



PORTFOLIO TRUCK EURO VI

Mercedes-Benz Powertrain

Mercedes-Benz
Trucks you can trust



OVERVIEW



› Mercedes-Benz Powertrain



› Engine systems



› Transmissions



› Axles



› Service

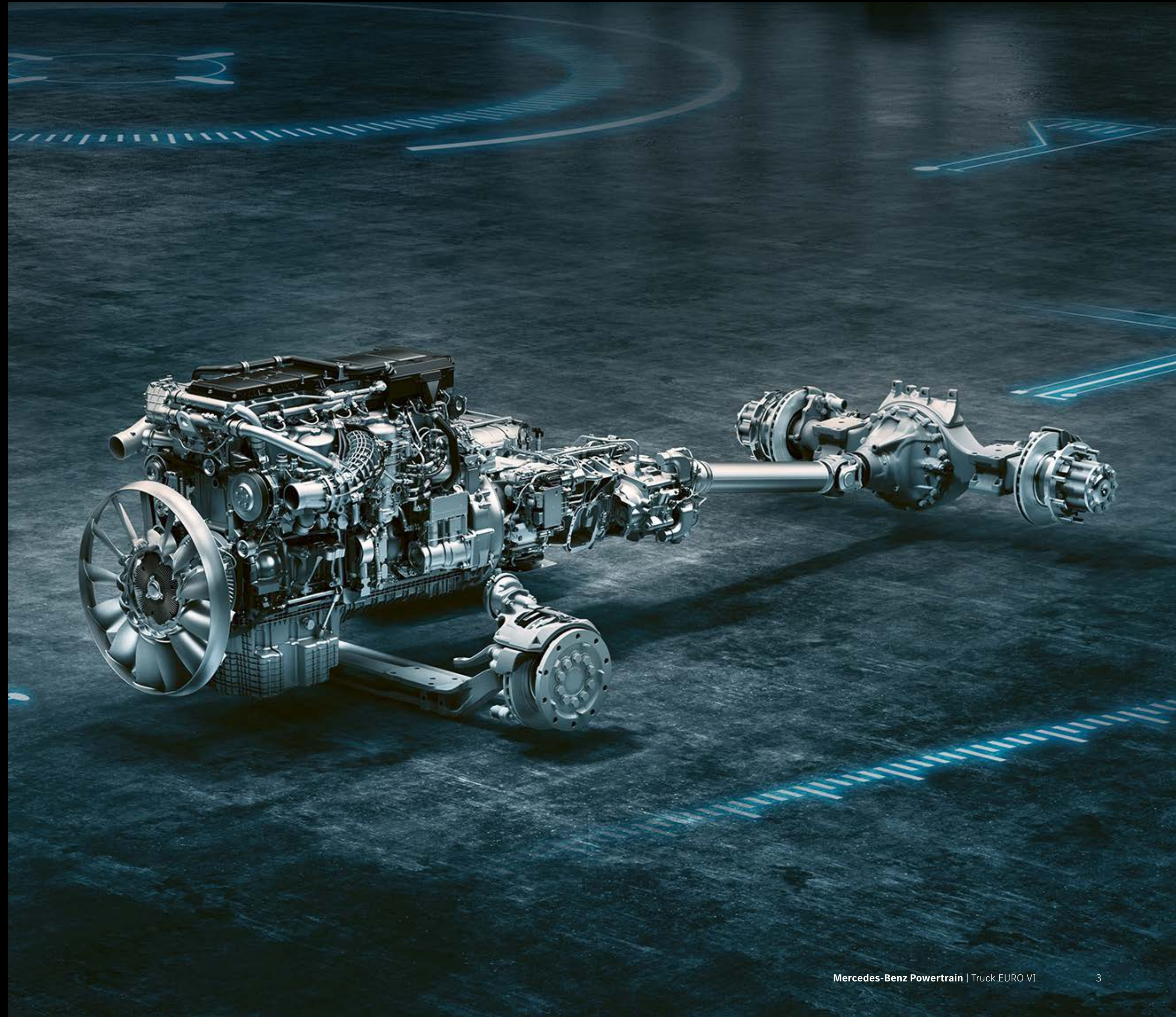


› Index

MERCEDES-BENZ POWERTRAIN

Global leader. In technology
and efficiency.

- › Outperforming components
- › Benefits
- › TCO reduction



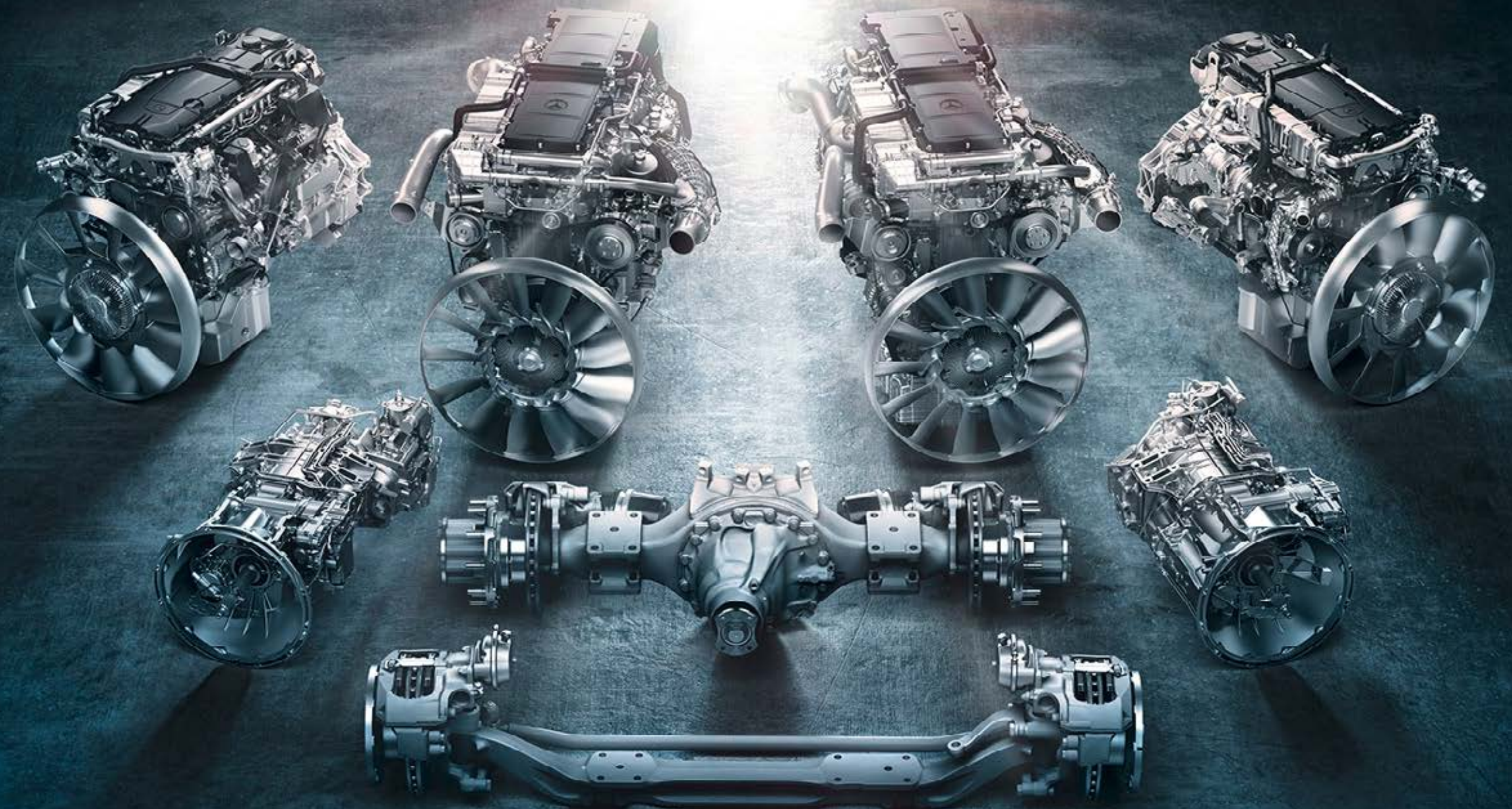
Mercedes-Benz Powertrain

GOING THE EXTRA MILE. MERCEDES-BENZ POWERTRAIN.

Mercedes-Benz Powertrain offers out-performing 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.





Mercedes-Benz Powertrain

BENEFITS FOR YOU. AND FOR YOUR CUSTOMERS.

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

Mercedes-Benz Powertrain

OUR ENGINE SYSTEMS PRODUCT PORTFOLIO: TCO REDUCTION AT ITS BEST.

The perfect combination of engine systems, transmissions and axles yields the greatest possible efficiency and the **best quality** made by Mercedes-Benz Powertrain.

Our perfectly matched powertrain delivers you the best possible performance and fuel savings, while maintaining low overall operating costs. Through close collaboration with you as our customer, we can perfectly customize the powertrain components to your individual requirements.

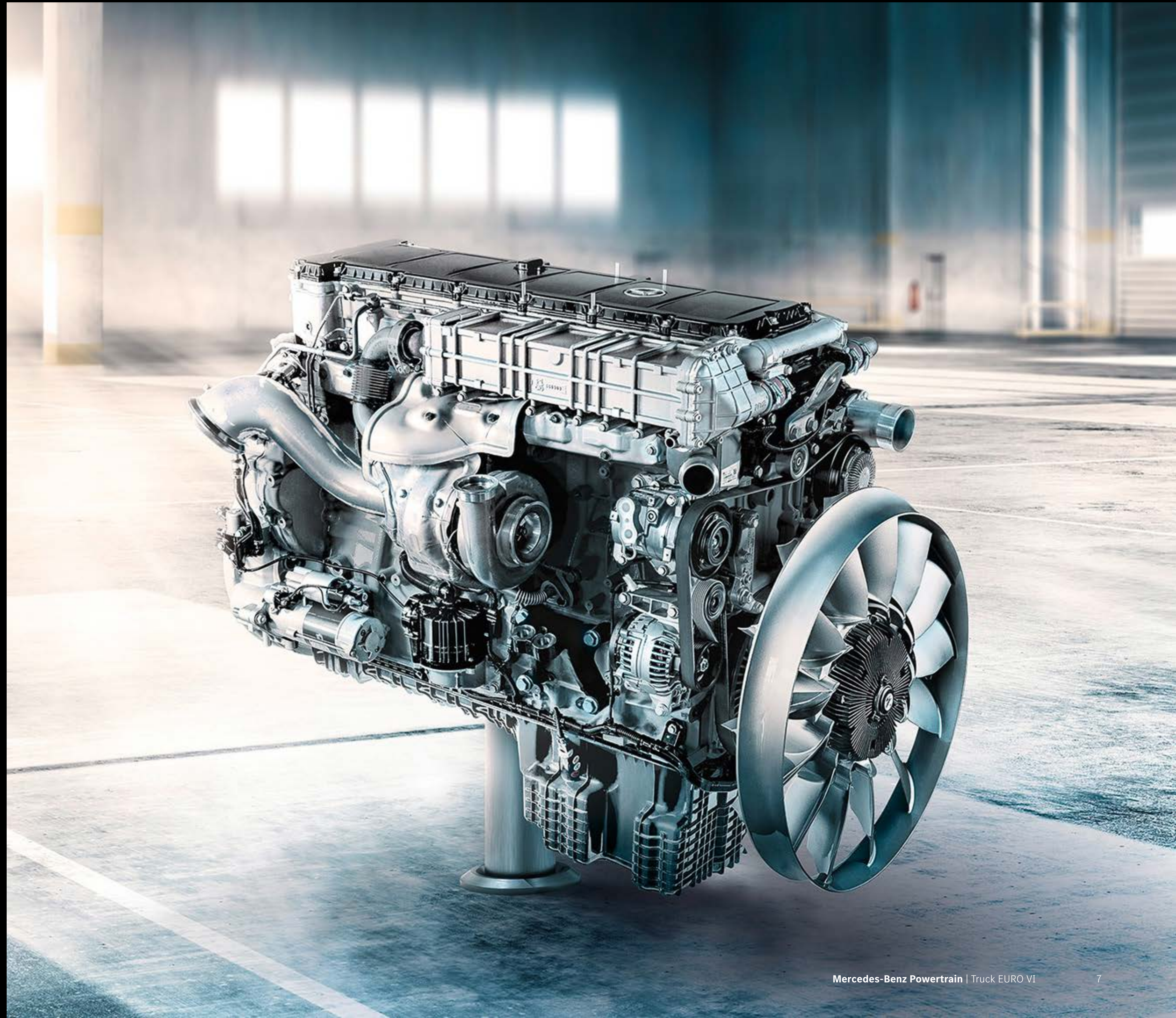
In this way, **optimum fuel efficiency and low TCO** (Total Cost of Ownership) can be achieved. This is an important contribution and our responsibility to your business and also to the environment.



ENGINE SYSTEMS

Our engines set benchmarks.

- › **Engine portfolio**
- › **Heavy-duty engine systems**
- › **Exhaust after-treatment system**
- › **Nomenclature engines**

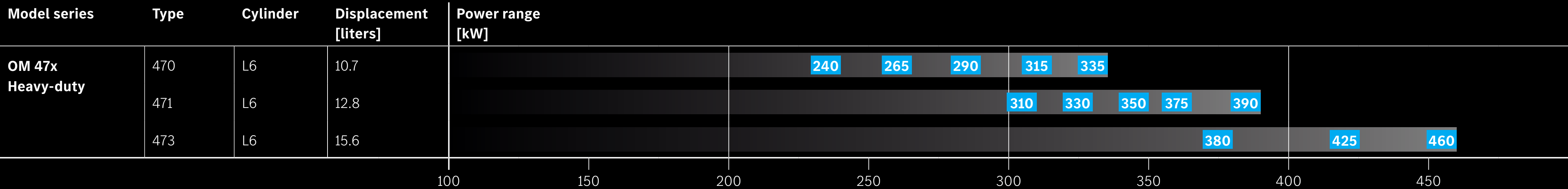




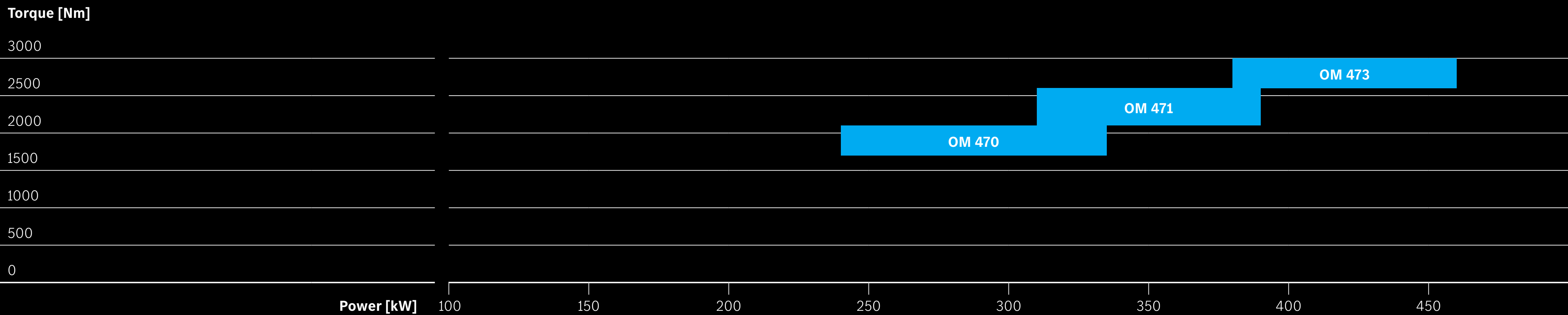
Engine systems

ENGINE SYSTEMS FOR EURO VI.

Portfolio of EURO VI engine systems for trucks



Power range of EURO VI engine systems for trucks





Engine systems

HEAVY-DUTY ENGINE SYSTEMS.

➤ Benefits

➤ OM 470

➤ OM 471

➤ OM 473



Heavy-duty engine systems

ALWAYS GIVING 100%. EFFICIENTLY.

