Mercedes-Benz Powertrain



Portfolio Truck EURO VI.



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







Content

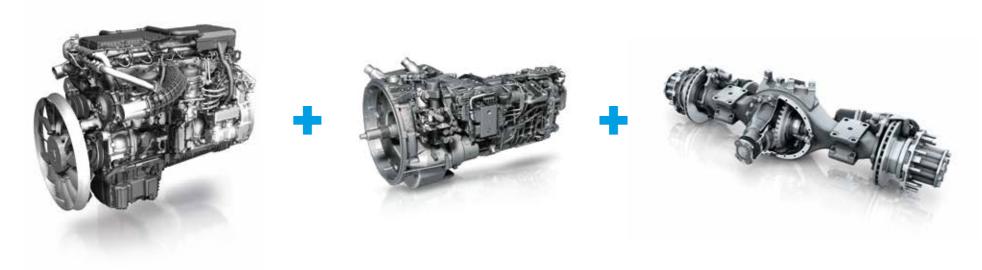
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Going the extra mile. Mercedes-Benz Powertrain.

Mercedes-Benz Powertrain offers outperforming and individual engineered aggregates: 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 together the best individual solution for your success.



1 + 1 + 1 > 3

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 aggregates:

- ✓ 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 aggregates
- ✓ Leads to an optimized system setup due to common electric and electronic architecture (EE architecture) for efficient interaction of all aggregates
- One electronic tool for end of line commissioning and diagnosis requires less training for your engineering group and After-Sales team
- ✓ High invest in Mercedes-Benz R&D assures state-of-the-art quality

Benefits for your customers.

- Provides optimized fuel efficiency by specially composed powertrain solutions
- Ensures robust and reliable performance in every scenario of operation
- ✓ Increases the resale value of the vehicles due to the highest quality standards offered by Mercedes-Benz
- ✓ 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



OM 93X and OM 47X model series.

Outstanding design and efficiency. Specifically developed to comply with the EURO VI emission standard.

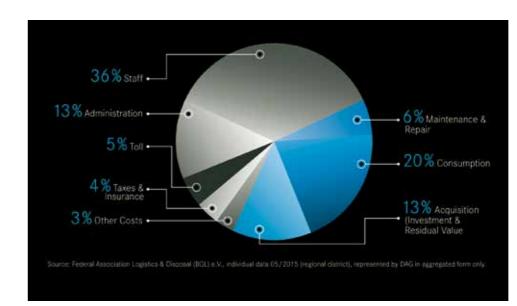


Our engine product portfolio: TCO reduction at its best.

Bringing together the very latest innovative engine technology, they are designed with a rigorous focus on environment conservation, effectiveness and performance.

The benefits for our customers are **low fuel consumption**, **long engine life and extended maintenance intervals**. Our engines deliver a spontaneous response, impressive power output and the smoothest running characteristics.

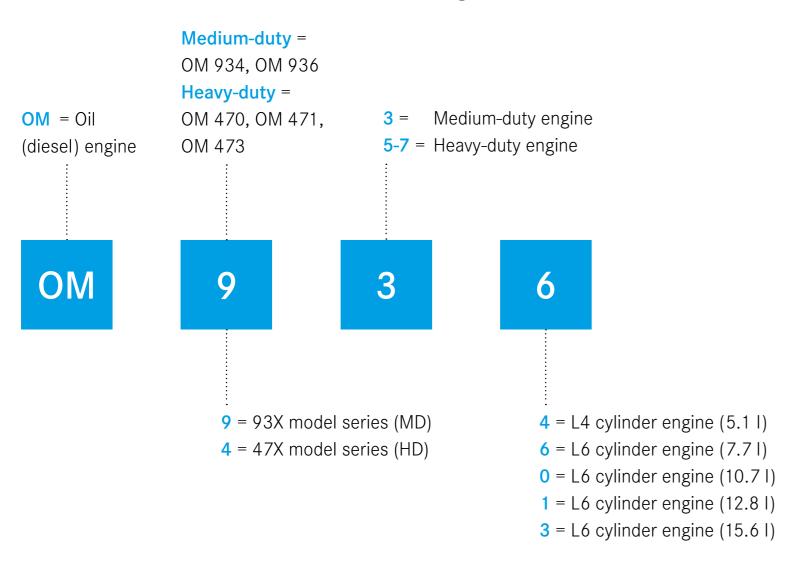
Based on these characteristics our engines in all series are ideal for short radius distribution, construction site transport and long distance haulage.



Due to numerous technical innovations, the current 4- and 6-cylinder in-line engines from Mercedes-Benz provide fuel savings of up to 3 percent compared to the previous generation. The 6-cylinder in-line engines are distinguished, depending on the model series, by a robust design with sturdy steel pistons, two overhead camshafts with highefficiency gear train, an asymmetric turbocharger or turbo-compound technology as well as powerful engine brakes and the one-of-a-kind X-Pulse common-rail injection system with pressure booster. The asymmetric injection and combustion as well as the exhaust gas recirculation were also optimized to design the engines systematically for low fuel consumption and improved exhaust gas quality.

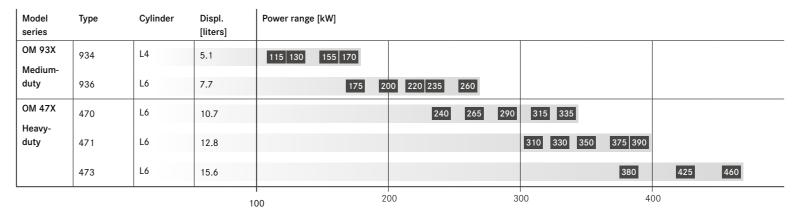


Derivation "Nomenclature" - engines.

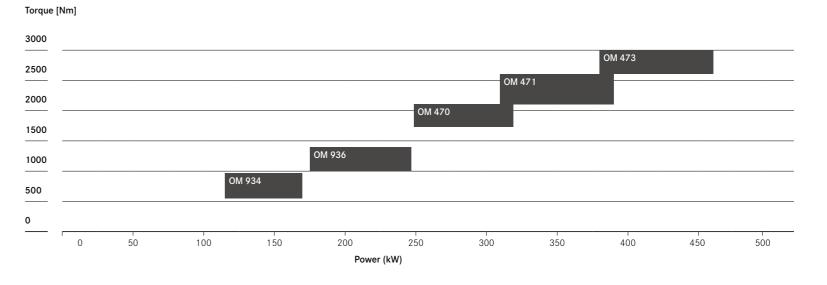


Engine systems for EURO VI.

Portfolio of EURO VI engines for trucks



Power range of the EURO VI engines for trucks





Always in their element. Whatever the terrain.

