-2.30 66.50 MØ=62.60		9307 025	1308 025 81.26	3308 025		
					9307 050	1308 050 81.51	3308 050		
					9307 075	1308 075 81.76	3308 075		
					9307 100	1308 100 82.01	3308 100		
Benzin Engine 1.8 1781 cm ³ 66 kW (90 PS) Vehicle Ibiza, Toledo 03/1993...	4	81.01	32.20 - + 1.30/-4.40 62.50 MØ=56.00 	20.00 57.00	9307 000 1.500D IF CrP 1.750TN P 3.000DY CrP	1307 000 81.01	3307 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	S
			31.90 + 1.30/-4.40 - 62.20 MØ=56.00		9307 025	1307 025 81.26	3307 025		
					9307 050	1307 050 81.51	3307 050		
					9307 100	1307 100 82.01	3307 100		
Benzin Engine KT, PB 1781 cm ³ 82 kW (112 PS) Vehicle Cordoba, Ibiza, Toledo 1991...	4								
Benzin Engine PF 1781 cm ³ 75 kW (105 PS) Vehicle Cordoba, Ibiza, Toledo 1991...	4								

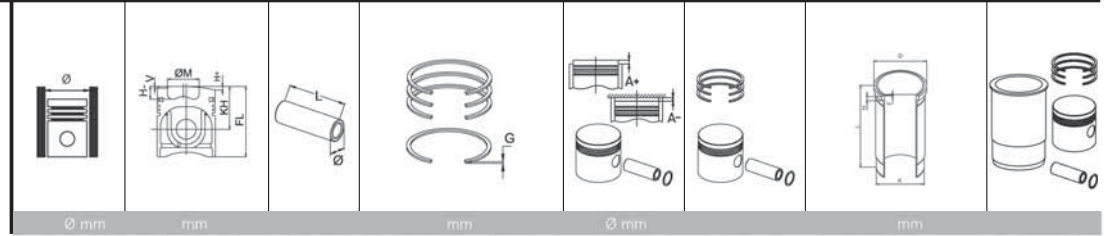
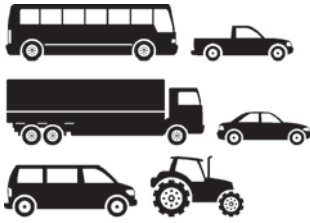
									
		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	
Benzin Engine AFT, AKL, AUR 1595 cm ³ 74 kW (101 PS) Vehicle Cordoba 1.6i, Ibiza 1.6i 09/1995...06/1999 Toledo 1.6i 09/1996...03/1999 Cordoba 1.6i, Ibiza 1.6i 06/1999...08/2002 Leon 1.6i 11/1999...10/2005 Toledo 1.6i 10/1998...07.2004 Cordoba 1.6i, Ibiza 1.6i 07/2000...08/2002	4	81.01	32.00 +0.70 -2.30 53.70 MØ=61.40 	20.00 57.00	9107 000 1.200D StNt 1.500TN P 2.000VF CrSt	2307 000 81.01	4307 000		
			31.70 +0.70 -2.30 53.40 MØ=61.40 		9107 025	2307 025 81.26	4307 025		
					9107 050	2307 050 81.51	4307 050		
Benzin Engine ARY / AUQ Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,5:1 1781 cm ³ 132 kW (180 PS) Vehicle Leon 1.8i Turbo 20V Toledo 1.8i Turbo 20V 1999...	4	81.01	32.70 - -1.90 53.70 MØ=68.00 	19.00 50.00	9296 000 1.500D CrP 1.750TN P 2.000VF CrP	2299 000 81.01 HA	4299 000		
					9296 025	2299 025 81.26	4299 025		
					9296 050	2299 050 81.51	4299 050		
Benzin Engine APP Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,5:1 1781 cm ³ 132 kW (180 PS) Vehicle Leon 1.8i Turbo 20V Toledo 1.8i Turbo 20V 1999...01/2001	4								
Benzin Engine BJX Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,5:1 1781 cm ³ 110 kW (150 PS) Vehicle Ibiza 1.8i Turbo 20V 12/2003...	4								

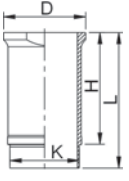
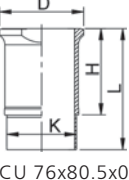
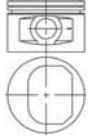
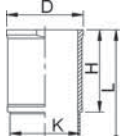


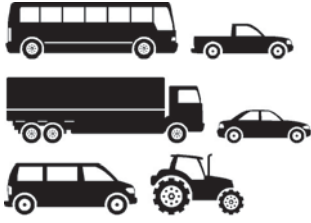
Diesel Engine BKD,Turbo 1968 cm ³ 103 kW (140 PS) Vehicle ALTEA 2.0 TDI 03/2004... LEON 2.0 TDI 07/2003... TOLEDO III 2.0 TDI 04/2004...05/2009	4	81.01	45.80 - -17.80 68.80 MØ=38.00 	26.00 66.00 PDB	9298 000 1.750 D CKP 2.000 K IFU P 3.000 DY CrP	2298 000 81.01 AP YS	4298 000		
Diesel Engine AZV,Turbo 1968 cm ³ 100 kW (136 PS) Vehicle ALTEA 2.0 TDI 03/2004...05/2009 ALTEA 2.0 TDI 11/2006...03/2009 LEON 2.0 TDI 07/2005...05/2010 TOLEDO III 2.0 TDI 09/2004...05/2009	4		45.80 - -17.80 68.80 MØ=38.00		9298 050	2298 050 81.51	4298 050		
Diesel Engine BMN,Turbo 1968 cm ³ 125 kW (170 PS) Vehicle ALTEA 2.0 TDI 03/2006... ALTEA 2.0 TDI 06/2007... LEON 2.0 TDI 05/2006... TOLEDO III 2.0 TDI 01/2006...05/2009	4								
Benzin Engine AMK 1781 cm ³ 154 kW (209 PS) Vehicle LEON 1.8T 02/2002...06/2006	4	81.01	32.70 - -2.10 53.70 MØ=70.30 	20.00 62.00	9294 000 1.500 D StMo 1.750 TN P 2.000 DY CrP	2329 000 81.01 HA	4329 000		
Benzin Engine BAM 1781 cm ³ 165 kW (225 PS) Vehicle LEON 1.8T 07/2003...06/2006 CUPRA R ...	4		32.70 - -2.10 53.70 MØ=70.30		9294 050	2329 050 81.51	4329 050		



		Ø mm	mm	mm	Ø mm	mm	mm
Benzin Engine AGN 1781 cm ³ 92 kW (125 PS) Vehicle LEON 1.8 11/99...06/2006 TOLEDO II 1.8 02/1999...05/2006	81,01	81.01	32.550 +3.60 - 56.55	20.00 59.00	9296 000 1.50 D CrP 1.75 TN P 2.00 DY CrP	2336 000 81.01	4336 000
					9296 050	2336 050 81.51	4336 050
Benzin Engine 2,0 1994 cm ³ 85 kW (115 PS) Vehicle Ibiza Toledo 01/1991...	4	82.51	30.90 - +0.89 / -5.00 51.79 MØ=64.00	21.00 56.00	9311 000 1.200 D IF Cr 1.500 K IF P 2.000 VF NtSt	1303 000 82.51	3303 000
	4				9311 050	1303 050 83.01	3303 050
Benzin Engine 2E 1994 cm ³ 85 kW (115 PS) Vehicle Cordoba 1991... Ibiza 1990...							
Diesel Engine 8144.61.200 2429 cm ³ 53 kW (72 PS) Vehicle 131 2.4 D 1981...1985	4	93.00	55.00 - -2.20 90.00	32.00 75.00	9686 000 3.000 D Cr 2.000 TN P 4.000 DY Cr	1686 000 93.00 AP HA	3686 000
					9686 040	1686 040 93.40	3686 040
					9686 060	1686 060 93.60	3686 060

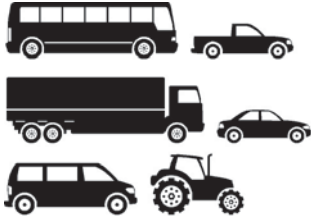


Benzin Engine 1221 cm³ 35 kW Vehicle 1200,1202 1952...1955	4	72.00						5950 000 K=75.95 L=149.00 H+F=123.20 D=90.00 FF 	
Benzin Engine 1174 cm³ 38.5 kW (52 PS) Vehicle 120 1976...	4	72.00						5951 000 K=75.95 L=133.00 H+F=94.95 D=91.70 FF  1 CU 76x80.5x0.1 1 CU 76x0.32	
Benzin Engine 1289 cm³ Vehicle Favorit,Felica 135	4	75.50	34.35 - -3.50 57.35 	20.00 54.00	9953 000 1.500D 1.500K 3.000VF CrP P CrPSt	1953 000 75.50	3953 000	5952 000 K=79.95 L=135.00 H+F=95.10 D=87.95 FF  1 CU 80x0.1 1 CU 80x0.32	7953 K,S