Your product benefits for heavy-duty engine systems:

- **6-cylinder** diesel engines in **in-line arrangement** with **cooled exhaust gas recirculation**
- **Displacement** between **10.7** and **15.6 litres**
- **Output** of **240** up to **460 kW**
- **Special combustion system** to minimize fuel consumption
- This engine generation combines **high performance** with **low fuel consumption**
- Common **rail injection system** of up to 2700 bar
- **Captive 1-stage asymmetric turbocharger** with outstanding efficiency
- **15.6-litre variant** with turbo compound for maximum reliability and durability
- Future-proof **valve timing gear** with 2 overhead camshafts and 4-valve technology
- Powerful and dynamic **engine brakes** with up to 480 kW brake power
- Additional **power take-off** options
- **“One box”** exhaust after-treatment with SCR and DPF



Heavy-duty engine systems

OM 470

Arrangement: In-line 6
Displacement: 10.7 l



Weight and dimensions*

Weight

DIN 70020 - GZ 935 kg

Dimensions

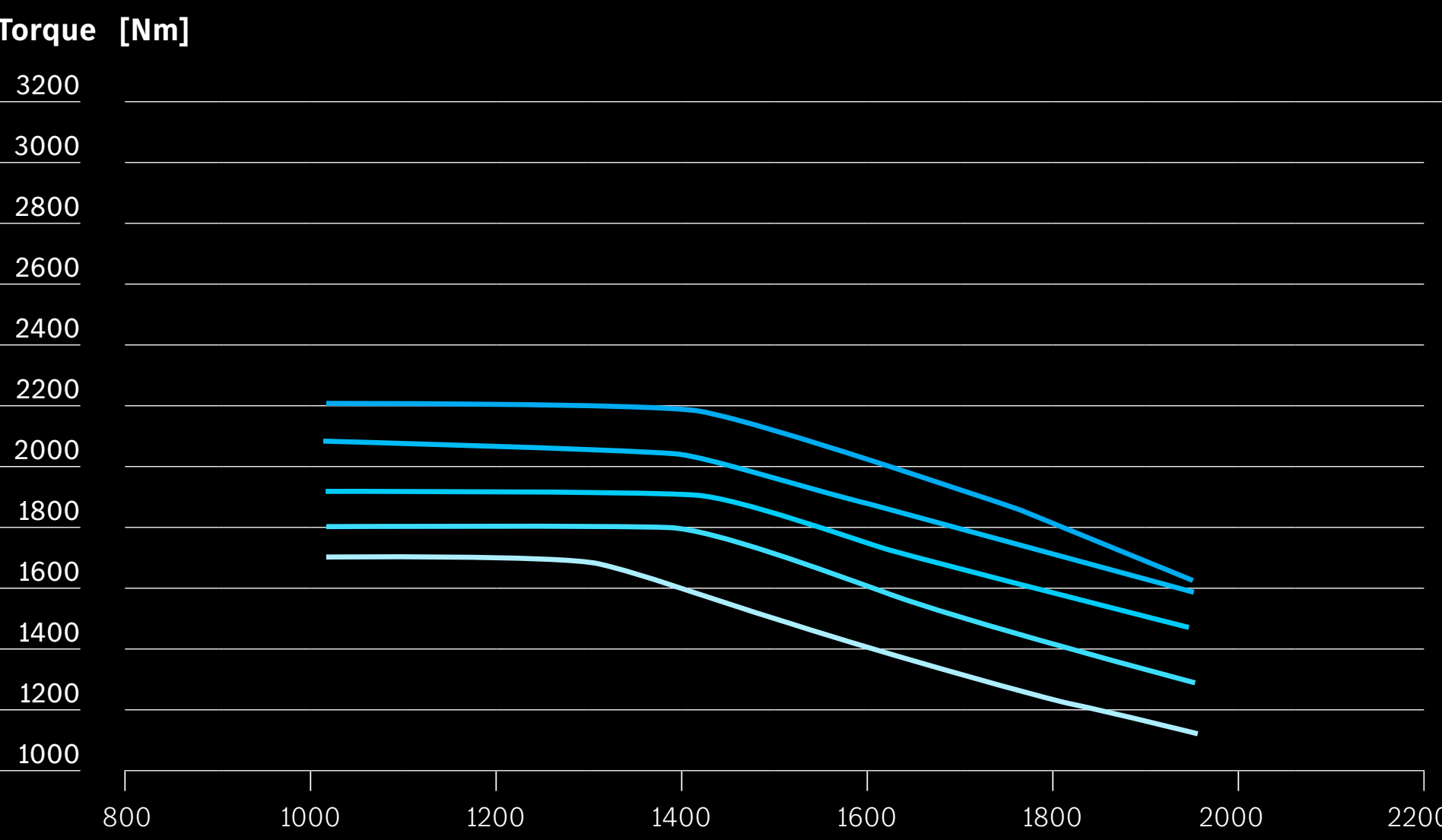
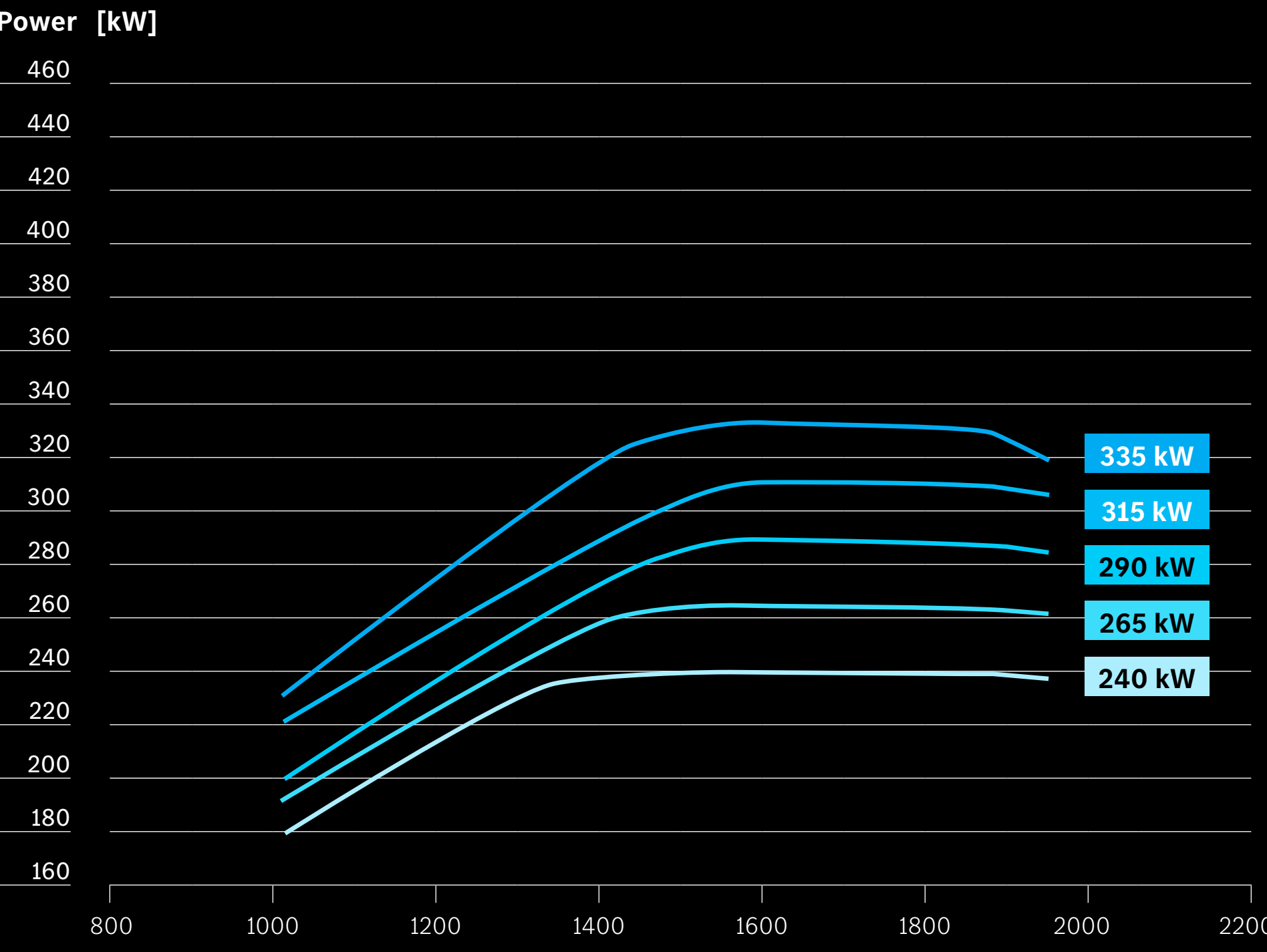
A = length 1475 mm
B = width 1135 mm
C = height 1182 mm

* depending on equipment installed

Rated power and maximal torque

Rated power	[kW/hp]	240/326	265/360	290/394	315/428	335/456
at engine speed	[rpm]	1600	1600	1600	1600	1600
Maximal torque	[Nm]	1700	1800	1900	2100	2100
at engine speed	[rpm]	1100	1100	1100	1100	1100

Performance



Heavy-duty engine systems

OM 471

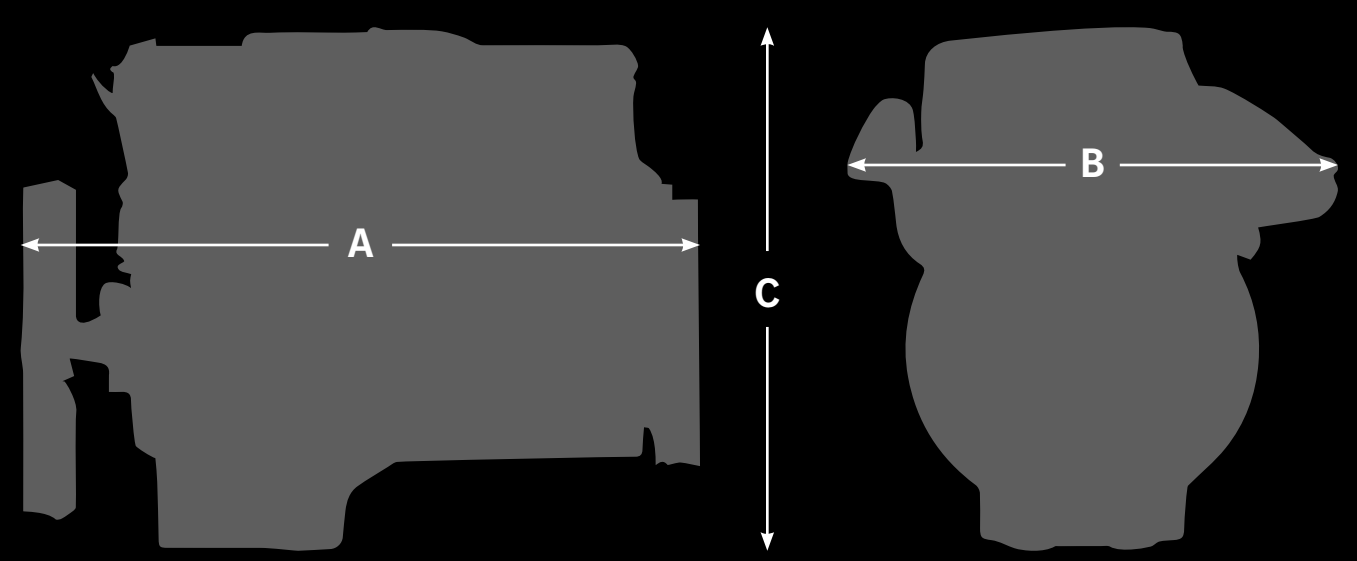
Arrangement: In-line 6
Displacement: 12.8 l



Weight and dimensions*

Weight
DIN 70020 - GZ 1078 kg

Dimensions
A = length 1551 mm
B = width 1130 mm
C = height 1245 mm

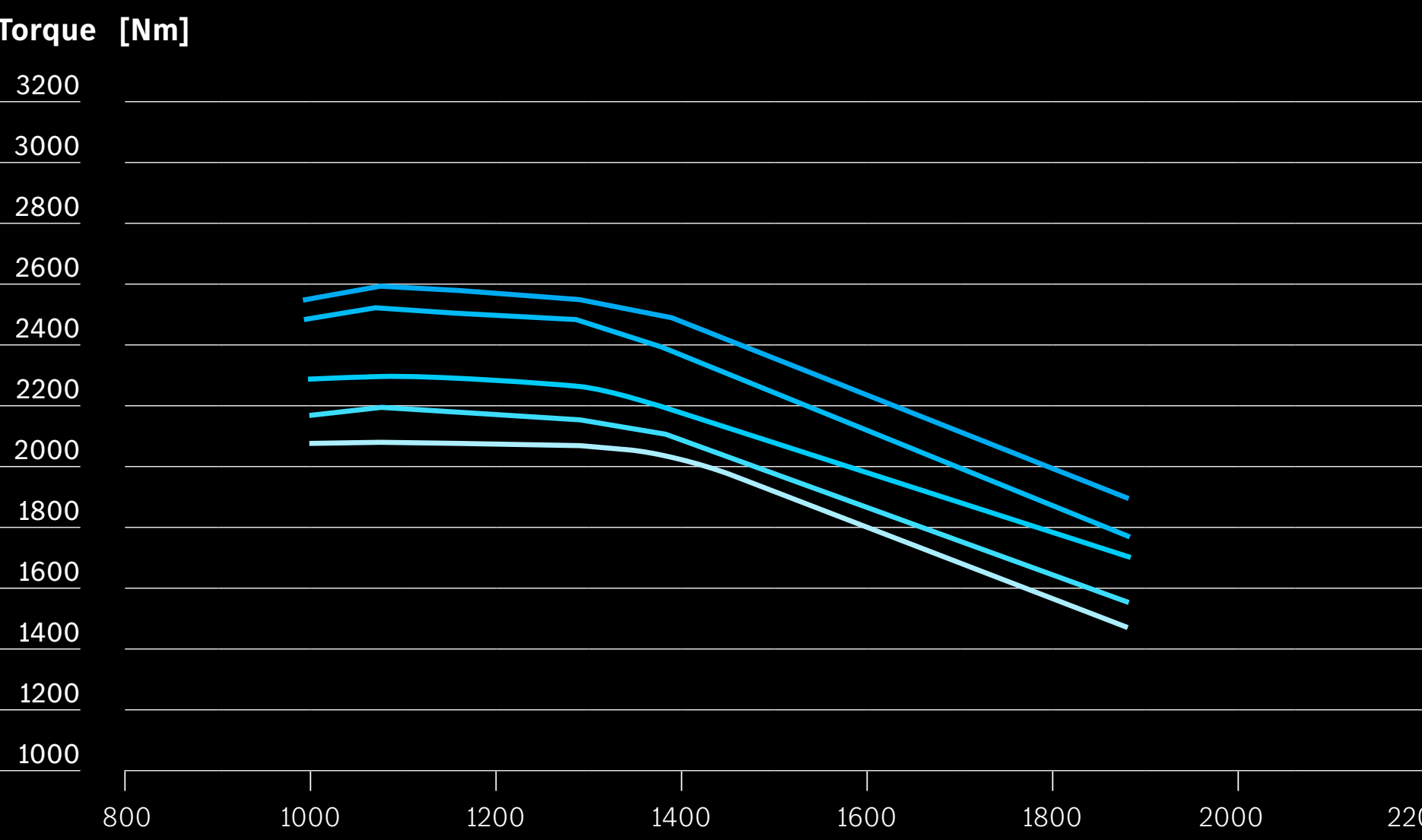
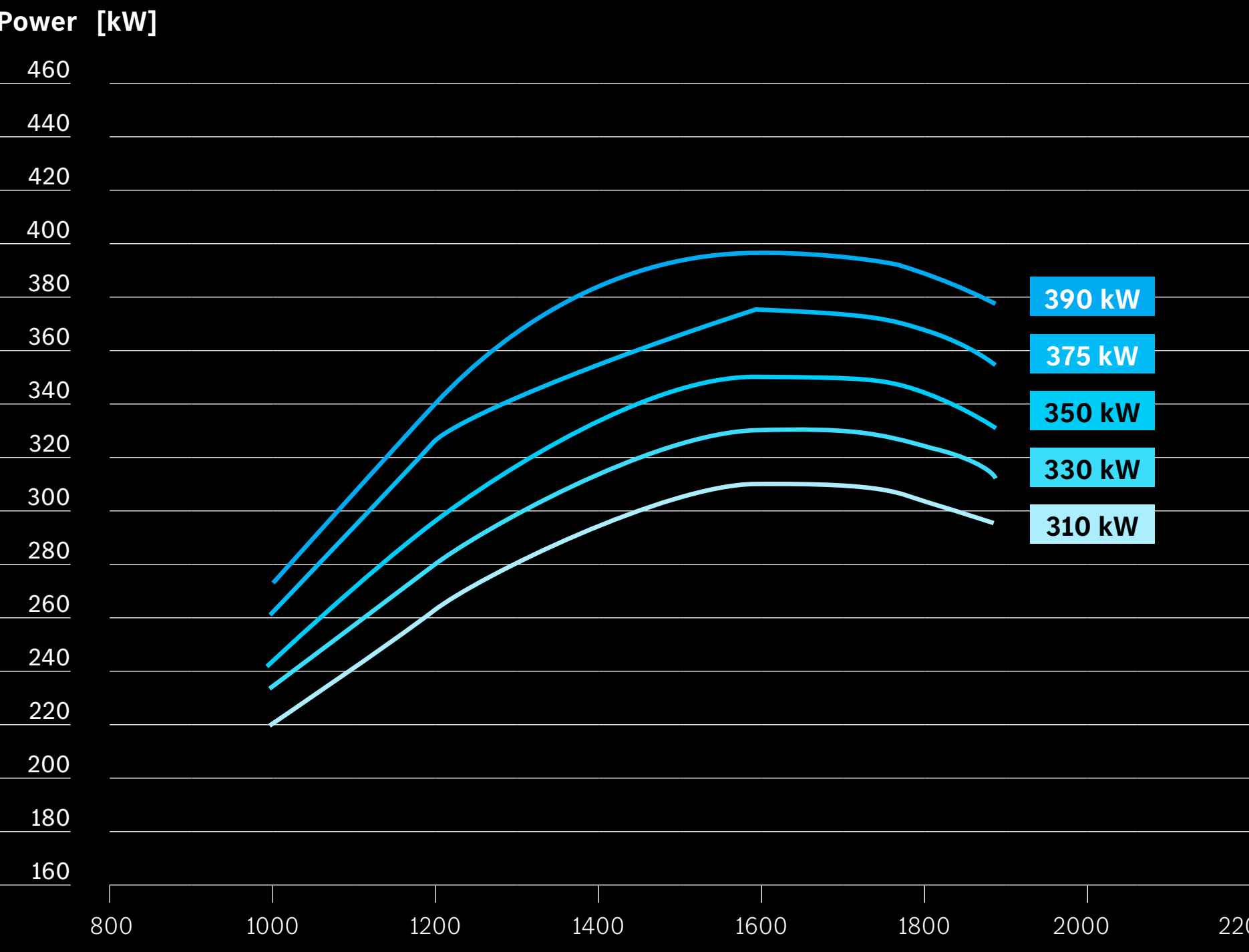