Your product benefits for medium-duty engine systems:

- 4- and 6-cylinder diesel engines in an in-line arrangement with cooled exhaust gas recirculation
- Displacement of 5.1 and 7.7 liters
- Output of 115 up to 260 kW
- Special combustion system to minimize fuel consumption
- Common rail injection system up to 2400 bars and multiple injection

- Tailor-made charging system with 1- and 2-stage turbochargers
- Future-proof valve timing gear with 2 overhead camshafts and 4-valve technology
- Powerful and dynamic engine brakes with up to 300 kW brake power
- · Multiple **power take-off** options
- · "One box" exhaust after-treatment with SCR and DPF

OM 934

Arrangement: In-line 4 Displacement: 5.1 l



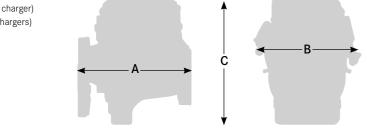
Weight and dimensions*

DIN 70020 - GZ 495 kg (single stage charger)
DIN 70020 - GZ 510 kg (dual stage chargers)

Dimensions

B = width 910 mm C = height 1025 mm

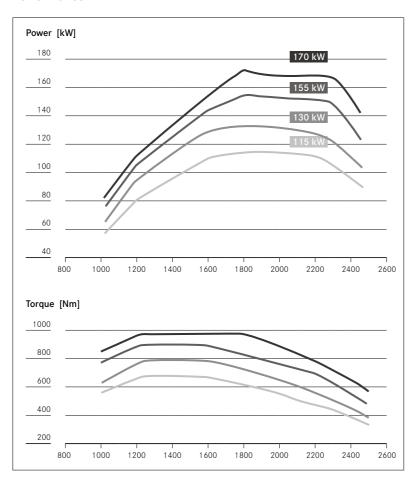
* depending on equipment installed



Rated power and maximal torque

Rated power	[kW/hp]	115/156	130/177	155/211	170/231
at engine speed	[rpm]	1800	1800	1800	1800
Maximal torque	[Nm]	650	750	850	900
at engine speed	[rpm]	1200-1600	1200-1600	1200-1600	1200-1800

Performance

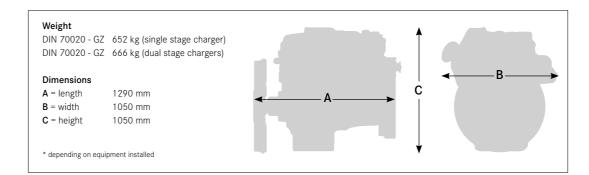


OM 936

Arrangement: In-line 6 Displacement: 7.7 I



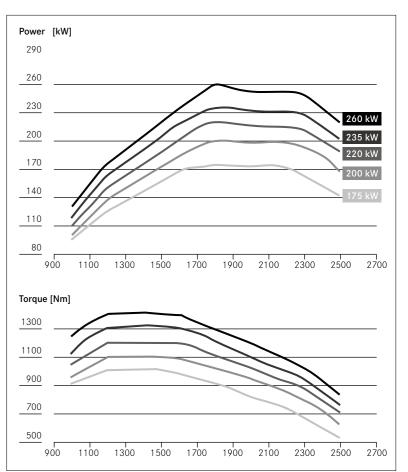
Weight and dimensions*



Rated power and maximal torque

Rated power	[kW/hp]	175/238	200/272	220/299	235/320	260/354
at engine speed	[rpm]	1800	1800	1800	1800	1800
Maximal torque	[Nm]	1000	1100	1200	1300	1400
at engine speed	[rpm]	1200-1600	1200-1600	1200-1600	1200-1600	1200 - 1600

Performance



Rated power	[kW/hp]	175/238	200/272	220/299	235/320	260/354
at engine speed	[rpm]	1800	1800	1800	1800	1800
Maximal torque	[Nm]	1000	1100	1200	1300	1400
at engine speed	[rpm]	1200 - 1600	1200-1600	1200-1600	1200-1600	1200-1600

14



Always giving 100 %.

Your product benefits for heavy-duty engines:

- 6-cylinder diesel engines in an in-line arrangement with cooled exhaust gas recirculation
- **Displacement** of 10.7 to 15.6 liters
- · 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 up to 2700 bars

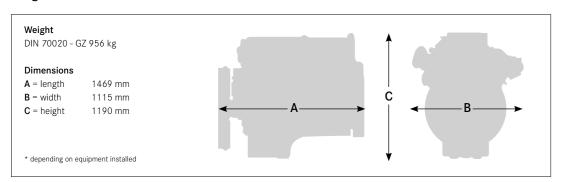
- 1-stage turbocharger with asymmetrical turbine geometry
- 15.6 liter variant with a standardly turbo compound
- Future-proof valve timing gear with 2 overhead camshafts and 4-valve technology
- Powerful and dynamic engine brakes with up to 480 kW brake power
- · Additional **power take-off** options
- · "One box" exhaust after-treatment with SCR and DPF

OM 470

Arrangement: In-line 6 Displacement: 10.7 I



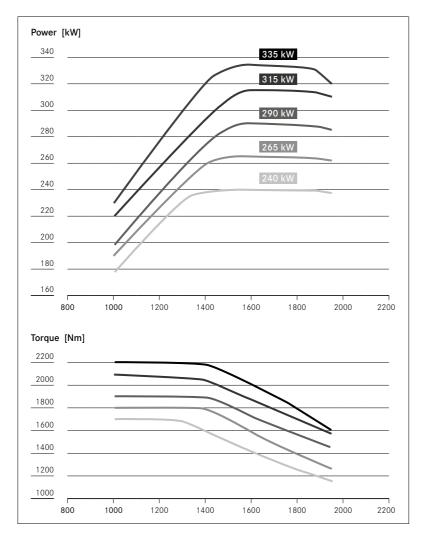
Weight and dimensions*



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

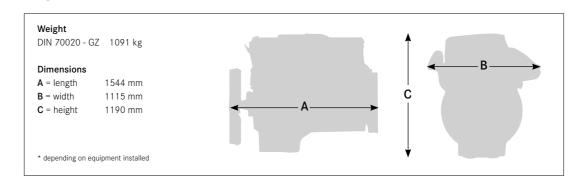


OM 471

Arrangement: In-line 6
Displacement: 12.8 I



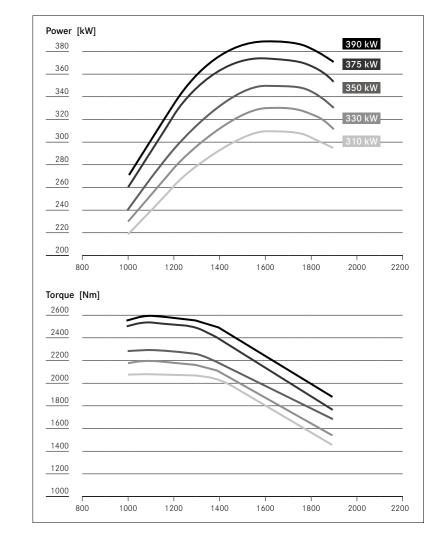
Weight and dimensions*



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



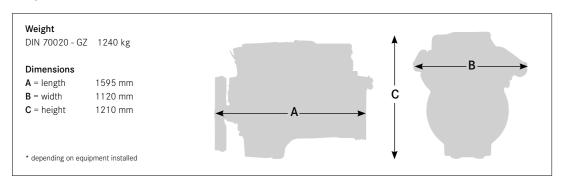
Mercedes-Benz engine systems | Heavy-duty engines

