

Mercedes-Benz Powertrain

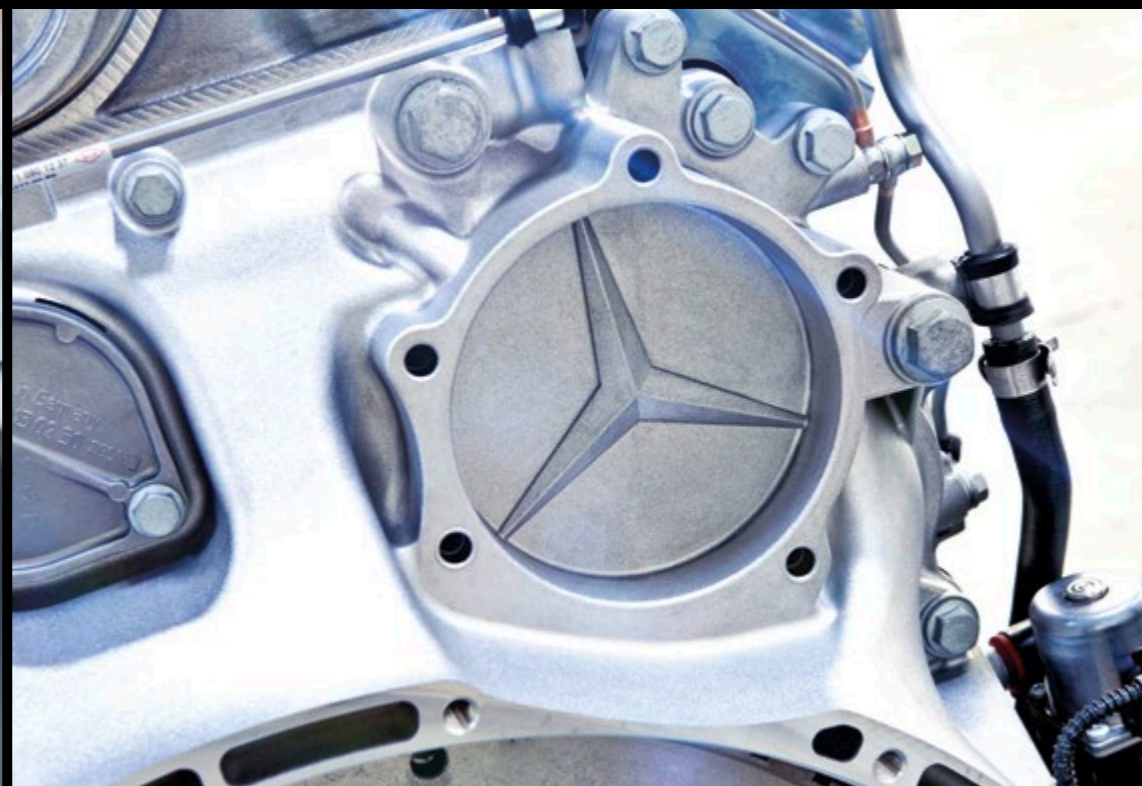


Portfolio **Bus Classic**: EURO III, EURO V and EEV.

Mercedes-Benz



Welcome to
Mercedes-Benz
Powertrain.
Leading in technology
and efficiency.



Contents

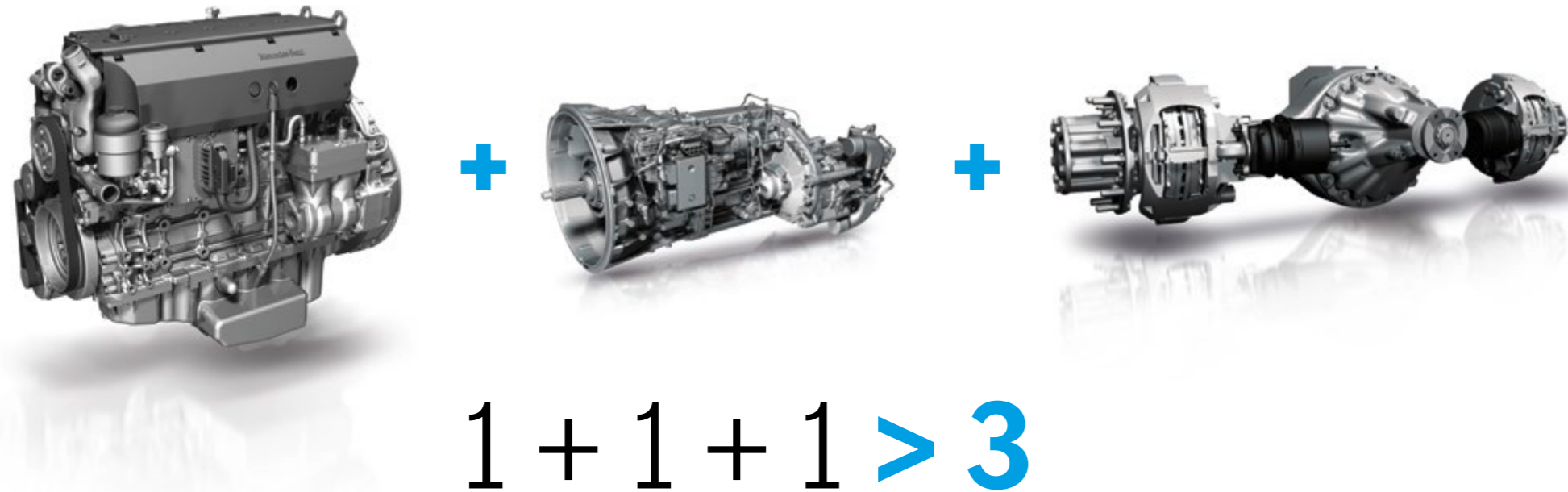
Mercedes-Benz Powertrain	4
Mercedes-Benz engine systems	8
Nomenclature engines	10
Engine portfolio	11
Medium-duty engine systems	12
Heavy-duty engine systems	16
Exhaust after-treatment system	20
Our global Mercedes-Benz service network	22
Spare parts supply	23
Extended warranty	24
More than products	25
Index	26

Going the **extra mile**. Mercedes-Benz Powertrain.