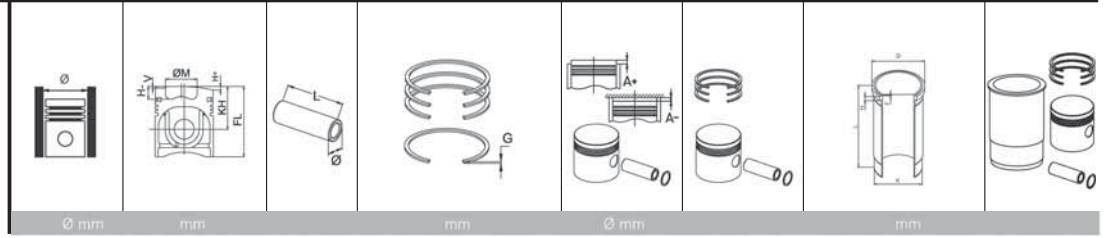
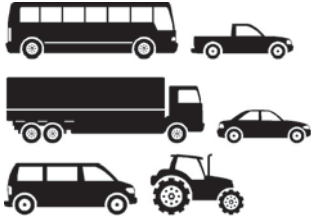
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Benzin Engine AME, AQW, ATZ, AZE 1397 cm ³ 50 kW (68 PS) Vehicle Fabia 1.4 08/1999...05/2003	4	75.50	31.550 - -1.21 53.00	17.00 52.00	9953 000 1.500D 1.500K 3.000VF CrP P CrPSt	1955 000 75.50	3955 000	5953 000 K=79.95 L=125.00 H+F=95.10 D=87.95 FF	7955 K,S
Benzin Engine 742.135, 781.135 (43kW), 781.135 (MPI motor) 1289cm ³ Vehicle Favorit, Felica 135 1989...1995	4	75.50	34.35 - 57.35 -	20.00 54.00	9953 000 1.500D 1.500K 3.000VF CrP P StCr	1952 000 75.50	3952000		
Benzin Engine AEE 9.8:1 1598 cm ³ 55 kW (75 PS) Vehicle Felicia, Octavia 01/1996...08/1996	4	76.50	30.85 - -8.00 60.40	17.00 52.00	9302 000 1.200D 1.500K 2.500VF CrP P CrP	2321 000 76.50	4321 000		

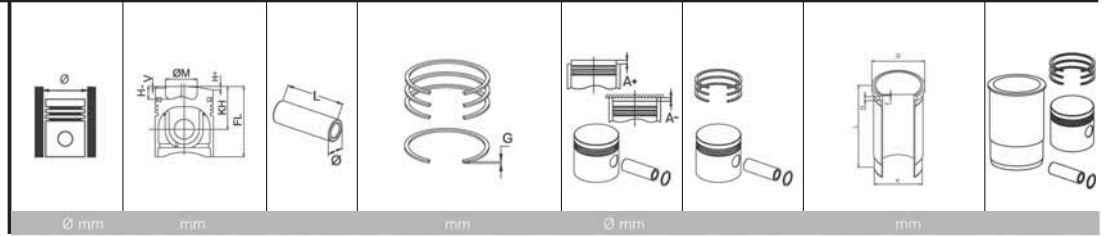
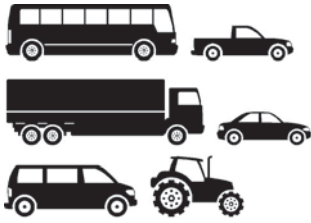


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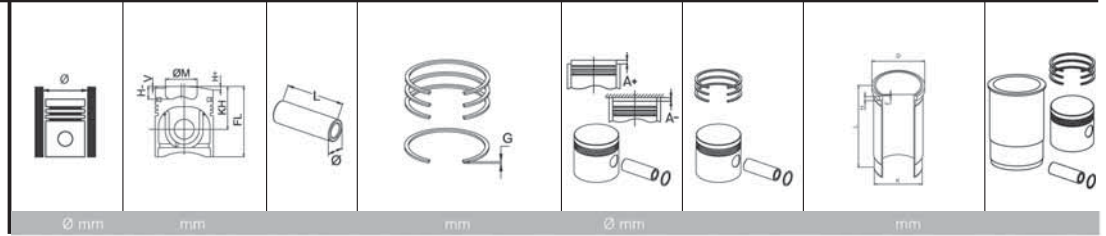
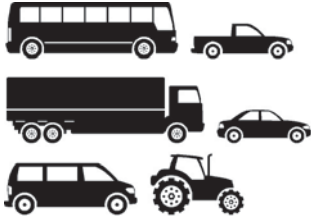
Benzin Engine AUA Katalysator, 16 Valve 1390 cm ³ 55 kW (75 PS) Vehicle Fabia 1.4i 2000... Benzin Engine BBZ Katalysator, 16 Valve 1390 cm ³ 74 kW (100 PS) Vehicle Fabia 1.4i 05.2002...	4	76.51	28.92 -2.32 -1.98 49.92 MØ=61.90 	17.00 54.00	9305 000 1.200D St 1.500K P 2.500SY P	2304 000 76.51	4304 000		
	4				9305 050	2304 050 77.01	4304 050		
Diesel Engine AYM Euro 3 Turbo, LLK, 19.5:1 2496 cm ³ 114 kW (155 PS) Vehicle SUPERB 2.5 TDI 02/2002...08/2003	6	78.31	47.83 -1.38 -17.25 71.83 MØ=36.00 	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2331 000 78.31 AP YS cyl 1/2/3	4331 000		
			47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2331 050 78.81	4331 050		
			47.83 -1.38 -17.25 71.83 MØ=36.00 	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2332 000 78.31 AP YS cyl 4/5/6	4332 000		
			47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2332 050 78.81	4332 050		



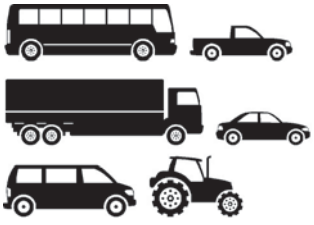
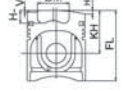
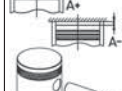
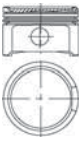
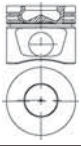
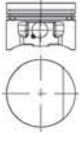
Diesel Engine 1Z, AHU 1896 cm ³ 66 kW (90 PS) Vehicle Octavia 01/1996...	4	79.50	45.80 -1.10 -17.65 71.80 MØ=37.90	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2301 000 79.51 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.Çentik 1.45 mm Conta ile +0.91 / +1.00 2.Çentik 1.53 mm Conta ile +0.91 / +1.10 3.Çentik 1.61 mm Conta ile +1.10 / +1.20	4301 000		
Diesel Engine AFN 1896 cm ³ 81 kW (110 PS) Vehicle Octavia 01/1996...	4				9309 025	2301 025 79.76 +0.91 / +1.10 3.Çentik 1.61 mm Conta ile +1.10 / +1.20	4301 025		
Diesel Engine AGR 1896 cm ³ 66 kW (90 PS) Vehicle Octavia 1997	4				9309 050	2301 050 80.01	4301 050		
Diesel Engine AHF 1896 cm ³ 81 kW (110 PS) Vehicle Octavia 1997...	4		45.55 -1.10 -17.65 71.55 MØ=37.90		9309 100	2301 100 80.51	4301 100		
			45.80 -1.10 -17.65 71.80 MØ=37.90	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2302 000 79.51 AP Cyl. 3/4 to be used with 2301	4302 000		
					9309 025	2302 025 79.76	4302 025		
			45.55 -1.10 -17.65 71.55 MØ=37.90		9309 050	2302 050 80.01	4302 050		
					9309 100	2302 100 80.51	4302 100		

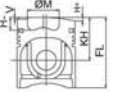
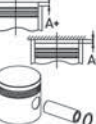


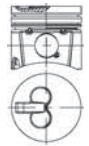
Diesel Engine AMF 1422 cm ³ 55 kW (75 PS) Vehicle Fabia 1.4 TDI 2003...2005	3	79.50	45.80 -1.10 -17.65 69.80 MØ=37.80	26.00 63.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2311 000 79.50 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.53 mm Conta ile +0.81 / +0.96 1.57 mm Conta ile +0.96 / +1.01 1.61 mm Conta ile +1.01 / +1.03	4311 000		
					9309 050	2311 050 80.00	4311 050		
					9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2312 000 79.50 AP Cyl. 3 to be used with 2311	4312 000		
					9309 050	2312 050 80.00	4312 050		
Diesel Engine 1Y 1896 cm ³ 47 kW (64 PS) Vehicle Felicia 09/1996...	4	79.51	39.65 - -1.90 65.65	24.00 64.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1309 000 79.51 AP Pist. Ç k nt s 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3309 000		
					9309 025	1309 025 79.76	3309 025		
					9309 050	1309 050 80.01	3309 050		
					9309 100	1309 100 80.51	3309 100		



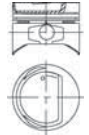
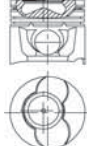
Diesel Engine ASZ, AWX, BLT Turbo, Intercooler, 19:1 Cyl.1/2 to be used with 2314 1896 cm ³ 96 kW (131 PS) Vehicle Fabia 1.9 TDi 10/2004...05/2007 Octavia 1.9 TDi 2001... Superb 1.9 TDi 02/2002...	4	79.51	45.80 -1.10 -17.90 68.80 MØ=38.00 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2313 000 79.51 AP YS Cyl.1/2 to be Pist. Ç k nt s 1.45 mm Conta ile +0.91 / +1.00 1.53 mm Conta ile +1.01 / +1.03 1.61 mm Conta ile +1.11 / +1.20	4313 000		
					9309 050	2313 050 80.01			
Diesel Engine ASZ, AWX, BLT Turbo, Intercooler, 19:1 Cyl.3/4 to be used with 2313 1896 cm ³ 96 kW (131 PS) Vehicle Fabia 1.9 TDi 10/2004...05/2007 Octavia 1.9 TDi 2001... Superb 1.9 TDi 02/2002...	4	79.51	45.80 -1.10 -17.90 68.00 MØ=38.00 	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2314 000 79.510 AP YS Cyl.3/4 to be Pist. Ç k nt s used with 2313	4314 000		
					9309 050	2314 050 80.01			
Benzin Engine AKL 1595 cm ³ 74 kW (101 PS) Vehicle Octavia 1.6i 08/1998...	4	81.01	32.00 +0.70 -2.30 53.70 MØ=61.40 	20.00 57.00	9107 000 1.200D StNt 1.500TN P 2.000VF CrSt	2307 000 81.01	4307 000		
					9107 025	2307 025 81.26			
					9107 050	2307 050 81.51			