* depending on equipment installed

Rated power and maximal torque

Rated power	[kW/hp]	310/422	330/449	350/476	375/510	390/530
at engine speed	[rpm]	1600	1600	1600	1600	1600
Maximal torque	[Nm]	2100	2200	2300	2500	2600
at engine speed	[rpm]	1100	1100	1100	1100	1100

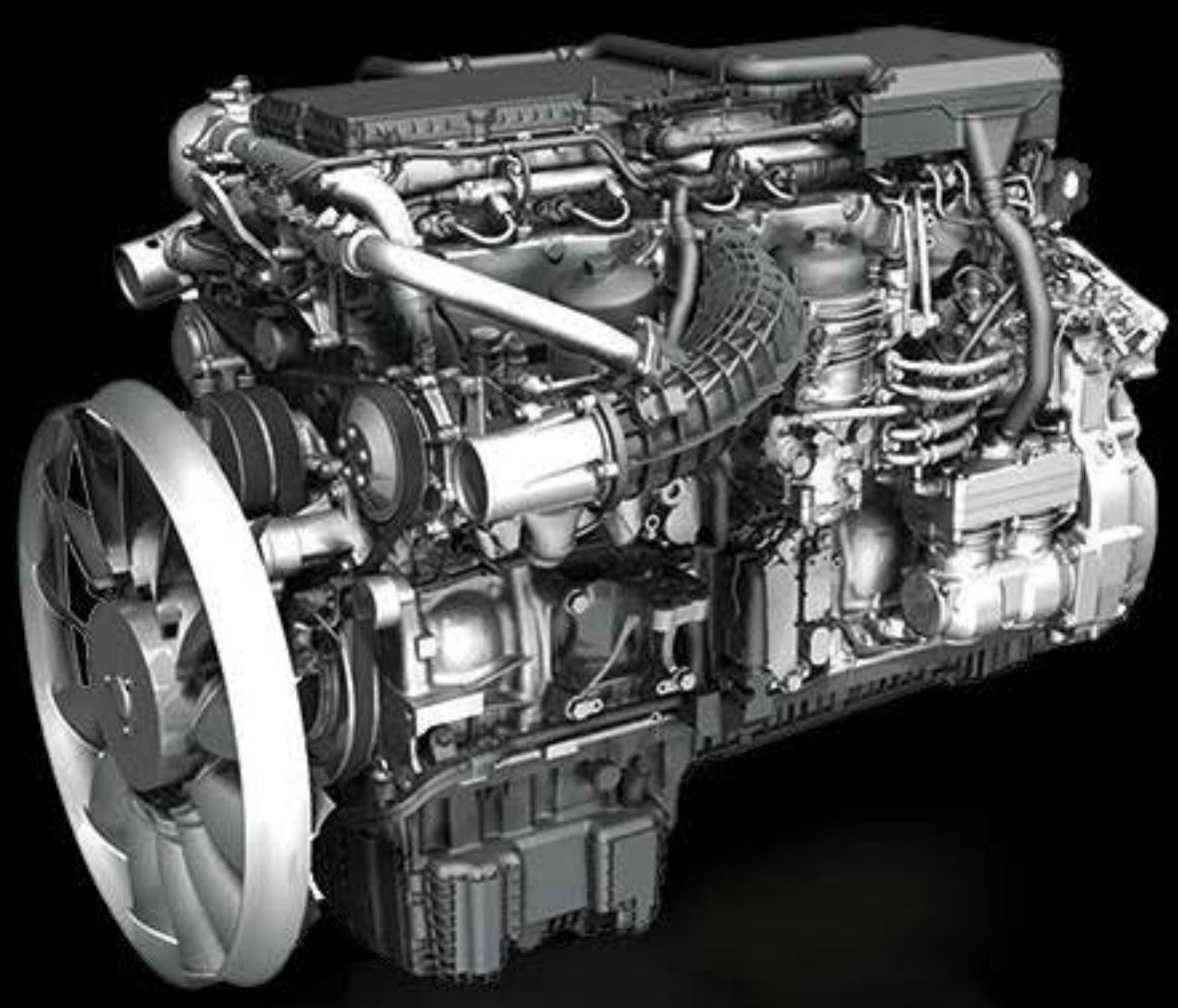
Performance



Heavy-duty engine systems

OM 473

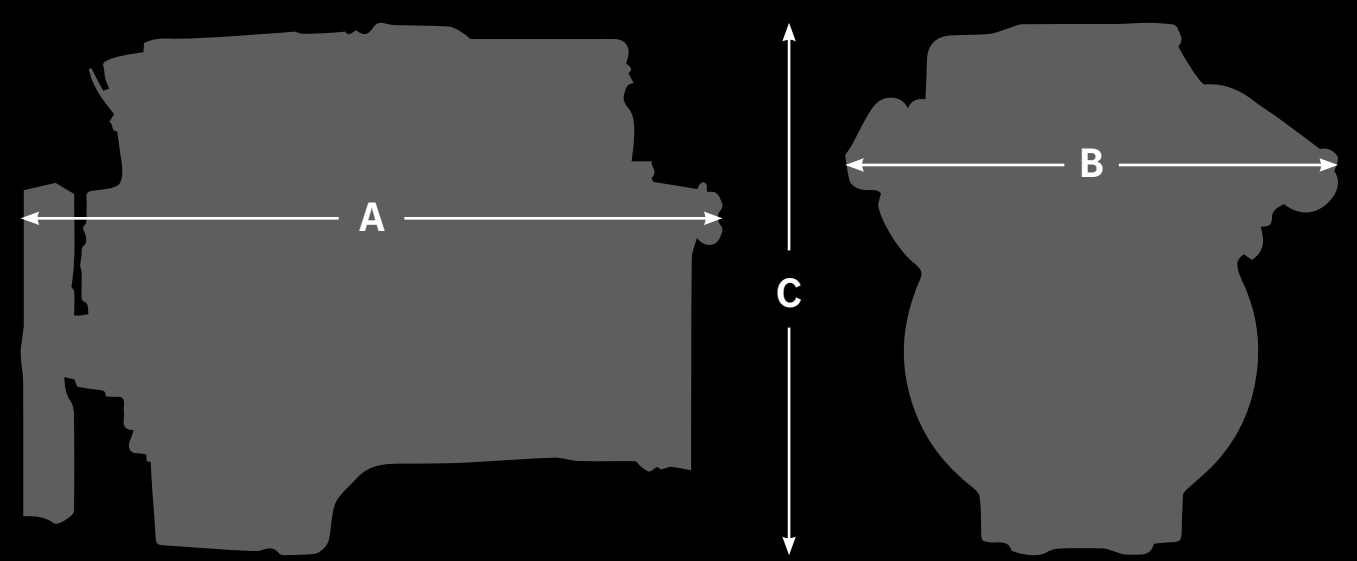
Arrangement: In-line 6
Displacement: 15.6 l



Weight and dimensions*

Weight
DIN 70020 - GZ 1237 kg

Dimensions
A = length 1595 mm
B = width 1120 mm
C = height 1220 mm

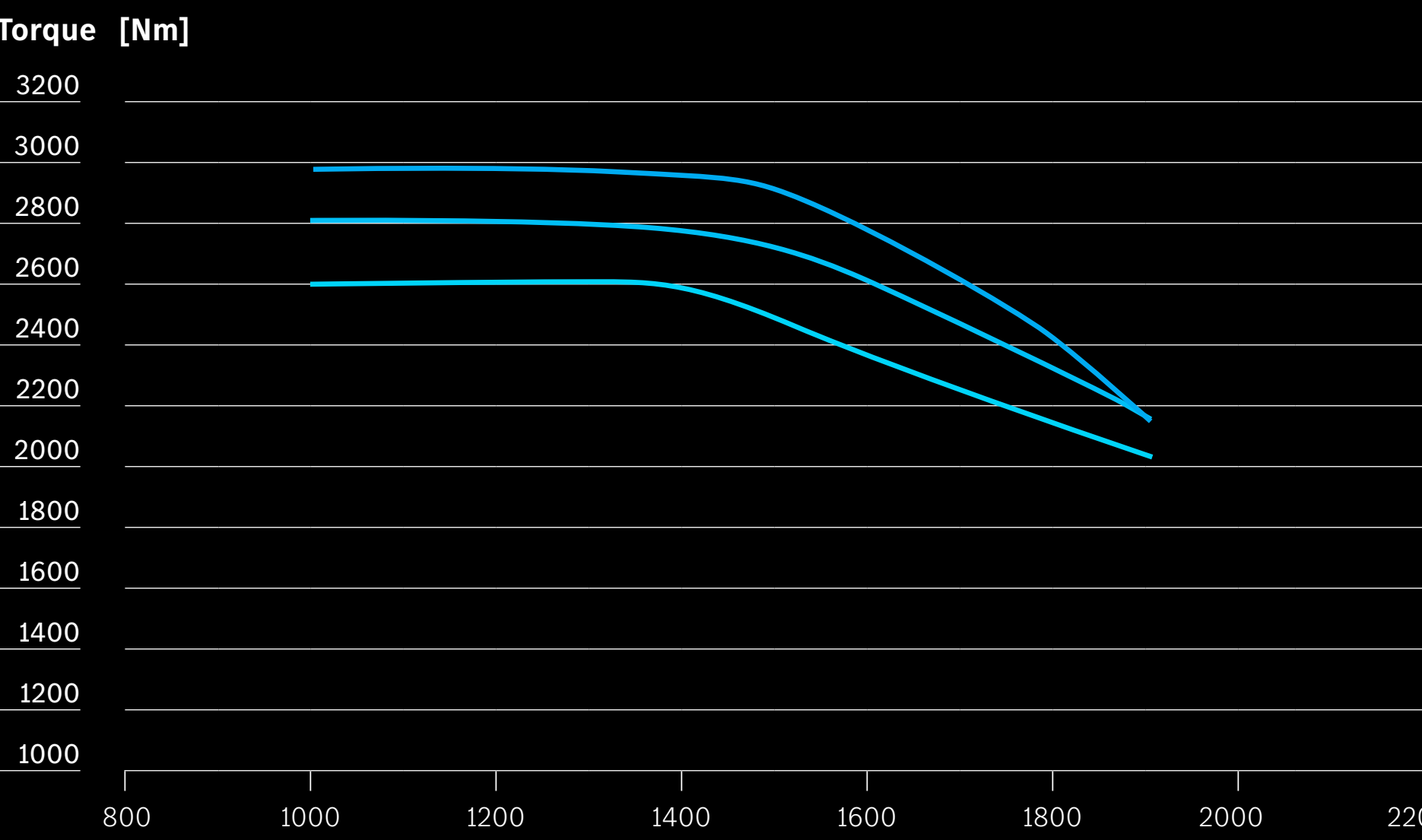
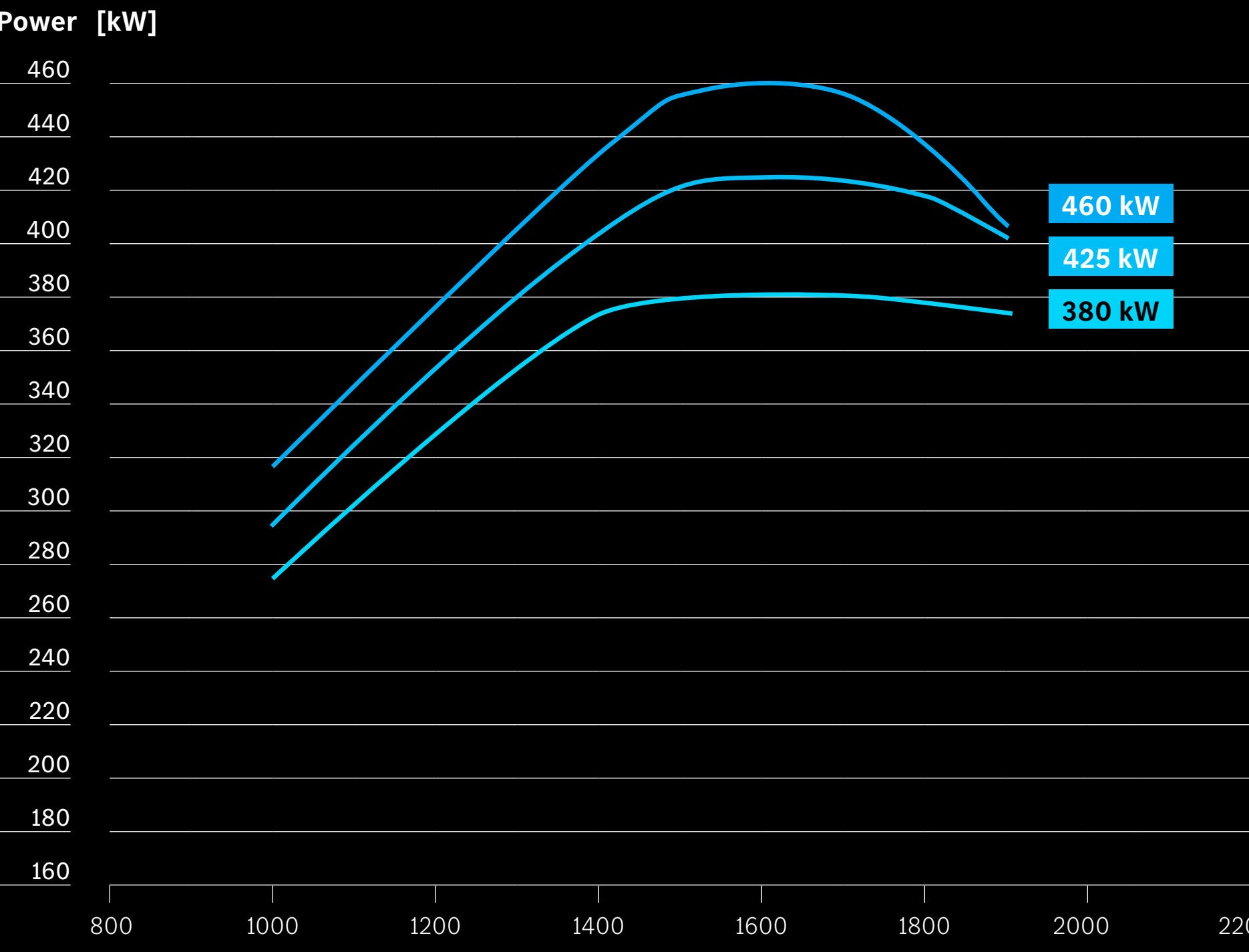


* depending on equipment installed

Rated power and maximal torque

Rated power	[kW/hp]	380/517	425/578	460/626
at engine speed	[rpm]	1600	1600	1600
Maximal torque	[Nm]	2600	2800	3000
at engine speed	[rpm]	1100	1100	1100

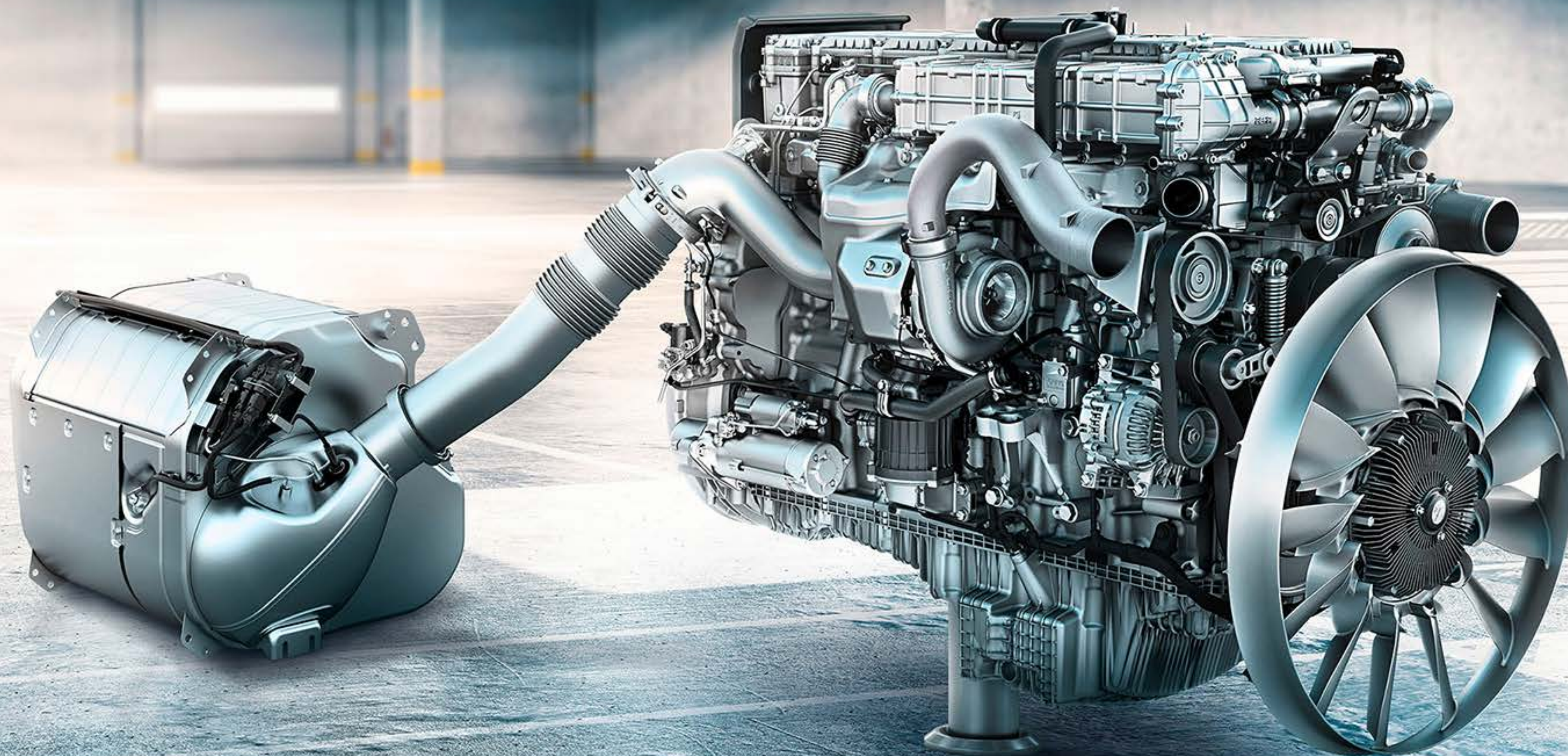
Performance



Engine systems

EXHAUST AFTER-TREATMENT SYSTEM.

