

# Actros - Specifications



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# Actros cabs



## Standard Day Cabs

The comfortable day cab with generous space concept is designed to meet the needs of the driver/passenger in local distribution and national long-distance operation. It is designed on the basis of state-of-the-art ergonomics and safety aspects and offers a great deal of space and storage facilities (side panels, roof, doors and rear panel).

## Features

- Air conditioner
- Radio/CD with Bluetooth®
- Central locking
- Adjustable steering
- All-round tinted windows
- Lateral sun visor
- Electrical windows
- Electrical adjustable rear-view mirrors
- Front aerodynamic and ramp mirror
- A fold-up bunk fitted as standard equipment on selected models
- Seat covers made of hard-wearing woven fabric
- Storage compartments at left/right in front of the rear panel with cover
- Storage facilities above the windscreen, in the front section and the doors
- Comfortable four-point cab suspension

## Benefits

- Facilitates work for driver due to the highly functional, generous and attractive space concept
- Very pleasant stopovers in the cab (waiting times and rest times etc.) due to the generous available space
- Driver can spend night in cab if fold-up bunk is fitted (day cab)
- High rest and sleep comfort thanks to wide bed with foam mattress, integrated point-elastic mattress support, adjustable head section (long cab)
- Numerous storage facilities in the cab keep it tidy and provide convenience
- Comfortable cab suspension with good suspension comfort relieves the strain on the driver on long journeys
- Very high level of passive safety thanks to high-strength design in accordance with efficient safety facilities
- Reduced fouling of the cab and the side windows thanks to enhanced aerodynamics

## Long Cabs

The comfortable long cab is designed entirely to meet the needs of the driver/passenger and to provide comfort during vehicle operation. It is designed on the basis of state-of-the-art ergonomics and safety aspects. It offers extremely generous space and a great deal of storage area (side panels, doors, roof, rear wall).

## Features (low roof sleeper cab)

As per the day cab with additional features listed below:

- Sunblind, side window (driver's door)
- Luxury bottom bed
- All-round curtain

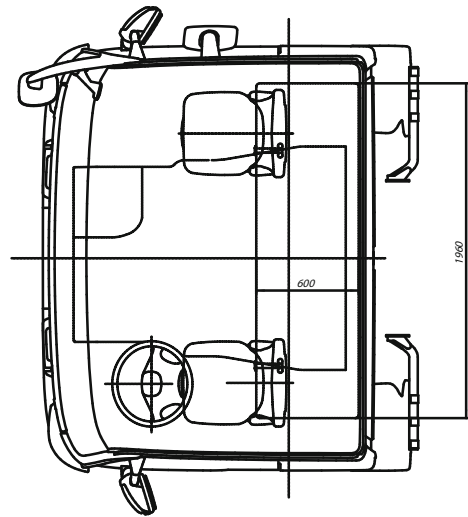
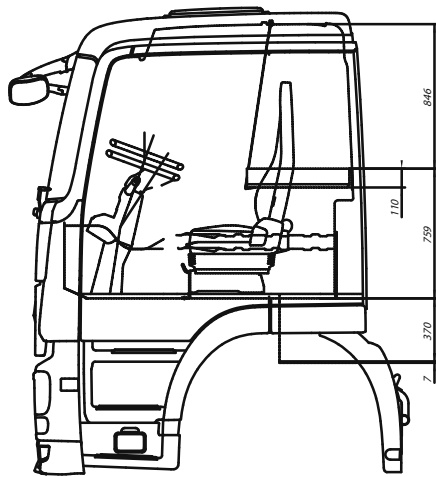
## Features (premium sleeper cab)

As per the low roof sleeper cab with additional features listed below:

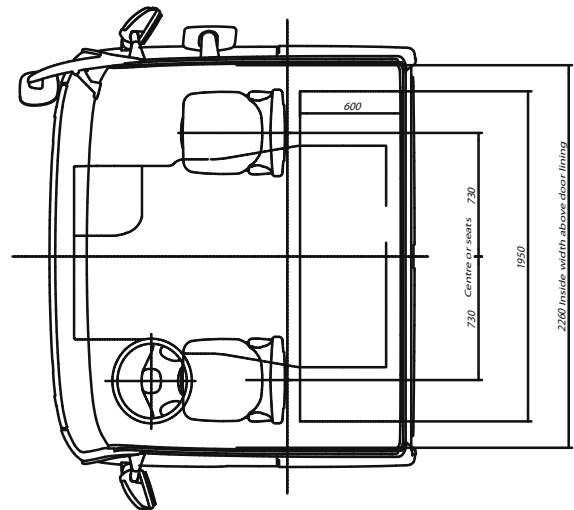
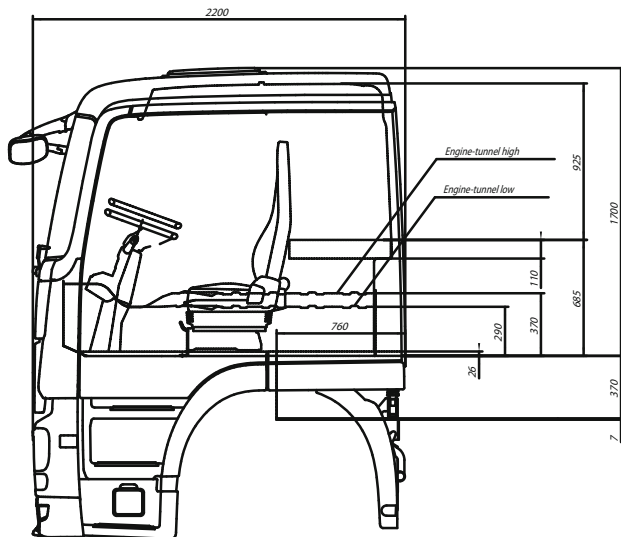
- External sunvisor
- Electrical tilting/sliding roof hatch
- Stowage compartments above windscreen
- High roof
- Comfort top and bottom bed