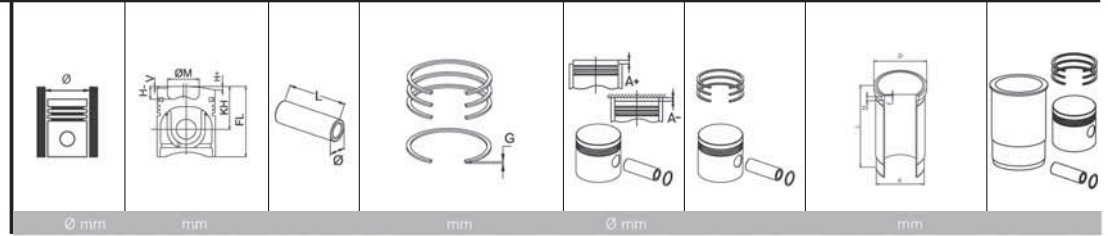
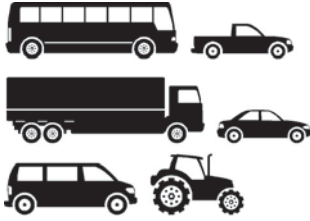
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine ARX / AUM Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,5:1 110 kW (150 PS) Vehicle Octavia 1.8i Turbo 20V 08.2000 ... 05.2006	4	81.01	32.70 - -1.90 53.70 MØ=68.00 	19.00 50.00	9296 000 1.500D CrP 1.750TN P 2.000VF CrP	2299 000 81.01 HA	4299 000		
	4				9296 025	2299 025 81.26	4299 025		
	4				9296 050	2299 050 81.51	4299 050		
Benzin Engine AWT Turbo charged Charge intercooling Other gasoline injection Motronic ME-Motronic 9,5:1 110 kW (150 PS) Vehicle Octavia 1.8i Turbo 20V 2000 ... 2004	4								
Benzin Engine BKD,AZV,BMN 1968 cm³ ... Vehicle Octavia 2.0 TDI 2004...2010 SuperB 2.0 TDI 16V 2008...	4	81.01	45.80 - -17.80 68.80 MØ=38.00 	26.00 66.00 PDB	9298 000 1.750D CkP 2.000K IFU P 3.000DY CrP	2298 000 81.01 AP YS	4298 000		
			45.80 - -17.80 68.80 MØ=38.00		9298 050	2298 050 81.51	4298 050		
Benzin Engine AGN, ADR 1781 cm³ 90 kW (125 PS) Vehicle Octavia 1.8 i 1996...2000	4	81.01	32.550 +3.60 - 56.55 	20.00 59.00	9296 000 1.50 D CrP 1.75 TN P 2.00 DY CrP	2336 000 81.01	4336 000		
					9296 050	2336 050 81.51	4336 050		

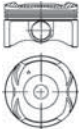
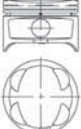
							
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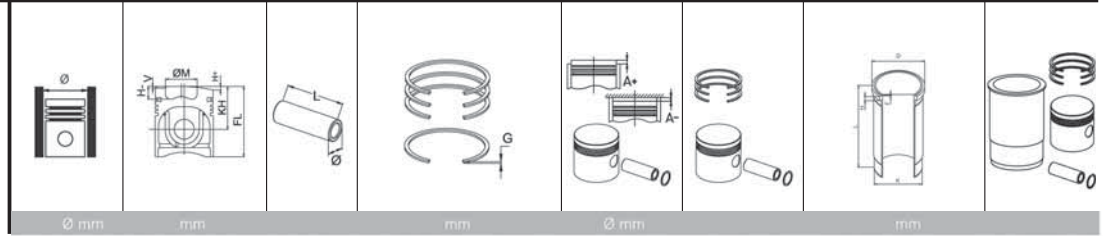
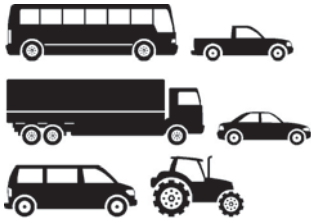
Diesel Engine 475 IDI TCIC Euro 3 1405 cm ³ 51 kW (70 PS) Vehicle Indica, Indigo, Marina ...	4	75.00	42.950 - 1.90 68.50 	25.00 60.00	9791 000 2.500T6° CrP 2.000K P 3.000DY CrP	2791 000 75.00 AP YS	4791 000	
					9791 000	2791 050 75.50	4791 050	

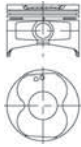
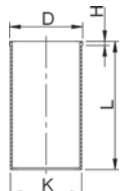
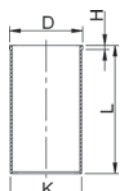
TOYOTA

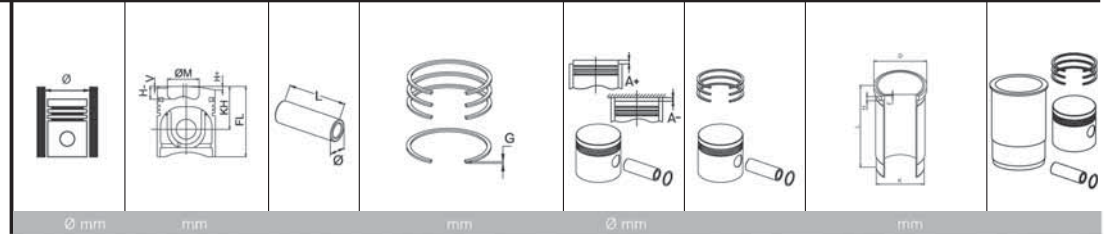
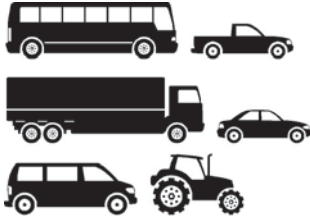
Benzin Engine 2 E / C / U / L OHC 12 Valve 9:1 1295 cm ³ 55 Kw (75 PS) Vehicle Corolla 1300 DLX / GL / XL 1987...1995	4	73.00	30.00 -5.00 -9.20 58.00 	18.00 59.00	9699 000 1.500D CrP 1.500K P 3.000VF Cr	1979 000 73.00	3979 000	
					9699 050	1979 050 73.50	3979 050	
Diesel Engine DV 4 DT 1398 cm ³ 40 kW (54 PS) Vehicle Aygo 1.4 TCi 03.2005...	4	73.70	42.94 -1.65 -14.70 65.40 MØ=37.15 	25.00 60.00	9460 000 2.500T CkP 1.950K IFU P 2.500DY CrP	1460 000 73.70 AP Pist. Ç k nt s 1. Ç entik 1.252 mm conta ile +0.618 / +0.725 2. Ç entik 1.303 mm conta ile +0.726 / +0.775 3. Ç entik 1.351 mm conta ile +0.776 / +0.825	3460 000	
					9460 050	1460 050 74.20	3460 050	
Benzin Engine 3ZZ-FE 1598 cm ³ 81 kW (110 PS) Vehicle Avensis I 1.6i 16V 08.2000...01.2003 Avensis II 1.6i 16V 02.2003...12.2008 Corolla 1.6i 16V 10.1999...12.2001 Corolla Verso 1.6i 16V 09.2001...	4	79.00	28.80 - -3.80 52.20 	20.00 50.00	9989 000 1.200D CrSt 1.200TN 3.000VF CrSt	1990 000 79.00 HA	3990 000	
					9989 050	1990 050 79.50	3990 050	



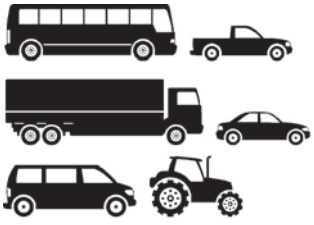
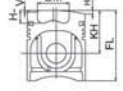
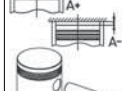
Benzin Engine 3ZR-FAE 1986 cm ³ 112-116 kW (152-158 PS) Vehicle Allion 2.0i 16V, Premio 2.0i 16V Avensis III 2.0i 16V RAV4 2.0i 16V	4	80.50	33.20 -5.17/-4.70 -4.60 51.30 	20.00 50.00	9539 000 1.200D StNt 1.000K StNt 2.000VF NtP	1987 000 80.50 HA	3987 000		
Benzin Engine 3ZR-FE 1986 cm ³ 105 kW (143 PS) Vehicle Corolla X 2.0i 16V, Noah 2.0i 16V Voxy 2.0i 16V	4				9539 050	1987 050 81.00	3987 050		
Benzin Engine 2ZRFBE..ZRE142 1794 cm ³ Vehicle Corolla	4	80.50	31.50 - 3.70 50.00 56.5/69.0 	20.00 50.00	9539 000 1.200D StNt 1.000K StNt 1.200VF NtP	1983 000 80.50 HA	3983 000		
					9539 050	1983 050 81.00	3983 050		
Benzin Engine 4 AFE Enjeksiyonlu 1600 cm ³ 84 - 85 kW (114 - 115 PS) Vehicle Corolla 1.6 LT	4	81.00	30.50 -2.20/-2.50 -2.60 55.50 	20.00 56.00	9991 000 1.200D CrP 1.500TN P 3.000UB Cr	1991 000 81.00 HA	3991 000		
					9991 050	1991 050 81.50	3991 050		

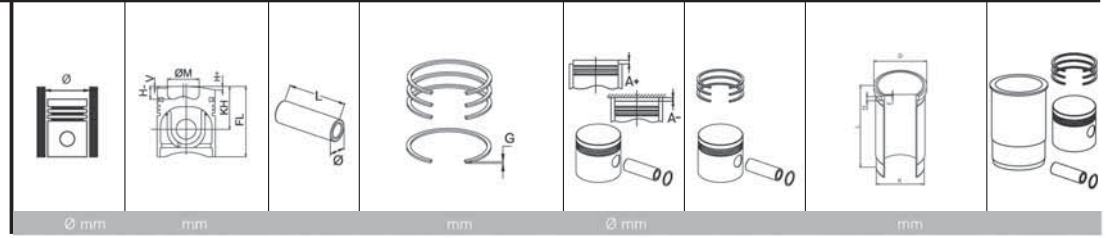
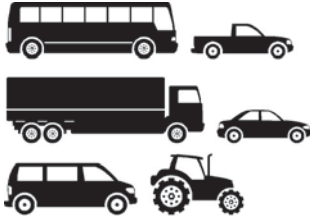