Mercedes-Benz Powertrain offers outperforming and individually engineered powertrain components: engine systems, transmissions and axles – each will provide our customers with the **highest durability and quality at the same time.**

Together, they compose an even more sophisticated, technologically advanced and, with regards to efficiency, unbeatable powertrain.

Let's develop the best individual solution for your success together.



Benefits for you

Integrated powertrain:

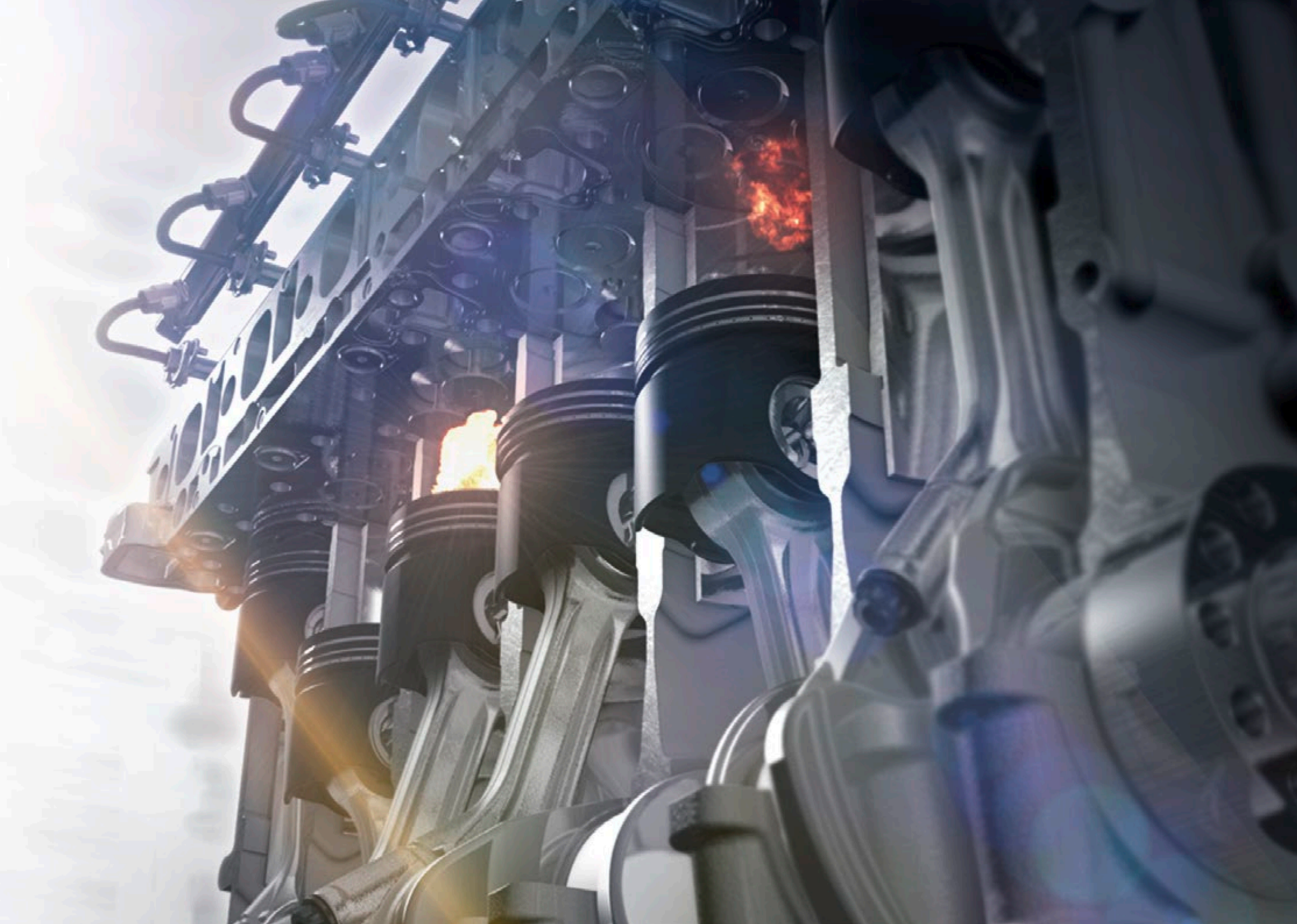
- ✓ Reduces integration efforts
- ✓ One Key Account Manager as main contact partner
- ✓ One system supplier for your individual powertrain solution
- ✓ One contractual partner

All powertrain components:

- ✓ Premium Mercedes-Benz quality standards due to the production on our high-volume production lines
- ✓ Overall, robust and reliable powertrain solutions provide a long lifetime for your powertrain components
- ✓ Leads to an optimized system set-up due to common electric and electronic architecture (EE architecture) for efficient interaction of all powertrain components
- ✓ One electronic tool for end-of-line commissioning and diagnosis requires less training for your engineering group and after-sales team
- ✓ High investment in Mercedes-Benz R&D ensures state-of-the-art quality

Benefits for your customers

- ✓ Provides optimized fuel efficiency through specially composed powertrain solutions
- ✓ Ensures robust and reliable performance in every scenario of operation
- ✓ Minimizes downtimes as our worldwide After-Sales network covers warranty and policy from one source
- ✓ Synchronized maintenance intervals and repair worldwide via our one-stop shop logic for the complete powertrain
- ✓ Increases the resale value of the vehicles due to the highest quality standards offered by Mercedes-Benz
- ✓ Greater driver comfort due to the high level of integration of all assistant systems and features