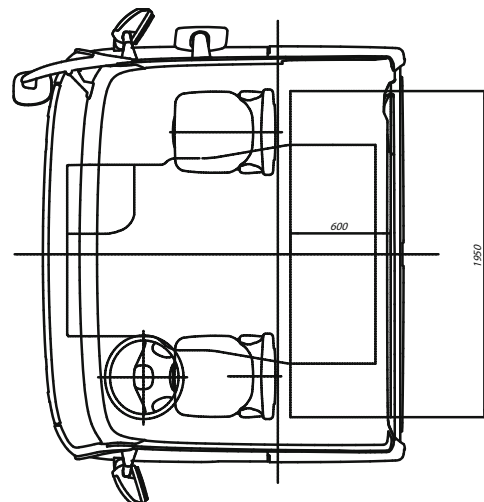
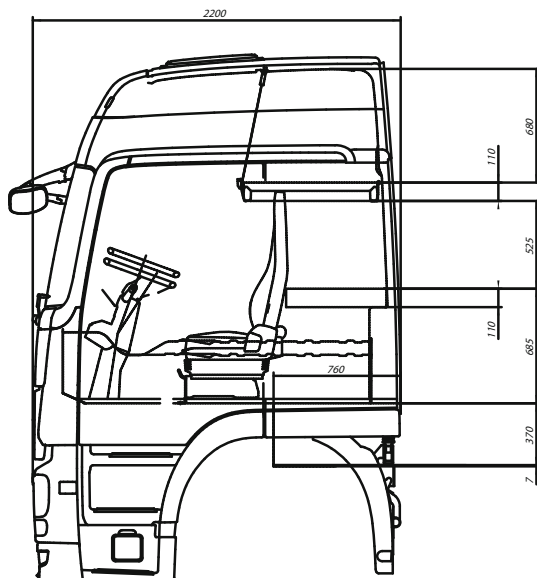
# Cab drawings



Standard day cab



Low roof sleeper cab



Premium sleeper cab

# Actros engines

## Features

- Reinforced cylinder head due to high-strength materials
- Inductively hardened cylinder head lower face and enhanced cylinder-head gasket for reducing wear and for a higher thermal load rating
- Enhanced injection system with modified injection nozzles for reduced thermal loading in engine-brake operation
- Enhanced piston cooling, piston rings and piston-pin bearing assemblies for reduced, constant oil consumption throughout the entire engine service life and a higher mechanical load rating
- Reduced gas-exchange losses by enhancement of the exhaust ports and the exhaust-gas stub to accommodate the engine-brake flap
- New-generation turbochargers with high-strength impeller for maximum mechanical stability, increased air throughput and enhanced efficiency
- Extended valve-adjustment intervals due to wear-resistant materials
- Long-life alternator and enhanced countershaft starter

## OM 501 LA

The OM 501 LA engine is a V6 engine with enhanced efficiency for individual adaptation of the engine output to the relevant transport task.

### Technical data

- V6 engine with one exhaust-gas turbocharger and charge-air intercooling
- Displacement: 11 946 cm<sup>3</sup>
- 4-valve technology
- Unit pump system (UPS)
- Engine management by fully electronic Telligent<sup>®</sup> engine management system
- Injection pressure: up to 1 800 bar
- Compression ratio: 1:17.75
- Ignition pressure: 170 bar
- 6-hole injection nozzles
- Euro 3 version

Key performance data for OM 501 LA series engines – refer to model overview.

- Maximum output: 335 kW/460 hp at 1 800 rpm
- Maximum torque: 2 200 N.m at 1 080 rpm

## Benefits

- Assists in achieving fuel-saving, economical operation as a function of transport task and driving style
- Extended engine life
- Reduction in lifecycle costs

## OM 502 LA

The OM 502 LA engine is a V8 engine with enhanced efficiency for individual adaptation of the engine output to the relevant transport task.

### Technical data

- V8 engine with two exhaust-gas turbochargers and charge-air intercooling
- Displacement: 15 928 cm<sup>3</sup>
- 4-valve technology
- Unit pump system (UPS)
- Engine management by fully electronic Telligent<sup>®</sup> engine management system
- Injection pressure: up to 1 800 bar
- Compression ratio: 1:17.75
- Ignition pressure: 170 bar
- 6-hole injection nozzles
- Euro 3 version

Key performance data for OM 502 LA series engines – refer to model overview.