OM 473

Arrangement: In-line 6 Displacement: 15.6 I



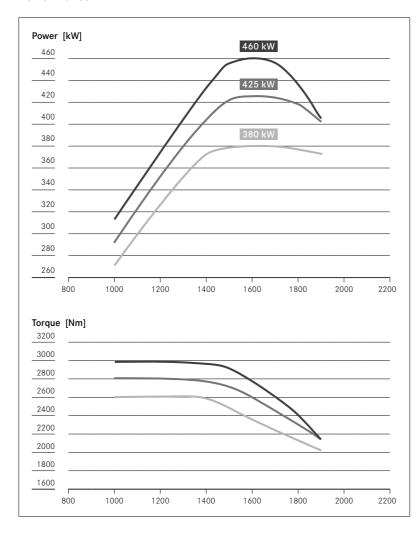
Weight and dimensions*



Rated power and nominal 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



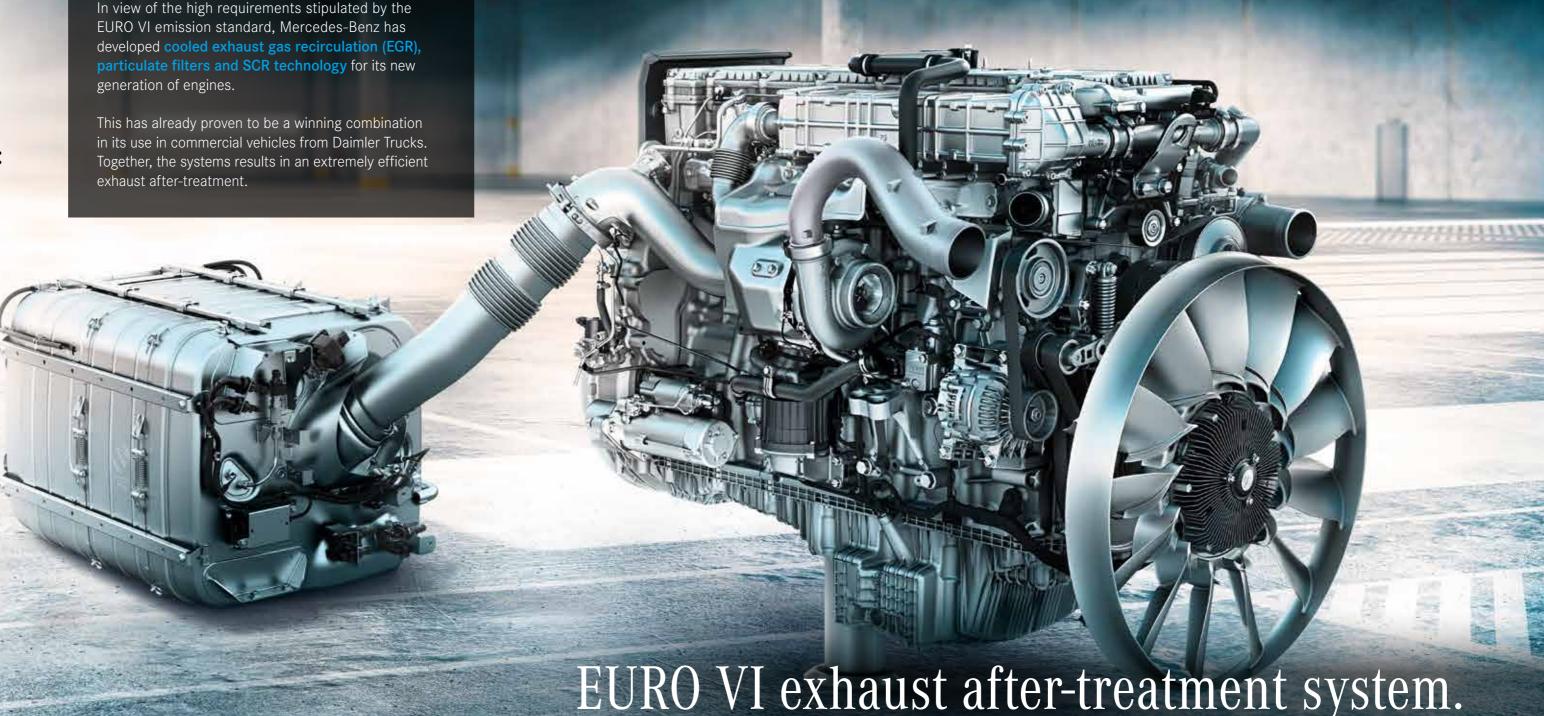


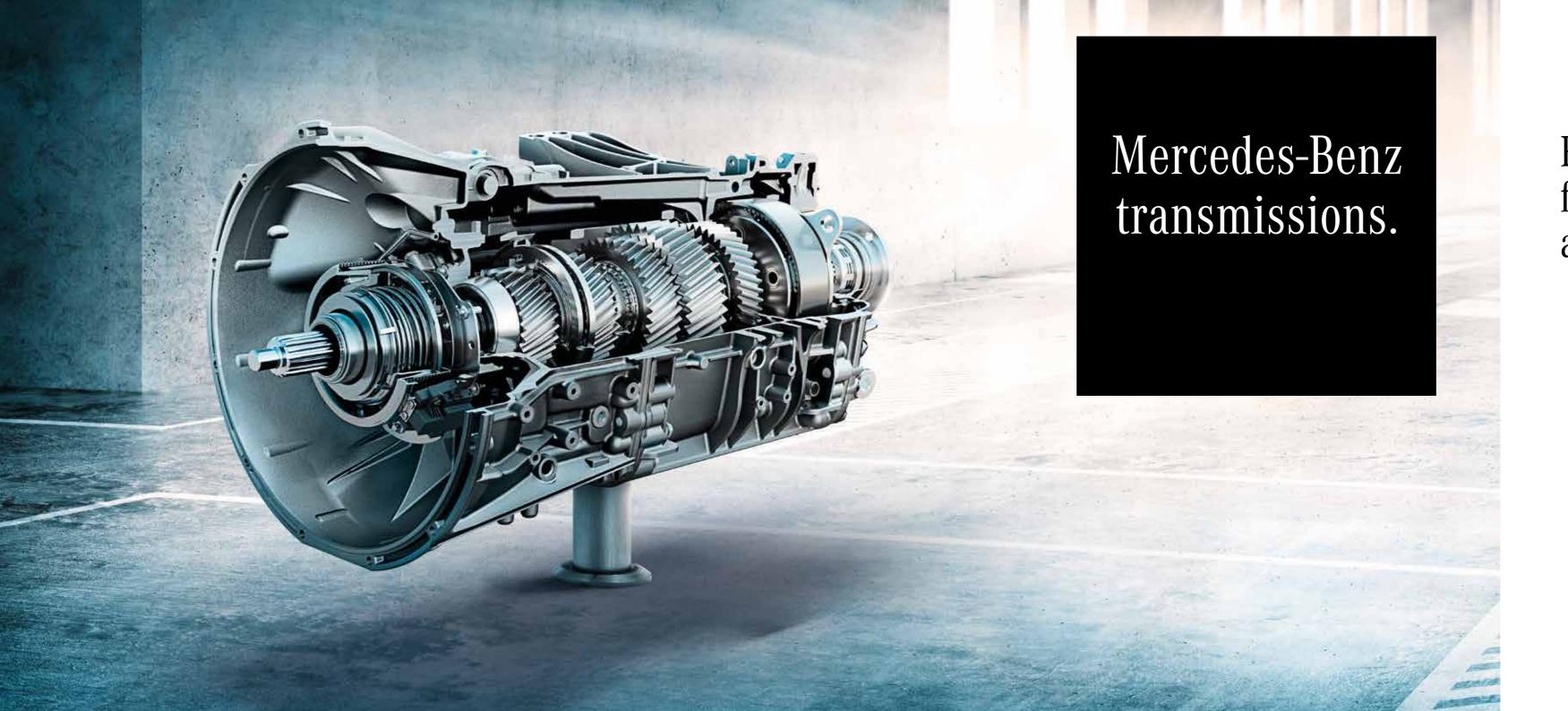
Clean from start to finish.