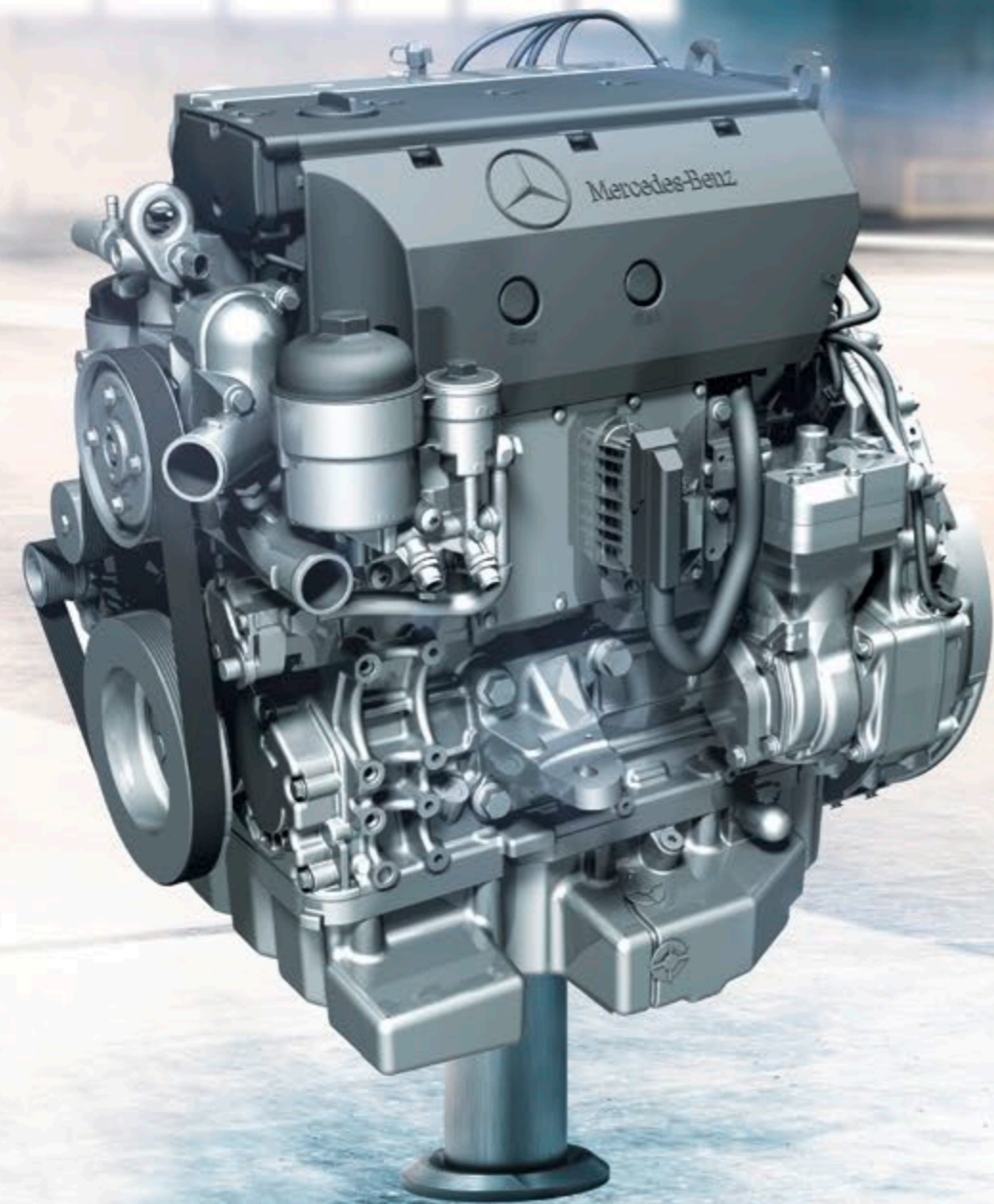


Our engine systems product portfolio: TCO reduction at its best.

Our EURO III, Euro V and EEV engines are **synonymous with strength, economy and durability**. Based on these characteristics, our engine systems in all series are ideal for city buses and touring coaches. They can also be modified to create customer-specific variants for use in different bus applications. The 4-/6-cylinder in-line models with EURO III, V and EEV engines represent superior function and efficiency. **Our classic engine systems operate at the highest levels of efficiency and ensure superior power output.**

Thanks to BlueTec®, Mercedes-Benz's SCR diesel technology, they operate in a particularly eco-friendly way. BlueTec® ensures low CO₂ emissions and extremely low concentrations of nitrogen oxide (NO_x) and particulates, to meet emission standards at the exhaust pipe. **Besides low consumption, the BlueTec® engines also have impressive maintenance intervals and a long engine life system.** At Mercedes-Benz, we have spent decades bringing our diesel engine systems to perfection. Our dedication to excellence has earned Mercedes-Benz loyal customers around the world, in the most demanding industries and applications.