- Maximum output: 450 kW/ 612 hp at 1 800 rpm
- Maximum torque: 2 700 N.m at 1 300 rpm



# Mercedes PowerShift Transmissions

Mercedes PowerShift adapts the rotational speeds of the main shaft and gear wheel by means of the electronic engine or gearbox control. This dispenses with the need for servo-lock synchronisation. A propeller-shaft brake on the countershaft decelerates the rotating gearbox masses when upshifting. When downshifting, the engine speed is boosted to ensure synchronism of the corresponding gear wheel with the countershaft.

## Additional functions of Mercedes PowerShift

- Power mode: permits short-term use of the full engine power
- Eco-Roll mode: assists in achieving fuel-saving operation in overrun condition

- Manoeuvring mode: offers precisely controllable power selection up to 1 000 rpm using the accelerator pedal when manoeuvring
- Rock-free mode: simplifies driving off on difficult ground
- Extension of cruise control function I (speed range): offers an individually adjustable vehicle speed range from 2 to 15 km/h between propulsion and brake cut-in
- Extension of cruise control function II (separate vehicle speed memories): stores the settings for cruise control, proximity control and speed limiter separately, whereby the settings are preserved when switching between functions
- High-speed reverse gears: allow higher speeds when reversing
- Direct first-to-reverse shift: bypasses the intermediate step via neutral

## G280-16

The Mercedes PowerShift G280-16 gearbox is a fully-automated overdrive gearbox with 16 forward gears and 4 reverse gears. It consists of a 4-speed basic gearbox with front-mounted unit (splitter) and rear-mounted unit (range).

G280-16 Ratios
• 1 <sup>st</sup> gear = 11.72
• 2 <sup>nd</sup> gear = 9.75
• 3 <sup>rd</sup> gear = 7.92
• 4 <sup>th</sup> gear = 6.58
• 5 <sup>th</sup> gear = 5.29
• 6 <sup>th</sup> gear = 4.40
• 7 <sup>th</sup> gear = 3.64
• 8 <sup>th</sup> gear = 3.02
• 9 <sup>th</sup> gear = 2.66
• 10 <sup>th</sup> gear = 2.22
• 11 <sup>th</sup> gear = 1.80
• 12 <sup>th</sup> gear = 1.50
• 13 <sup>th</sup> gear = 1.20
• 14 <sup>th</sup> gear = 1.0
• 15 <sup>th</sup> gear = 0.83
• 16 <sup>th</sup> gear = 0.69
• 1 <sup>st</sup> reverse gear = 16.39
• 2 <sup>nd</sup> reverse gear = 12.74
• 3 <sup>rd</sup> reverse gear = 2.42
• 4 <sup>th</sup> reverse gear = 2.01
Weight including oil: approx. 309 kg

## G281-12 and G211-12

The Mercedes PowerShift G281-12 and G211-12 gearbox is a fully-automated direct-drive gearbox with 12 forward gears and 4 reverse gears. It consists of a 3-speed basic gearbox with front-mounted unit (splitter) and rear-mounted unit (range).

G281-12 Ratios	G211-12 Ratios
• 1 <sup>st</sup> gear = 14.93	• 1 <sup>st</sup> gear = 14.93
• 2 <sup>nd</sup> gear = 9.02	• 2 <sup>nd</sup> gear = 11.67
• 3 <sup>rd</sup> gear = 7.03	• 3 <sup>rd</sup> gear = 9.02
• 4 <sup>th</sup> gear = 5.45	• 4 <sup>th</sup> gear = 7.06
• 5 <sup>th</sup> gear = 4.40	• 5 <sup>th</sup> gear = 5.63
• 6 <sup>th</sup> gear = 3.41	• 6 <sup>th</sup> gear = 4.40
• 7 <sup>th</sup> gear = 2.65	• 7 <sup>th</sup> gear = 3.39
• 8 <sup>th</sup> gear = 2.05	• 8 <sup>th</sup> gear = 2.65
• 9 <sup>th</sup> gear = 1.60	• 9 <sup>th</sup> gear = 2.05
• 10 <sup>th</sup> gear = 1.24	• 10 <sup>th</sup> gear = 1.60
• 11 <sup>th</sup> gear = 1.00	• 11 <sup>th</sup> gear = 1.28
• 12 <sup>th</sup> gear = 1.00	• 12 <sup>th</sup> gear = 1.00
• 1 <sup>st</sup> reverse gear = 16.39	• 1 <sup>st</sup> reverse gear = 14.93
• 2 <sup>nd</sup> reverse gear = 12.77	• 2 <sup>nd</sup> reverse gear = 11.67
• 3 <sup>rd</sup> reverse gear = 3.72	• 3 <sup>rd</sup> reverse gear = 3.39
• 4 <sup>th</sup> reverse gear = 2.90	• 4 <sup>th</sup> reverse gear = 2.65
Weight including oil: approx. 302 kg	Weight including oil: approx. 250 kg

## G240-16 and G210-16

The G240-16 and G210-16 gearbox is an all-synchromesh overdrive gearbox with 16 forward gears and 2 reverse gears. It consists of a 4-speed basic gearbox with front-mounted unit (splitter) and rear-mounted unit (range). The gears can be shifted either with Telligent<sup>®</sup> manual gearshift as standard or the optional Telligent<sup>®</sup> automated gearshift.