> Benefits



Exhaust after-treatment system

CLEAN FROM START TO FINISH.

Your product benefits for the after-treatment system:

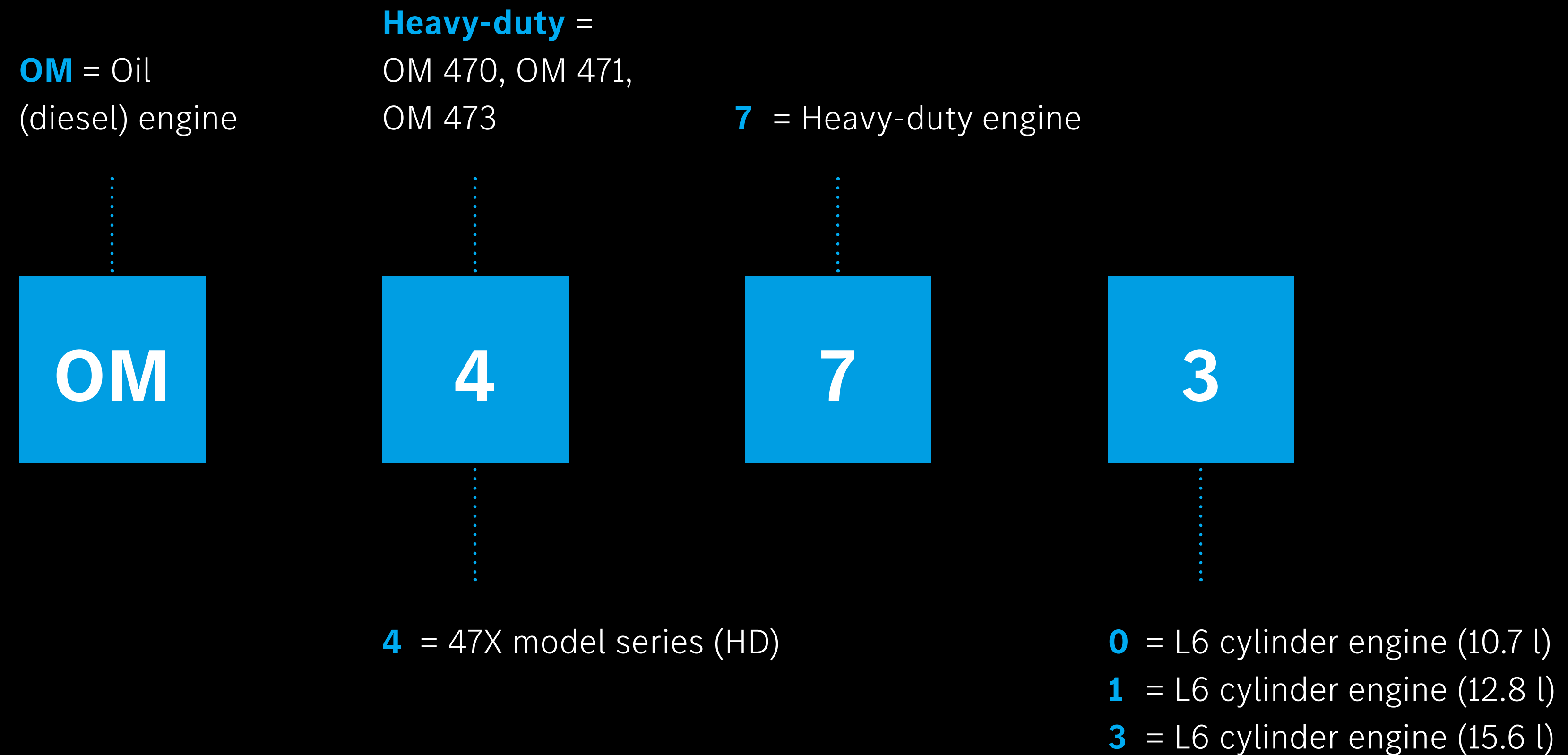
- Low exhaust **back pressure**
- Significant **NOx reduction** at a full range of exhaust gas volume flows and exhaust gas temperatures
- Maximum possible **soot burn-off** in the diesel particulate filter (DPF) by automatic regeneration
- Adaptive **regeneration of the DPF** in all relevant driving cycles
- Large **ash storage** capacity of DPF for extended maintenance intervals
- Small **installation space** and low weight
- Long **service lifetime**, adapted to the engine's service lifetime

- Consistent common parts strategy
- Many different **variants** for exhaust gas inlet and outlet
- Metering of **AdBlue®** without compressed air; very low AdBlue® consumption

The 4- and 6-cylinder Euro VI engines from Mercedes-Benz impress with consistently low fuel consumption, reduced CO₂, particulate matter and low nitrogen oxide emissions.

The overall system is trimmed for superior efficiency as early as the design and engineering phase. As an example, **the intelligent combination of selective catalytic reduction (SCR), cooled and controlled exhaust-gas recirculation (EGR) and a diesel particulate filter (DPF) reduces emissions** to a fraction of previous emission standards.

DERIVATION “NOMENCLATURE” - ENGINE SYSTEMS.

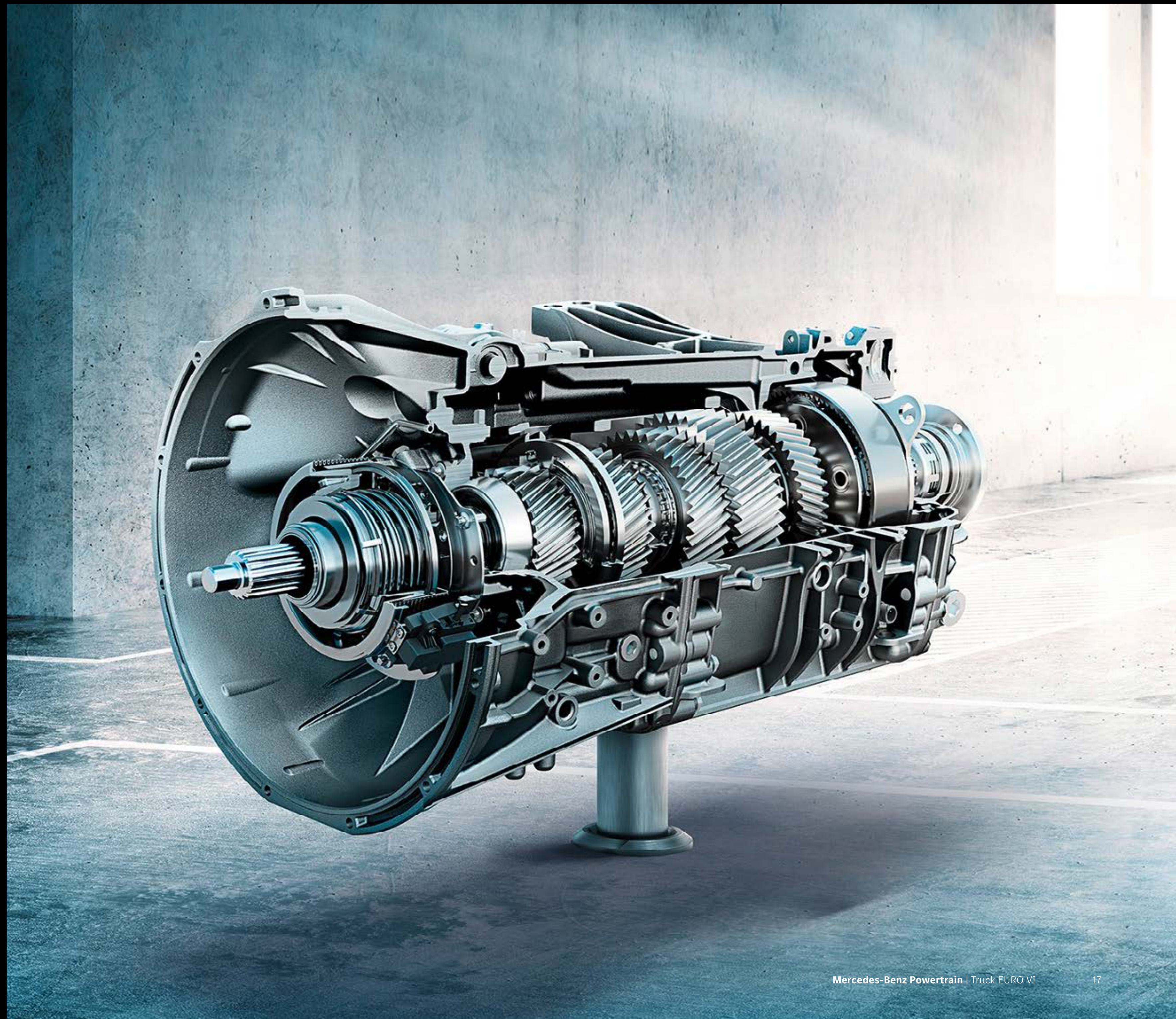


* BR = Baureihe = model series

TRANSMISSIONS

Reliable transmissions for a wide range of applications.

- › **Transmissions**
- › **Transmission portfolio**
- › **Heavy-duty transmissions**
- › **TRC transmission**
- › **Nomenclature transmissions**



SMOOTH AND EFFICIENT OPERATION IN EVERY SITUATION.

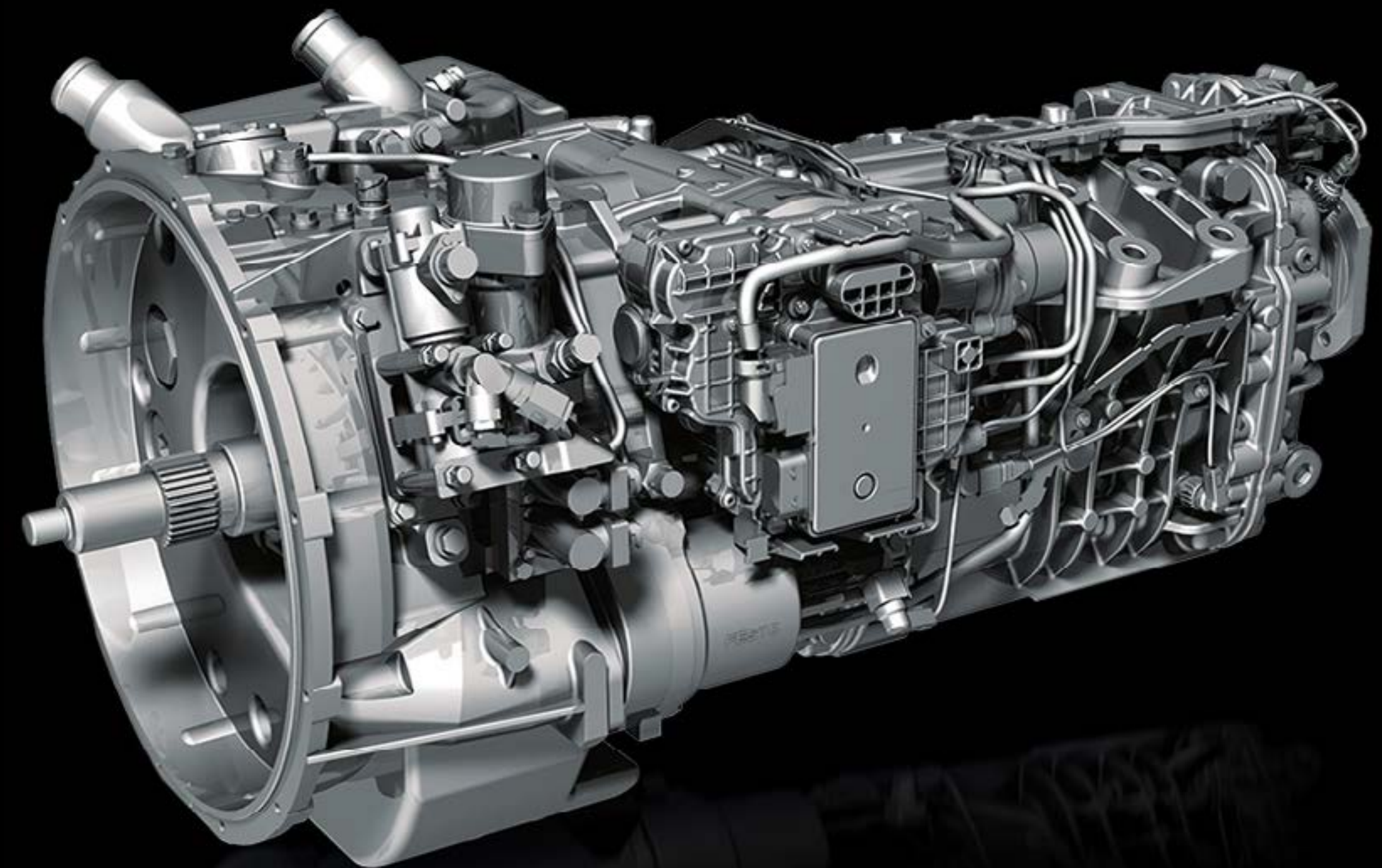
Our range of service extends from 12-speed to 16-speed transmissions for heavy-duty commercial vehicles, special vehicles and mobile cranes. An extensive selection of power take-off units, transfer cases and various circuit variants ensure that a custom-made transmission can be developed from standardized components. All transmissions are manufactured on a large scale by Mercedes-Benz Commercial Vehicles and are engineered to meet the highest standards of technology and quality.

Meeting the demands of our customers is the focus of our work. We feel committed to advancing the design of our systems in a consistent and innovative way in line with market and customer requirements.

Our know-how is based on decades of experience in the manufacturing and development of commercial vehicle transmissions. This manufacturing expertise distinguishes our transmissions today through three features in particular:

- **Very smooth running characteristics**
- **Low weight**
- **Extreme durability**

In future, we will continue to stand for innovative products focused on customer-oriented applications.

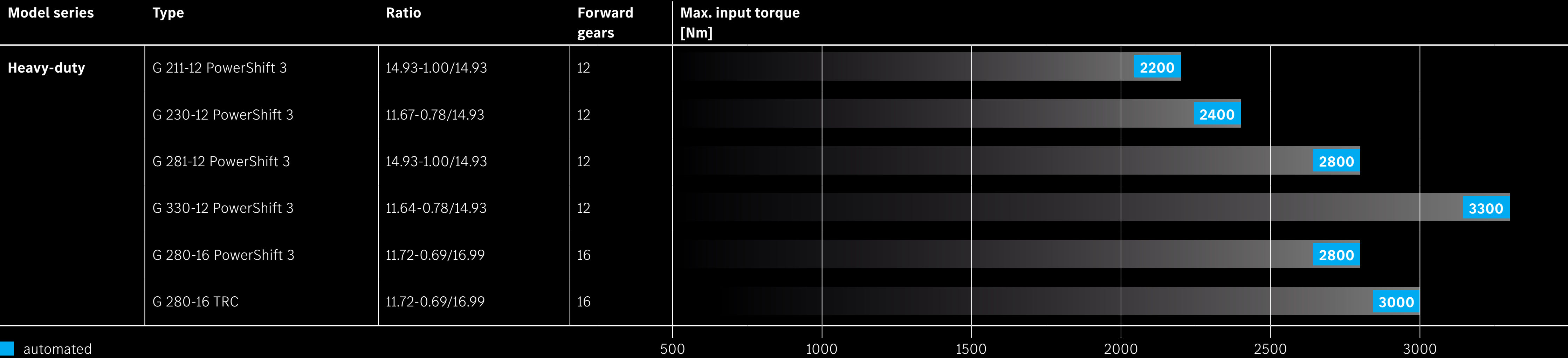




Transmissions

TRANSMISSIONS FOR EURO VI ENGINE SYSTEMS.

Portfolio of transmissions for trucks



Meaning of symbols:

AMT

Fully automated manual transmission



Transmission for heavy-duty trucks and special vehicles



Transmission for cranes



Transmissions

HEAVY-DUTY TRANSMISSIONS.

› **Benefits**

› **G 211-12 PowerShift 3**

› **G 230-12 PowerShift 3**

› **G 281-12 PowerShift 3**

› **G 330-12 PowerShift 3**

› **G 280-16 PowerShift 3**



Heavy-duty transmissions

HARD-WORKING AND RESILIENT.