Benzin Engine 4 AF Karbüratörlü 1600 cm³ 50-75 PS Vehicle Corolla 1.6 Lt 1988...1992	4	81.00	30.50 - -2.80 61.00 	18.00 61.00	9191 000 1.500D CrP 1.500TN P 3.000VF CrSt	1978 000 81.00 HA	3978 000	
					9191 050	1978 050 81.50	3978 050	
Diesel Engine 1 C 1839 cm³ Vehicle Carina, Lite-Ace, Corolla 1982... 1982...1987	4	83.00					6006 000 K=87.00 L=176.00 H+F=5.80 D=93.00 SF 	
Diesel Engine L-Jetronic, Normal Aspirated Engine, 8 Valves, 21.5:1 2188 cm³ 47 - 53 kW (64 - 72 PS) Vehicle Blizzard 2.2 D 03/1980 Cressida 2.2 D 09/1980...07/1984 Crown 2.2 D 09/1979...07/1983 HiAce 2.2 D 11/1982...07/1985 HiLux 2.2 D 08/1980...12/1987 ToyoAce 2.2 D 03/1979...08/1983	4	90.00	52.00 - -1.30 99.00 	27.00 74.00	9998 000 2.000TT IFU CrP 2.000K CrP 4.000DY Cr	1998 000 90.00	3998 000	5991 000 K=94.00 L=160.50 H+F=3.50+1.20 D=100.90 SF 
								6008 000 K=94.00 L=159.00 H+F=3.60+1.10 D=100.85 SF

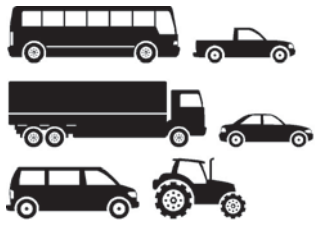
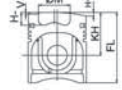
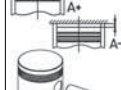
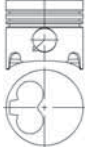


		Ø mm	mm	mm	Ø mm	mm	mm
Diesel Engine 2 L, 2L-II 2446 cm ³ 55 kW (75 PS) Vehicle Landcruiser 2400 (LJ) 01.1984... Crown 2400 (LS120) 08.1983... Chaser 2400 (LX), Cressida 2400 (LX80) 08.1988... Dyna 2400 (LH80), Dyna 2400 (LY60), Toyoace 2400 (LY), Hiace 2400 (LH51), Hiace 2400 (LH61) 1983... Hilux 2400 (LN65), Pick-Up 2400 Cressid 2,4 D 1984...1987 Corona, Dyna 100D, Dyna 150D 1985...	4	92.00	44.300 - -1.80 80.300	27.00 70.00	9992 000 2.000TT MoP 2.000K CrP 4.000DY Cr	1992 000 92.000	3992 000 5994 000 K=96.07 L=161.00 H+F=3.52+0.90 D=100.70 SF
					9992 050	1992 050 92.50	6009 000 K=96.00 L=159.00 H+F=4.00+1.40 D=100.50 SF
						3992 050	
Diesel Engine 2KD-FTV 2494 cm ³ Vehicle DYNA 150, HIACE S.B.V HILUX VIGO 2.5 TD 16V 2001...	4	92.00	54.20 - -19.5 82.20 MØ=39.5	34.00 65.00	9078 000 2.000D IF StNt 1.500K StP 3.000DY StNt	1975 000 92.00 AP YS	
					9078 050	1975 050 92.50	3975 050
Benzin Engine R 4 Diesel, 21:1 2977 cm ³ 63 kW (85 PS) Vehicle Coaster3000 Bus(BU19), Dyna 3000(BU10/12/15/20/22/30/35/70), Landcruiser3000(BJ40/40V/43), Toyoace3000(BY30/31/31D)	4	95.00	52.20 - -2.60 101.20	29.00 79.00	9999 000 2.500TT IFU CrP 2.500K P 4.500DY Cr	1999 000 95.00	3999 000 5992 000 K=102.00 L=190.00 H+F=2.50+1.20 D=107.75 SF
							6010 000 K=102.00 L=189.70 H+F=2.60+1.20 D=107.70 SF

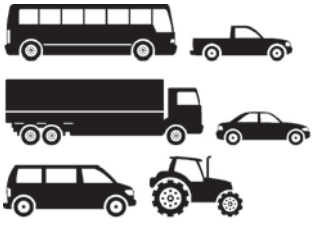
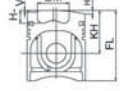
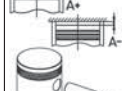
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine ALL, 8 Valves 10.7:1 999 cm ³ 37 kW (50 PS) Vehicle Lupo 1.0i 10/1998...05/2000 Polo 1.0i 08/1997...12/1999 Benzin Engine AER, 8 Valves 10.5:1 999 cm ³ 37 kW (50 PS) Vehicle ENGINE 02/1999...05/2000 Lupo 1.0i 01/1999...05/2000 Polo 1.0i 07/1996...12/1999	4	67.10	31.25 - -5.65 56.27 MØ=51.50	17.00 48.00	9312 000 1.000D Cr 1.200K P 2.000SY Cr	2322 000 67.10	4322 000		
	4				9312 050	2322 050 67.60	4322 050		
	4	75.01	42.87 -1.50/-1.65 -16.60 69.87	20.00 54.00	9299 000 1.750D IF CrP 2.000TN P 3.000UB CrP	1299 000 75.01	3299 000	5304 000 K=78.00 L=145.00 H+F=4.70 D=80.00 SF	S
	4				9299 025	1299 025 75.26	3299 025		
Benzin Engine AAV 1272 cm ³ 40 kW (54 PS) Vehicle Polo 01/1991...07/1994 Benzin Engine HK 1272 cm ³ 40 kW (54 PS) Vehicle Derby 08/1983...07/1985 Golf 08/1983...07/1986 Jetta 07/1983...07/1985 Polo 08/1983...07/1994 Scirooco 08/1983...07/1984 Benzin Engine MH 1272 cm ³ 40 kW (54 PS) Vehicle Golf , Jetta , Polo 08/1985...12/1986	4		42.62 -1.50/-1.65 -16.60 69.62		9299 050	1299 050 75.51	3299 050		
	4				9299 075	1299 075 75.76	3299 075		
	4								
	4								

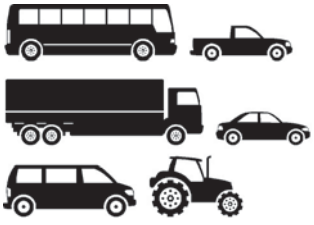
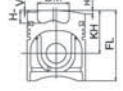
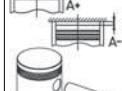
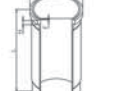


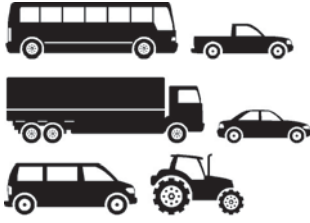
		Ø mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine AEA, 9.8:1 1598 cm ³ 1598 55 kW (75 PS) Vehicle Golff III 1.6, Polo 1.6, Variant CL 1.6, Vento 1.6 1994 Benzin Engine AEE, 9.8:1 1598 cm ³ 1598 55 kW (75 PS) Vehicle Caddy 1.6, Caddy Pick Up 1.6, Golf III 1.6 1996...1999		4	76.50	30.85 - -8.00 60.40	17.00 52.00	9302 000 1.200D CrP 1.500K P 2.500VF CrP	2321 000 76.50	4321 000
Benzin Engine ABU 1598 cm ³ 55 kW (75 PS) Vehicle Golf 08/1992...10/1994 Vento 08/1992...08/1994		4	76.51	32.00 - -8.70 54.00	17.00 52.00	9300 000 1.500D Cr 1.500TN P 2.500SY P	1300 000 76.51	3300 000
						9300 025	1300 025 76.76	3300 025
				31.75 - -8.45 53.75		9300 050	1300 050 77.01	3300 050
						9300 075	1300 075 77.26	3300 075

									
	Ø mm	mm	mm	mm	Ø mm	mm	mm	mm	
Diesel Engine 1V, CY, CR 1598 cm³ 44 - 51 kW (60 - 70 PS) Vehicle Golf, Jetta, Passat, Rabbit, Santan	4	76.51	41.70 - -1.60 71.70	24.00 64.00	9301 000 1.750D IF CrP 2.000K IFU CrP 3.000DY CrP	1301 000 76.51 AP HA Pist. Ç k nt s 1. Çentik 1.53 mm +0.66 / +0.80 2. Çentik 1.57 mm +0.81 / +0.90 3. Çentik 1.61 mm +0.91 / +1.02	3301 000	5301 000 K=79.50 L=145.00 H+F=4.70 D=81.50 SF 	S
Diesel Engine JX 1598 cm³ 51 kW (70 PS) Vehicle Campmobil, T2 1984...1992	4							5301 050 K=80.00 L=145.00 H+F=6.00 D=82.00 SF	
Diesel Engine MF 1598 cm³ 51 kW (70 PS) Vehicle Golf, Passat, Rabbit, Santana, Jetta, T2 1981...1992	4								
Diesel Engine RA, SB 1598 cm³ 59 kW (80 PS) Vehicle Golf, Jetta 08/1989...10/1992 Passat 08/1988..07/1993	4								
Diesel Engine DE, NC 1986 cm³ 64 - 75 kW (87 - 102 PS) Vehicle Jetta 11/1991...07/1992	4								
Diesel Engine 1G, DV 2384 cm³ 68 - 75 kW (92 - 102 PS) Vehicle Jetta 11/1991...07/1992 LT28D,MT31D,LT35D,LT40D,LT45D LT50D,LT55D, 12/1982...08/1992	5	6							