G240-16 Ratios	G210-16 Ratios
• 1 <sup>st</sup> gear = 11.72	• 1 <sup>st</sup> gear = 14.19
• 2 <sup>nd</sup> gear = 9.747	• 2 <sup>nd</sup> gear = 11.72
• 3 <sup>rd</sup> gear = 7.918	• 3 <sup>rd</sup> gear = 9.580
• 4 <sup>th</sup> gear = 6.583	• 4 <sup>th</sup> gear = 7.916
• 5 <sup>th</sup> gear = 5.291	• 5 <sup>th</sup> gear = 6.496
• 6 <sup>th</sup> gear = 4.400	• 6 <sup>th</sup> gear = 5.368
• 7 <sup>th</sup> gear = 3.636	• 7 <sup>th</sup> gear = 4.400
• 8 <sup>th</sup> gear = 3.023	• 8 <sup>th</sup> gear = 3.636
• 9 <sup>th</sup> gear = 2.654	• 9 <sup>th</sup> gear = 3.224
• 10 <sup>th</sup> gear = 2.215	• 10 <sup>th</sup> gear = 2.664
• 11 <sup>th</sup> gear = 1.799	• 11 <sup>th</sup> gear = 2.177
• 12 <sup>th</sup> gear = 1.496	• 12 <sup>th</sup> gear = 1.799
• 13 <sup>th</sup> gear = 1.203	• 13 <sup>th</sup> gear = 1.476
• 14 <sup>th</sup> gear = 1.00	• 14 <sup>th</sup> gear = 1.219
• 15 <sup>th</sup> gear = 0.826	• 15 <sup>th</sup> gear = 1.000
• 16 <sup>th</sup> gear = 0.687	• 16 <sup>th</sup> gear = 0.826
• 1 <sup>st</sup> reverse gear = 10.656	• 1 <sup>st</sup> reverse gear = 12.897
• 2 <sup>nd</sup> reverse gear = 8.861	• 2 <sup>nd</sup> reverse gear = 10.656
Weight including oil: approx. 310 kg	Weight including oil: approx. 306 kg



# Chassis frame



## Frame concept

The high-strength and yet elastic frame design of the Actros takes into account the requirements of day-to-day operation.

## Important features

- Three frame side rail thicknesses of 7 mm, 8 mm or 9,5 mm, depending on the vehicle model
- Material: cold-worked, high-strength steel E 500 TM. Cross members and side rails are interconnected by means of riveted gusset plates
- Easy to install with the same frame profile throughout and straight upper edge with no projecting components
- Universal 50 mm hole spacing for easy mounting of attachments
- Good corrosion protection due to coating of all surfaces
- The frame taper is located 1 350 mm behind the centre of the first front axle
- Bolted and repair-friendly frame front section

## At a glance

The chassis equipment of the Actros offers time-proven and revised components which, overall, reflect a high level of compliance with practical and customer requirements:

- Exhaust systems with space-saving compact design
- Reliable steel and aluminium fuel tanks for long-distance, distribution and construction operation
- Safe trailer couplings
- Reliable and convenient weight reduced fifth wheels



ACTROS

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# Truck Tractor

## Model specifications:

Model	1844LS/33 DD	2641LS/33 DD	2646LS/33 DD	2654LS/33 DD
<b>General info</b>				
<b>Engine</b>				
No. of cylinders	V6	V6	V6	V8
Total displacement	11 946 cm <sup>3</sup>	11 946 cm <sup>3</sup>	11 946 cm <sup>3</sup>	15 928 cm <sup>3</sup>
Output	320 kW (435 hp) @ 1 800 r/min	300 kW (408 hp) @ 1 800 r/min	335 kW (450 hp) @ 1 800 r/min	395 kW (537 hp) @ 1 800 r/min
Torque	2 100 N.m @ 1 080 r/min	2 000 N.m @ 1 080 r/min	2 200 N.m @ 1 080 r/min	2 500 N.m @ 1 080 r/min
<b>Air cleaner</b>				
Type	Snorkel air intake with air filter under cab	Snorkel air intake with air filter under cab	Snorkel air intake with air filter under cab	Snorkel air intake with air filter under cab
<b>Clutch</b>				
Type	Single plate clutch, self-adjusting, diameter 430 mm	Single plate clutch, self-adjusting, diameter 430 mm	Single plate clutch, self-adjusting, diameter 430 mm	Single plate clutch, self-adjusting, diameter 430 mm
<b>Transmission</b>				
Type	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort
Ratios	1 <sup>st</sup> gear: 14,93 : 1 12 <sup>th</sup> gear: 1,00 : 1	1 <sup>st</sup> gear: 14,91 : 1 12 <sup>th</sup> gear: 1,00 : 1	1 <sup>st</sup> gear: 14,91 : 1 12 <sup>th</sup> gear: 1,00 : 1	1 <sup>st</sup> gear: 14,91 : 1 12 <sup>th</sup> gear: 1,00 : 1
PTO	Optional	NA 131 – 2C	NA 131 – 2C	NA 131 – 2C
<b>Front axle</b>				
Load capacity	7,5 ton	7,5 ton	7,5 ton	7,5 ton
<b>Rear axle</b>				
Load capacity	13,0 ton	2 x 10,0 ton	2 x 10,0 ton	2 x 10,0 ton
Axle ratio	2,846 : 1	3,077 : 1	3,077 : 1	3,077 : 1
<b>Steering</b>				
Type	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball
<b>Suspension</b>				
Front	Parabolic springs, soft	Parabolic springs	Parabolic springs	Parabolic springs
Rear	Air suspension, with axle load measuring device	Air suspension, with axle load measuring device	Air suspension, with axle load measuring device	Air suspension, with axle load measuring device
Shock absorbers	Front and rear	Front and rear	Front and rear	Front and rear
Stabilisers	Front and rear	Front and rear	Front and rear	Front and rear
<b>Brakes</b>				
Service	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round
Parking	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels
Auxiliary 1	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve
<b>Retarder</b>				
Model	Voith R115 HV retarder	Voith R115 HV retarder	Voith R115 HV retarder	Voith R115 HV retarder
Type	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
Braking torque	3 500 N.m	3 500 N.m	3 500 N.m	3 500 N.m
<b>Chassis</b>				
Type	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted
<b>Fuel tank</b>				
Capacity	1 x approx. 650 ℓ	1 x approx. 650 ℓ + 1 x approx. 280 ℓ	1 x approx. 650 ℓ + 1 x approx. 280 ℓ	1 x approx. 650 ℓ + 1 x approx. 280 ℓ
<b>Electrical systems/ Electronics</b>				
System voltage	24V	24V	24V	24V
Batteries - No. x capacity	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah
<b>Wheels</b>				
Tyres, front	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5
Tyres, rear	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5