Your product benefits for the after-treatment system:

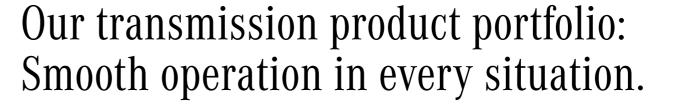
- Low exhaust back pressure
- Significant NOx reduction at a broad range of exhaust gas volume flows and exhaust gas temperatures
- Maximum possible soot burn-off in the diesel particulate filter (DPF) by means of automatic regeneration
- In addition, adaptive regeneration of the DPF in all relevant driving cycles
- Large capacity for ash storage in the DPF to make maintenance intervals as long as possible

- 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





Reliable transmissions for a wide range of applications.



Our range of service extends from 9-speed to 16-speed transmissions for heavy-duty commercial vehicles and cranes as well as for special vehicles. An extensive selection of power take-off units, transfer cases and several 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.

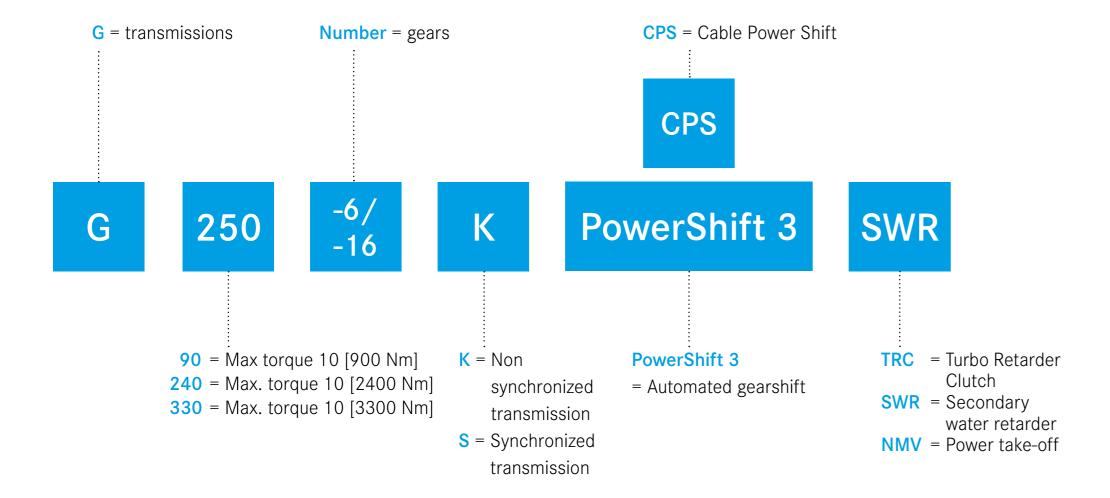
Our know-how is based on decades of experience in the manufacturing and development of commercial vehicle transmissions. This manufacturing expertise distinguishes our transmissions today particularly by three features:

- Very smooth running characteristics
- Low weight
- Extreme durability

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

Mercedes-Benz transmissions | Portfolio 2

Derivation "Nomenclature" - transmissions.



Transmissions for EURO VI engines.



Meaning of symbols:

Manual shifted transmission

Fully automated manual transmission

Transmission for medium-duty trucks

Transmission for heavy-duty trucks & special vehicles

Transmission for cranes



Redefining efficiency.

Your product benefits for medium-duty transmissions:

- · **6-speed** transmissions
- · Resilient to 900 Nm max. input torque
- · Manual and fully automated **shifting systems**
- Gear ratio spread from 8.00 to 9.20
- Permissible max. gross combination weight (GCW) up to 28 t
- 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
- Long service intervals and low operating costs due to a fuel-efficient design optimized for specific operating condition
- More comfortable vibration characteristics due to an integrated engine suspension on the transmission housing

G 90-6S



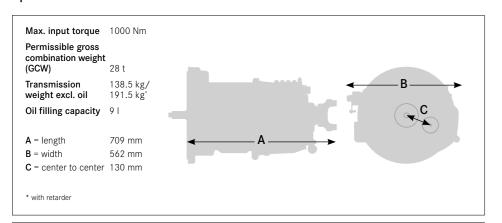




- 6-speed synchronized transmission with a wide gear ratio spread
- SAE 2 or SAE 3 clutch housing available
- Overdrive configuration
- Hydrodynamic retarder can be adapted



Specifications and dimensions



Gear	1	2	3	4	5	6	7	8	R	Gear ratio spread
Ratio	6.696	3.806	2.289	1.480	1.000	0.728	6.294	9.20	13.862	14.573





Hard-working and resilient.