		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	
Diesel Engine CR, JK 1588 cm³ 40 kW (54 PS) Vehicle Caddy, Vanagon, Golf, Jetta, Passat, Pickup, Santana, Rabbit	4	76.51	41.70 - -1.60 71.70	24.00 64.00	9301 000 1.750D IF CrP 2.000K IFU CrP 3.000DY CrP	1305 000 76.51 AP Pist. Ç k nt s 1.Çentik 1.40 mm Conta ile +0.67 / +0.80 2.Çentik 1.50 mm Conta ile +0.81 / +0.90 3.Çentik 1.60 mm Conta ile +0.91 / +1.02	3305 000	5301 000 K=79.50 L=145.00 H+F=4.70 D=81.50 SF 	S
Diesel Engine CS, JP 1588 cm³ 37 - 40 kW (50 - 54 PS) Vehicle Caddy, Golf, Jetta, Passat, Santana, T2 1982...1993	4							5301 050 K=80.00 L=145.00 H+F=6.00 D=82.00 SF	
Diesel Engine ME 1588 cm³ 40 kW (54 PS) Vehicle Caddy, Golf, Jetta, Passat, Santana, T2 1982...1991	4							5301 100 K=80.50 L=145.00 H+F=6.00 D=82.50 SF	
Diesel Engine 076,1 2387 cm³ 52 - 56 kW (71 - 76 PS) Vehicle Industirienmotor 01/1978...12/1992	6				9301 050	1305 050 77.01	3305 050		
Diesel Engine 1S 2387 cm³ 51 kW (70 PS) Vehicle LT 31 D, LT 35 D, LT 45 D 01/1979...08/1982	6				9301 100	1305 100 77.51	3305 100		
Diesel Engine CP, DW 2387 cm³ 55 kW (75 PS) Vehicle LT31 D, LT35 D, LT45 D, LT33 D, LT 01/1979...08/1992	6								

									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine AFH Katalysator,16 Valve 1390 cm ³ 74 kW (100 PS)		4	76.51	28.92 -2.32 -1.98 49.92 MØ=61.90	17.00 54.00	9305 000 1.200D St 1.500K P 2.500SY P	2304 000 76.51	4304 000	
Vehicle Polo 1.4i, Golf III 1.4i, Lupo 1.4i, Bora 1.4i, Golf IV 1.4i 1996...									
Benzin Engine AFK Katalysator,16 Valve 1390 cm ³ 74 kW (100 PS)		4				9305 050	2304 050 77.01	4304 050	
Vehicle Lupo 1.4i 1999...2000 Polo 1.4i 1999...2001									
Benzin Engine AHW Katalysator,16 Valve 1390 cm ³ 55 kW (75 PS)		4							
Vehicle Golf IV 1.4i 1997... Bora 1.4i 1998... Polo 1.4i 1999...2001 Lupo 1.4i 1998...									
Benzin Engine AKQ Katalysator,16 Valve 1390 cm ³ 55 kW (75 PS)		4							
Vehicle Golf IV 1.4i 1997...2000 Bora 1.4i 1998...2000 Lupo 1.4i 1998...1999									
Benzin Engine AUA Katalysator,16 Valve 1390 cm ³ 55 kW (75 PS)		4							
Vehicle Polo 1.4i, Lupo 1.4i, Bora 1.4i, Golf IV 1.4i 1999...2000									

									
		Ø mm	mm		mm	Ø mm		mm	
Benzin Engine AXP Katalysator,16 Valve 1390 cm ³ 55 kW (75 PS)		4	76.51	28.92 -2.32 -1.98 49.92 MØ=61.90	17.00 54.00	9305 000 1.200D St 1.500K P 2.500SY P	2304 000 76.51	4304 000	
Vehicle Polo 1.4i 1999...2000 Caddy 1.4i 1996... Lupo 1.4i 1999...2002			 						
Benzin Engine APE Katalysator,16 Valve 1390 cm ³ 55 kW (75 PS)		4				9305 050	2304 050 77.01	4304 050	
Vehicle Bora 1.4i, Golf IV 1.4i 2000...2001									
Benzin Engine BBZ Katalysator,16 Valve 1390 cm ³ 74 kW (100 PS)		4							
Vehicle Polo 1.4i 05.2002.... Polo Sedan 1.4 FSI 11.2002 Polocross 1.4 FSI 11.2005...05.2007 Polocross 1.4i 11.2005...									



Ø mm	mm	mm	mm	Ø mm	mm	mm	mm

Benzin Engine

BCB, 16 Valves

1600 cm³

77 kW (105 PS)

Vehicle

Golf Mk4 Variant

05/2001.....06/2006

Jetta Mk4 (Bora)

05/2001....06/2005

4

76.51

29.270
-
-2.350
50.270
MØ=64.60

17.00
54.00

9306 000

1.200D NtSt
1.500K P
2.500VF St

2315 000

76.510

4315 000
9306 050
2315 050

77.010

4315 050
Diesel Engine

AFB / AKN

Turbo, LLK, 24V

2496 cm³

110 kW (150 PS)

Vehicle

Passat 2.5 TDI

01/1997...10/2005

6

78.31

47.83
-1.38
-16.50
71.83
MØ=35.80

26.00
65.50

9331 000

1.750D CrK
2.000K IFU P
3.000DY Cr

2333 000

78.31

4333 000

AP

YS

cyl 1/2/3

9331 050
2333 050

78.81

4333 050

47.58
-1.38
-16.50
71.58
MØ=35.80

47.83
-1.38
-16.50
71.83
MØ=35.80

26
65.50

9331 000

1.750D CrK
2.000K IFU P
3.000DY Cr

2334 000

78.31

4334 000

AP

YS

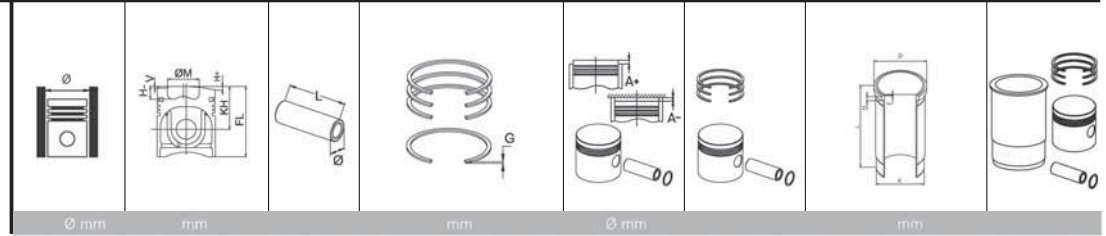
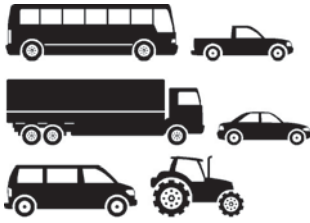
cyl 4/5/6

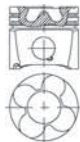
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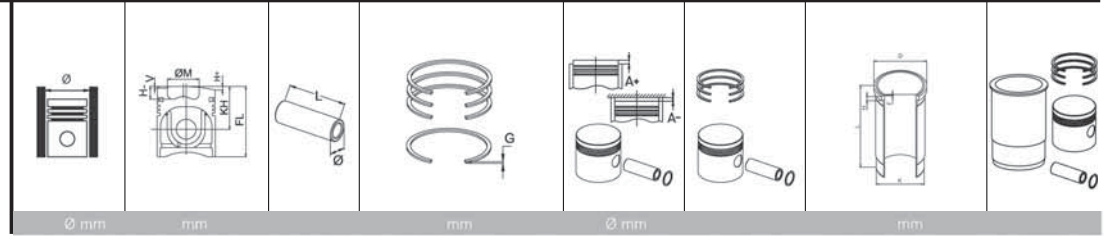
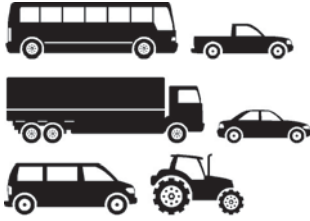
78.81

4334 050

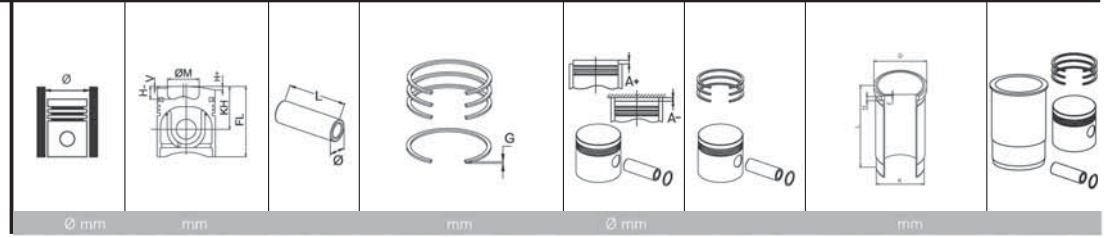
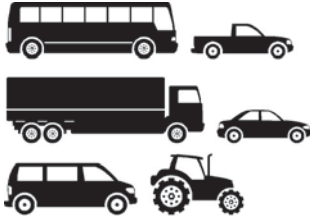
47.58
-1.38
-16.50
71.58
MØ=35.80