	2658LS/33 (HYP)	2036S/36	3344S/33	3350S/33	3550S/33
	V8	V6	V6	V8	V8
	15 928 cm <sup>3</sup>	11 946 cm <sup>3</sup>	11 946 cm <sup>3</sup>	15 928 cm <sup>3</sup>	15 928 cm <sup>3</sup>
	425 kW (580 hp) @ 1 800 r/min	265 kW (360 hp) @ 1 800 r/min	320 kW (435 hp) @ 1 800 r/min	370 kW (503 hp) @ 1 800 r/min	370 kW (503 hp) @ 1 800 r/min
	2 700 N.m @ 1 080 r/min	1 850 N.m @ 1 080 r/min	2 100 N.m @ 1 080 r/min	2 400 N.m @ 1 080 r/min	2 400 N.m @ 1 080 r/min
	Snorkel air intake with round air filter behind cab	Snorkel air intake, paper element and cyclonic prefilter	Snorkel air intake, paper element and cyclonic prefilter	Snorkel air intake, paper element and cyclonic prefilter	Snorkel air intake, paper element and cyclonic prefilter
	Single plate clutch, self-adjusting, diameter 430 mm	Double plate clutch, reinforced, diameter 400 mm	Double plate clutch, reinforced, diameter 400 mm	Double plate clutch, reinforced, diameter 400 mm	Double plate clutch, reinforced, diameter 400 mm
	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort
	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,72 : 1 12 <sup>th</sup> gear: 0,69 : 1
	n/a	NA 131 – 2C	NA 131 – 2C	NA 131 – 2C	NA 131 – 2C
	8,0 ton	7,5 ton	7,5 ton	7,5 ton	9 ton
	2 x 10,0 ton	13,0 ton	2 x 13,0 ton	2 x 13,0 ton	2 x 13,0 ton
	3,581 : 1	4,143 : 1	4,143 : 1	4,143 : 1	4,833 : 1
	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball
	Parabolic springs	Parabolic springs	Parabolic springs	Parabolic springs	Parabolic springs
	Air suspension, with axle load measuring device	Parabolic springs	Parabolic springs	Parabolic springs	Parabolic springs
	Front and rear	Front and rear	Front and rear	Front and rear	Front and rear
	Front and rear	Front and rear	Front only	Front only	Front only
	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round
	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels
	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve
	Voith R115 HV retarder	Optional	Voith R115 HV retarder	Voith R115 HV retarder	Voith R115 HV retarder
	Hydrodynamic	-	Hydrodynamic	Hydrodynamic	Hydrodynamic
	3 500 N.m	-	3 500 N.m	3 500 N.m	3 500 N.m
	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted	Ladder frame (side and cross members), riveted
	1 x approx. 550 ℓ + 1 x approx. 280 ℓ	1 x approx. 400 ℓ	1 x approx. 550 + 280 ℓ	1 x approx. 550 + 280 ℓ	1 x approx. 550 ℓ + 1 x approx. 280 ℓ
	24V	24V	24V	24V	24V
	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah
	385/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5	385/65 R22.5
	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5