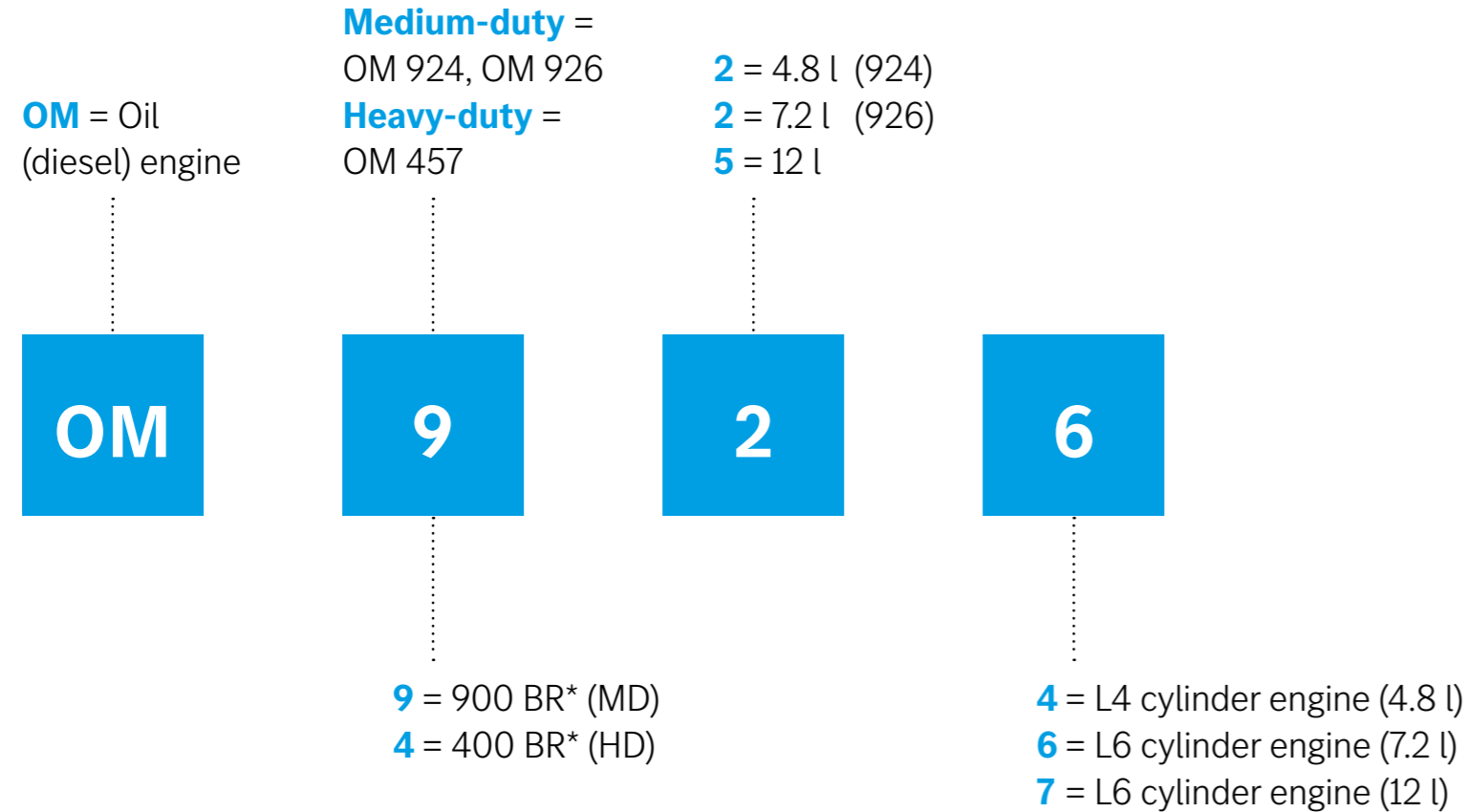


Mercedes-Benz engine systems.

OM 92X and OM 457 model series.

Approved engine systems
for a variety of applications.

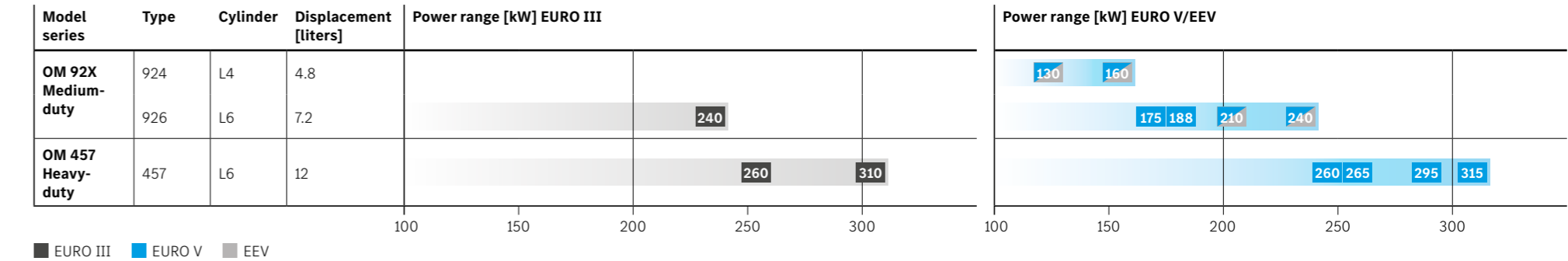
Derivation “Nomenclature” - engine systems.



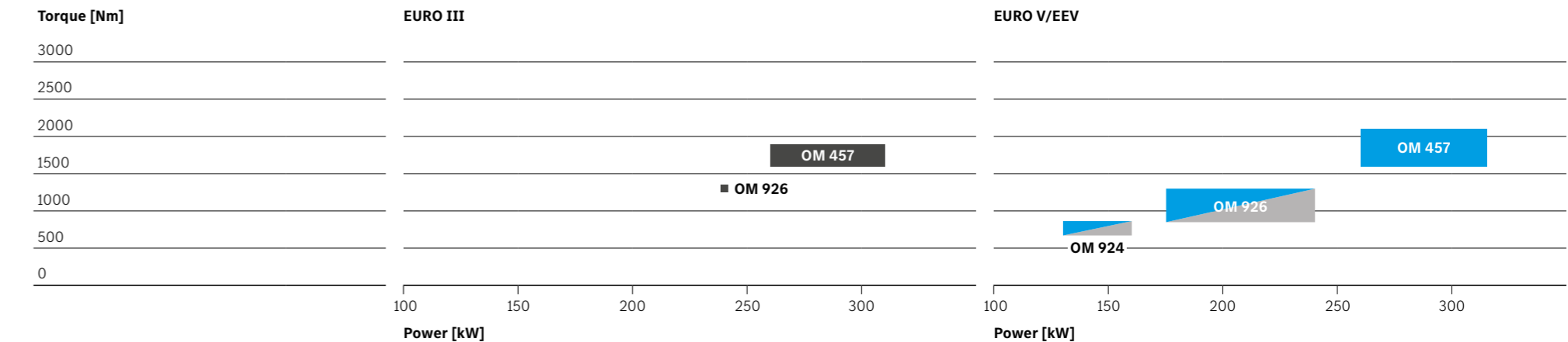
* BR = Baureihe = model series

Engine systems for EURO III, EURO V and EEV.

Portfolio of EURO III, EURO V and EEV engine systems for buses



Power range of EURO III, EURO V and EEV engine systems for buses





Medium-duty
engine systems.

Performance. Even on challenging terrain.

Your product benefits for medium-duty engine systems:

- **4- and 6-cylinder** diesel engines in an **in-line arrangement**
- **Displacement** of **4.8** and **7.2 litres**
- **Output** of **130** up to **240 kW**
- **Low fuel consumption** due to innovative **SCR technology**
- Compact **installation space**
- Cylinder head with **3-valve technology**
- Powerful and **dynamic engine brakes** due to **decompression technology**
- Additional **power take-off** options
- **“One box”** SCR exhaust after-treatment
- **Wide range** of potential **adaptations** due to extensive **modular system**

OM 924

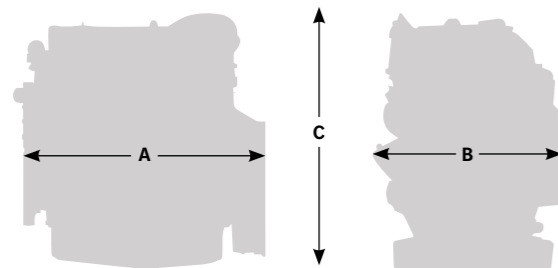
Arrangement: In-line 4
Displacement: 4.8 l