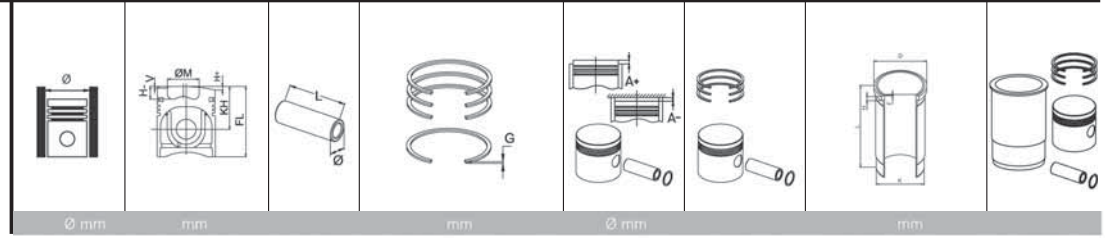
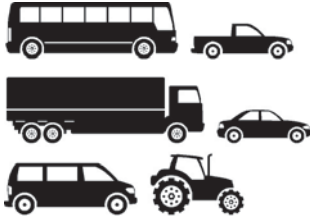
Diesel Engine BAU Euro 3 Turbo, LLK, 24V 18.5:1 132 kW (179 PS) Vehicle Passat 2.5 TDI 01/2003...05/2005	6	78.31	47.83 -1.38 -17.25 71.83 MØ=36.00 	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2331 000 78.31 AP YS cyl 1/2/3	4331 000		
			47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2331 050 78.81	4331 050		
			47.83 -1.38 -17.25 71.83 MØ=36.00 	26.00 58.00	9331 000 1.750D CrK 2.000K IFU P 3.000DY Cr	2332 000 78.31 AP YS cyl 4/5/6	4332 000		
			47.58 -1.38 -17.25 71.83 MØ=36.00		9331 050	2332 050 78.81	4332 050		
Diesel Engine AMF 55 kW (75 PS) Vehicle Polo 1.4 TDI , Lupo 1.4 TDI 1999...	3	79.50	45.80 -1.10 -17.65 69.80 MØ=37.80 	26.00 63.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2311 000 79.50 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.53 mm Conta ile +0.81 / +0.96 1.57 mm Conta ile +0.96 / +1.01 1.61 mm Conta ile +1.01 / +1.03	4311 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
					9309 050	2311 050 80.00	4311 050	5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	S
			45.80 -1.10 -17.65 69.80 MØ=37.80 	26.00 63.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2312 000 79.50 AP Cyl. 3 to be used with 2311	4312 000		
					9309 050	2312 050 80.00	4312 050		

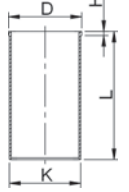


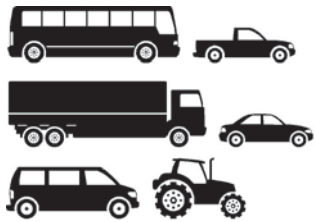
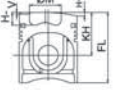
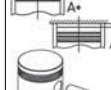
Diesel Engine BJB, 19:1 1896 cm³ 1896 74 kW (101 PS) Vehicle Caddy III 1.9 TDi Diesel Engine ATD, 19:1 Turbo Intercooled 1896 cm³ 74 kW (101 PS) Vehicle Bora TDi, Golf TDi 09/2000... 10/2001... 10/2001... Diesel Engine AXR, 19:1 Turbo Intercooled 1896 cm³ 74 kW (101 PS) Vehicle Bora TDi, Golf TDi, Polo TDi 09/2000... Diesel Engine AVB, 19:1 Turbo Intercooled 1896 cm³ 74 kW (101 PS) Vehicle Passat TDi 02/2000... Diesel Engine AVQ, 19:1 Turbo Intercooled 1896 cm³ 74 kW (101 PS) Vehicle Touran TDi 02/2003...	4 <
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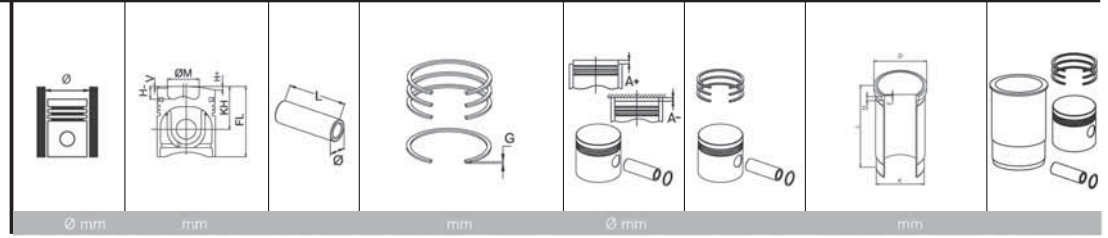
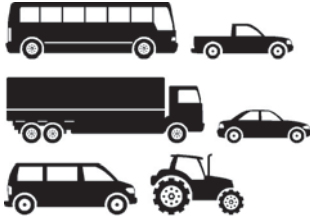


Diesel Engine AFB, AKN V6 2496 cm ³ 110 kW (150 PS) Vehicle Passat 08/1998 Diesel Engine AVG 1896 cm ³ 81 kW (110 PS) Vehicle Golf 08/1999....10/2000 Passat 08/1999...08/2000 Sharan 09/1999...02/2000	6	79.51	45.80 -1.10 -17.65 71.80 MØ=37.90	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2301 000 79.51 AP Cyl. 1/2 to be used Pist. Ç k nt s 1.Çentik 1.45 mm Conta ile +0.91 / +1.00 2.Çentik 1.53 mm 4.Çentik 1.61 mm Conta ile +1.10 / +1.20	4301 000		
	4				9309 025 79.76 1.10	2301 025 79.76 1.10	4301 025		
			45.55 -1.10 -17.65 71.55 MØ=37.90		9309 050	2301 050 80.01	4301 050		
					9309 100	2301 100 80.51	4301 100		
			45.80 -1.10 -17.65 71.80 MØ=37.90	26.00 66.00 PDB	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	2302 000 79.51 AP Cyl. 3/4 to be used with 2301	4302 000		
					9309 025	2302 025 79.76	4302 025		
			45.55 -1.10 -17.65 71.55 MØ=37.90		9309 050	2302 050 80.01	4302 050		
					9309 100	2302 100 80.51	4302 100		

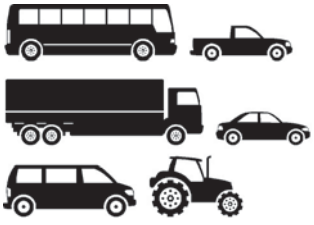
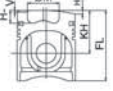
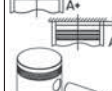
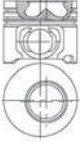
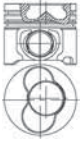


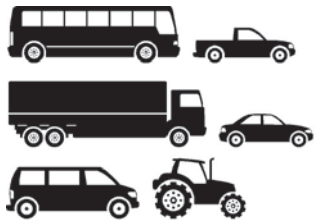
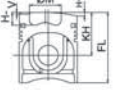
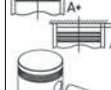
Diesel Engine AAZ 1896 cm ³ 56 kW (75 PS) Vehicle Golf 11/1991...02/1999 Passat 03/1991...12/1998 Vento 01/1992...12/1997 Diesel Engine ABL 1896 cm ³ 50 kW (68 PS) Vehicle T4 10/1992... California 08/1992...	4	79.51	45.65 - -1.90 71.70	26.00 66.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1302 000 79.51 AP HA Pist. Ç k nt s 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3302 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
	4				9309 025	1302 025 79.76	3302 025	5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	
					9309 050	1302 050 80.01	3302 050		
					9309 100	1302 100 80.51	3302 100		
Diesel Engine KY 1716 cm ³ 42 kW (57 PS) Vehicle T2 10/1986...04/1992	4	79.51	41.70 - -1.60 71.70	24.00 64.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1306 000 79.51 AP	3306 000		
					9309 050	1306 050 80.01	3306 050		
					9309 100	1306 100 80.51	3306 100		

									
	Ø mm	mm		mm	Ø mm		mm		
Diesel Engine 1.9 1896 cm ³ 50 kW (68 PS) Vehicle Passat 01/1989...	4	79.51	39.65 - -1.90 65.65	24.00 64.00	9309 000 1.750D CrP 2.000K IFU P 3.000DY CrP	1309 000 79.51 AP Pist. Ç k nt s 1.Çentik 1.53 mm Conta ile +0.66 / +0.86 2.Çentik 1.57 mm Conta ile +0.87 / +0.90 3.Çentik 1.61 mm Conta ile +0.91 / +1.02	3309 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
Diesel Engine 1X 1896 cm ³ 44 kW (60 PS) Vehicle California, T4 09/1990...12/1995	4							5303 050 K=83.07 L=151.80 H+F=6.00 D=85.90 SF	
Diesel Engine 1Y 1896 cm ³ 47 kW (67 PS) Vehicle Caddy, Golf, Passat, Polo (RA), Vento 1992....1997	4				9309 025	1309 025 79.76	3309 025		
Diesel Engine AAB, AJA 2370 cm ³ 57 kW (78 PS) Vehicle California, T4	5				9309 050	1309 050 80.01	3309 050		
					9309 100	1309 100 80.51	3309 100		
Benzin Engine 1.6 1588 cm ³ 58 kW (79 PS) Vehicle Jetta, Passat, Scirocco 1975...1983	4	79.51	41.80 - -6.10 73.80 MØ=65.00	22.00 55.00	9304 000 1.750D CrP 2.000TN P 4.000DY CrP	1304 000 79.51	3304 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF 	S
Benzin Engine EE, EF, EJ, YG, YH, YK 1588 cm ³ 60 kW (82 PS) Vehicle Golf, Jetta, Passat, Santana, Scirocco	4								
Benzin Engine FN-FP-FR-WV-WY-YN 1588 cm ³ 55 kW (75 PS) Vehicle Golf, Passat, Jetta, Santana, Scirocco 1975...1983	4				9304 025	1304 025 79.76	3304 025		
					9304 050	1304 050 80.01	3304 050		
Benzin Engine YM, YV, YP, YT 1588 cm ³ 51 - 62.5 kW (75 - 85 PS) Vehicle Golf, Passat, Santana, Scirocco 1975...1983	4				9304 100	1304 100 80.51	3304 100		

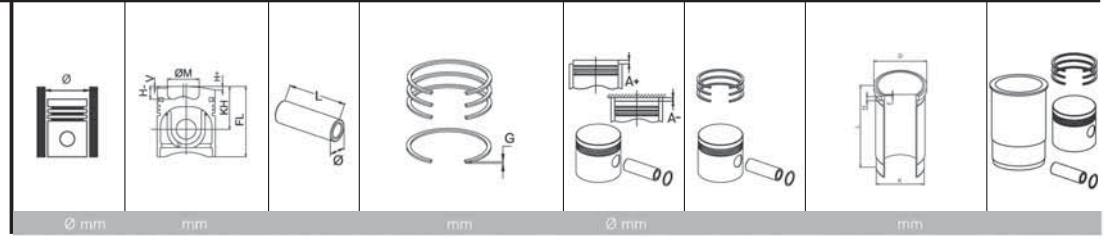
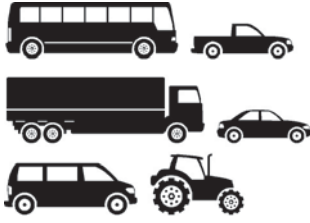


