Mercedes-Benz Powertrain



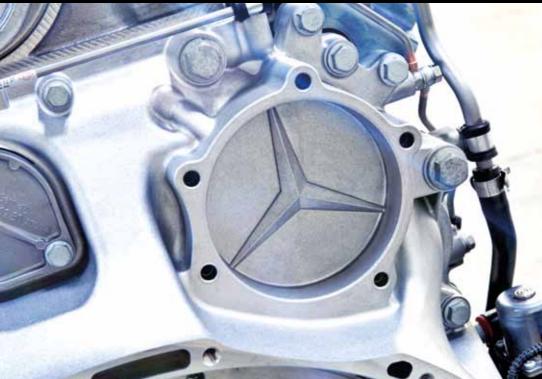
Portfolio Truck Classic: EURO III, EURO V and EEV.



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







Content

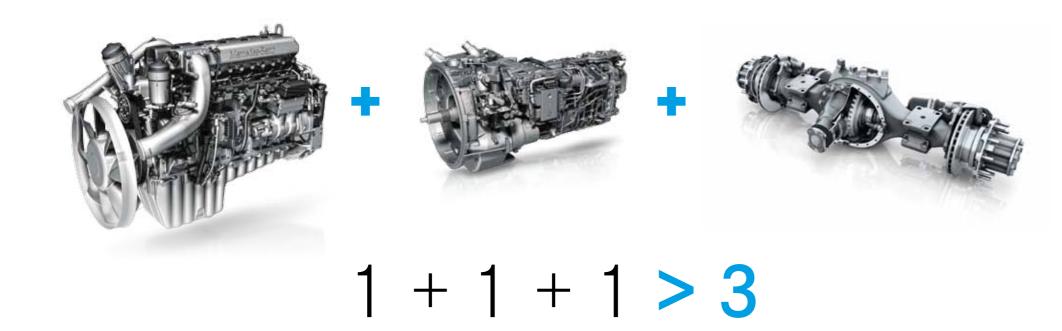
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Going the extra mile. Mercedes-Benz Powertrain.

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.



Benefits for you.

Integrated powertrain:

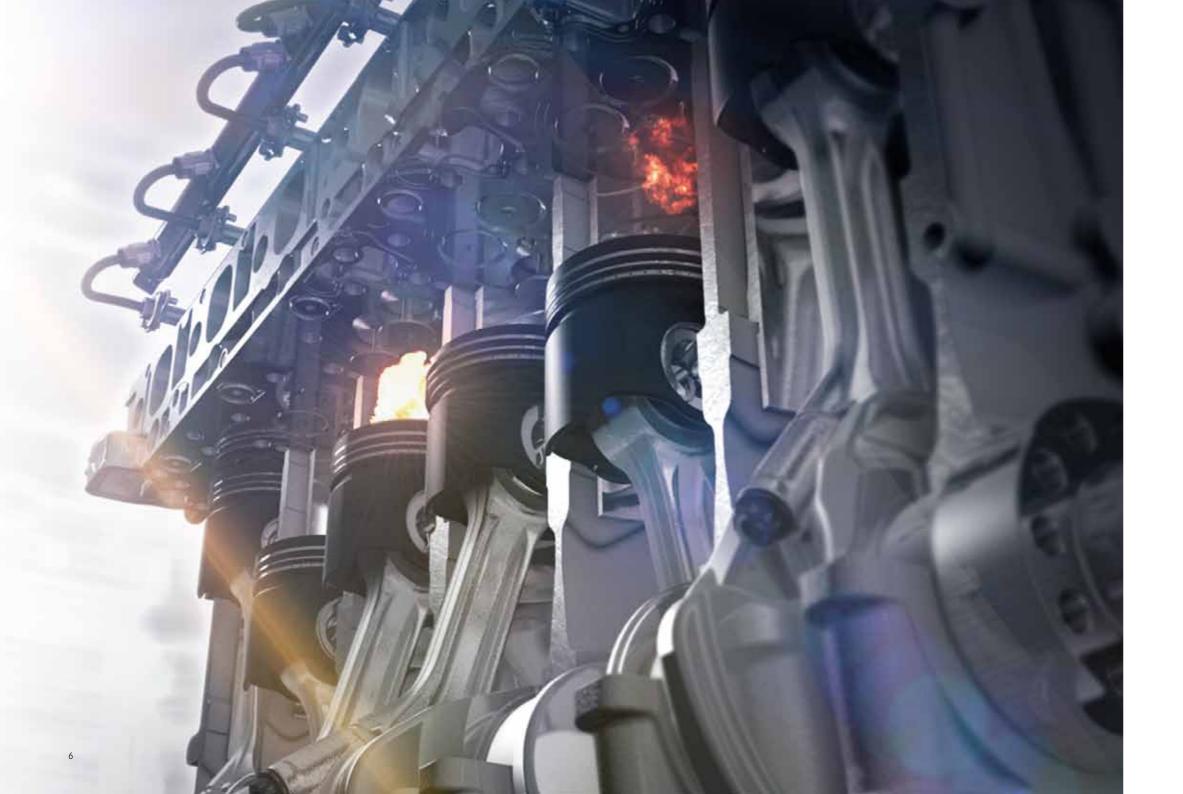
- ✓ Reduces integration efforts
- ✓ One Key Account Manager as main contact partner
- One system supplier for your individual powertrain solution
- ✓ One contractual partner

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 setup 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 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
- ✓ 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
- ✓ Higher Driver comfort due to the high integration of all assistent systems and features



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

Our EURO III, V and EEV engines are **synonymous for strength**, **economy and durability**. Based on these characteristics, our engines are ideal for short radius distribution, construction site transport and long distance haulage. They can also be modified to create customer-specific variants for use in different truck applications. The 4/6 cylinder in-line models with EURO III, V and EEV engines represent **superior function and efficiency**. **The EURO V engines 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 (NOx) and particulates, to meet emission standards at the tailpipe.

Besides low consumption, the BlueTec® engines also have impressive maintenance intervals and a long engine life. At Mercedes-Benz, we have spent decades bringing our diesel engines to perfection. Our dedication to excellence has earned Mercedes-Benz loyal customers around the world, in the most demanding industries and application.