Your product benefits for heavy-duty transmissions:

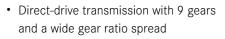
- **9- to 16-speed** manual and automated shifted manual transmissions
- Max. input torque from 1400 Nm to 3300 Nm
- Gear ratio spread from 11.82 to 17.17
- Max. permissible gross combination weight (GCW) from 32 to 60 t (250 t)
- Secondary water retarder can be adapted
- Highly variable modular systems for customer-specific system solutions

- Quiet running 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 specific operating condition
- More comfortable vibration characteristics due to an integrated engine suspension on the transmission housing

G 141-9 CPS







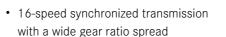
· Economical gear ratio stepping (including small step increment between 7th and 8th gear)



G 260-16 CPS







- Overdrive configuration
- Secondary water retarder can be adapted



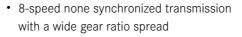
G 140-8 PowerShift 3











- Overdrive configuration
- SAE 1 or SAE 2 clutch housing available

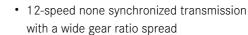


G 211-12 PowerShift 3





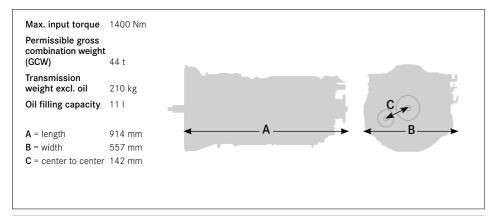




- Direct-drive configuration
- Secondary water retarder can be adapted

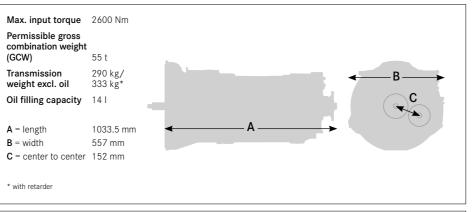


Specifications and dimensions



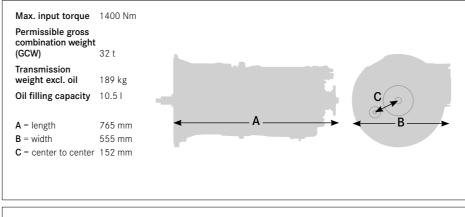
Gear	1	2	3	4	5	6	7	8	R	Gear ratio spread
Ratio	9.748	6.635	4.821	3.667	2.585	1.810	1.315	1.000	13.862	14.573

Specifications and dimensions



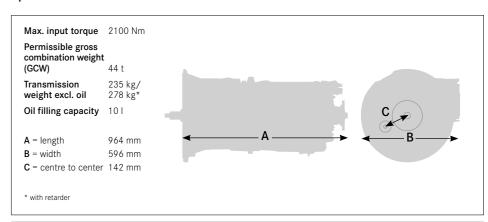
Gear	1	2	3	4	5	6	7	8	R	Gear ratio spread
i _S	11.722	7.916	5.291	3.636	2.664	1.799	1.203	0.826	10.656	17.11
i _L	9.747	6.583	4.400	3.023	2.215	1.496	1.000	0.687	8.861	17.11

Specifications and dimensions



Gear	1	2	3	4	5	6	7	8	R 1	R 2	Gear ratio spread
Ratio	9.296	5.837	3.673	2.306	1.593	1.252	1.000	0.786	8.538	5.361	11.82

Specifications and dimensions



Gear	1	2	3	4	5	6	R	Gear ratio spread
i _S	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

Mercedes-Benz transmissions | Heavy-duty transmissions

G 230-12 PowerShift 3







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



G 281-12 PowerShift 3



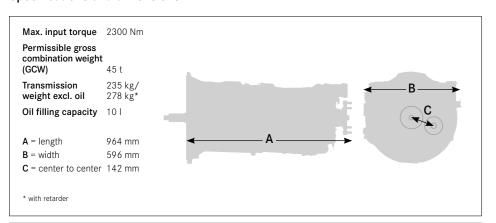




- 12-speed none synchronised transmission with a wide gear ratio spread
- Direct-drive configuration
- Secondary water retarder can be adapted

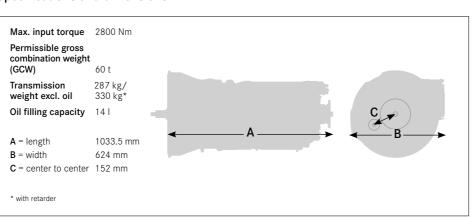


Specifications and dimensions



Gear	1	2	3	4	5	6	7	8	R 1	R 2	Gear ratio spread
i _S	11.673	2.653	4.400	2.653	1.604	1.000	11.673	2.653	14.96	2.422	14.93
iL	9.101	2.068	3.431	2.068	1.205	0.780	9.101	2.068	14.96	2.014	14.93

Specifications and dimensions



Gear	1	2	3	4	5	6	R1	R2	Gear ratio spread
i _S	14.930	9.024	5.628	3.393	2.051	1.279	14.93	2.422	14.93
i _L	11.673	7.056	4.400	2.653	1.604	1.000	14.93	2.014	14.93







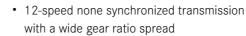


G 330-12 PowerShift 3









- Overdrive configuration
- Secondary water retarder can be adapted



G 280-16 PowerShift 3



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

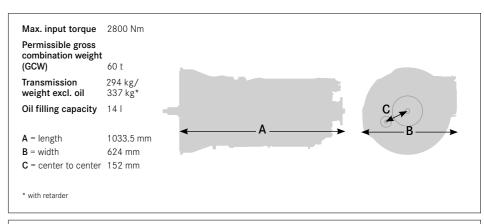


Specifications and dimensions

Permissible gross combination weight	3300 Nm			
(GCW)	60 t			
	287 kg/ 330 kg*			
Oil filling capacity	14 I	-		C(p)
			Δ	
A = length	1033.5 mm			
B = width	624 mm			
C = center to center	152 mm			

Gear	1	2	3	4	5	6	R 1	R 2	Gear ratio spread
i _S	12.774	2.093	4.400	2.645	1.599	1.000	14.90	2.422	14.93
iL	9.900	2.250	3.410	2.050	1.239	0.775	14.90	2.014	14.93

Specifications and dimensions



Gear	1	2	3	4	5	6	7	8	R 1	R 2	Gear ratio spread
i _S	11.722	7.916	5.291	3.636	2.664	1.799	1.203	0.826	10.656	2.422	16.99
i _L	9.747	6.583	4.400	3.023	2.215	1.496	1.000	0.687	8.861	2.014	16.99

TRC transmission for extreme applications.





TRC = turbo retarder clutch

Automated none synchronized 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 maneuvering 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 maneuver heavy loads with millimeter precision, even when tractional resistance is high.
- · Braking with no wear due to integrated primary retarder function and patented coupling configuration.