Diesel Engine	4	79.51	45.80 -1.10 -17.90 68.80 MØ=38.00	26.00 66.00 PDB	9309 000 1.750 D CrP 2.000 K IFU P 3.000 DY CrP	2313 000 79.51 AP YS Cyl.1/2 to be	4313 000	5303 000 K=82.57 L=151.80 H+F=4.70 D=85.40 SF	S
BLT,AWX, AVF, ASZ Turbo, Intercooler, 18.5:1 1896 cm ³ 96 kW (131 PS)									
Vehicle Polo 1.9 TDi, Sharan 1.9 TDi 02/2002... Golf IV 1.9 TDi, Bora 1.9 TDi 04/2001... Passat 1.9 TDi 10/2000...									
Diesel Engine ARL 18.5:1 Turbo, Intercooler 1896 cm ³ 110 kW (150 PS)	4								
Vehicle Bora 1.9 TDi, Golf IV 1.9 TDi 09/2000...									
Diesel Engine AXB, R 4 Diesel 1898 cm ³ 77 kW (105 PS)	4				9309 050	2313 050 80.01	4313 050		
Vehicle Campmobill 01/2004... Transporter 04/2003...									
Diesel Engine AXC, R 4 Diesel 1898 cm ³ 63 kW (85 PS)	4				9309 000 1.750 D CrP 2.000 K IFU P 3.000 DY CrP	2314 000 79.510 AP YS Cyl.3/4 to be	4314 000		
Vehicle Transporter 04/2003...									
Diesel Engine BRR, R 4 Diesel 19.5:1 Turbo, Intercooler 1896 cm ³ 62 kW (84 PS)	4				9309 050	2314 050 80.01	4314 050		
Vehicle Transporter 1.9 TDi 01/2006...05/2007									
Diesel Engine BRS, R 4 Diesel 19:1 Turbo, Intercooler 1896 cm ³ 75 kW (102 PS)	4								
Vehicle Multivan 1.9 TDi, Transporter 1.9 TDi 06/2006...05/2007									

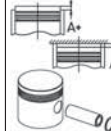
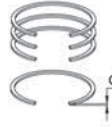
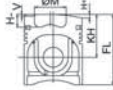
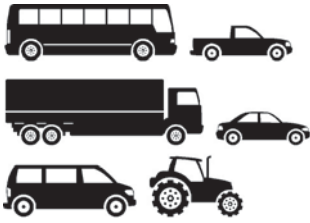
									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine BFQ, 8 Valves 1600 cm ³ 75 kW (102 PS) Vehicle Golf Mk4 Variant 05/2002....06/2006 Mk4 Bora 05/2002....06/2005		4	81.00	29.780 -0.70 -2.70 50.70 MØ=62.30 	19.00 42.00	9303 000 1.000D Cr 1.200TN P 2.000VF CrPSt	2316 000 81.00	4316 000	
					9303 050	2316 050 81.50	4316 050		
Diesel Engine AXD, AXE, BLJ Euro 3 18:1 2460 cm ³ 96 - 128 kW (130 - 174 PS) Vehicle Transporter T5 2004...		5	81.00	45.75 -1.40 18.20 69.75 MØ=37.80 	26.00 66.00 PDB	9318 000 2.500D IW CrP 2.000K IFU CrP 3.000DY CrP	2317 000 81.00 AP YS Cyl.1/2 to be Pist. Ç k nt s 0 / +0.75	4317 000	
					9318 050	2317 050 81.50	4317 050		
Diesel Engine AXD, AXE, BLJ Euro 3 18:1 2460 cm ³ 96 - 128 kW (130 - 174 PS) Vehicle Transporter T5 2004...		5	81.00	45.75 -1.40 18.20 69.75 MØ=37.80 	26.00 66.00 PDB	9318 000 2.500D IW CrP 2.000K IFU CrP 3.000DY CrP	2318 000 81.00 AP YS Cyl.3/4/5 to be used with 2317	4318 000	
					9318 050	2318 050 81.50	4318 050		

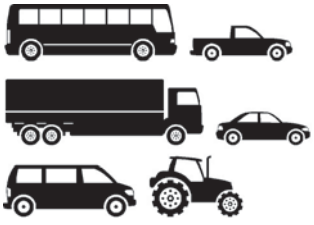
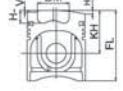
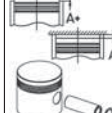
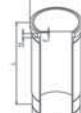
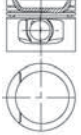
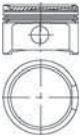
								
	Ø mm	mm		mm		Ø mm		mm
Diesel Engine ACV, AJT 2461 cm³ 75 kW (102 PS) Vehicle California 01/1996...09/2003 T4 09/1995...	5	81.01	45.75 -1.35 -17.20 69.75 MØ=39.60 	26.00 68.00 PDB	9297 000 2.500D MoP 2.000K P 3.000DY CrP	1297 000 81.01 AP Cyl.1/2 to be used with 1298	3297 000	
Diesel Engine AGX 2461 cm³ 55 kW (75 PS) Vehicle LT 28 D 05/1996...09/2003	5				9297 025	1297 025 81.26	3297 025	
					9297 050	1297 050 81.51	3297 050	
Diesel Engine AHD 2461 cm³ 75 kW (102 PS) Vehicle LT,LT 35 D 05/1996...05/1999	5				9297 000 2.500D IW CrP 2.000K IFU CrP 3.000DY CrP	1298 000 81.01 AP Cyl.3/4/5 to be used with 1297	3298 000	
					9297 025	1298 025 81.26	3298 025	
					9297 050	1298 050 81.51	3298 050	
Diesel Engine AHY 2461 cm³ 110 kW (151 PS) Vehicle California 07/1999...08/2000 T4 05/1996...09/2000	5							
Diesel Engine AYC 2461 cm³ 75 kW (102 PS) Vehicle California 04/2001...09/2003 T4 04/2001...	5							
Benzin Engine AEB 1781 cm³ 110 kW (150 PS) Vehicle Passat 10/1996...12/1998	4	81.01	32.70 - -2.05 53.70 MØ=70.00 	20.00 59.00	9296 000 1.500K MoP 1.750TN P 2.000VF Cr	1296 000 81.01	3296 000	
					9296 025	1296 025 81.26	3296 025	
					9296 050	1296 050 81.51	3296 050	

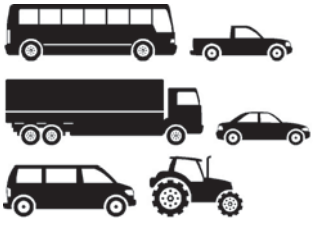
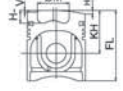
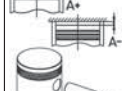
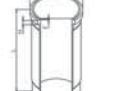
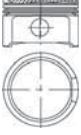
		Ø mm	mm	mm	Ø mm	Ø mm	mm	mm	
Benzin Engine 1P, 2H 1781 cm³ 72 kW (98 PS) Vehicle Golf, Jetta 08/1988...07/1991	4	81.01	32.20 - +1.30/-4.40 62.50 MØ=56.00 	20.00 57.00	9307 000 1.500D IF CrP 1.750TN P 3.000DY CrP	1307 000 81.01	3307 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	S
Benzin Engine ABS 1781 cm³ 66 kW (90 PS) Vehicle Golf, Passat, Vento 11/1991...07/1995	4								
Benzin Engine ADZ, GU, HV, JV 1781 cm³ 66 kW (90 PS) Vehicle Golf, Jetta, Passat Santana, Vento 01/1984...10/1991	4		31.90 +1.30/-4.40 - 62.20 MØ=56.00		9307 025 9307 050 9307 100	1307 025 81.26 1307 050 81.51 1307 100 82.01	3307 025 3307 050 3307 100		
Benzin Engine DS 1781 cm³ 66 kW (90 PS) Vehicle Passat, Santana 01/1983...07/1988	4								
Benzin Engine DZ, DX, EV, GZ, KT 1781 cm³ 82 kW (112 PS) Vehicle Golf, Jetta, Scirocco, Passat, Santana 07/1982...07/1992	4								
Benzin Engine HT, JH 1781 cm³ 70 - 77 kW (90 - 106 PS) Vehicle Golf, Jetta, Passat, Scirocco 1985...1993	4								
Benzin Engine PB 1781 cm³ 82 kW (112 PS) Vehicle Golf, Jetta, Passat 01/1987...10/1991	4								

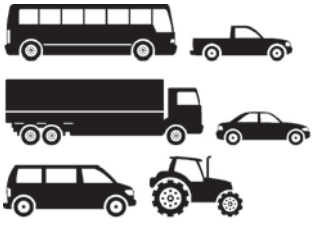
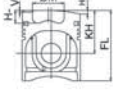
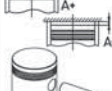
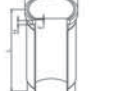