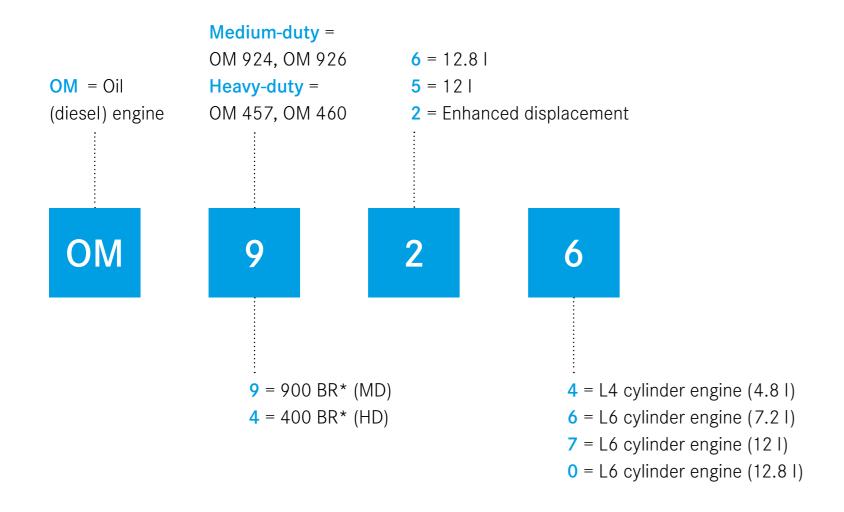




92X, 457 and 460 model series.

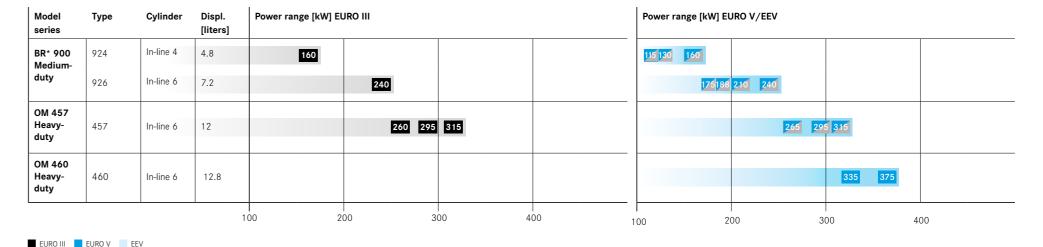
Proven engine systems for a wide range of applications.

Derivation "Nomenclature" - engine systems.



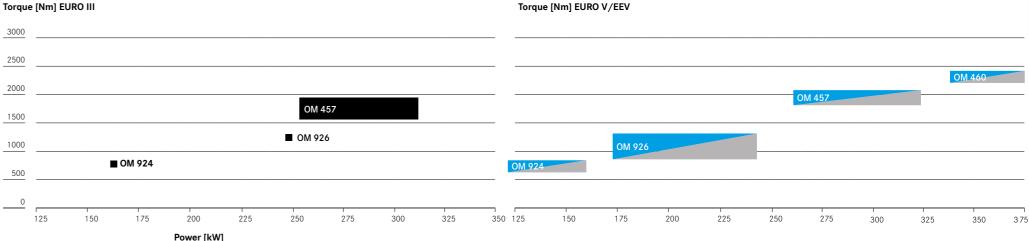
Engine systems for EURO III, EURO V and EEV.

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



Power range

* BR = Baureihe = model series



^{*} BR = Baureihe = model series



Always a good choice.

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 liters
- · Output of 115 up to 240 kW
- Low fuel consumption due to proven SCR technology
- · Compact installation space

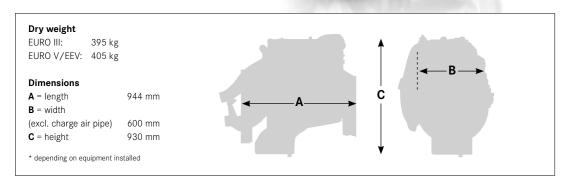
- Cylinder head with 3-valve technology
- Powerful and dynamic engine brakes due to decompression technology
- · Additional **power take-off** options
- · "One box" SCR exhaust after-treatment
- Wide range of potential adaptations due to extensive modular system

OM 924

Arrangement: In-line 4 Displacement: 4.8 I



Weight and dimensions*

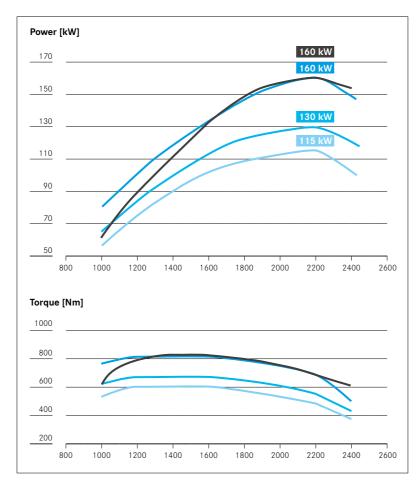


Rated power and maximal torque

14

		EURO III	EURO V/EEV	EURO V/EEV	EURO V/EEV
Rated power	[kW/hp]	160/218	115/156	130/177	160/218
at engine speed	[rpm]	2200	2200	2200	2200
Maximal torque	[Nm]	810	610	675	810
at engine speed	[rpm]	1400-1600	1200-1600	1200-1600	1200-1600