# Freight Carrier

## Model specifications:

Model	2654L/45 (HYP)	3332/45	3344/45	3350/45
<b>General info</b>				
<b>Engine</b>				
No. of cylinders	V8	V6	V6	V8
Total displacement	15 928 cm <sup>3</sup>	11 946 cm <sup>3</sup>	11 946 cm <sup>3</sup>	15 928 cm <sup>3</sup>
Output	395 kW (537 hp) @ 1 800 r/min	235 kW (320 hp) @ 1 800 r/min	320 kW (435 hp) @ 1 800 r/min	370 kW (503 hp) @ 1 800 r/min
Torque	2 500 N.m @ 1 080 r/min	1 650 N.m @ 1 080 r/min	2 100 N.m @ 1 080 r/min	2 400 N.m @ 1 080 r/min
<b>Air cleaner</b>				
Type	Snorkel air intake, with round air filter behind cab	Snorkel air intake, paper element and cyclonic prefilter	Snorkel air intake, paper element and cyclonic prefilter	Snorkel air intake, paper element and cyclonic prefilter
<b>Clutch</b>				
Type	Single plate clutch, self-adjusting, 430 mm diameter	Double plate clutch, reinforced, 400 mm diameter	Double plate clutch, reinforced, 400 mm diameter	Double plate clutch, reinforced, 400 mm diameter
<b>Transmission</b>				
Type	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort	PowerShift constant mesh automated manual gearbox with integrated engine, gearbox and clutch control for short shifting times and high shift comfort
Ratios	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1	1 <sup>st</sup> gear: 11,64 : 1 12 <sup>th</sup> gear: 0,78 : 1
PTO	NA 131-2c	NA 131-2c	NA 131-2c	NA 131-2c
<b>Front axle</b>				
Load capacity	7,5 ton	7,5 ton	7,5 ton	7,5 ton
<b>Rear axle</b>				
Load capacity	2 x 10,0 ton	2 x 13 ton	2 x 13,0 ton	2 x 13,0 ton
Axle ratio	3,583 : 1	4,333 : 1	4,333 : 1	4,333 : 1
<b>Steering</b>				
Type	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball	Power assisted, recirculating ball
<b>Suspension</b>				
Front	Parabolic springs	Parabolic springs	Parabolic springs	Parabolic springs
Rear	Air suspension with axle load measuring device	Air suspension with axle load measuring device	Parabolic springs	Parabolic springs
Rear parabolic springs		2 x 16,0 ton	2 x 16,0 ton	2 x 16,0 ton
Shock absorbers	Front and rear	Front and rear	Front and rear	Front and rear
Stabilisers	Front and rear	Front and rear	Front and rear	Front and rear
<b>Brakes</b>				
Service	Telligent® brake system, dual circuit compressed-air with air drier, disc brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round
Parking	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels
Auxiliary 1	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve
<b>Retarder</b>				
Model	Voith R115 HV retarder	Voith R115 HV retarder	Voith R115 HV retarder	Voith R115 HV retarder
Type	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
Braking torque	3 500 N.m	3 500 N.m	3 500 N.m	3 500 N.m
<b>Chassis</b>				
Type	Ladder frame (side and cross-members), riveted	Ladder frame (side and cross-members), riveted	Ladder frame (side and cross-members), riveted	Ladder frame (side and cross-members), riveted
<b>Fuel tank</b>				
Capacity	1 x approx. 400 ℓ	1 x approx. 400 ℓ	1 x approx. 400 ℓ	1 x approx. 400 ℓ
<b>Electrical systems/Electronics</b>				
System voltage	24V	24V	24V	24V
Batteries - No. x capacity	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah	2 x 12V/160 Ah
<b>Wheels</b>				
Tyres, front	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5
Tyres, rear	315/80 R22.5	315/80 R22.5	315/80 R22.5	315/80 R22.5

# Tipper and All-Wheel Drive

## Model specifications:

Model	3344A/45	4144K/51
<b>General info</b>		
<b>Engine</b>		
No. of cylinders	V6	V6
Total displacement	11 946 cm <sup>3</sup>	11 946 cm <sup>3</sup>
Output	320 KW (435 hp) @ 1 800 r/min	320 kW (435 hp) @ 1 800 r/min
Torque	2 100 N.m @ 1 080 r/min	2 100 N.m @ 1 080 r/min
<b>Air cleaner</b>		
Type	Tandem air filter behind cab with cyclonic pre-filter	Tandem air filter behind cab with cyclonic pre-filter
<b>Clutch</b>		
Type	Double plate clutch, reinforced, 400 mm diameter	Double plate clutch, reinforced, 400 mm diameter
<b>Transmission</b>		
Type	Full synchromesh with integrated splitter unit and rear-mounted planetary gearset	Full synchromesh with integrated splitter unit and rear-mounted planetary gearset
Ratios	1 <sup>st</sup> gear: 11,72 : 1 16 <sup>th</sup> gear: 0,69 : 1	1 <sup>st</sup> gear: 11,72 : 1 16 <sup>th</sup> gear: 0,69 : 1
PTO	NA 131-2c	NA 131-2c
<b>Front axle</b>		
Load capacity	9,0 ton	2x 7,5 ton
<b>Rear axle</b>		
Load capacity	2 x 13,0 ton	2 x 16,0 ton
Axle ratio	5,333 : 1	5,333 : 1
Differential lock	Yes	Yes
<b>Steering</b>		
Type	Power assisted, recirculating ball	Power assisted, recirculating ball
<b>Suspension</b>		
Front	Parabolic springs (asymetric)	Parabolic springs
Rear	Parabolic springs	Parabolic springs
Shock absorbers	Front and rear	Front and rear
Stabilisers	Front and rear	Front and rear
<b>Brakes</b>		
Service	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round	Telligent® brake system, dual circuit compressed-air with air drier, drum brakes all round
Parking	Spring-loaded brake cylinders on rear wheels	Spring-loaded brake cylinders on rear wheels
Auxiliary 1	Air actuated engine brake with decompression valve	Air actuated engine brake with decompression valve
<b>Retarder</b>		
Model	-	Optional
Type	-	-
Braking torque	-	-
<b>Chassis</b>		
Type	Full-length mono-frame	Ladder frame (side and cross-members), riveted
<b>Fuel tank</b>		
No. x capacity	1 x approx. 400 ℓ	1 x approx. 400 ℓ
<b>Electrical systems/Electronics</b>		
System voltage	24V	24V
Batteries - No. x capacity	2 x 12V/ 165 Ah	2x 12V/ 165 Ah
<b>Wheels</b>		
Tyres, front	14.00 R20 with advanced rims	315/80 R22.5
Tyres, rear	14.00 R20 with advanced rims	315/80 R22.5