Weight and dimensions*

Dry weight
EURO III: 395 kg
EURO V/EEV: 405 kg

Dimensions
A = length 808 mm
B = width (excl. charge air pipe) 600 mm
C = height 805 mm

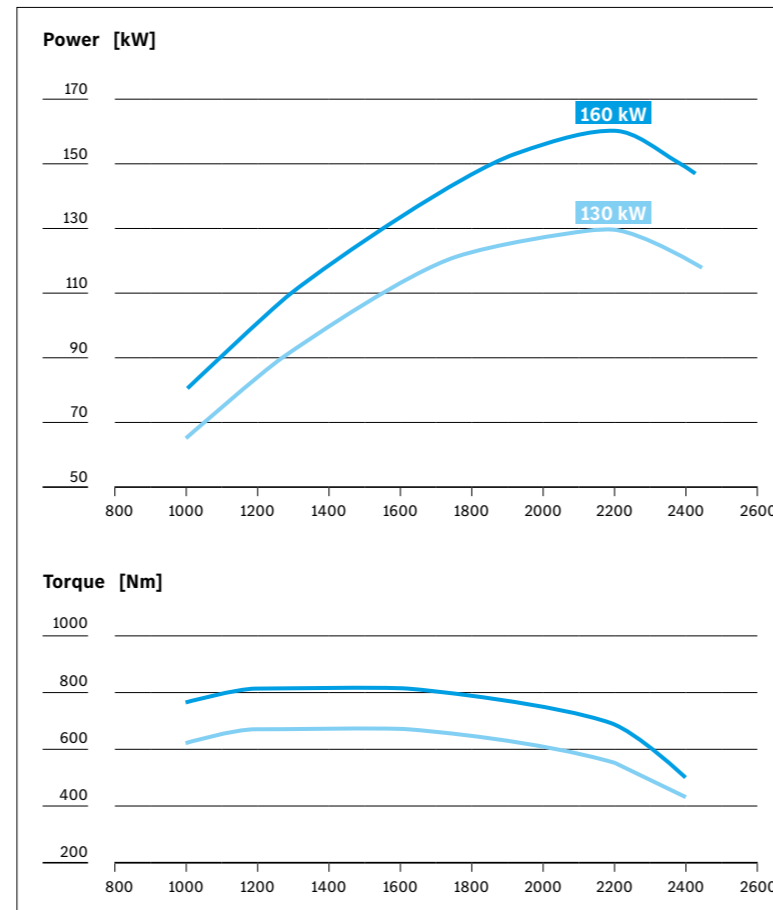


* depending on equipment installed

Rated power and maximal torque

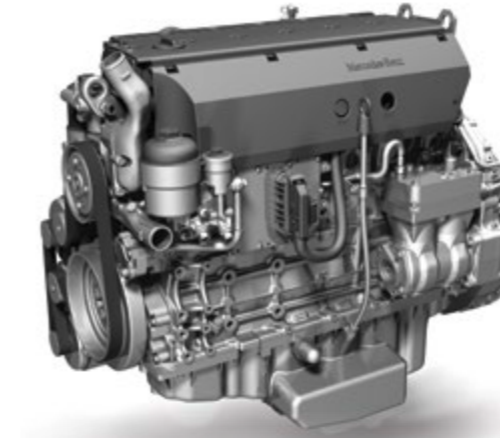
		EURO V/EEV	EURO V/EEV
Rated power	[kW/hp]	130/177	160/218
at engine speed	[rpm]	2200	2200
Nominal torque	[Nm]	675	810
at engine speed	[rpm]	1200-1600	1200-1600

Performance



OM 926

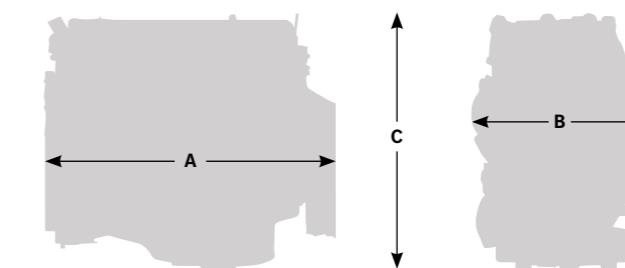
Arrangement: In-line 6
Displacement: 7.2 l



