

# MAN BUS/COACH CHASSIS.

Quality and efficiency combined –  
more flexible than ever.



# RELIABLY MAN: CUSTOMISED SOLUTIONS ON A STRONG FOUNDATION.

Even in turbulent times of sudden change, you can always rely on MAN. As a global leading commercial vehicle manufacturer, MAN brings together the highest level of expertise with maximum efficiency – a concept that has proven itself around the world. High-quality bus/coach chassis for all requirements and deployment purposes provide our customers with the optimal flexibility to assert themselves on the bus/coach market with their own ideas. Proven MAN quality ensures that all partners always have a solid foundation for their own success. In line with our guiding principle of “simplifying business”, our body-friendly chassis provide you with the maximum opportunities and meet every wish – innovative and powerful, dynamic and comfortable, economical and environmentally friendly. No matter what you are planning, with MAN bus/coach chassis, you will always have a smooth drive. If experience and expertise play a fundamental role in your choice of partner, place your trust in MAN.





# OUR COMPLETE RANGE.

No matter what you need, MAN has the solution. With their limitless versatility, the MAN bus/coach chassis can easily meet all requirements.

Suitable for every application, every destination, every country and every demand – there are no limits to your imagination when it comes to design. Whether you use the chassis as a powerful foundation for city and scheduled-service intercity buses or for coaches, you will be impressed by the comprehensive body compatibility and top MAN quality.

## INTERCITY

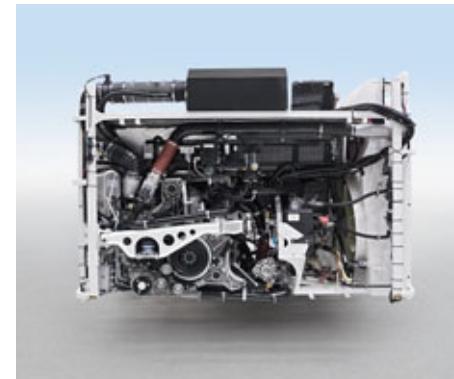
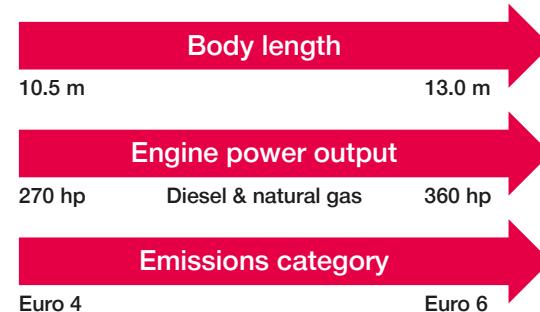


## COACH



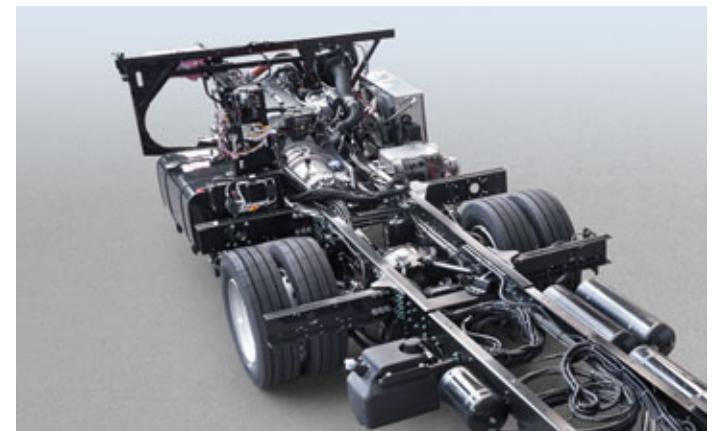
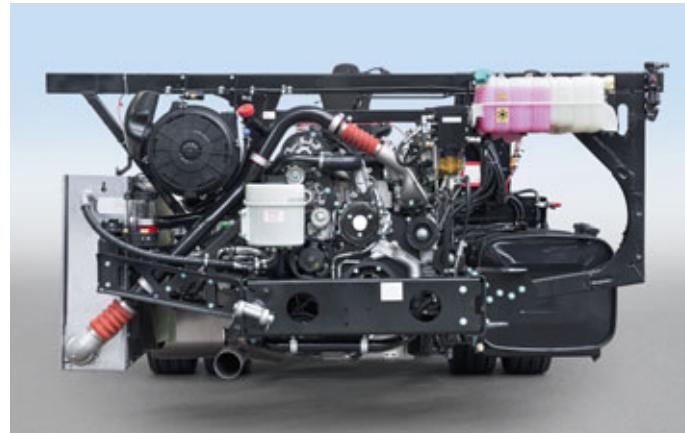
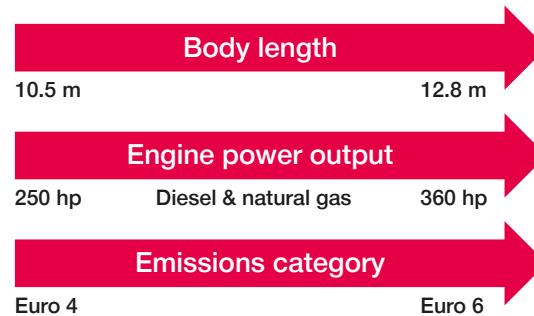
# LOW-FLOOR CHASSIS.