Performance



OM 926

Arrangement: In-line 6 Displacement: 7.2 l



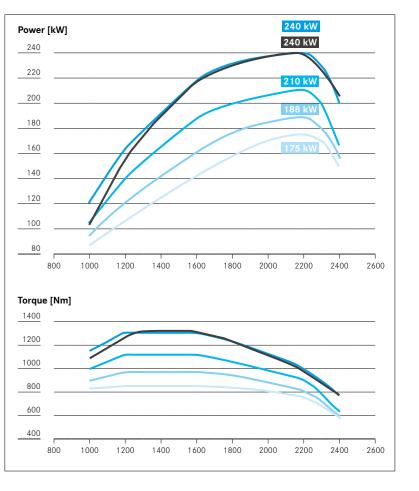
Weight and dimensions*



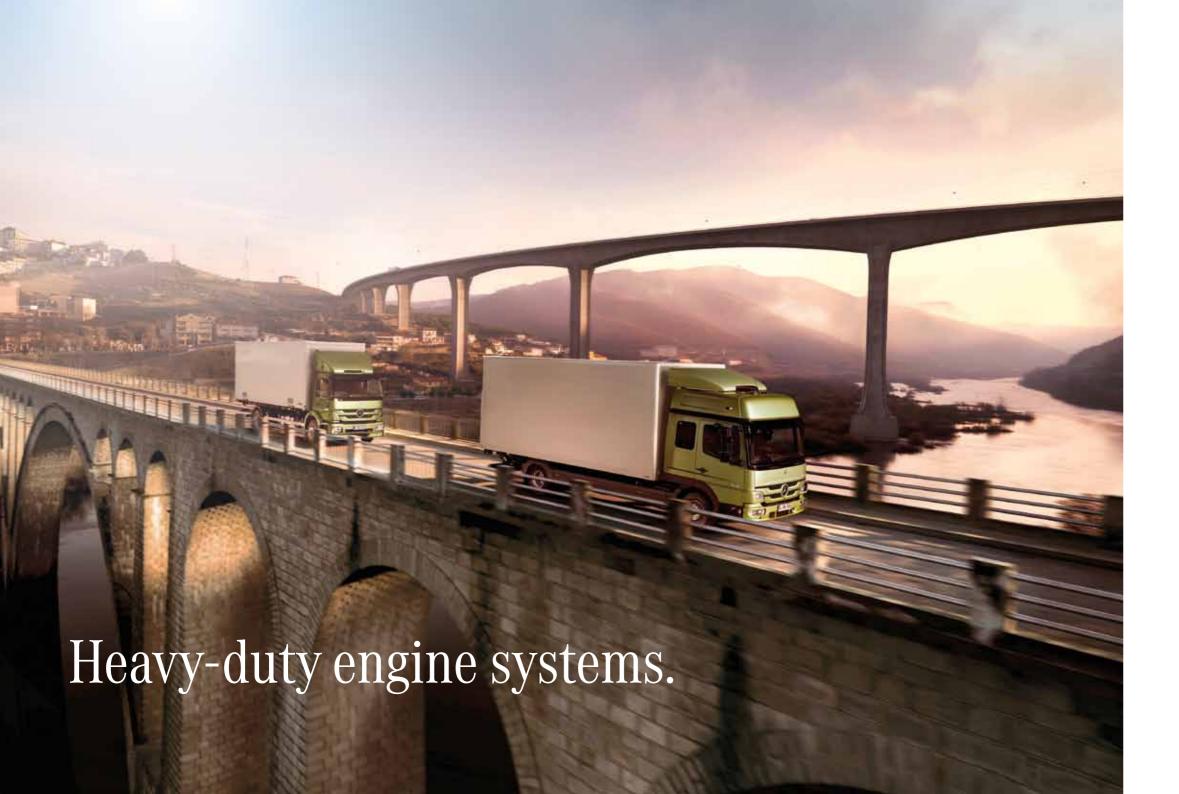
Rated power and maximal torque

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

Performance



Mercedes-Benz engine systems | Medium-duty engines



Climb every mountain.

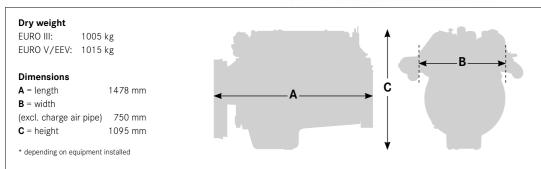
Your product benefits for heavy-duty engine systems:

- · 6-cylinder diesel engines in **in-line arrangement**
- · Displacement of 12 and 12.8 liters
- Output of 260 up to 375 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



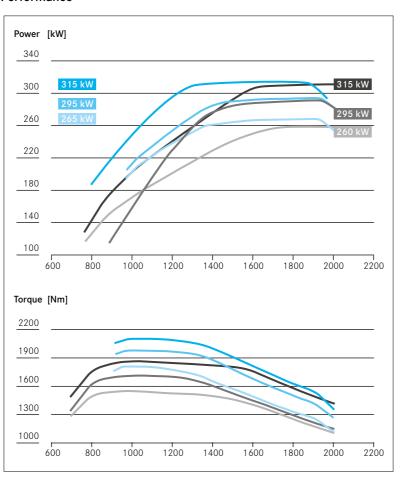
Weight and dimensions*



Rated power and nominal torque

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

Performance







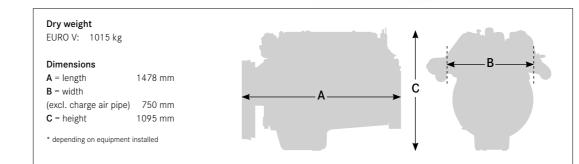


OM 460

Arrangement: In-line 6 Displacement: 12.8 l



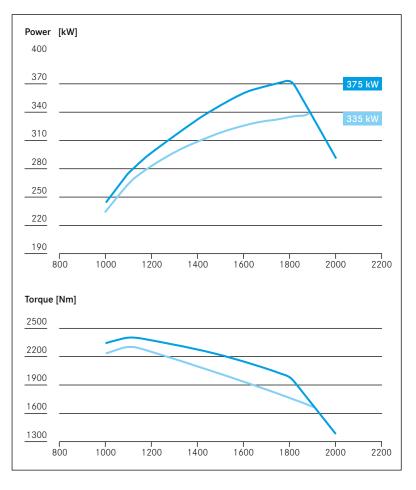
Weight and dimensions*



Rated power and maximal torque

		EURO V	EURO V
Rated power	[kW/hp]	335/456	375/510
at engine speed	[rpm]	1900	1800
Nominal torque	[Nm]	2300	2400
at engine speed	[rpm]	1100	1100