Weight and dimensions*

Dry weight
EURO III: 530 kg
EURO V/EEV: 540 kg

Dimensions
A = length 1045 mm
B = width 640 mm
C = height 895 mm

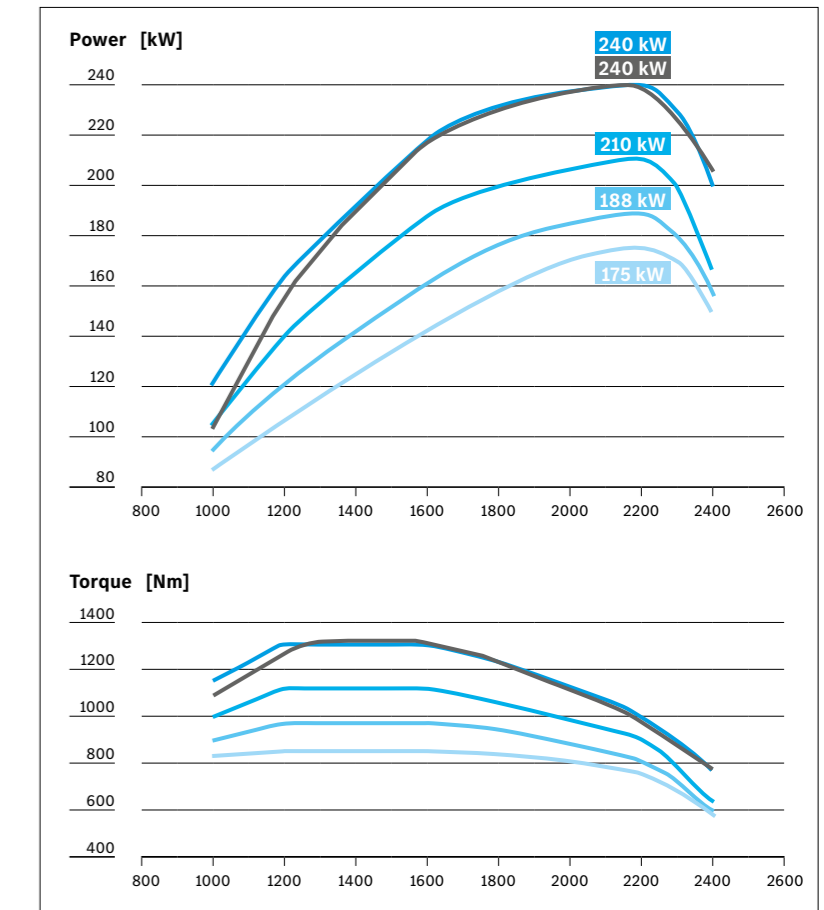


* depending on equipment installed

Rated power and maximal torque

		EURO III	EURO V	EURO V	EURO V/EEV	EURO V/EEV
Rated power	[kW/hp]	240/326	175/238	188/255	210/286	240/326
at engine speed	[rpm]	2200	2200	2200	2200	2200
Nominal torque	[Nm]	1300	850	970	1120	1300
at engine speed	[rpm]	1200-1600	1200-1600	1200-1600	1200-1600	1200-1600

Performance





Heavy-duty
engine systems.

A drive that stands out.

Your product benefits for heavy-duty engine systems:

- **6-cylinder** diesel engines in-line
- **Displacement** of **12 litres**
- **Output** of **260** up to **315 kW**
- **Low fuel consumption** due to proven **SCR technology**
- Compact **installation space**
- Cylinder head with **4-valve technology**
- Powerful and **dynamic engine brakes** due to **decompression technology**
- Additional **power take-off** options
- **“One box”** SCR exhaust after-treatment
- **Wide range** of potential **adaptations** due to extensive **modular system**

OM 457

Arrangement: In-line 6
Displacement: 12 l



Weight and dimensions*

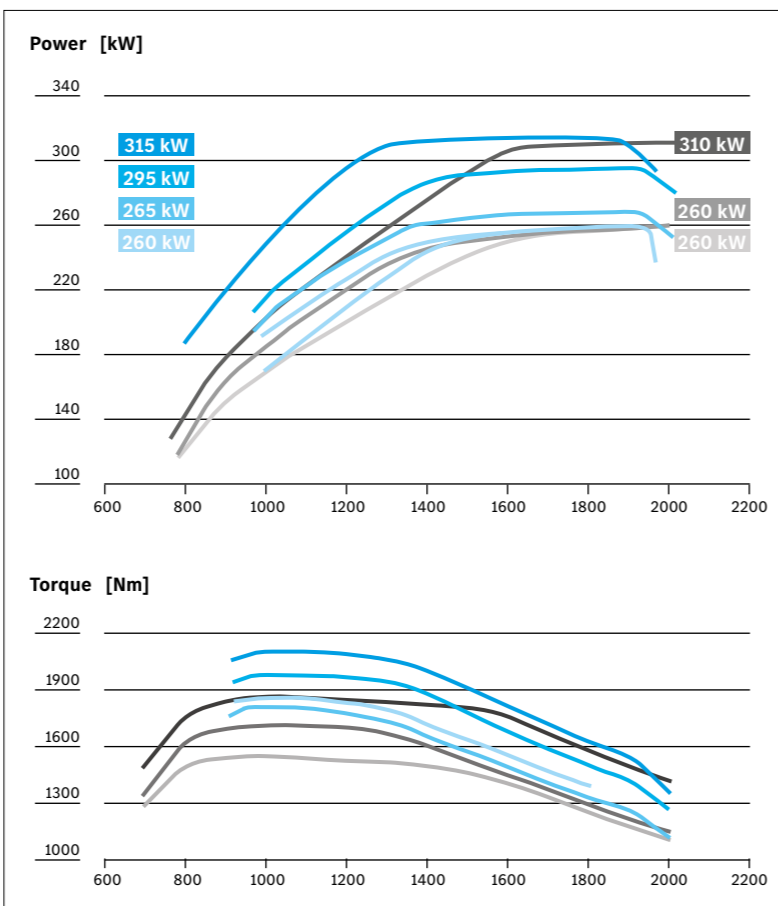
Weight			
EURO III:	1005 kg		
EURO V:	1015 kg		
Dimensions			
A = length	1267 mm		
B = width (excl. charge air pipe)	750 mm		
C = height	945 mm		

* depending on equipment installed

Rated power and maximal torque

	EURO III	EURO III	EURO III	EURO V	EURO V	EURO V	EURO V
Rated power [kW/hp]	260/348	260/348	310/422	260/354	265/360	295/401	315/428
at engine speed [rpm]	2000	2000	2000	2000	1900	1900	1900/2000
Nominal torque [Nm]	1600	1750	1900	1600/1850	1850	2000	2100
at engine speed [rpm]	1100	1100	1100	1100	1100	1100	1100