G 280-16 TRC







- 16-speed none synchronized transmission with a wide gear ratio spread
- Overdrive configuration



G 330-12 TRC

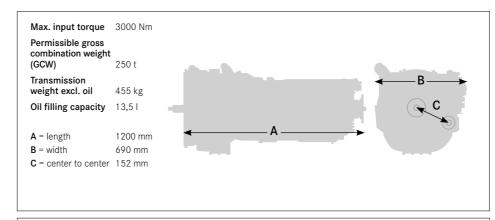




- 12-speed none synchronized transmission with a wide gear ratio spread
- Overdrive configuration

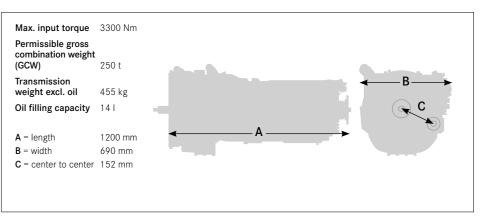


Specifications and dimensions



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	16.99
Ratio	9.747	6.583	4.400	3.023	2.215	1.496	1.000	0.687	8.861	2.014	16.99

Specifications and dimensions



Gear	1	2	3	4	5	6	R 1	R 2	Gear ratio spread
i _S	12.774	2.093	4.400	2.645	1.599	1.000	14.90	2.422	14.93
iL	9.900	2.250	3.410	2.050	1.239	0.775	14.90	2.014	14.93

Mercedes-Benz transmissions | Heavy-duty transmissions

The integrated secondary water retarder offers a high braking torque in combination with a compact, weight-saving design. The weight advantage of the new retarder is about 43 kg (SWR) compared to previous oil retarders. The braking power of the retarder is also independent of selected gear or current engine speed.

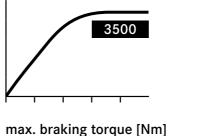
A gear change does **not** result in **any interruption** in the retarder braking action and the retarder braking power depends only on the current driving speed. The braking power can be controlled precisely in **five stages** using the right hand control stalk on the steering column. In addition to the engine brake, the retarder provides a **maximum braking torque up to 3500 Nm.**

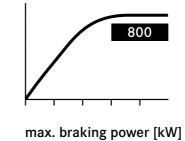


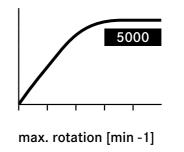
Secondary water retarder.*

Your product benefits:

- Reduction of friction by axial rotor displacement
- No heat exchanger required since the cooling water is used as the operating medium directly
- Compact unit requires only minimal installation space
- Freedom from maintenance for reduced vehicle service costs
- **Significantly lighter** than comparable hydrodynamic retarder
- **Increased comfort** through low noise emission
- **Integration** into the vehicle management
- Between 20-30% higher constant brake power than current oil retarders









^{*}Not available with TRC

PTO rear side of transmission (working only when truck is not driving or in one of the start up gears)

PTO model	Max. torque	Vehicle type
NA 121	1000 Nm	Small dumper trucks
NA 131	400 Nm	Heavy dumper trucks
NA 123	650 Nm	Silo vehicle
NA 124	650 Nm	Fire truck Silo vehicle Concrete pump
NA 125	600 Nm	Fire truck Garbage truck Concrete pump
NA 135	600 Nm	Fire truck Garbage truck Concrete pump

PTO between engine and transmission (working while the truck is stopping or driving)