Performance



With BlueTec®, Mercedes-Benz's SCR diesel

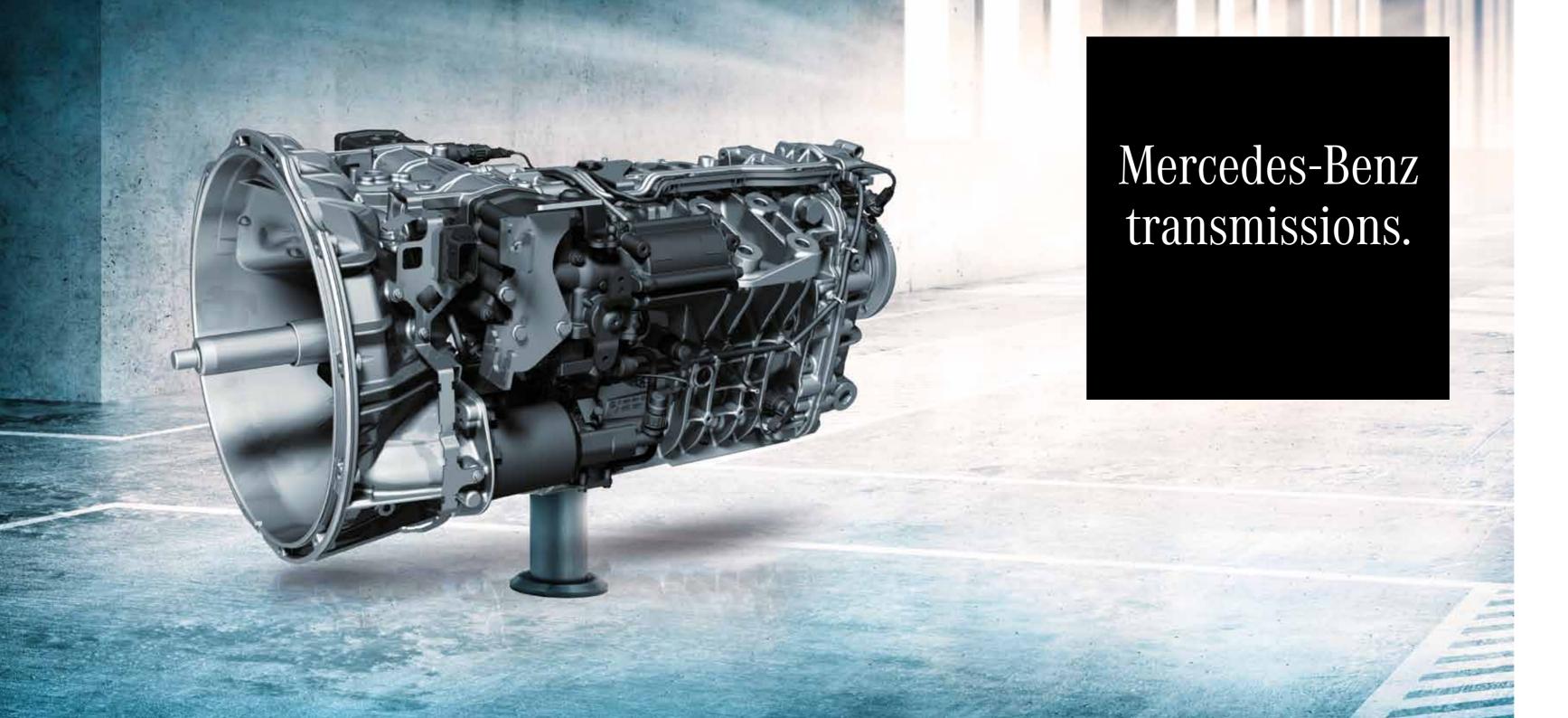
Clean from start to finish.

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
- · Vertical and horizontal variants

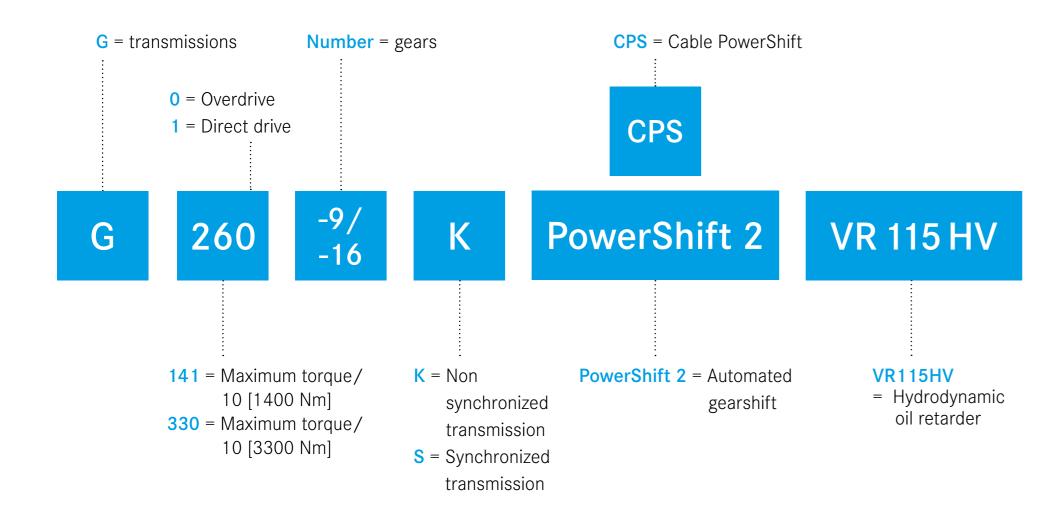


EURO V and EEV exhaust after-treatment system.