Vehicle masses (kg)	1844LS/36 DD	2641LS/33 DD	2644LS/33 DD	2654LS/33 DD	2658LS/33 (HYP)	2036S/36	3344S/33	3350S/33	2654L/45 (HYP)	3344L/45	3350L/45	3332/45	4144K/51	3344A/45
*Front axle tare (with cab, tools and spare wheel)	4 885	4 793	4 879	5 085	5 485	4 770	4 980	5 187	4 865	4 685	4 926	4 800	6 730	5 510
*Rear axle tare (with cab, tools and spare wheel)	1 745	3 346	3 442	3 540	3 448	2 070	3 795	3 808	3 645	4 240	4 183	4 074	3 470	4 380
*Total tare (with cab, tools and spare wheel)	6 630	8 140	8 321	8 625	8 933	6 840	8 775	8 995	8 510	8 925	9 064	8 874	10 200	9 890
Manufacturer's front axle mass (GA, front)	7 500	7 500	7 500	7 500	8 000	7 500	7 500	7 500	7 500	7 500	7 500	7 500	15 000	9 000
Manufacturer's rear axle mass (GU)	11 500	20 000	20 000	20 000	20 000	13 000	26 000	26 000	20 000	26 000	26 000	26 000	26 000	18 000
Manufacturer's gross vehicle mass (GVM)	18 000	27 500	27 500	27 500	27 500	20 000	33 000	33 000	27 500	33 000	33 000	33 000	41 000	27 000
Manufacturer's gross combination mass (GCM)	44 000	65 000	65 000	65 000	65 000	44 000	75 000	75 000	65 000	65 000	65 000	65 000	65 000	65 000
Permissible front axle mass (A, front)	7 500	7 500	7 500	7 500	7 700	7 500	7 500	7 500	7 500	7 500	7 500	7 500	15 000	7 700
Permissible rear axle mass (AU)	9 000	18 000	18 000	18 000	18 000	9 000	18 000	18 000	18 000	18 000	18 000	18 000	18 000	16 000
Permissible maximum vehicle mass (V)	16 500	25 500	25 500	25 500	25 700	16 500	25 500	25 500	25 500	25 500	25 500	25 500	33 000	23 700
Permissible drawing vehicle mass (D/T)	44 000	65 000	65 000	65 000	65 000	44 000	75 000	75 000	65 000	65 000	65 000	65 400	65 000	65 000

\* Figures stated are estimates and exclude fuel and driver

Vehicle dimensions (mm)	1844LS/36 DD	2641LS/33 DD	2644LS/33 DD	2654LS/33 DD	2658LS/33 (HYP)	2036S/36	3344S/33	3350S/33	2654L/45 (HYP)	3344L/45	3350L/45	3332/45	4144K/51	3344A/45
A Overall length	5 815	6 865	6 865	6 865	6 865	6 015	6 825	6 825	6 825	9 190	9 190	9 455	9 055	9 455
B Overall width	2 500	2 500	2 500	2 500	2 500	2 490	2 490	2 490	2 489	2 489	2 489	2 500	2 506	2 522
C Vehicle height (unladen)	3 448	3 198	3 483	3 483	3 753	3 245	3 302	3 302	3 215	3 302	3 302	3 302	3 319	3 364
W/B Wheelbase	3 600	3 975	3 975	3 975	3 975	3 600	3 975	3 975	5 175	5 175	5 175	5 175	4 925	5 105
E 1 <sup>st</sup> to 2 <sup>nd</sup> rear axle	-	1 350	1 350	1 350	1 350	-	1 350	1 350	1 350	1 350	1 350	1 350	1 350	1 450
F Chassis length from rear of cab	3 500	4 550	4 550	4 550	4 476	3 915	4 500	4 500	7 095	7 095	7 095	7 095	6 399	6 876
CA Back of cab to centre of rear axle	2 730	3 105	3 105	3 105	3 035	2 945	3 105	3 105	4 520	4 520	4 520	4 520	4 824	4 301
G Trailer connection frame to centre	2 655	2 360	3 030	3 030	3 030	2 655	3 030	3 030	-	-	-	-	-	-
I Front overhang	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 440	1 510
J Rear overhang	770	770	770	770	770	970	720	770	1 900	1 900	1 900	1 900	900	1 850
K Track width, front	2 053	2 036	2 036	2 036	2 036	2 053	2 036	2 036	2 036	2 036	2 036	2 034	2 054	2 089
L Track width, rear	1 804	1 804	1 804	1 804	1 804	1 802	1 804	1 804	1 804	1 804	1 804	1 804	1 804	2 039
M1 Frame height, front	951	1 029	1 029	1 029	1 029	1 076	1 133	1 133	1 046	1 133	1 133	1 135	1 137	1 294
M1 Frame height, front (laden)	938	952	952	952	952	984	1 041	1 041	964	1 041	1 041	1 041	1 049	1 205
M2 Frame height, rear	967	1 025	1 025	1 025	1 025	1 144	1 134	1 134	1 043	1 130	1 130	1 130	1 154	1 315
M2 Frame height, rear (laden)	945	1 000	1 000	1 000	1 000	997	1 044	1 044	1 018	1 040	1 040	1 040	1 083	1 240
BBC Bumper to back of cab	2 310	2 310	2 310	2 310	2 310	2 095	2 310	2 310	2 095	2 095	2 095	2 095	2 389	2 314
S Chassis width at rear	758	760	760	760	760	758	760	760	760	763	763	763	763	763
Turning circle	15,2	16,0	16,0	16,0	16,0	14,9	16,0	16,0	19,8	19,8	19,8	19,8	21,5	23,5