 NMV



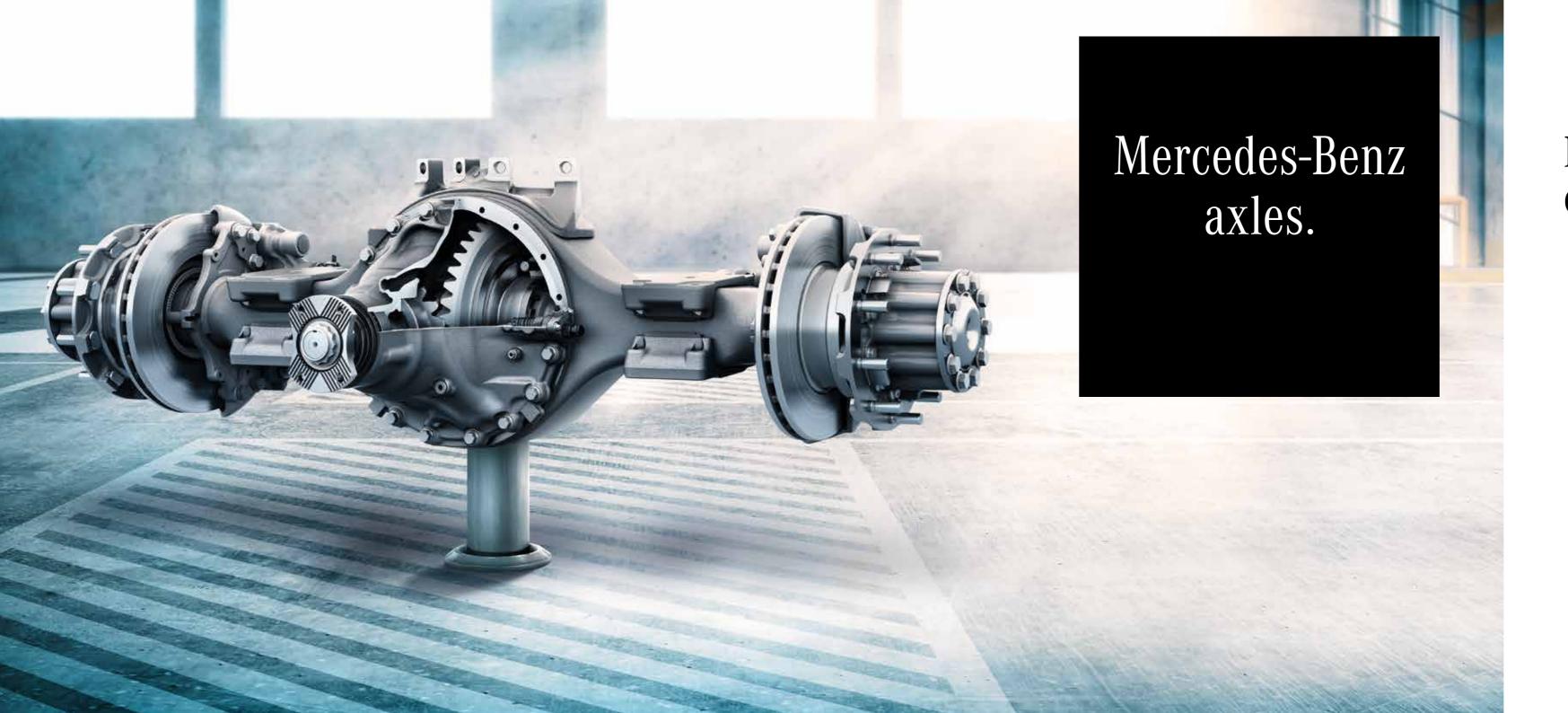
Output torque depends on PTO

Concrete pump

Airport firefighters

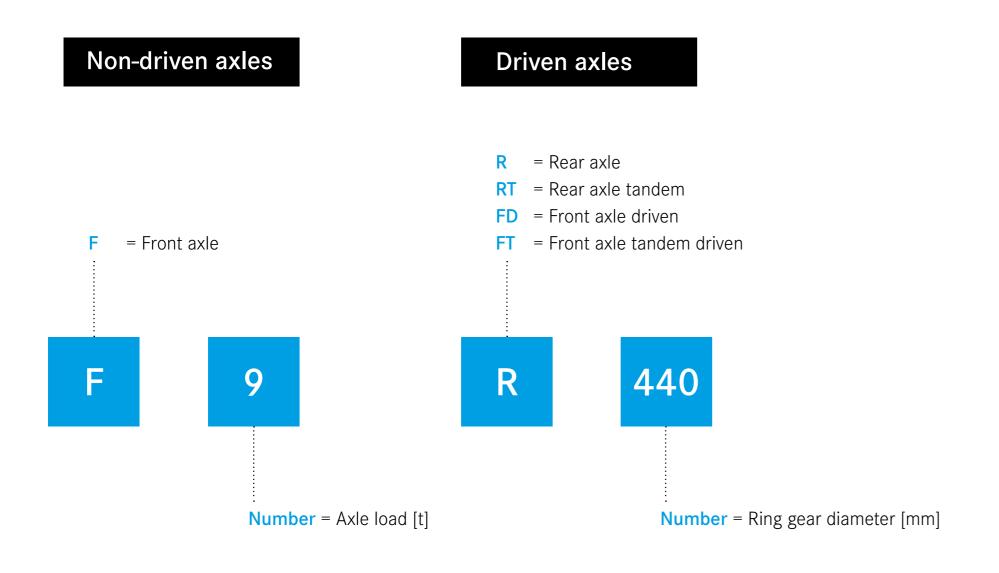
Suctions pump vehicles





Reliable axles for every applications.

Derivation "Nomenclature" - axles.



The right axle for every application.

Axle portfolio: front axles* and rear axles.

	Vehicle category	Front axles*	Tire size [inches]	Axle load [t]		Rear axles	Tire size [inches]	Axle load [t]			
lg.	Light-duty	F 4.1 - F 4.4	17.5	to 4.4		R 325	17.5	6 - 8.3			
B	Medium- duty	F 5.3 - F 6.1	19.5/20/22.5	5.3 - 6.	1	R 390	19.5/20/22.5	9.2 - 11			
		FD 346 - FD 360	20/22.5	4.7 - 6							
Į,	Heavy-duty	F 7.5 - F 8	20/22.5		7.5 – 8	R 440	22.5	18	1		
						R 485	22.5	18	1		
						R 233 P - R 300 P	20/22.5/24		13.4–16		
		F9-F9.5	20/22.5		9	RT 390 + RT 390 T **	22.5		20	1	
		FD 233 P	20/22.5/24		7.5 - 9	RT 440 + R 440 **	22.5			2	6
		FD 233 P** FT 233 P +	20/22.5/24		// 18	RT 300 P + R 300 P **	20/22.5/24				26.8-3

Meaning of symbols:

FA

Front axles

RA

Rear axles

₽₽

Axles for light-duty trucks



Axles for medium-duty trucks



Axles for heavy-duty trucks



Our axle product portfolio: Efficiency on demand.

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 trucks.

We use our customers' experience, their requirements and demands as an essential precondition in 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
- · Noise behaviour

Top vehicle manufacturers around the world trust on 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 so share our experience and technology with you.

Convince yourself and discover the advantages of Mercedes-Benz axles.

Mercedes-Benz Axles | Portfolio

Flexibility at high level.

Your product benefits for front-axles:

- · Tire sizes from 17.5 to 24 inches
- Driven front axles for light-, mediumand heavy-duty applications
- · Axle loads from **3.5 to 9 t** (per axle)
- · Gross vehicle weight rating (GVWR) from 6.5 to 250 t
- High fuel efficiency design to suit the operating conditions
- · Easy maintenance and long oil change intervals

- Longer lifetime and quieter operation due to our optimized gear set design
- Additional payload due to compact design and weight-optimized technical design
- · Maintanance free wheel-hubs
- · Left or right handed applications possible

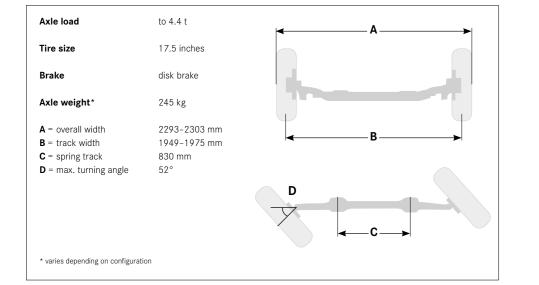
F 4.1-F 4.4





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

Data and dimensions



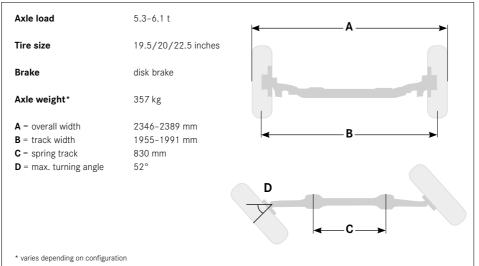
F 5.3-F 6.1





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

Data and dimensions



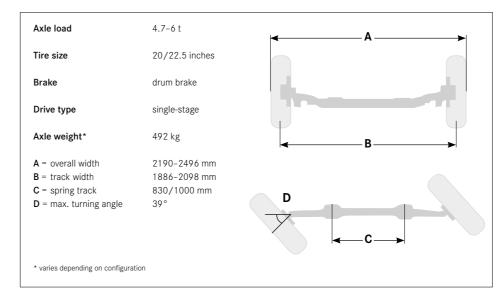
FD 346-FD 360





- Steered, driven salisbury-design axle
- Recommended for medium-duty application

Data and dimensions



F 7.5-F 8





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

Data and dimensions

Axle load	7.5-8 t	← A — →
Tire size	20/22.5 inches	
Brake	disk brake/ drum brake	
Axle weight*	461 kg	
A = overall width	2486-2583 mm	← B →
B = track width	2046-2140 mm	
C = spring track	840 mm	
D = max. turning angle	52°	D
* varies depending on configurat	ion	

Mercedes-Benz Axies | Front axle

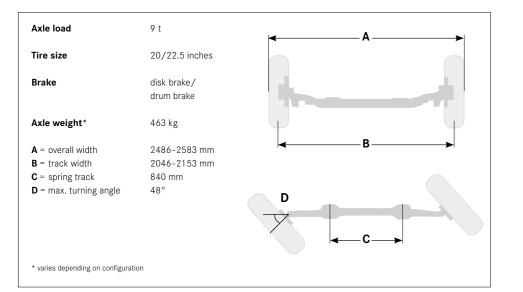
F 9-F 9.5





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

Data and dimensions

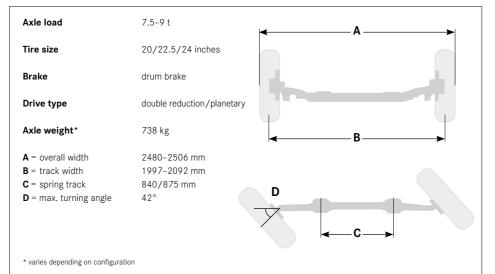


FD 233 P



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

Data and dimensions



FD 233 P + FT 233 P

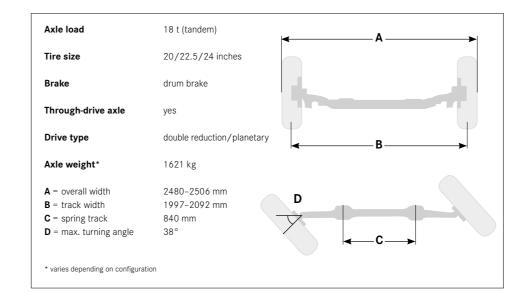






- Steered, driven planetary axle with cast axle housing, tandem
- Recommended for heavy-duty application

Data and dimensions







Master every challenge.