Performance

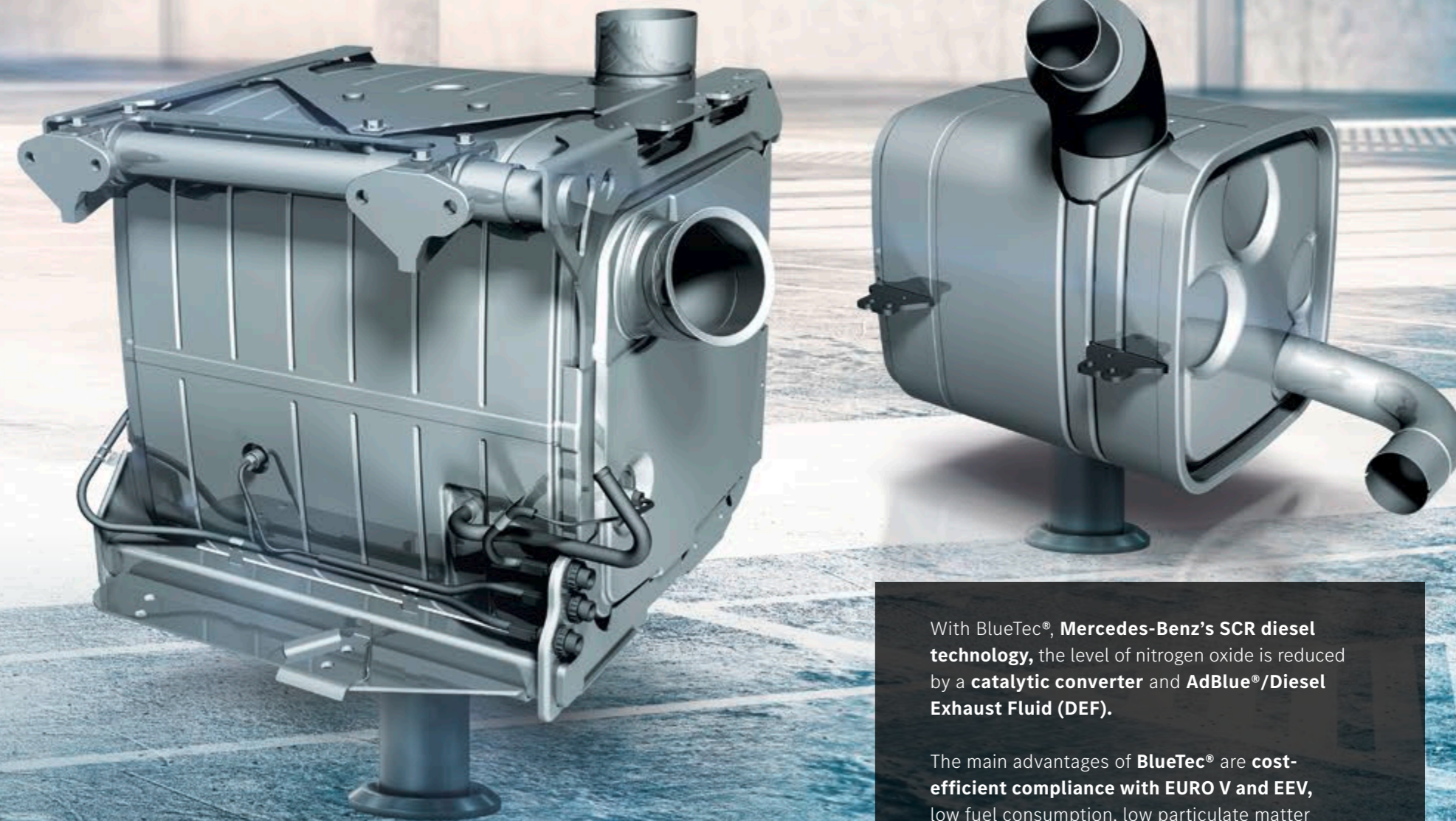


Clean from start to finish.

Your product benefits for the after-treatment system:

- **Low impact** on exhaust back pressure
- Significant **NOx reduction** at a broad range of exhaust gas volume flows and exhaust gas temperatures
- **Small installation space** and **low weight**
- **Long lifetime**, adapted to the engine's lifetime
- Consistent **common parts strategy**
- Many **different variants** for exhaust gas inlet and outlet
- **Different shapes:** cubic or oval geometry

Exhaust after-treatment system.



With BlueTec®, Mercedes-Benz's SCR diesel technology, the level of nitrogen oxide is reduced by a catalytic converter and AdBlue®/Diesel Exhaust Fluid (DEF).

The main advantages of BlueTec® are cost-efficient compliance with EURO V and EEV, low fuel consumption, low particulate matter emissions and low CO₂ emissions.



Our global Mercedes-Benz service network.

Optimizing customer support while minimizing downtimes of your trucks and buses is highly relevant for us. Enjoy the advantages of our network with more than 2,400 authorized Mercedes-Benz Truck Service Centers worldwide.

Your nearest Service Center: Dealer Locator Online



Spare parts supply.

We will ensure spare parts availability for many years after your initial investment. Your vehicle can only deliver top performance if it's kept in shape at all times. It is only the use of high-quality GenuineParts that ensures that the explicit and implied warranty is maintained.

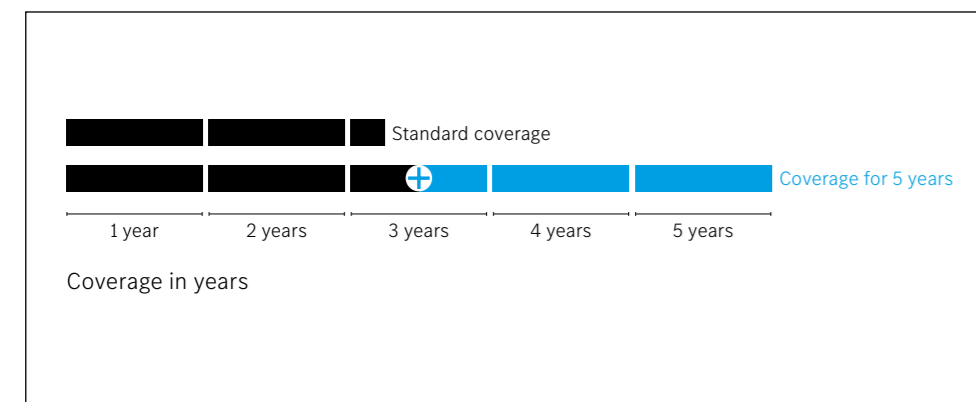
For our price-sensitive customers, we also offer a large portfolio of Genuine Remanufactured Parts – to save costs but maintain the same quality level.

Extended warranty. We believe in our quality.

Our extended coverage programme takes you to a higher level. Mercedes-Benz Powertrain engine system owners enjoy overall coverage, which can be extended to five years and therefore adds even more value to your engine system.

Benefit from five years of manufacturer's coverage for your powertrain components – our new coverage programme with 500,000 km and 300,000 Stop-Starts: five years of manufacturer's coverage for your powertrain components.

Coverage types



Extended warranty – **your advantages*** at a glance:

Integrated Powertrain:

- ✓ 5 years' coverage
- ✓ Up to 500,000 km
- ✓ 300,000 Stop-Starts
- ✓ After-treatment system covered
- ✓ Alternator + starter + accessories covered
- ✓ Crankshaft radial sealing rings covered
- ✓ Electronic control units covered
- ✓ Valid in matured markets

* With Mercedes-Benz workshops only; with original parts only; not with B20.