- Suitable for city bus bodies with continuous, stepless floor.
- Suitable for single and double-deckers



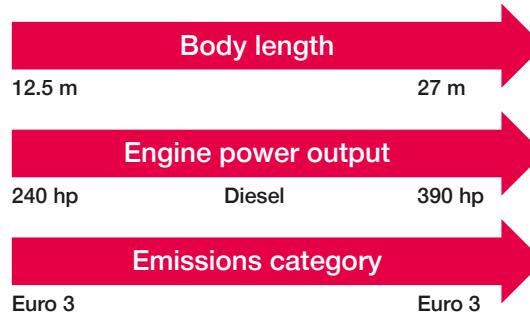
# LOW-ENTRY CHASSIS.

- Suitable for city and intercity bus body designs with stepless entrance
- Suitable for single-deckers



# FRONT-ENGINE HIGH-FLOOR CHASSIS.

- Versatile chassis for coach, intercity bus and high-floor city bus bodies
- Suitable for single-deckers



# HIGH-FLOOR CHASSIS INTERCITY BUS.

- Suitable for intercity bus and high-floor city bus bodies, as well as simple coach bodies
- Suitable for single-deckers
- Provide plenty of space for luggage compartment



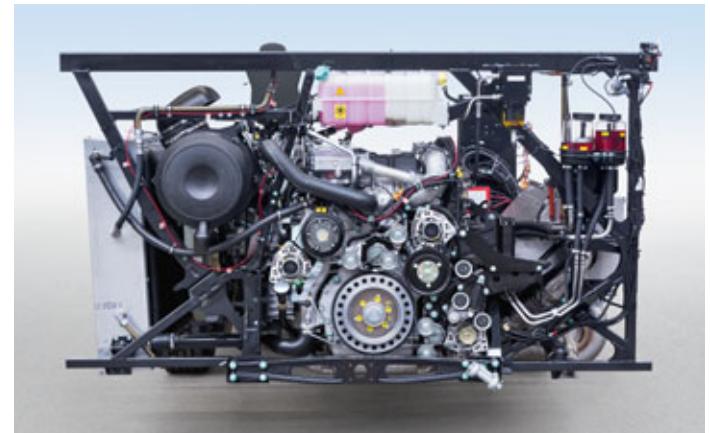
Body length		
10.35 m	13.2 m	
Engine power output		
250 hp	Diesel	360 hp
Emissions category		
Euro 3	Euro 6	
Body height		
Up to max. 3.6 m		



# HIGH-FLOOR CHASSIS COACH.

- Suitable for powerful coach and intercity bus bodies
- Suitable for single and double-deckers
- Provide plenty of space for luggage compartment

Body length		
10.35 m	14.6 m	
Engine power output		
350 hp	Diesel	510 hp
Emissions category		
Euro 3	Euro 6	
Body height		
Up to max. 4.2 m		



# RELIABLE IN EVERY SITUATION.

Its numerous and cutting-edge safety assistance systems ensure, that MAN bus chassis provide maximum safety on the road at all times.

## **Electronic brake system (EBS)**

Rapid intervention in the brake system and the anti-lock braking system significantly increase braking safety. Integrated ASR reduces spin on the drive wheels and also wear.

## **MAN BrakeMatic® with maximum speed control management and cruise control**

MAN BrakeMatic® management of the continuous brake means that this brake is automatically applied as soon as the driver touches the brake pedal. Maximum speed control and cruise control enable the vehicle to precisely maintain a pre-selected speed, thereby boosting safety on steep downward gradients in particular.