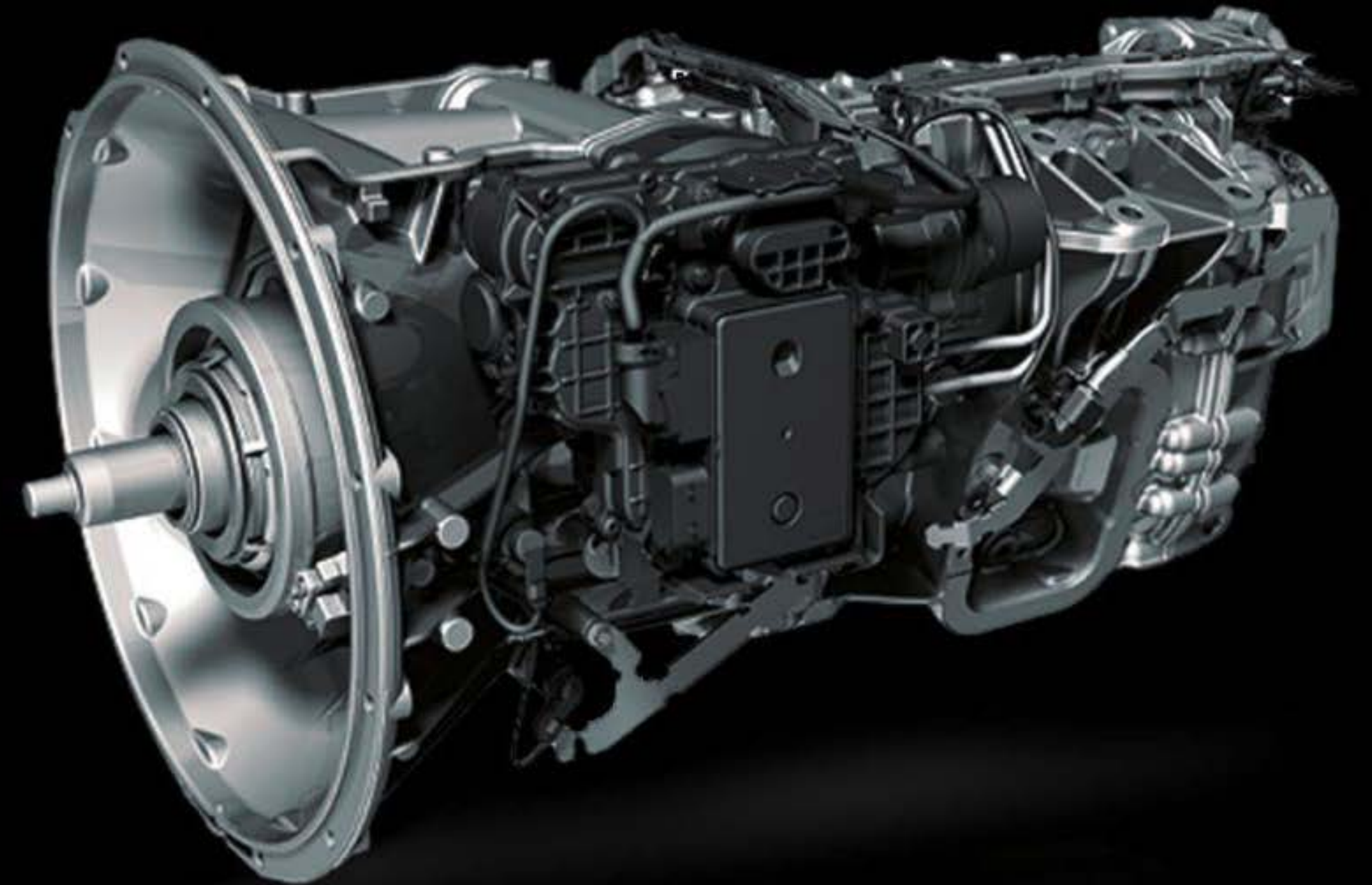
Your product benefits for heavy-duty transmissions:

- **12- to 16-speed** manual and automated shifted manual transmissions
- **Max. input torque** from **2200** to **3300 Nm**
- **Gear ratio** spread from **11.64** to **17.17**
- Max. permissible **gross combination weight (GCW)** from **44** to **60 t (250 t)**
- **Secondary water retarder** can be adapted
- Highly variable **modular systems** for customer-specific system solutions
- **Quiet running characteristics** and **long service life** through optimized gear set geometry and high-precision processing technologies
- **Compact design** and **weight-optimized** metal housing for ideal installation dimensions and an ideal power/weight ratio
- **Long service intervals** and **low operating costs** due to a **fuel-efficient design** optimized for customer-specific operating conditions
- More **comfortable vibration characteristics** due to integrated engine suspension on the transmission housing

G 211-12 POWERSHIFT 3



- 12-speed none synchronized transmission with a wide gear ratio spread
- Direct-drive configuration
- Secondary water retarder can be adapted



Specifications and dimensions

← B →

Gear	1	2	3	4	5	6	R	Gear ratio spread
iS	14.930	9.024	5.628	3.393	2.051	1.279	14.930	14.93
iL	11.673	7.056	4.400	2.653	1.604	1.000	11.673	14.93



Heavy-duty transmissions

G 230-12 POWERSHIFT 3



- 12-speed none synchronized transmission with a wide gear ratio spread
- Overdrive configuration
- Secondary water retarder can be adapted



Specifications and dimensions

Max. input torque

2400 Nm

Permissible gross combination weight (GCW)

45 t

Transmission weight excl. oil

235 kg/
278 kg*

Oil filling capacity

10 l

A = length

964 mm

B = width

596 mm

C = centre to center

142 mm

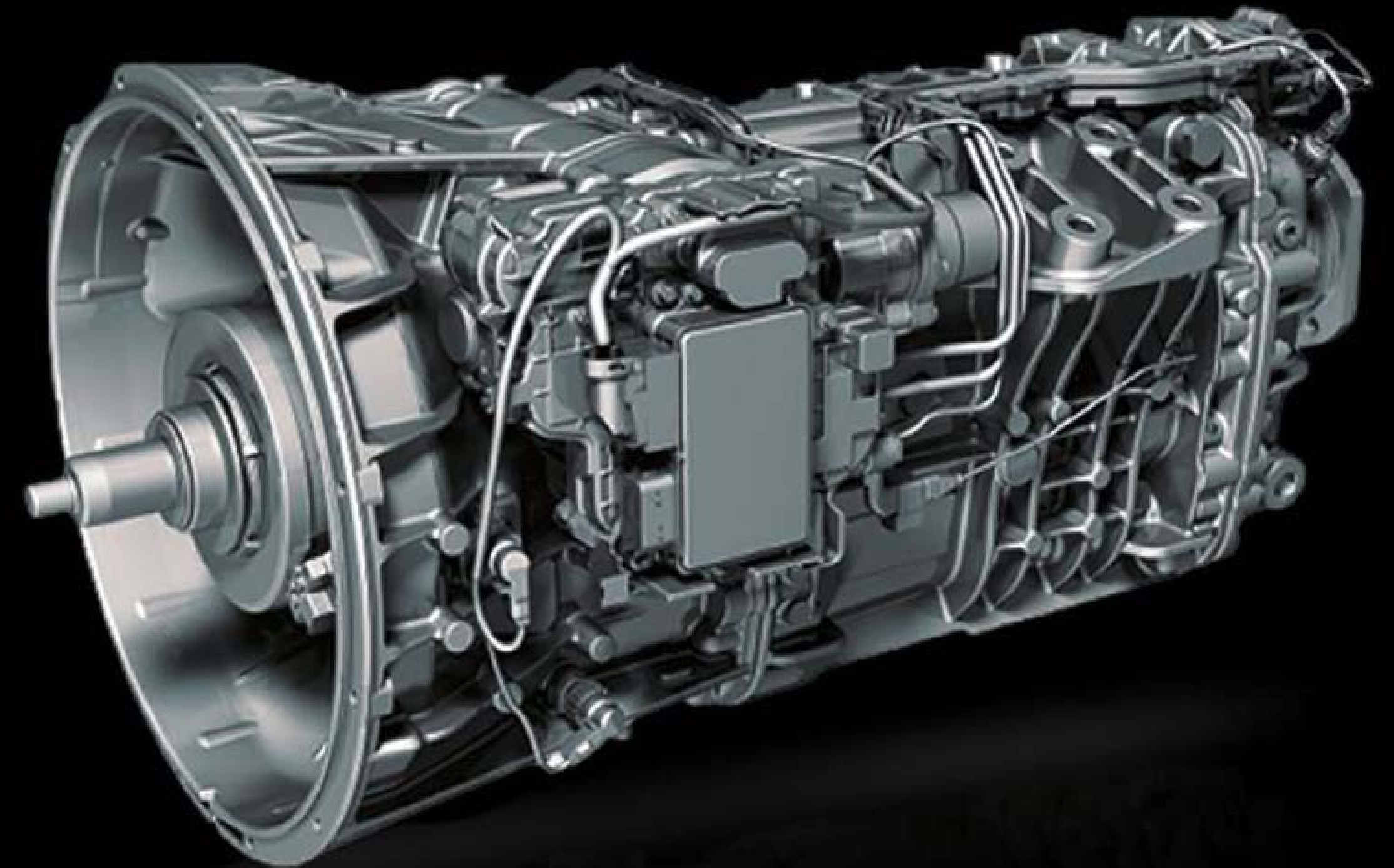
* with retarder

Gear	1	2	3	4	5	6	R1	R2	Gear ratio spread
iS	11.673	7.056	4.400	2.653	1.604	1.000	11.673	2.653	14.97
iL	9.101	5.501	3.431	2.068	1.205	0.780	9.101	2.068	14.97

G 281-12 POWERSHIFT 3

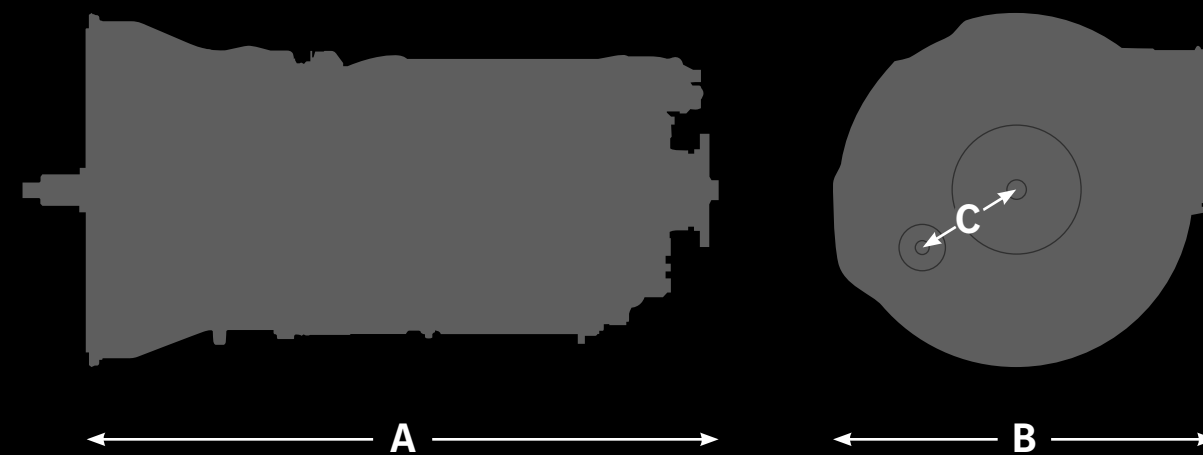


- 12-speed none synchronised transmission with a wide gear ratio spread
- Direct-drive configuration
- Secondary water retarder can be adapted



Specifications and dimensions

Max. input torque	2800 Nm
Permissible gross combination weight (GCW)	60 t
Transmission weight excl. oil	287 kg/ 330 kg*
Oil filling capacity	14 l
A = length	1033.5 mm
B = width	624 mm
C = centre to center	152 mm



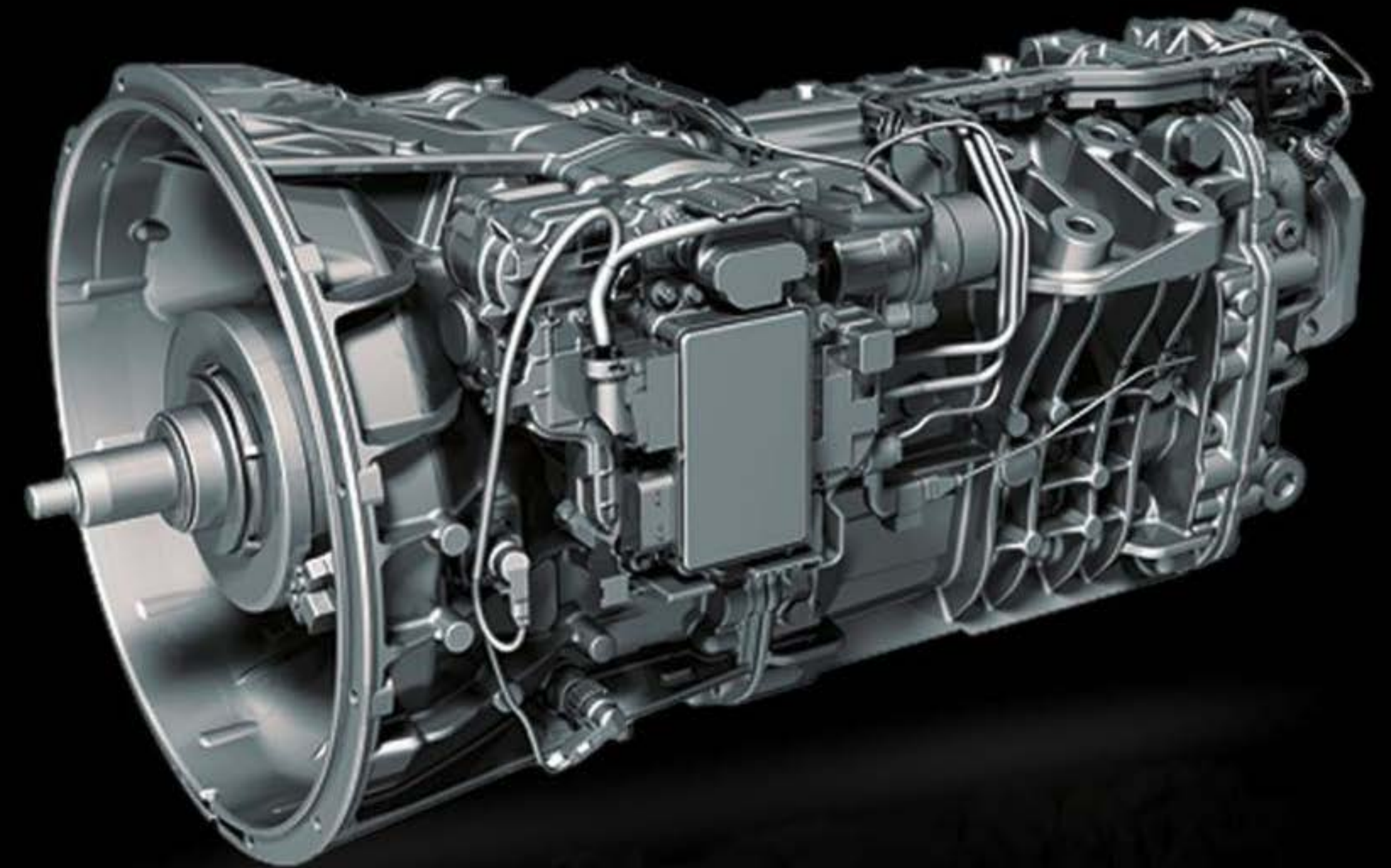
* with retarder

Gear	1	2	3	4	5	6	R1	R2	Gear ratio spread
iS	14.931	11.132	6.581	3.698	2.187	1.293	20.873	4.100	14.93
iL	14.563	8.611	5.091	2.861	1.691	1.000	16.145	3.171	14.93

G 330-12 POWERSHIFT 3

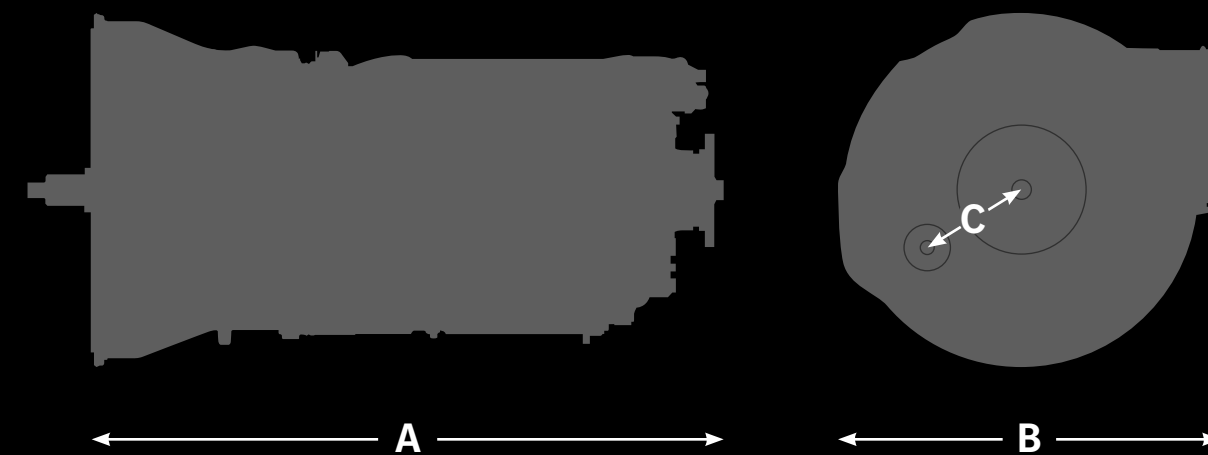


- 12-speed none synchronized transmission with a wide gear ratio spread
- Overdrive configuration
- Secondary water retarder can be adapted