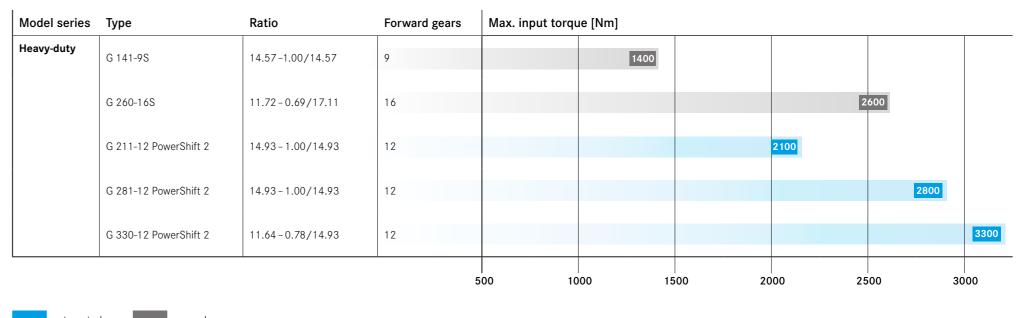


Reliable transmissions for a wide range of applications.

Derivation "Nomenclature" - transmissions.



Transmissions for EURO III, EURO V and EEV engine systems.



Meaning of symbols:



Transmission for medium-duty trucks



Transmission for heavy-duty trucks & special vehicles



Transmission for cranes

0 | |

Our transmission product portfolio: Smooth operation in every situation.

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 | Portfo



Performance driven to the extreme.

Your product benefits for heavy-duty transmissions:

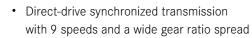
- · 9- to 16-speed transmissions
- Max. input torque from 1400 to 2600 Nm
- Wide gear ratio from 14.57 to 17.11
- Max. permissible gross combination weight (GCW) from 40 to 55 t
- Mechanical shifting systems enable very smooth gear changing and high driving
- Highly variable modular systems for customer-specific system solutions

- Integrated hydrodynamic retarder
- 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 characteristic

G 141-9S







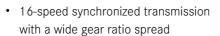
 Economical gear ratio spread (including small gear ratio between 7th and 8th gear)



G 260-16S



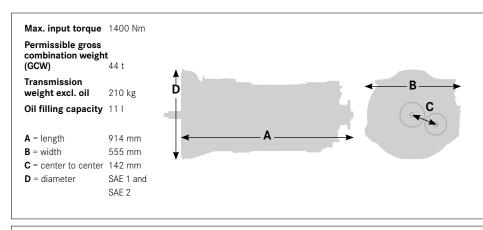




- Overdrive versions
- Hydrodynamic retarder can be adapted

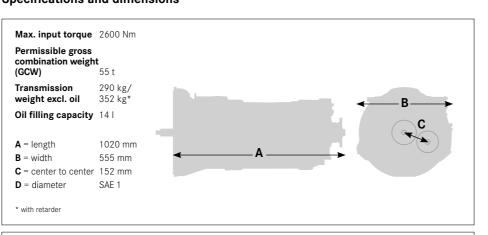


Specifications and dimensions



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



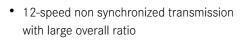
Gear	1	2	3	4	5	6	7	8	R	Gear ratio spread
i _S	11.722	7.916	5.291	3.636	2.664	1.799	1.203	0.826	10.656	17.11
iL	9.747	6.583	4.400	3.023	2.215	1.476	1.000	0.687	8.861	17.11



G 211-12 PowerShift 2







Direct drive version

 Integrated powerpack mount on transmission housing

Electronic-automated shift system EPS III K

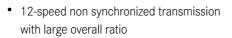
G 281-12 PowerShift 2







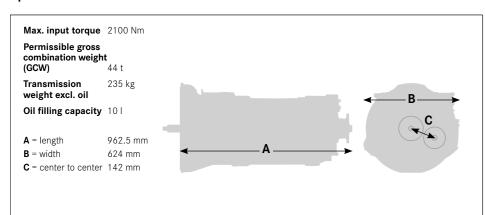




- Overdrive versions
- Hydrodynamic Retarder additional available
- Electronic-automated shift system EPS III K

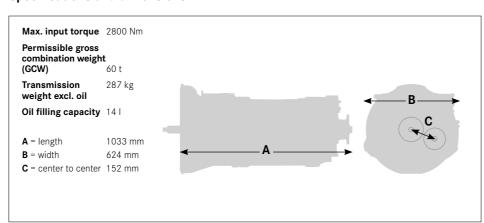


Specifications and dimensions



Gear	1	2	3	4	5	6	R	Gear ratio spread
is	14.93	9.03	5.63	3.39	2.05	1.28	14.93	14.93
iL	11.67	7.06	4.40	2.65	1.60	1.00	11.67	14.93

Specifications and dimensions



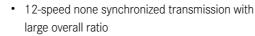
Gear	1	2	3	4	5	6	R 1	R 2	Gear ratio spread
is	14.93	9.024	5.644	3.393	2.051	1.283	16.386	3.724	14.93
iL	11.639	7.035	4.400	2.645	1.599	1.000	12.774	2.903	14.93

G 330-12 PowerShift 2





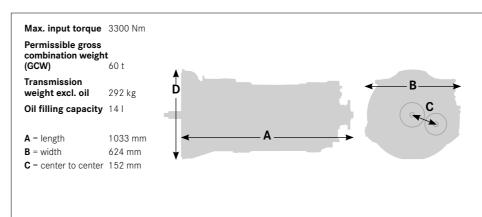




- Overdrive versions
- Hydrodynamic Retarder additional available
- · Electronic-automated shift system EPS III K



Specifications and dimensions



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	14.93
iL	9.020	5.452	3.410	2.050	1.239	0.775	9.900	2.250	14.93



Integrated hydrodynamic oil retarder

The integrated hydrodynamic oil retarder offers a **high braking torque in combination** with a compact, weight-saving design. The braking power of the retarder is also independent of selected gear or current engine speed.

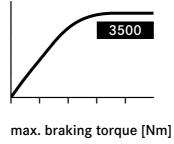
A gear change does not result in any interruption in the retarder braking action and the retarder braking power depends only on the current driving speed. The braking power can be controlled precisely in **five stages** using the right hand control stalk on the steering column. In addition to the engine brake, the retarder provides a **maximum braking torque up to 3500 Nm (VR 115 HV)**.