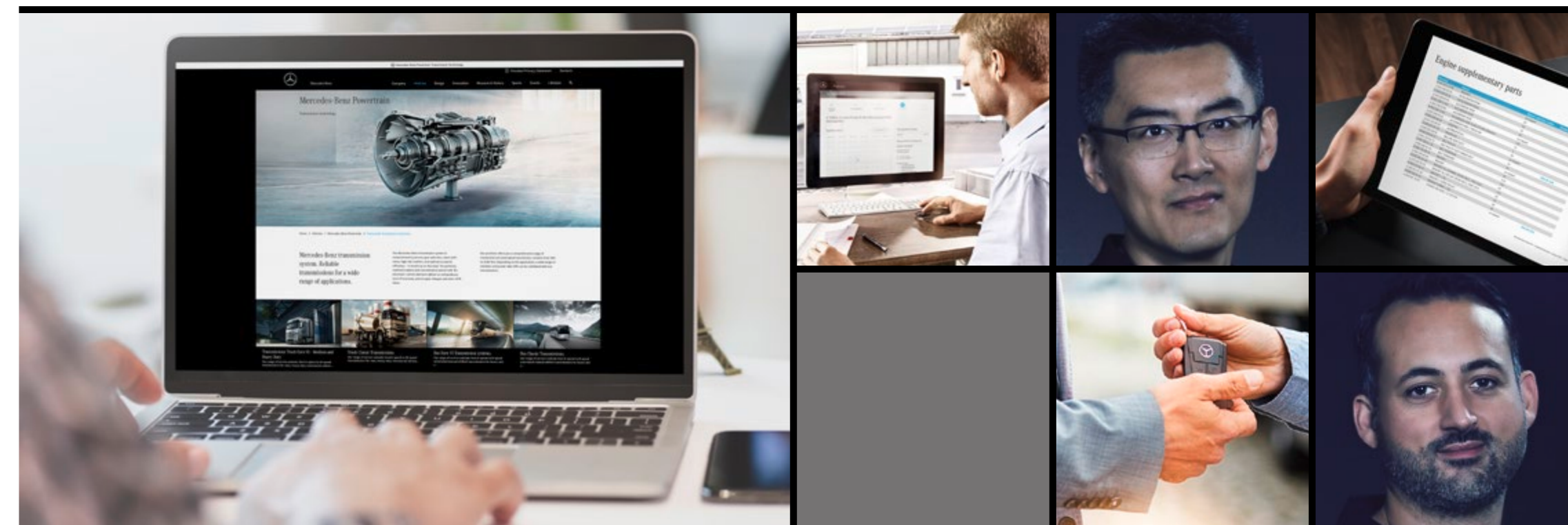
More than products.

Our perfectly matched powertrain delivers you the best possible performance and fuel savings, while maintaining low overall operating costs. The perfect combination of engine systems, transmissions and axles yields the greatest possible efficiency and the best quality made by Mercedes-Benz Powertrain. We tailor Mercedes-Benz Powertrain component configurations to the needs of our customers for sales in the on-highway segment.

If you have technical questions, would like additional information or wish to request installation drawings, please do not hesitate to contact our sales team.

**Sales External Customers
Daimler Truck AG
HPC DTF3B
70771 Leinfelden-Echterdingen**

**aggregate-info@daimlertruck.com
powertrain.mercedes-benz-trucks.com**



Index.

ENGINES					TRUCK	BUSES
Type	Cylinder	Displacement [litres]	Power [kW]	Torque [Nm]		
OM 924	L4	4.8	130, 160	675, 810	x	x
OM 926	L6	7.2	175 ² , 188 ² , 210, 240	850 ² , 970 ² , 1120, 1300	x	x
OM 457	L6	12.0	260 ² , 265 ² , 295, 310 ² , 315	1600 ² , 1750 ² , 1850 ² , 1900 ² , 2000, 2100	x	x
OM 460	L6	12.8	335, 375	2300, 2400	x	

TRANSMISSIONS					TRUCK	BUSES
Type	Ratio	Forward gears	Max. input torque [Nm]			
G 211-12 PowerShift 2	14.93-00/14.93	12	2100		x	
G 281-12 PowerShift 2	14.93-00/14.93	12	2800		x	
G 330-12 PowerShift 2	11.64-0.78/14.93	12	3300		x	

RETARDER	TRUCK	BUSES
Hydrodynamic retarder	x	x

AXLES			TRUCK	BUSES
Type [front axles]	Wheel-end size [inches]	Axle load [t]		
F 4.1-F 4.4	17.5	4.1-4.4	x	x
F 5.3-F 6.1	19.5	5.3-6.1	x	x
FD 346-FD 360	19.5	4.7-6	x	
FO 7.5	22.5	7.5		x
F 7.5-F 8	22.5	7.5-8	x	x
F 9-F 9.5	22.5	9-9.5	x	x
FD 233 P	22.5	7.5-9	x	
FD 233 P + FT 233 P	22.5	18	x	

			TRUCK	BUSES
Type [rear axles]	Wheel-end size [inches]	Axle load [t]		
R 325	17.5	6.2-8.3	x	x
R 390	19.5	11	x	x
R 440	22.5	13	x	x
R 485	22.5	13	x	
R 233 P-R 300 P	22.5	13.4-18	x	
RT 233 P + R 233 P-RT 300 P + R 300 P	22.5	26.8-32	x	
RT 390 + RT 390 T	22.5	20	x	
RT 440 + R 440	22.5	26	x	

¹ Output level only available for trucks. ² Output level only available for buses.

November 2021

Please note: changes may have been made to the products since this publication went to press (11/2021). The manufacturer reserves the right to make changes to the design, form, colour and specification during the delivery period, provided these changes, while taking into account the interests of the vendor, can be deemed reasonable with respect to the purchaser. Where the vendor or the manufacturer uses symbols or numbers to describe an order or the subject of an order, no rights may be derived solely from these. The illustrations may show accessories and items of optional equipment which are not part of the standard specification. Colours may differ slightly from those shown, owing to the limitations of the printing process. This publication is distributed internationally. It may contain products and services which are not available in certain countries. Information given regarding statutory regulations, legal requirements and taxation and the consequences thereof applies to the Federal Republic of Germany only and is correct at the time of going to press.

Daimler Truck AG, Fasanenweg 10, 70771 Leinfelden-Echterdingen, Germany, TT/LPS

5330 · 2100 · 01 · 04/1121 Printed in Germany