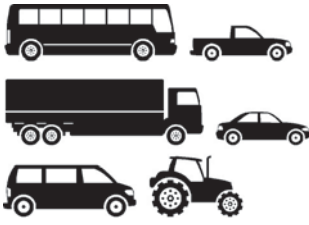
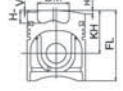
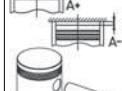
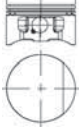
Benzin Engine ABN, DT, EW, EZ, EZA, PN 1595 cm ³ 55 kW (75 PS) Vehicle Golf, Passat, Jetta 08/1983...07/1992 Santana 01/1983...12/1984 Benzin Engine JU 1595 cm ³ 55 kW (75 PS) Vehicle Passat, Santana 08/1984...07/1985 Benzin Engine RF 1595 cm ³ 53 kW (72 PS) Vehicle Golf, Passat, Jetta 08/1983...07/1992 Santana 01/1983...12/1984	4	81.01	35.60 - +2.20/-2.30 66.80 MØ=62.60 	20.00 57.00	9307 000 1.500D IF CrP 1.750TN P 3.000DY CrP	1308 000 81.01	3308 000	5307 000 K=84.00 L=146.00 H+F=4.70 D=86.00 SF 	
	4				9307 025	1308 025 81.26	3308 025		
	4		35.30 - +2.20/-2.30 66.50 MØ=62.60		9307 050	1308 050 81.51	3308 050		
					9307 075	1308 075 81.76	3308 075		
					9307 100	1308 100 82.01	3308 100		
Benzin Engine AEK, AFT, AHL, AKL, AKS, AUR, AWH, 1595 cm ³ 74 kW (101 PS) Vehicle Golf III 1.6i, Passat 1.6i, Vento 1.6i 10/1994...12/1995 Polo 1.6i 12/1995...08/1999 Golf III 1.6i 07/1995...10/2000 Vento 1.6i 01/1996...12/1997 Passat 1.6i 10/1996...08/2000 Bora 1.6i 09/1998...05/2005 Golf III 1.6i 10/1997...05/2004 New Beetle 1.6i 11/1999...10/2000	4	81.01	32.00 +0.70 -2.30 53.70 MØ=61.40 	20.00 57.00	9107 000 1.200D StNt 1.500TN P 2.000VF CrSt	2307 000 81.01	4307 000		
					9107 025	2307 025 81.26	4307 025		
			31.70 +0.70 -2.30 53.40 MØ=61.40		9107 050	2307 050 81.51	4307 050		

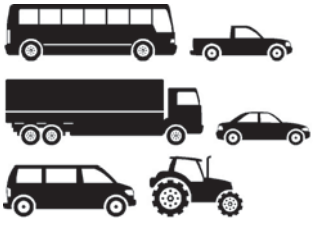
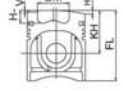
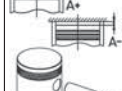
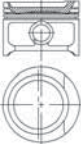
[illegible]

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine AAC 8.5:1 Other gasoline injection 1998 cm ³ 62 kW (84 PS) Vehicle California T4 2.0i 09/1990... 04.2002 Transporter T4 2.0i 09/1990...06/2003	4	81.01	38.35 +1.10 -10.50 65.45 MØ=62.00 	24.00 56.00	9158 000 1.750D CrP 2.000K P 3.000DY Cr	2328 000 81.01	4328 000		
	5				9158 025	2328 025 81.26	4328 025		
					9158 050	2328 050 81.51	4328 050		
Benzin Engine AAF 8.5:1 Other gasoline injection 2461 cm ³ 81 kW (110 PS) Vehicle California T4 2.5i 09/1990...07.1993 EuroVan 2.5i 09/1991...04.1995 Transporter T4 2.5i 09/1990...12/1993	5								
	5								
Benzin Engine AEU 10:1 Other gasoline injection 2461 cm ³ 81 kW (110 PS) Vehicle California T4 2.5i 08/1996...04/2002 Transporter T4 2.5i 08/1996...06/2003	4	81.01	32.70 - -1.90 53.70 MØ=68.00 	19.00 50.00	9296 000 1.500D CrP 1.750TN P 2.000VF CrP	2299 000 81.01 HA	4299 000		
	4				9296 025	2299 025 81.26	4299 025		
					9296 050	2299 050 81.51	4299 050		
Benzin Engine AUM 1781 cm ³ 110 kW (150 PS) Vehicle Bora 1.8i Turbo 09.2000 ... 04.2001	4								
	4								
Benzin Engine AUM 1781 cm ³ 110 kW (150 PS) Vehicle Bora 1.8i Turbo Golf 1.8i Turbo 09.2000 ... 05.2006	4								
	4								
Benzin Engine AUQ 1781 cm ³ 132 kW (180 PS) Vehicle Bora 1.8i Turbo Golf IV 1.8i Turbo 05.2002 ... 05.2006	4								
	4								

										
			Ø mm	mm		mm	Ø mm		mm	
Benzin Engine AWT 1781 cm ³ 110 kW (150 PS)			4	81.01	32.70 - -1.90 53.70 MØ=68.00	19.00 50.00	9296 000 1.500D CrP 1.750TN P 2.000VF CrP	2299 000 81.01 HA	4299 000	
Vehicle Passat 1.8i Turbo 20V 10.2000 ... 05.2005			4				9296 025	2299 025 81.26	4299 025	
Benzin Engine AWM 1781 cm ³ 125 kW (170 PS)			4				9296 050	2299 050 81.51	4299 050	
Vehicle Passat 1.8i Turbo 2001...			4							
Benzin Engine AWU 1781 cm ³ 110 kW (150 PS)			4							
Vehicle New Beetle 1.8i Turbo 20V 1998...			4							
Benzin Engine AWW 1781 cm ³ 110 kW (150 PS)			4							
Vehicle New Beetle 1.8i Turbo 20V 06/2002...			4							
Benzin Engine AWP 1781 cm ³ 132 kW (180 PS)			4							
Vehicle Jetta 1.8i Turbo 20V New Beetle 1.8i Turbo 20V 06/2001...			4							
Benzin Engine BJX 1781 cm ³ 110 kW (150 PS)			4							
Vehicle Polo 1.8i Turbo 20V 08/2005...			4							
Benzin Engine BKF 1781 cm ³ 110 kW (150 PS)			4							
Vehicle New Beetle 1.8i Turbo 20V 07/2004...			4							
Benzin Engine BNU 1781 cm ³ 132 kW (180 PS)			4							
Vehicle New Beetle 1.8i Turbo 20V 06/2002...			4							

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine BVE 2000 cm ³ 81 kW (116 PS) Vehicle Passat 2.0 TDI 2005...2007		6	81.01	45.80 - -17.80 68.80 MØ=38.00 	26.00 66.00 PDB	9298 000 1.750 D CKP 2.000 K IFU P 3.000 DY CrP	2298 000 81.01 AP YS	4298 000	
Diesel Engine BWV 2000 cm ³ 79 kW (136 PS) Vehicle Passat 2.0 TDI 2005...2007		4							
Diesel Engine BMA 2000 cm ³ 100 kW (136 PS) Vehicle Passat 2.0 TDI 2005...		4		45.80 - -17.80 68.80 MØ=38.00		9298 050	2298 050 81.51	4298 050	
Diesel Engine BKD 2000 cm ³ 102 kW (140 PS) Vehicle Jetta 2.0 TDI 2003...2008		4							
Diesel Engine BMN 2000 cm ³ 125 kW (170 PS) Vehicle Jetta 2.0 TDI 2005...2008		4							
Diesel Engine BKP 2000 cm ³ 105 kW (140 PS) Vehicle Golf V 2.0 TDI		4							
Diesel Engine BKP 2000 cm ³ 105 kW (140 PS) Vehicle Passat 2.0 TDI 2005...		4							

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Benzin Engine ADR 1781 cm ³ 92kW (125PS) Vehicle Passat 12.1996...01.1999		4	81.01	32.550 +3.60 - 56.55	20.00 59.00	9296 000 1.50 D CrP 1.75 TN P 2.00 DY CrP	2336 000 81.01	4336 000	
Benzin Engine AGN 1781 cm ³ 92kW (125PS) Vehicle Bora 02.1999...10.2000 Golf IV 10.1997...10.2000		4				9296 050	2336 050 81.51	4336 050	
Benzin Engine APT 1781 cm ³ 92kW (125PS) Vehicle Passat 01.1999...08.2000		4							
Benzin Engine ARG 1781 cm ³ 92kW (125PS) Vehicle Passat 02.1999...08.2000		4							
Diesel Engine BJJ Euro4 2459 cm ³ 100 kW (136 PS) Vehicle Crafter, LT 28 D, LT 35 D, LT 46 D 2006...		5	81.01	45.75 -1.35 -16.6 69.75 MØ=45.90	26.00 66.00	9318 000 2.500 D IW CrP 2.000K IFU CrP 3.000DY CrP	2337 000 81.01 AP YS	4337 000	
Diesel Engine BJM Euro4 2459 cm ³ 120 kW (163 PS) Vehicle Crafter, LT 28D, LT 35D, LT 46 D 2006...		5				9318 050	2337 050 81.51	4337 050	
Diesel Engine CEC A Euro5 2459 cm ³ 100 kW (136 PS) Vehicle Crafter, LT 28, LT 25, LT 46 2009...		5							
Diesel Engine CECB Euro5 2459 cm ³ 120 kW (163 PS) Vehicle Crafter, LT 28, LT 35, LT 46 2009...		5							

									
		Ø mm	mm	mm	mm	Ø mm	mm	mm	mm
Diesel Engine AVR Turbo VGT, Intercooler 2461 cm ³ 80kW (109 PS) Vehicle LT 35, Volt 2004...	5	81.01	45.80 -1.35 -16.8 69.80 MØ=46.00	26.00 68.00	9318 050	2338 000 81.01 AP	4338 000		
					9318 050	2338 050 81.51	4338 050		
Benzin Engine 2E 1984 cm ³ 85 kW (115 PS) Vehicle Corrado 04/1993...06/1994 Golf 11/1991...09/1994 Passat 03/1990...09/1994 Vento 01/1992...09/1994	4	82.51	30.90 - +0.89 / -5.00 51.79 MØ=64.00	21.00 56.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	1303 000 82.51	3303 000		
					9311 050	1303 050 83.01	3303 050		
Benzin Engine ALT R 4 1984 cm ³ 95kW (129 PS) Vehicle Passat 11/2001...05/2005	4	82.51	29.60 -2.51 -1.2 50.60 MØ=64.00	19.00 44.00	9311 000 1.200D IF Cr 1.500K IF P 2.000VF NtSt	2327 000 82.51	4327 000		
					9311 025	2327 025 82.76	4327 025		
					9311 050	2327 050 83.01	4327 050		