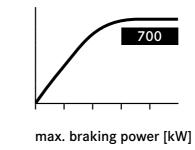


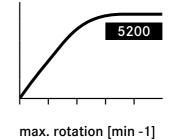
VR 115 HV Hydrodynamic retarder

Your product benefits:

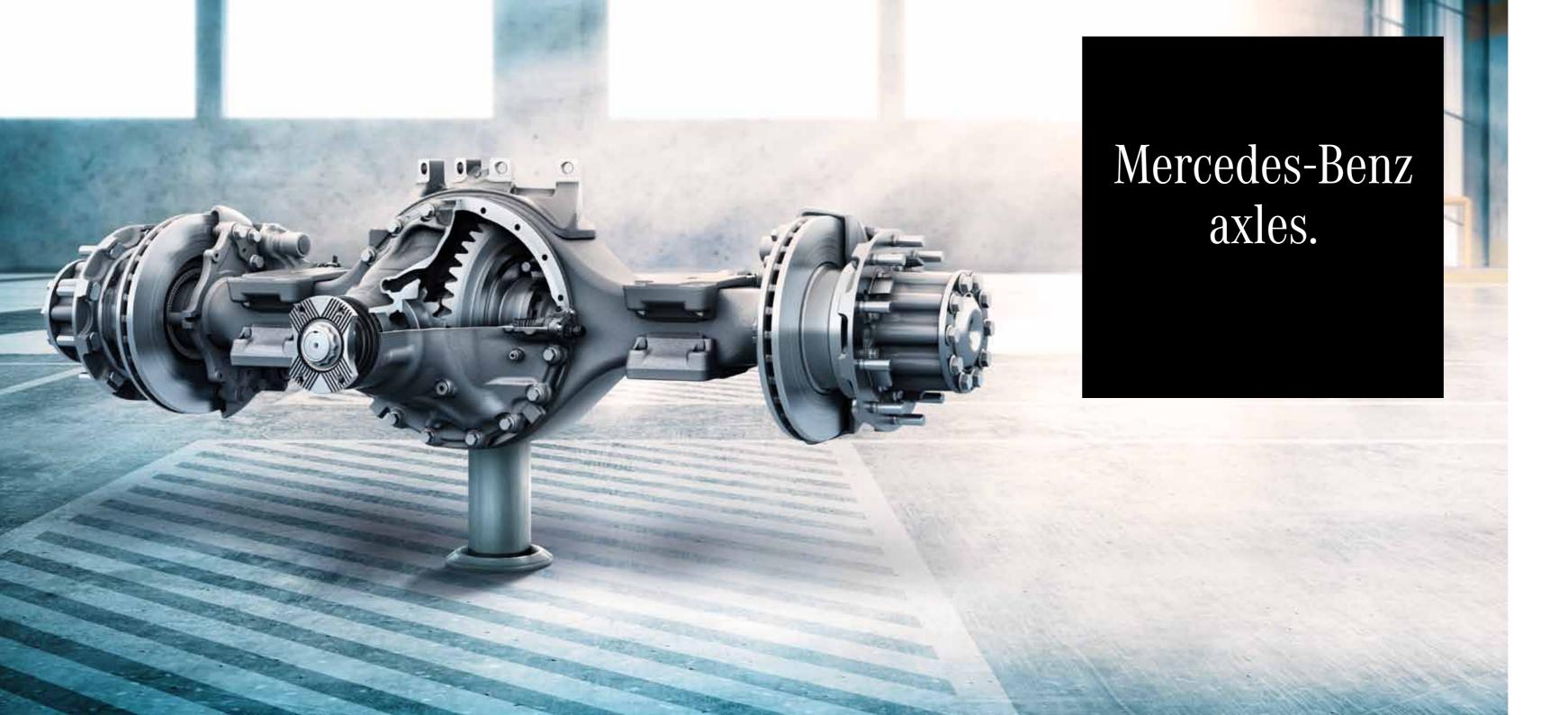
- Stainless steel heat exchanger
- Reduction of friction by axial rotor displacement
- Optimized **hydrodynamics**
- **Integration** into the vehicle management
- Standard prop **shaft length** is determined by the **retarder unaffected**





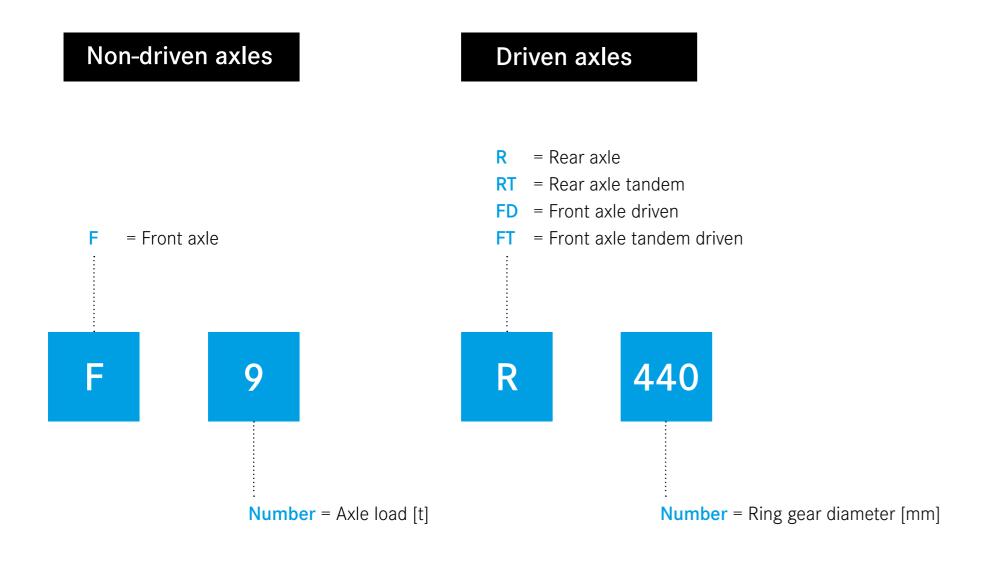






Reliable axles for every application.

Derivation "Nomenclature" - axles.