Specifications and dimensions

Max. input torque	3300 Nm
Permissible gross combination weight (GCW)	60 t
Transmission weight excl. oil	287 kg/ 330 kg*
Oil filling capacity	14 l
A = length	1033.5 mm
B = width	624 mm
C = centre to center	152 mm



* with retarder

Gear	1	2	3	4	5	6	R 1	R 2	Gear ratio spread
iS	11.639	7.035	4.400	2.645	1.599	1.000	12.774	2.093	15.02
iL	9.020	5.452	3.410	2.050	1.239	0.775	9.900	2.250	15.02

G 280-16 POWERSHIFT 3



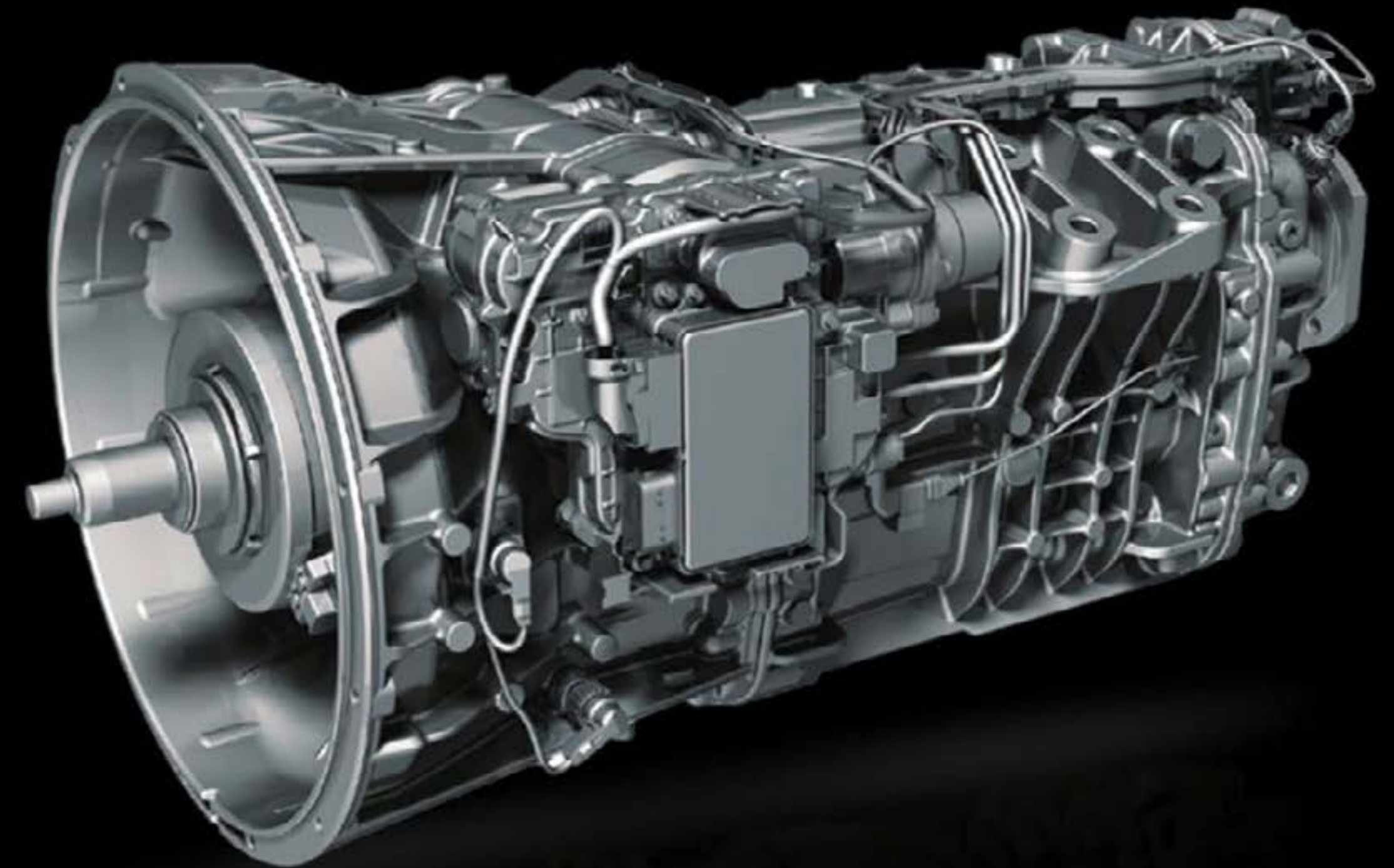
- 16-speed none synchronized transmission with a wide gear ratio spread
- Overdrive configuration
- Secondary water retarder can be adapted

Specifications and dimensions

* with retarder



Gear	1	2	3	4	5	6	7	8	R 1	R 2	Gear ratio spread
iS	11.722	7.916	5.291	3.636	2.664	1.799	1.203	0.826	10.656	2.422	17.06
iL	9.747	6.583	4.400	3.023	2.215	1.496	1.000	0.687	8.861	2.014	17.06





Transmissions

TRC TRANSMISSION.

➤ TRC transmission for extreme applications

➤ G 280-16 TRC



TRC transmission

TRC TRANSMISSION FOR EXTREME APPLICATIONS.

Automated non-synchronous transmission including TRC

The innovative TRC starting and braking element unites hydrodynamic start-up and hydrodynamic braking functions into one system. Unlike conventional torque converter solutions, engine output is transferred by a fill-level-regulated, fluid turbo coupling.

- Wear-free start-up and manoeuvring due to the hydrodynamic transfer of power with no time limit due to variable turbo coupling input.
- In conjunction with the large gear ratio spread, it is possible to manoeuvre heavy loads with millimetre precision, even when tractional resistance is high.
- Braking with no wear due to integrated primary retarder function and patented coupling configuration.





TRC transmission

G 280-16 TRC



- 16-speed non-synchronous transmission with a wide gear ratio spread
- Overdrive configuration

Specifications and dimensions

Max. input torque

3000 Nm

Permissible gross combination weight (GCW)

250 t

Transmission weight excl. oil

455 kg

Oil filling capacity

13.5 l

A = length

1200 mm

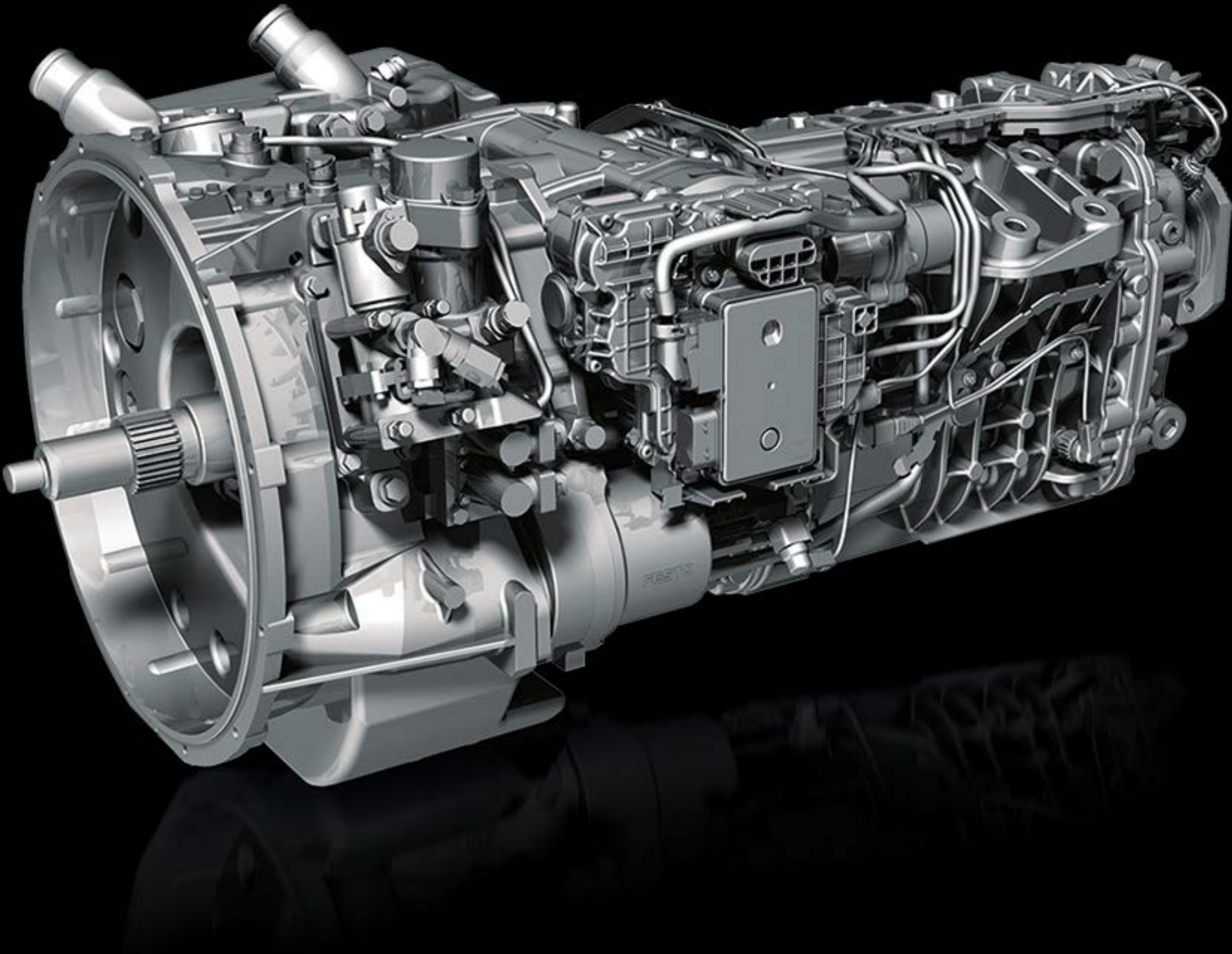
B = width

690 mm

C = centre to center

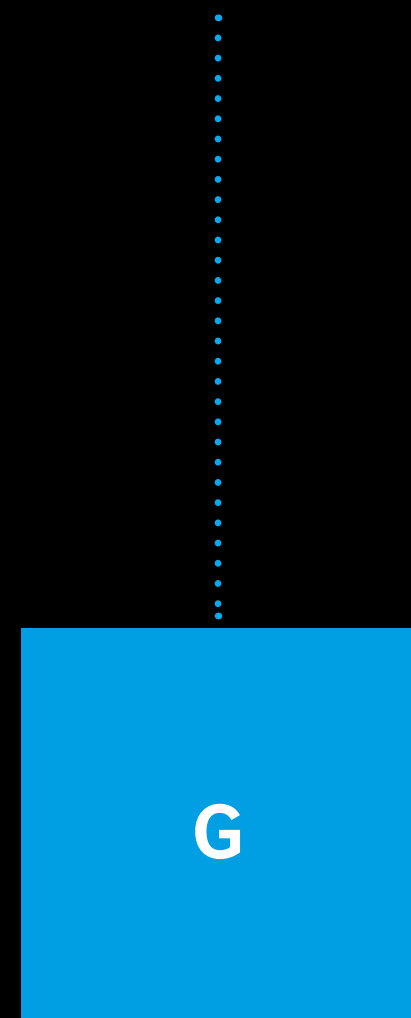
152 mm

Gear	1	2	3	4	5	6	7	8	R 1	R 2	Gear ratio spread
Ratio	11.722	7.916	5.291	3.636	2.664	1.799	1.203	0.826	10.656	2.422	17.06
Ratio	9.747	6.583	4.400	3.023	2.215	1.496	1.000	0.687	8.861	2.014	17.06

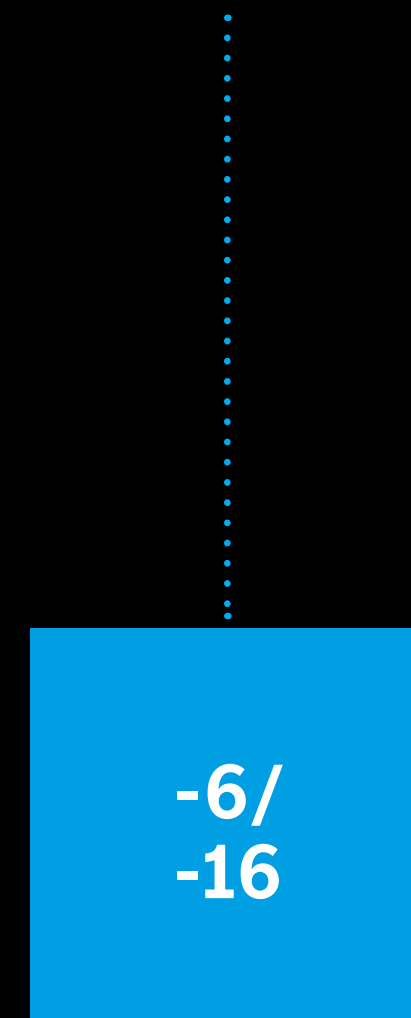


DERIVATION “NOMENCLATURE” - TRANSMISSIONS.

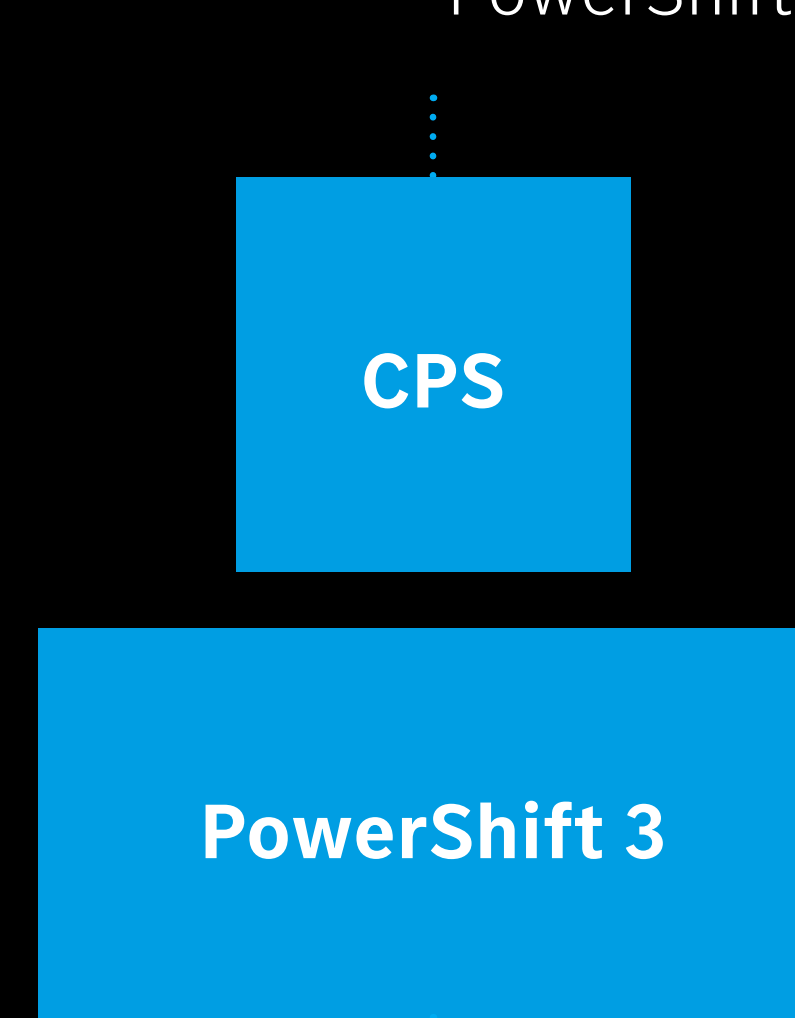
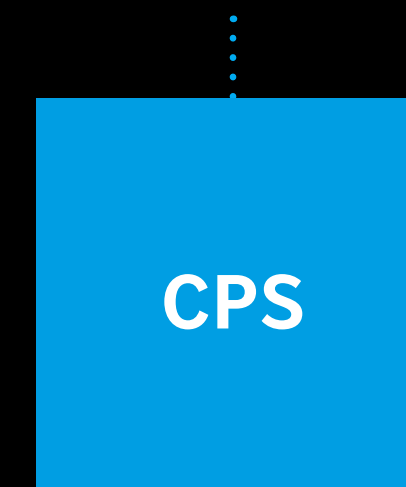
G = transmissions



Number = gears



CPS = Cable
PowerShift



280 = Maximum torque/
10 [2800 Nm]