# Model Overview

Model	1844LS/86 DD	2641LS/33 DD	2646LS/33 DD	2654LS/33 DD	3344S/33	3350S/33	3650S/33	2658LS/33 (HWP)	3332/45	3344/45	3350/45	4144K/51	3344A/45
<b>Cab</b>													
Standard day cab	°	°	°	°	°	°	°	°	°	°	°	°	°
Long cab (low roof)	°	°	°	°	°	°	°	°	°	°	°	°	°
Premium sleeper cab	°	°	°	°	°	°	°	°	°	°	°	°	°
Megaspace cab													
<b>Engine</b>	OM 501 LA	OM 501 LA	OM 501 LA	OM 502 LA	OM 501 LA	OM 502 LA	OM 502 LA	OM 502 LA	OM 501 LA	OM 501 LA	OM 502 LA	OM 501 LA	OM 501 LA
Number of cylinders	V6	V6	V6	V8	V6	V8	V8	V8	V6	V6	V8	V6	V6
Output kW/hp	320 kW (435 hp)	320 kW (435 hp)	335 kW (450 hp)	395 kW (537 hp)	320 kW (435 hp)	370 kW (503 hp)	370 kW (503 hp)	425 kW (580 hp)	235 kW (320 hp)	320 kW (435 hp)	370 kW (503 hp)	320 kW (435 hp)	320 kW (435 hp)
@ r/min	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800	1 800
Torque N.m	2 100	2 000	2 200	2 500	2 100	2 400	2 400	2 700	1 650	2 100	2 400	2 100	2 100
@ r/min	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080	1 080
Transmission	G281-12	G281-12	G281-12	G281-12	G330-12	G330-12	G330-12	G330-12	G330-12	G330-12	G330-12	G240-16	G240-16
PTO - transmission	°	°	°	°	°	°	°	°	°	°	°	°	°
<b>Rear axle</b>													
Ratio	2,946 : 1	3,077 : 1	3,077 : 1	3,077 : 1	4,143 : 1	4,143 : 1	4,833 : 1	3,583 : 1	4,333 : 1	4,333 : 1	4,333 : 1	5,333 : 1	5,333 : 1
<b>Brakes</b>													
Disc brakes all round	°	°	°	°	°	°	°	°	°	°	°	°	°
Drum brakes all round													
Retarder	°	°	°	°	°	°	°	°	°	°	°	°	°
<b>Suspension</b>													
Front parabolic spring (ton)	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	9,0	9,0	9,0	2 x 7,5	9,0
Rear parabolic spring (ton)					2 x 13,0	2 x 13,0	2 x 13,0	2 x 10,0	2 x 16,0	2 x 16,0	2 x 16,0	2 x 16,0	2 x 13,0
Rear air suspension (ton)	11,5	2 x 10,0	2 x 10,0	2 x 10,0									
<b>Fuel tank</b>													
Capacity approx. (l)	650	650 + 280	650 + 280	650 + 280	550 + 280	550 + 280	550 + 280	550 + 280	400	400	400	400	400
Wheelbase mm	3 600	3 300	3 300	3 300	3 300	3 300	3 300	3 300	4 500	4 500	4 500	5 100	4 500
Manufacturer's GVM (kg)	18 000	27 500	27 500	27 500	33 000	33 000	35 000	27 500	33 000	33 000	33 000	41 000	27 000
Manufacturer's GCM (kg)	44 000	65 000	65 000	65 000	75 000	75 000	128 000	65 000	65 000	65 000	65 000	65 000	65 000

° = Standard equipment, ° = Optional equipment  
Wheelbase measured from centre of front axle to centre of rear axle/unit