The right axle for every application.

Axle portfolio: front axles* and rear axles.

- 1	hicle tegory	Front axles*	Wheel-end size [inches]	Axle load [t]				Rear axles	Wheel-end size [inches]	Axle load [t]				
Lig	ght-duty	F 4.1 – F 4.4	17.5	to 4.4	1			R 325	17.5	6 - 8.3				
Me	edium- ity	F 5.3 – F 6.1	19.5/20/22.5		5.3 - 6.1			R 390	19.5/20/22.5	9.2 – 1	1			
		FD 346 - FD 360	20/22.5		4.7 - 6									
Не	eavy-duty	F 7.5 - F 8	20/22.5			7.5 - 8		R 440	22.5		13			
								R 485	22.5		13			
								R 233 P - R 300 P	20/22.5/24		13.4-	16		
		F 9 - F 9.5	20/22.5				9	RT 390 + RT 390 T **	22.5			20		
		FD 233 P	20/22.5/24			7	.5 - 9	RT 440 + R 440 **	22.5				26	
		FD 233 P** FT 233 P +	20/22.5/24				// 18	RT 300 P + R 300 P **	20/22.5/24				2	26.8

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.



Flexibility at high level.

Your product benefits for front axles:

- · Wheel-end sizes from 17.5 to 22.5 inches
- Driven front axles for light-, mediumand heavy-duty applications
- · Axle loads from **4.1 to 9.5 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
- · Maintanance-free wheel-hubs
- · Easy maintenance and long oil change intervals
- Longer lifetime and quieter operation due to our optimized gear set design

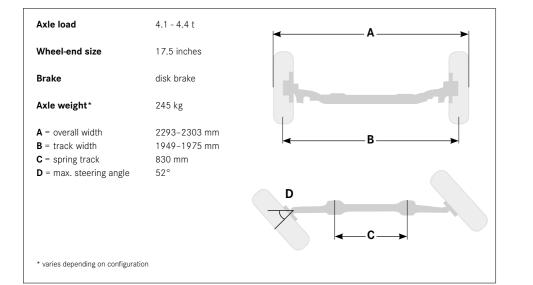
F 4.1-F 4.4





- 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

Axle load	5.3-6.1 t	← A →
Wheel-end size	19.5 inches	
Brake	disk brake	
Axle weight*	357 kg	
A = overall width B = track width	2346-2389 mm 1955-1991 mm	→ B →
C = spring track	830 mm	
D = max. steering angle	52°	
		D
* varies depending on configuration	on	

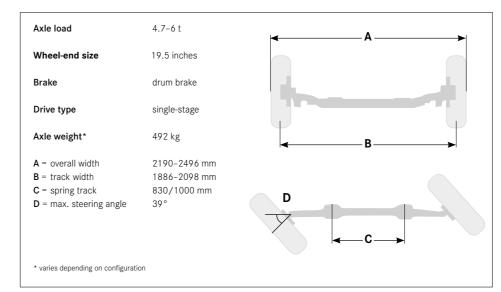
FD 346-FD 360





- 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 →
Wheel-end size	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. steering angle	52°	D C
* varies depending on configuration	on	

Mercedes-Benz axles | Front axles

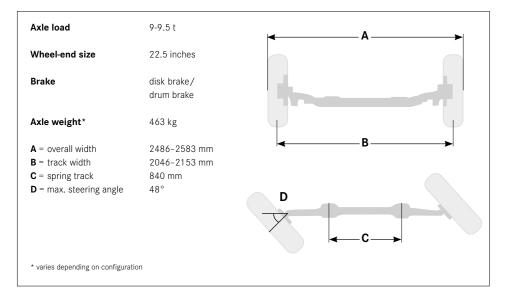
F 9-F 9.5





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

Data and dimensions



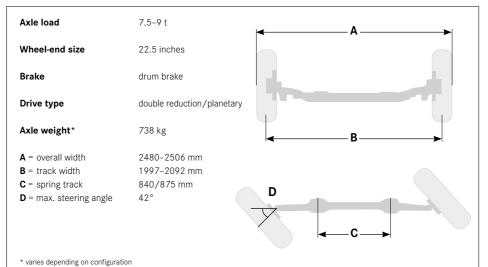
FD 233 P





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

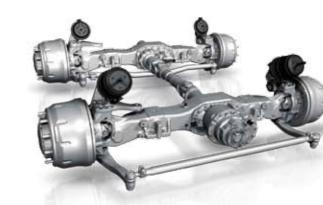
Data and dimensions



FD 233 P + FT 233 P

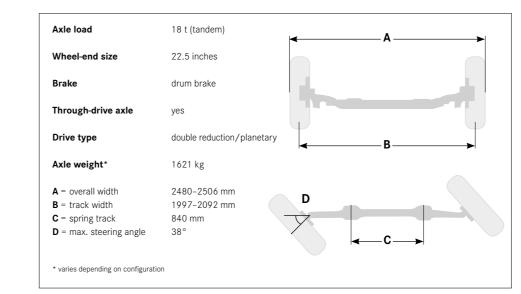






- Steered, driven planetary axle with cast axle housing, tandem
- Recommended for heavy-duty application

Data and dimensions







Master every challenge.