K = Non
synchronized
transmission
S = Synchronized
transmission

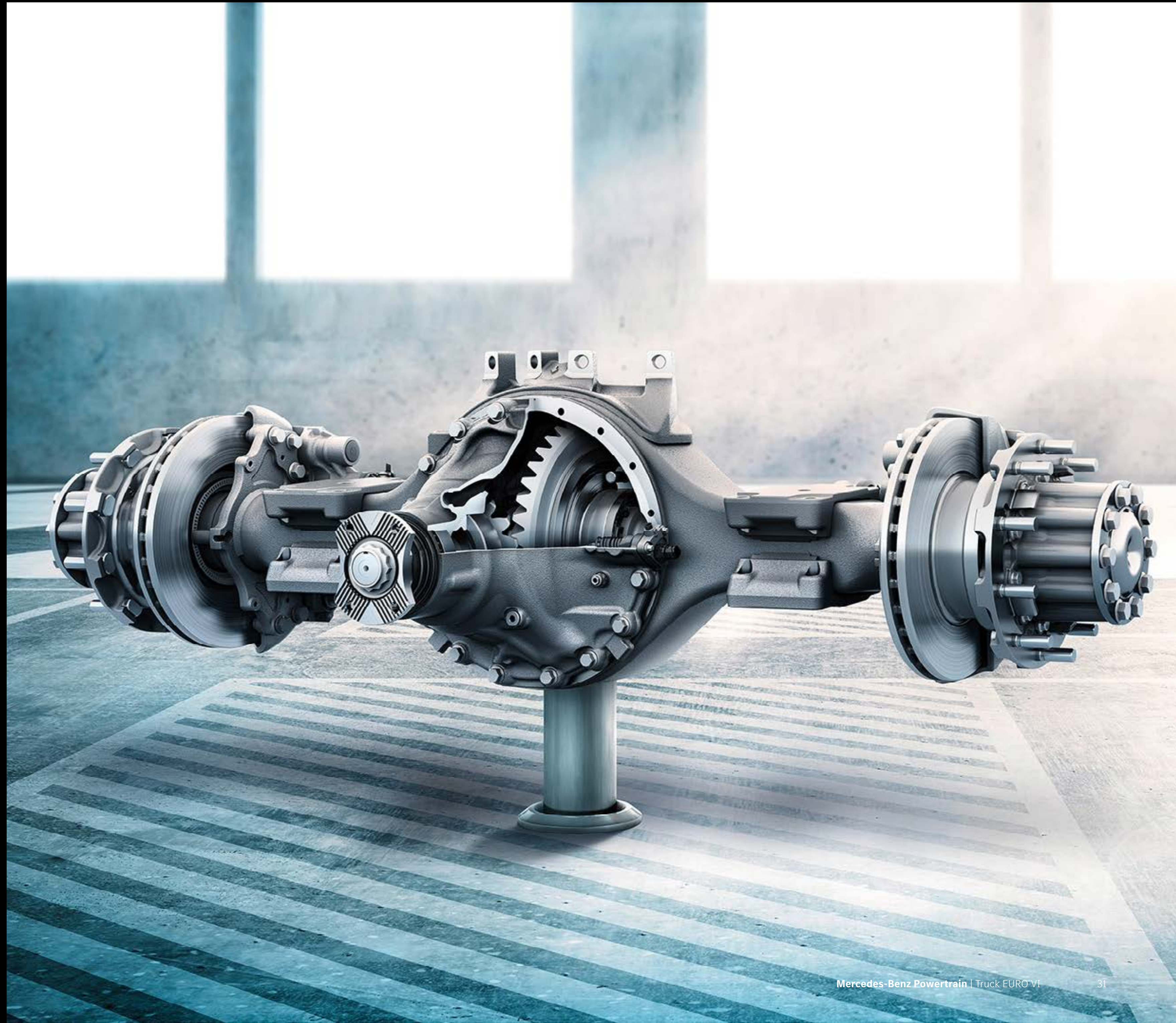
PowerShift 3 =
Automated gearshift

TRC = Turbo retarder
clutch
SWR = Secondary water
retarder

AXLES

Reliable axles
for every application.

- › **Axles**
- › **Axle portfolio**
- › **Front axles**
- › **Rear axles**
- › **Nomenclature axles**



Axles

THE MOST EFFICIENT WAY OF PUTTING POWER ON THE ROAD.

Our product range consists of axles for a broad range of commercial vehicles. This portfolio is highly suitable for nearly all commercial categories, in urban areas or overland, from delivery to heavy-duty trucks.

We use our customers' experience, requirements and demands as an essential precondition for the development of new axle technologies.

Our innovative state-of-the-art engineering and our quality-driven plants in Germany give our axles outstanding performance in:

- **Durability**
- **Fuel efficiency**
- **Quiet operation**

Top vehicle manufacturers around the world trust the outstanding quality and performance of our axles and the

reliability of our services. We are one of the world's biggest producers of commercial axles and we want to share our experience and technology with you.

See for yourself and discover the advantages of Mercedes-Benz axles.

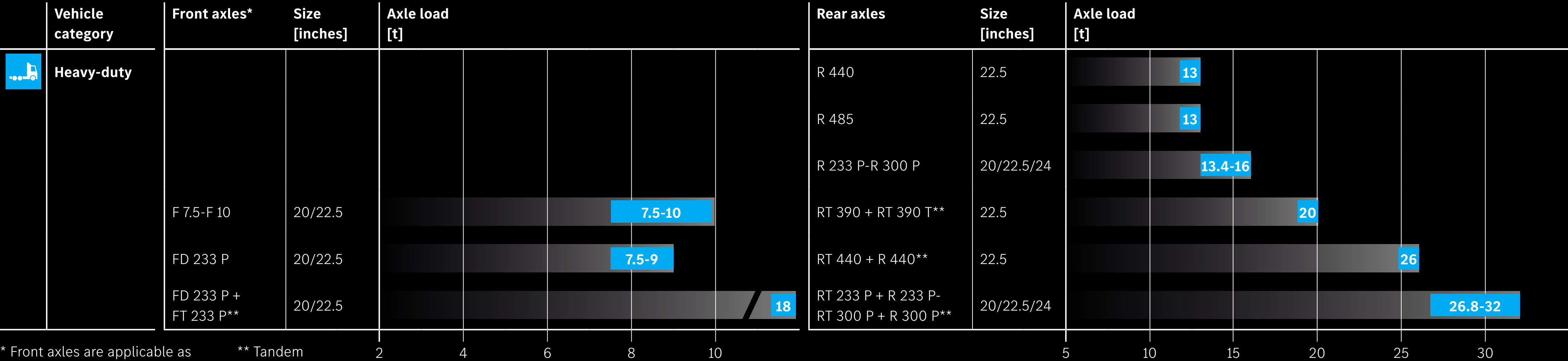




Axles

THE RIGHT AXLE FOR EVERY APPLICATION.

Axle portfolio: front axles* and rear axles



Meaning of symbols:

FA

Front axles

RA

Rear axles

Axles for heavy-duty trucks



Axles

FRONT AXLES.

> Benefits

> F 7.5-F 8

> F 9-F 10

> FD 233 P

> FD 233 P + FT 233 P



Front axles

FLEXIBILITY AT A HIGH LEVEL.

Your product benefits for front axles:

- **Wheel-end sizes** from **22.5 inches**
- **Axle loads** from **7.5** to **10 t** (per axle)
- **Gross vehicle weight rating (GVWR)** from **6.5** to **250 t**
- **Additional payload** due to compact design and weight-optimized technical design
- **Left- or right-hand drive** applications possible
- **High-fuel-efficiency design** to suit the operating conditions
- **Maintenance-free** wheel hubs
- Easy maintenance and **long oil change intervals**
- **Longer lifetime** and **quieter operation** due to our optimized gear set design

Front axles

F7.5-F 8



- Steered rigid axle with forged front axle beam
- Recommended for heavy-duty application



Data and dimensions

Axle load	7.5-8 t
Wheel-end size	22.5 inches
Brake	disk brake/drum brake
Axle weight*	461 kg
A = overall width	2486-2583 mm
B = track width	2046-2140 mm
C = spring track	840 mm
D = max. steering angle	52°

* varies depending on configuration

Front axles

F9-F10



- Steered rigid axle with forged front axle beam
- Recommended for heavy-duty application



Data and dimensions

Axle load	9-10 t
Wheel-end size	22.5 inches
Brake	disk brake/drum brake
Axle weight*	463 kg
A = overall width	2486-2583 mm
B = track width	2046-2153 mm
C = spring track	840 mm
D = max. steering angle	48°

* varies depending on configuration

Front axles

FD 233 P



- Steered, driven planetary axle with cast axle housing
- Recommended for heavy-duty application



Data and dimensions

Axle load	7.5-9 t
Wheel-end size	22.5 inches
Brake	drum brake
Drive type	double reduction/planetary
Axle weight*	738 kg

A = overall width 2480-2506 mm
B = track width 1997-2092 mm
C = spring track 840/875 mm
D = max. steering angle 42°

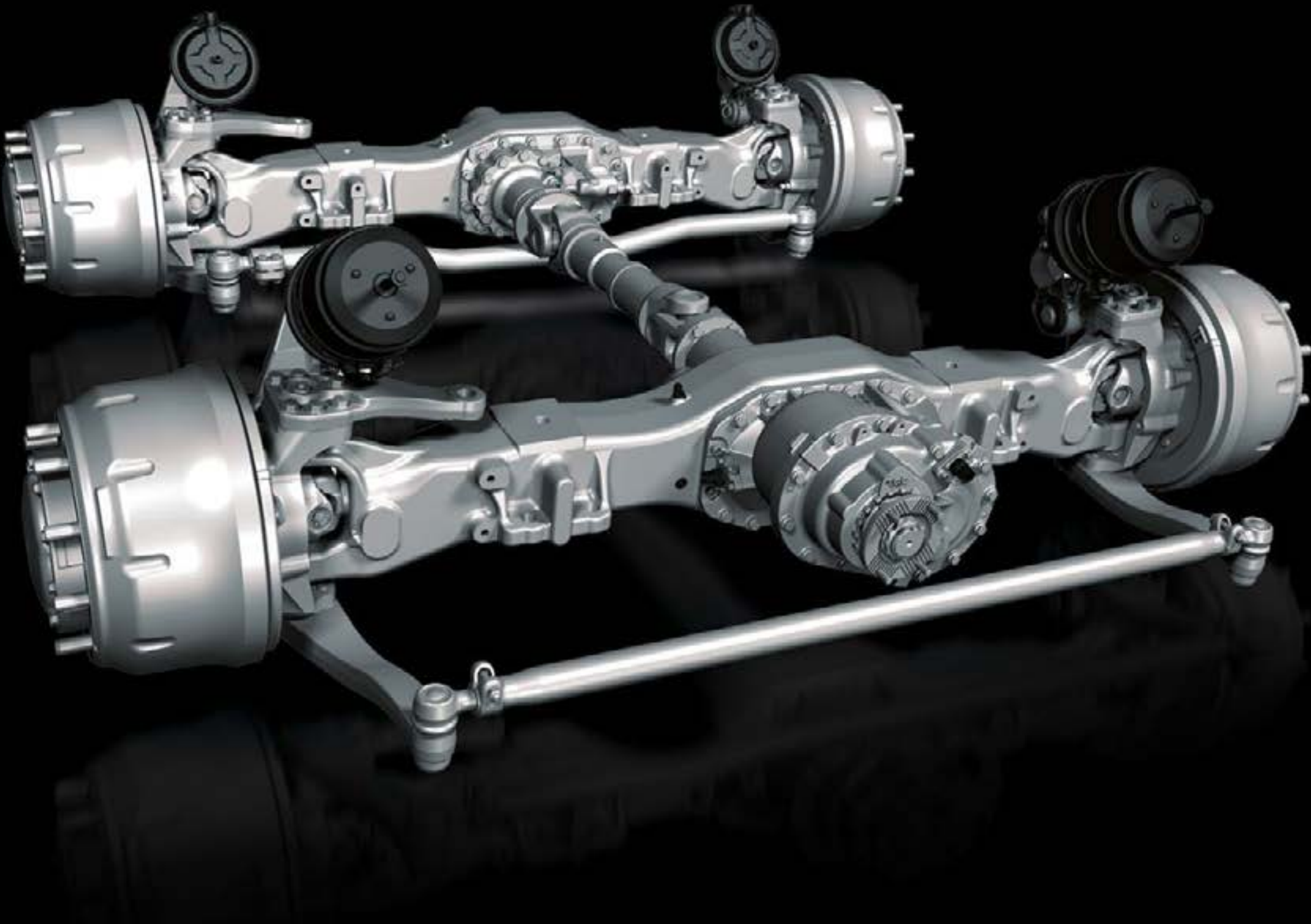
* varies depending on configuration

Front axles

FD 233 P + FT 233 P



- Steered, driven planetary axle with cast axle housing, tandem
- Recommended for heavy-duty application



Data and dimensions

Axle load	18 t (tandem)
Wheel-end size	22.5 inches
Brake	drum brake
Through-drive axle	yes
Drive type	double reduction/ planetary
Axle weight*	1621 kg
A = overall width	2480-2506 mm
B = track width	1997-2092 mm
C = spring track	840 mm
D = max. steering angle	38°

* varies depending on configuration



Axles

REAR AXLES.

➤ Benefits

➤ R 440

➤ R 485

➤ R 233 P-R 300 P

➤ RT 233 P + R 233 P-RT 300 P + R 300 P

➤ RT 390 + RT 390 T

➤ RT 440 + R 440



Rear axles

MASTER EVERY CHALLENGE.

Your product benefits for rear axles:

- **Wheel-end sizes** from **17.5** to **24 inches**
- **Hypoid- and planetary-driven**
- **Ring gear diameter** from **233** to **485 mm**
- **Axle loads** from **6.2** to **16 t** (per axle)
- **Gross vehicle weight rating (GVWR)** from **6.5** to **250 t**
- **High fuel efficiency**
- **Easy maintenance** and long oil change intervals
- **Long lifetime** and **quiet operation** due to optimized gear set design
- **Additional payload** due to weight-optimized design
- **Maintenance-free** wheel hub
- New final drive axle with **optimized oil management** reduces fuel consumption



Rear axles

R 440



- Fabricated axle housing
- Recommended for heavy-duty application



Data and dimensions

Axle load	13 t
Wheel-end size	22.5 inches
Brake	disk brake
Suspension	air springs/steel springs
Drive type	single reduction/hypoid
Axle weight*	680 kg
A = overall width	2410-2482 mm
B = track width	1802-1910 mm
C = spring track	930 mm
Ring gear diameter	440 mm

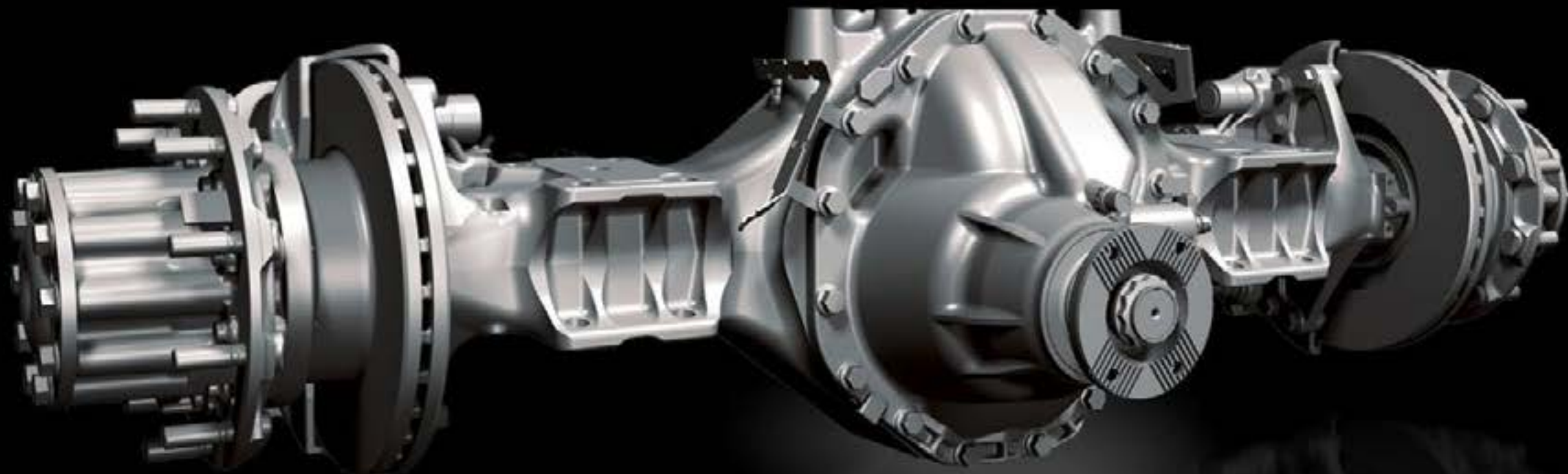
* varies depending on configuration

Rear axles

R 485

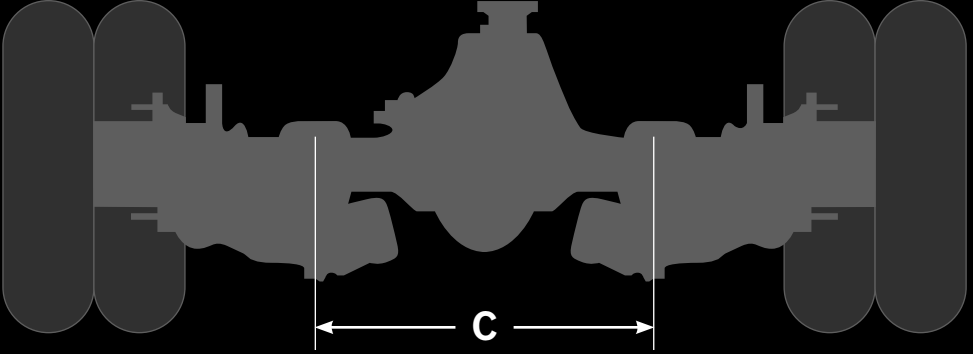
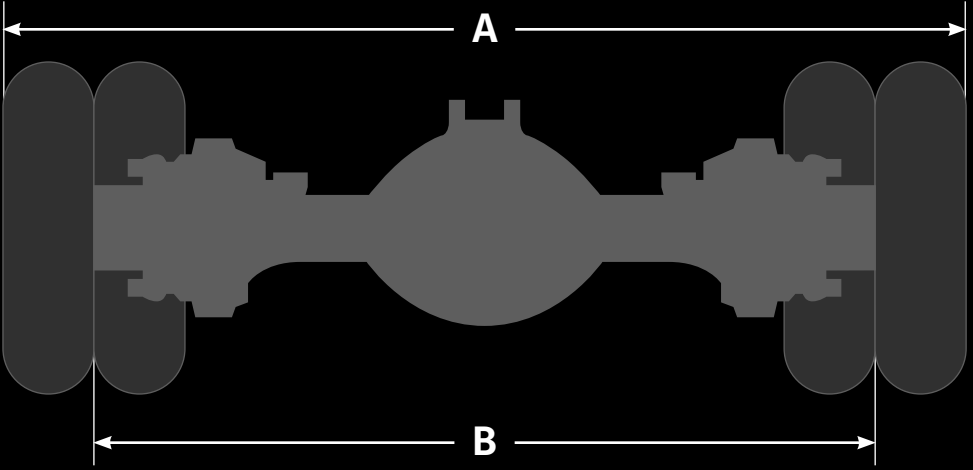