Your product benefits for rear axles:

- · Tire sizes from 17.5 to 24 inches
- · Hypoid and planetary driven
- · Ring gear diameter from 233 to 485 mm
- · Axle loads from **6 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 quiete operations due to our optimized gear set design
- · Additional payload due to weight optimized design
- · Maintanance free wheel-hubs
- New Final Drive axle with active oil management reduces fuel consumption

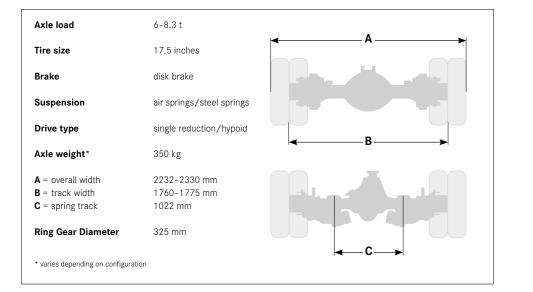
R 325





- Fabricated axle housing
- Recommended for light-duty application

Data and dimensions



R 390





- Fabricated axle housing
- Recommended for medium-duty application

Data and dimensions

Axle load	9.2-11 t	
Tire size	19.5/20/22.5 inches	A
Brake	disk brake/drum brake	
Suspension	air springs/steel springs	
Drive type	single reduction/hypoid	
Axle weight*	541 kg	D →
A = overall width	2284-2489 mm	
B = track width	1753-1840 mm	القارم فالكوم القا
C = spring track	1022 mm	
Ring Gear Diameter	390 mm	WTTW
* varies depending on configura	tion	← C →

R 440



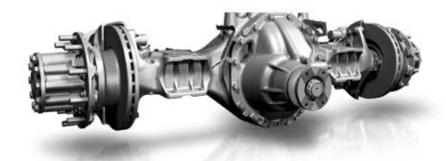
- Fabricated axle housing
- Recommended for heavy-duty application

Data and dimensions

Axle load	13 t	
Tire size	22.5 inches	A
Brake	disk brake	
Suspension	air springs/steel springs	
Drive type	single reduction/hypoid	B S
Axle weight*	680 kg	D—————————————————————————————————————
A = overall width	2410-2482 mm	
B = track width	1802-1910 mm	الخال م الكار
C = spring track	930 mm	
Ring Gear Diameter	440 mm	
* varies depending on configura		← C →

R 485





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

Data and dimensions

Axle load	13 t	
Tire size	22.5 inches	A
Brake	disk brake	and the same
Suspension	air springs/steel springs	
Drive type	single reduction/hypoid	B
Axle weight*	765 kg	
A = overall width B = track width	2422-2482 mm 1802-1804 mm	m, A m
C = spring track	930 mm	
Ring Gear Diameter	485 mm	
* varies depending on configura	tion	← —C——

Mercedes-Benz Axles | Rear axle

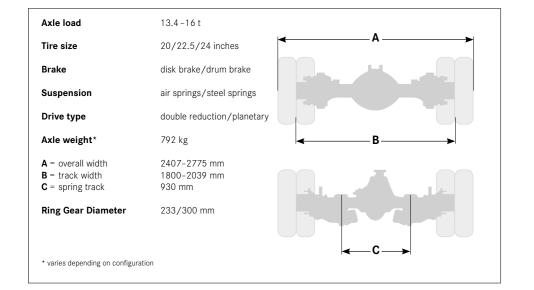
R 233 P - R 300 P





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

Data and dimensions



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

RA

Axle load	26.8-32 t (tandem)	
Tire size	20/22.5/24 inches	← A →
Brake	disk brake/drum brake	
Through-drive axle	yes	
Suspension	air springs/steel springs	
Drive type	two-stage/planetary	← B →
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	on	← C →

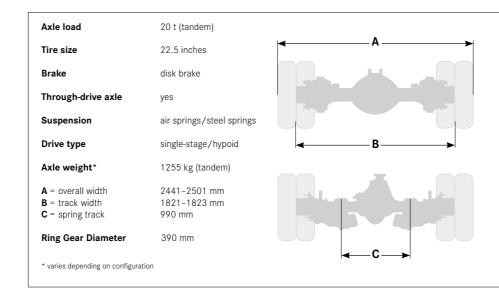
RT 390 + RT 390 T





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

Data and dimensions



RT 440 + R 440





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

Data and dimensions

Axle load	26 t (tandem)	
Tire size	22.5 inches	A
Brake	disk brake	
Through-drive axle	yes	
Suspension	air springs/steel springs	
Drive type	single-stage/hypoid	← B →
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	← C→
* varies depending on configurat	tion	

Mercedes-Benz Axles | Rear axle

Service benefits at a glance.



Application engineering consultancy service

Our experts will help you to select the right aggregates, components to create a customized solution that suits your application specific requirements. Our experts provide you installation manuals for mechanical and electronical integration of our components. As part of the release process we optionally run an installation inspection.



Customer training

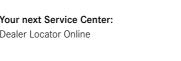
Uniquely tailored training courses can be held in Germany and other countries to ensure that you receive the necessary expert knowledge in regards for installing, operating, and maintaining your aggregate in accordance with our high standards.

The following topic areas are handled on a need-to-know basis as part of our customer training courses

- · Control units in the architecture
- Electrical interfaces
- · Electronic interfaces
- Basics of assemblies
- · Control unit functions
- Diagnostics interface
- · Basics of the diagnostics tool
- · Practical applications of the diagnostics tool

Service network

Optimizing customer support while minimizing downtimes of your truck and bus is highly relevant for us. Enjoy the advantages of our network with more than 2,400 authorized Mercedes-Benz Truck Service Centers only the use of high-quality GenuineParts that ensures



Spare parts supply

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

For our price sensitive customers we also offer a large portfolio of Genuine Remanufactured Parts - for saving costs but on the same quality level.



https://remanparts.mercedesenz.com/download-center/

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 in 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 AG 001-E206 70546 Stuttgart/Germany

+49 (0)711 17-5 41 86 aggregate-info@daimler.com www.mercedes-benz.com/powertrain





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