Your product benefits for rear axles:

- Wheel-end sizes from 17.5 to 22.5 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 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 optimized oil management reduces fuel consumption

R 325

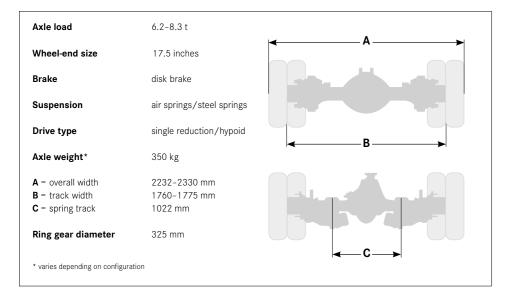




- Fabricated axle housing
- Recommended for light-duty application

Data and dimensions

52



R 390





- Fabricated axle housing
- Recommended for medium-duty application

Data and dimensions

Axle load	11 t	
Wheel-end size	19.5 inches	A
Brake	disk brake/drum brake	
Suspension	air springs/steel springs	
Drive type	single reduction/hypoid	B
Axle weight*	541 kg	
A = overall widthB = track widthC = spring track	2284-2489 mm 1753-1840 mm 1022 mm	
Ring gear diameter	390 mm	
* varies depending on configurat	tion	,

R 440



- Fabricated axle housing
- Recommended for heavy-duty application

Data and dimensions

Axle load	13 t	•
Wheel-end size	22.5 inches	A
Brake	disk brake	and the same
Suspension	air springs/steel springs	
Drive type	single reduction/hypoid	B
Axle weight*	680 kg	
A = overall width	2410-2482 mm	
B = track width	1802-1910 mm	الغليم الكائم الخاا
C = spring track	930 mm	

R 485





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

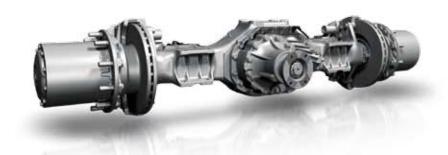
Data and dimensions

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

Mercedes-Benz axles | Rear axles

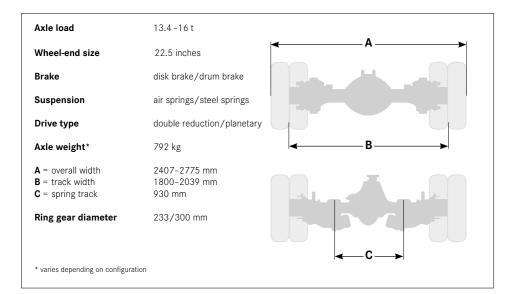
R 233 P - R 300 P





- 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

Axle load	26.8-32 t (tandem)	
Wheel-end size	22.5 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	← c →
* varies depending on configurati	ion	

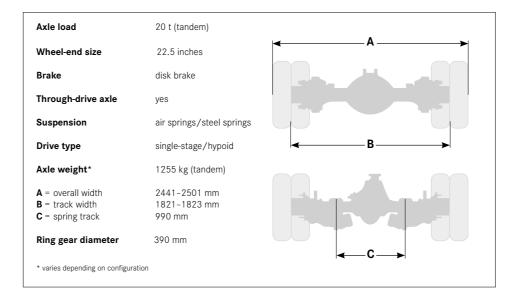
RT 390 + RT 390 T





- 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)	
Wheel-end size	22.5 inches	A
Brake	disk brake	
Through-drive axle	yes	To the second
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 configura	tion	

Mercedes-Benz axles | Rear axles

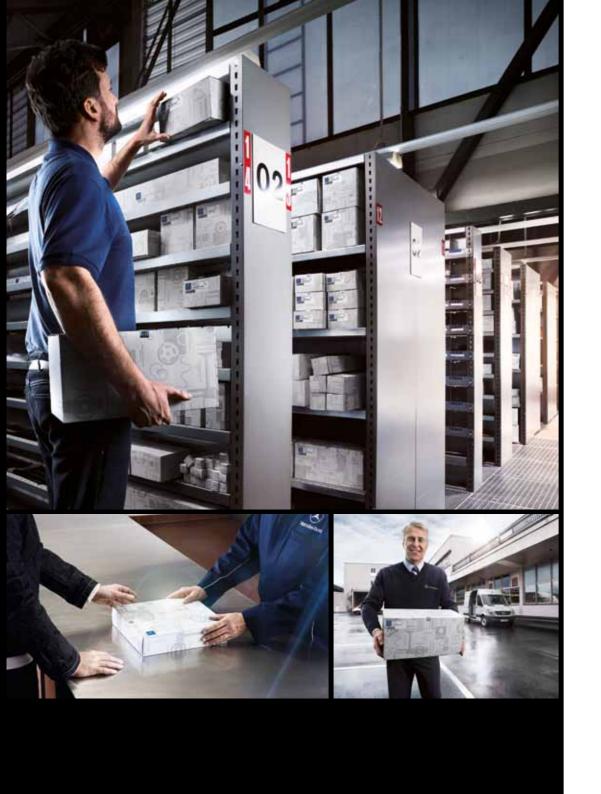


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aggregate-info@daimler.com www.mercedes-benz.com/powertrain



Index.

ENGINES					TRUCK	BUSES
Туре	Cylinder	Displacement [litres]	Power [kW]	Torque [Nm]		
OM 924	 L4	4.8	115. 130. 160	610. 675. 810	x	x
OM 926	L6	7.2	175. 188. 210. 240	850. 970. 1120. 1300	X	X
OM 457	L6	12.0	260. 265. 295. 310². 315. 335²	1600 ² . 1750 ² . 1850. 1900 ² . 2000. 2100. 2200 ²	Х	Х
OM 460	L6	12.8	335. 375	2300. 2400	Х	

	1014	100	-	
KAN	ISM	IISSI	Or	15

Туре	Ratio	Forward gears	Max. input torque [Nm]	
G 90 - 6S	6.70 - 0.73/9.20	6	1000	x
G 141-9S	9.75 - 1.00/14.57	8	1400	X
G 260 -16S	11.72 - 0.69/17.11	16	2600	X
G 211-12 PowerShift 2	14.93 - 1.00/14.93	12	2100	X
G 281-12 PowerShift 2	14.93-1.00/14.93	12	2800	X
G 330 -12 PowerShift 2	11.64 - 0.78/14.93	12	3300	X
GO 230 - 6 CPS	6.53 - 0.72/9.03	6	2300	X
GO 240 - 8 PowerShift 2	6.57 - 0.63/10.38	8	2400	X

TRUCK BUSES

RETARDER	TRUCK	BUSES
Hydrodynamic retarder	X	<u>x</u>

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
F9-F9.5	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]		

			INCOR	DOGEO
[ype [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	26.8 - 32	X	
RT 233 P + R 233 P - RT 300 P + R 300 P	22.5	26 - 32	X	
RT 390 + RT 390 T	22.5	20.5	X	
RT 440 + R 440	22.5	26	X	

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