- Cast axle housing for high engine torque
- Recommended for heavy-duty application



Data and dimensions

Axle load	13 t
Wheel-end size	22.5 inches
Brake	disk brake
Suspension	air springs/steel springs
Drive type	single reduction/hypoid
Axle weight*	765 kg
A = overall width	2422-2482 mm
B = track width	1802-1804 mm
C = spring track	930 mm
Ring gear diameter	485 mm



* varies depending on configuration

Rear axles

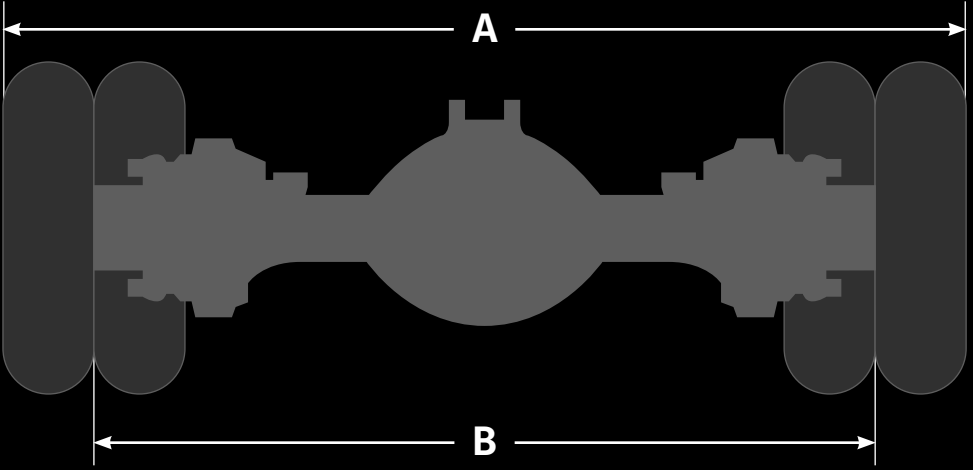
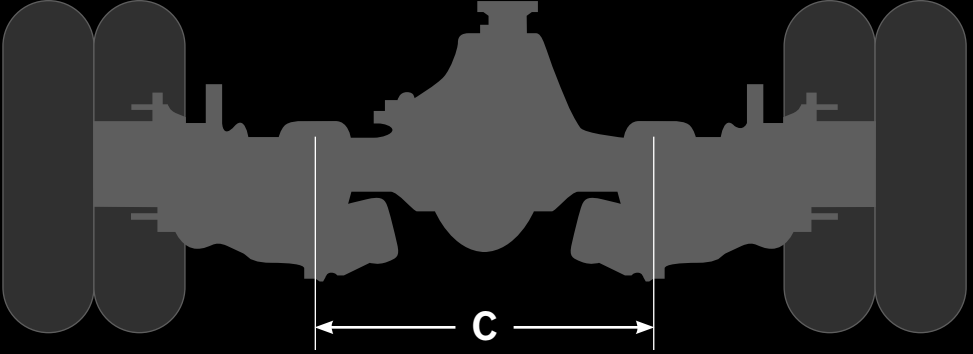
R 233 P-R 300 P



- Planetary axle with cast axle housing
- Recommended for heavy-duty application



Data and dimensions

Axle load	13.4-16 t	
Wheel-end size	22.5 inches	
Brake	disk brake/drum brake	
Suspension	air springs/steel springs	
Drive type	double reduction/planetary	
Axle weight*	792 kg	
A = overall width	2407-2775 mm	
B = track width	1800-2039 mm	
C = spring track	930 mm	
Ring gear diameter	233/300 mm	

* varies depending on configuration

Rear axles

RT 233 P + R 233 P

RT 300 P + R 300 P

- Planetary axle with cast axle housing, tandem
- Recommended for heavy-duty application

Data and dimensions

Axle load	26.8-32 t (tandem)	
Wheel-end size	22.5 inches	
Brake	disk brake/drum brake	
Through-drive axle	yes	
Suspension	air springs/steel springs	
Drive type	two-stage/planetary	
Axle weight*	1643 kg (tandem)	
A = overall width	2407-2775 mm	
B = track width	1800-2039 mm	
C = spring track	930 mm	
Ring gear diameter	233/300 mm	

* varies depending on configuration



Rear axles

RT 390 + RT 390 T



- Fabricated axle housing, tandem
- Recommended for heavy-duty application



Data and dimensions

Axle load	20 t (tandem)
Wheel-end size	22.5 inches
Brake	disk brake
Through-drive axle	yes
Suspension	air springs/steel springs
Drive type	single-stage/hypoid
Axle weight*	1255 kg (tandem)
A = overall width	2441-2501 mm
B = track width	1821-1823 mm
C = spring track	990 mm
Ring gear diameter	390 mm

* varies depending on configuration

Rear axles

RT 440 + R 440

- Fabricated axle housing, tandem
- Recommended for heavy-duty application

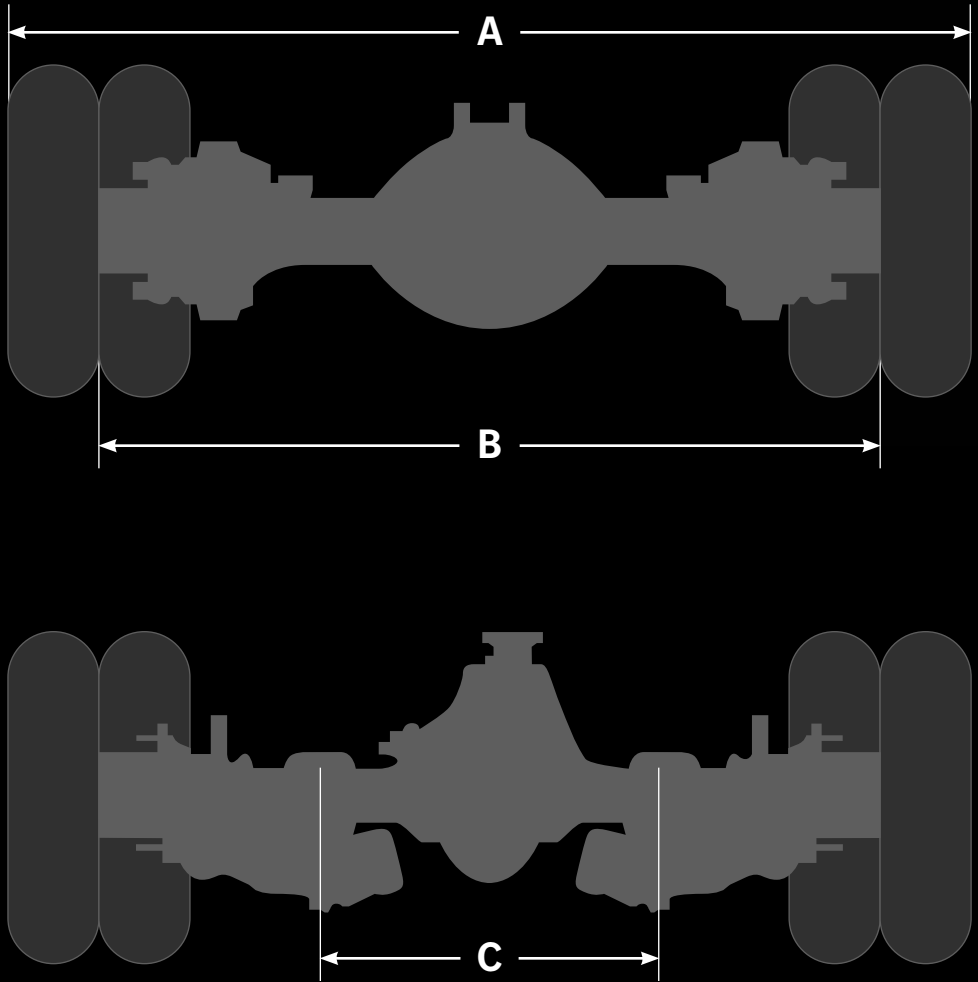
RA



Data and dimensions

Axle load	26 t (tandem)
Wheel-end size	22.5 inches
Brake	disk brake
Through-drive axle	yes
Suspension	air springs/steel springs
Drive type	single-stage/hypoid
Axle weight*	1482 kg (tandem)
A = overall width	2410-2482 mm
B = track width	1802-1910 mm
C = spring track	930 mm
Ring gear diameter	440 mm

* varies depending on configuration



DERIVATION “NOMENCLATURE” - AXLES.

Non-driven axles

F = Front axle

F

9

Number =
Axle load [t]

Driven axles

R = Rear axle

RT = Rear axle tandem

FD = Front axle driven

FT = Front axle tandem driven

R

440

Number =
Ring gear
diameter [mm]



SERVICE

More than products.

- › **Global service network**
- › **Spare parts supply**
- › **Extended warranty**
- › **Sales service**





Service

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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.



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Service

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

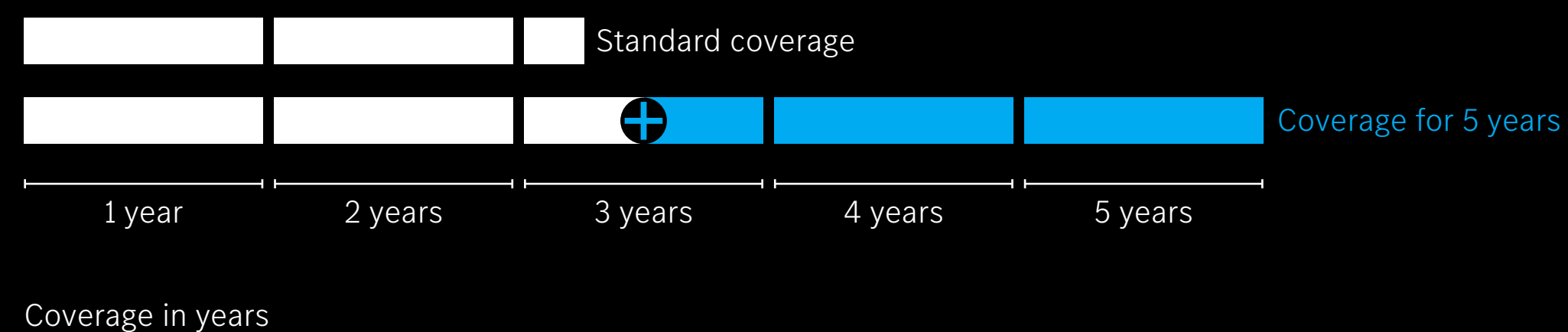


EXTENDED WARRANTY. WE BELIEVE IN OUR QUALITY.

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



Service

MORE THAN PRODUCTS.

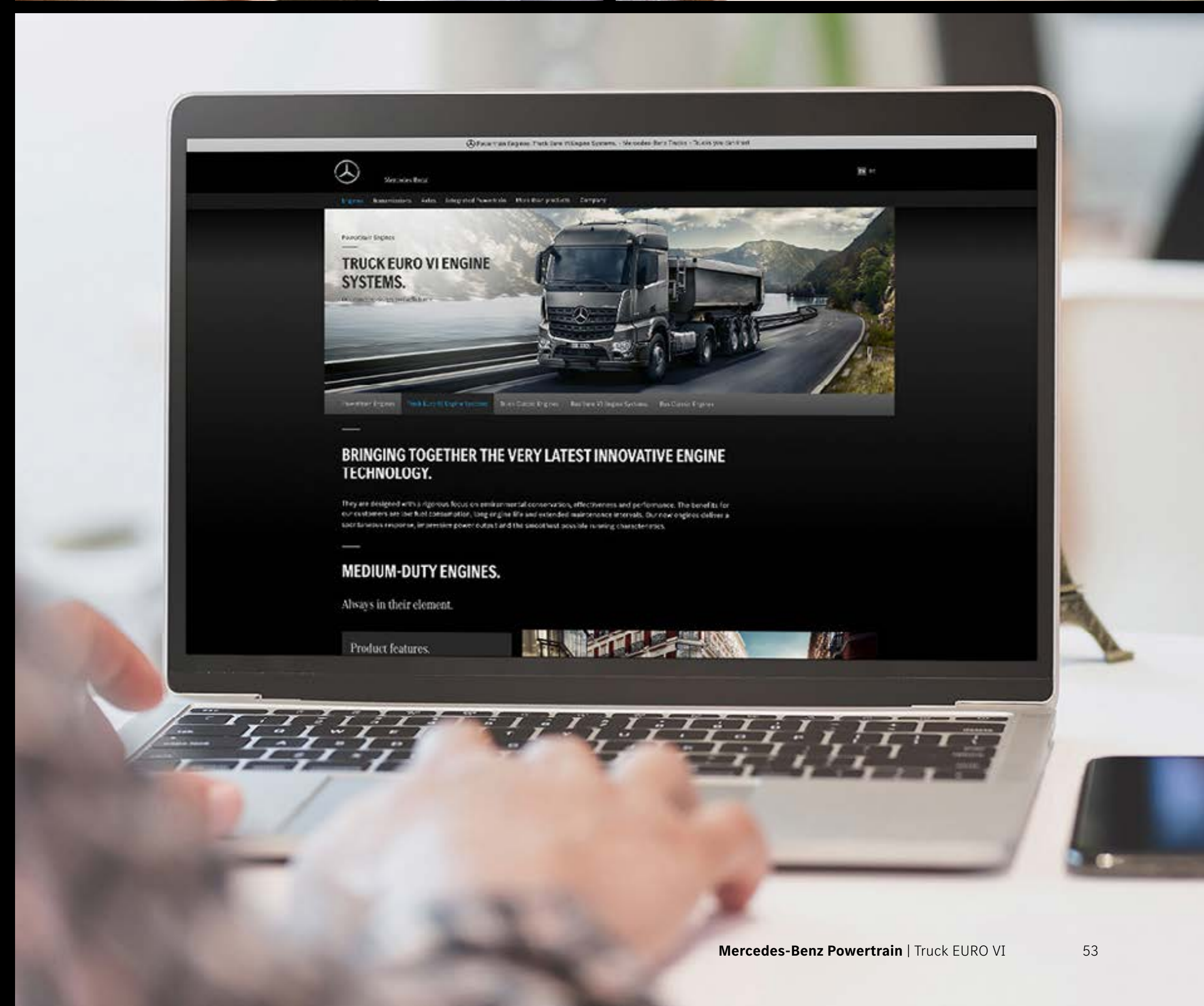
Our perfectly matched powertrain delivers you the best possible performance and fuel savings, while maintaining low overall operating costs. The perfect combination of engine systems, transmissions and axles yields the greatest possible efficiency and the best quality made by Mercedes-Benz Powertrain. 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
Germany



powertrain.mercedes-benz-trucks.com



INDEX

Components at a glance.

- > Engines
- > Transmissions
- > Axles





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ENGINES.

Type	Cylinder	Displacement [litres]	Power [kW]	Torque [Nm]	TRUCKS	BUSES
OM 470	L6	10.7	240. 265. 290. 315. 335	1700. 1800. 1900. 2100. 2200	x	
OM 470	L6	10.7	265. 290. 315. 335	1700. 1900. 2100. 2200		x
OM 471	L6	12.8	310. 330. 350. 375. 390	2100. 2200. 2300. 2500. 2600	x	
OM 471	L6	12.8	350. 375.	2300. 2500		x
OM 473	L6	15.6	380. 425. 460	2600. 2800. 3000	x	



Index

TRANSMISSIONS.

Type	Ratio	Forward gears	Max. input torque [Nm]	TRUCKS	BUSES
G 211-12 PowerShift 3	14.93-1.00/14.93	12	2200	x	
G 230-12 PowerShift 3	11.67-0.78/14.93	12	2400	x	
G 281-12 PowerShift 3	14.93-1.00/14.93	12	2800	x	
G 330-12 PowerShift 3	11.64-0.78/14.93	12	3300	x	
G 280-16 PowerShift 3	11.72-0.69/16.99	16	2800	x	
G 280-16 TRC	11.72-0.69/16.99	16	3000	x	



Index

AXLES.

			TRUCKS	BUSES
Type [front axles]	Wheel-end size [inches]	Axle load [t]		
FO 7.5	22.5	7.5		x
F 7.5-F 10	22.5	7.5-10	x	x
FD 233 P	22.5	7.5-9	x	
FD 233 P + FT 233 P	22.5	18	x	

			TRUCKS	BUSES
Type [rear axles]	Wheel-end size [inches]	Axle load [t]		
R 440	22.5	11.5-13	x	x
RO 440	22.5	11.5-13		x
R 485	22.5	13	x	
R 233 P-R 300 P	22.5	13.4-16	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	

09/2025

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