## **Emergency Brake Assist EBA**

The brake assistant function warns the driver of impending collisions and brakes automatically and comes to a complete stop where required, in emergency situations.

## **Lane Guard System (LGS)**

The Lane Guard System (LGS) uses a vibrator impulse in the seat to warn the driver as soon as the coach leaves the lane, in other words when the driver diverges from the lane markings.

## **Adaptive Cruise Control ACC / ACC Stop & Go**

Speed is controlled based on the distance from the vehicle in front and kept constant by means of subtle interventions from the retarder in the brake system. Safety on the road is also increased. In slow-moving traffic, the vehicle brakes until it comes to a standstill (up to 2 seconds) and then moves off again automatically. A real benefit in terms of convenience and safety.



# BOTH POWERFUL AND ENVIRONMENTALLY FRIENDLY.

Unmistakably MAN, the bus/coach chassis impress with a sophisticated, highly efficient driveline and fuel-efficient assistance systems.

## Greater engine performance, fewer emissions.

MAN has introduced a multitude of innovations in the bus driveline that enable a perfect balance between efficiency, power and cleanliness. For instance, we have subjected our high-torque, common rail engines to extensive optimisation processes.

With all engine variants from 240 hp up to 510 hp, MAN has a powerful and extremely clean engine portfolio available, which can be flexibly used in all areas of deployment in cities, in the countryside and on trips. Alongside the diesel engines, in the city bus chassis, MAN also offers particularly environmentally friendly and powerful natural gas engines.

## Driver assistance systems for increased fuel savings.

Optimised shift strategies, as well as newly developed gearbox software for automated manually operated gearboxes and fully automatic gearboxes, also have a positive effect on fuel consumption.

With the coach chassis in conjunction with the MAN Tipmatic, one highlight is the GPS-supported MAN EfficientCruise® cruise control together with EfficientRoll®: it intervenes pre-emptively in the gear selection and also activates the rolling function resulting in additional fuel saving.

## Extended service intervals.

MAN bus/coach chassis are on the road for longer.

We have increased the interval between oil changes\* up to 140 000 km or 18 months. At the same time, depending on the deployment profile, diesel particulate filters can have service lives of up to 850 000 km.



D0836  
Engine for city and intercity buses



D2066  
Engine for city and intercity buses

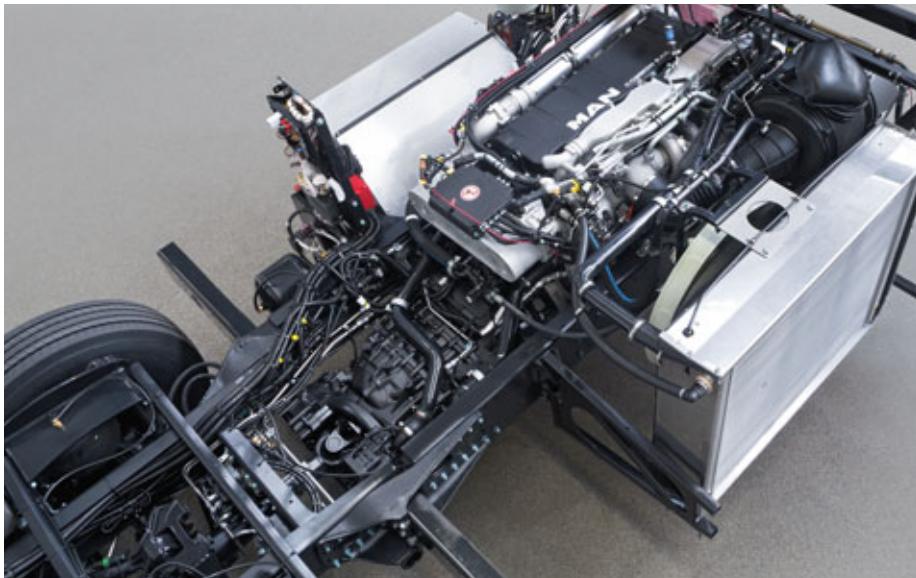


D2676  
Engine for coaches



E2876  
Natural gas engine for city and intercity buses

# COMFORT WITH CERTAINTY.



## Intelligent gearboxes.

MAN has two gearboxes for you to choose between. They increase driving comfort and also save fuel – perfect for driving through the city and travelling across the country:

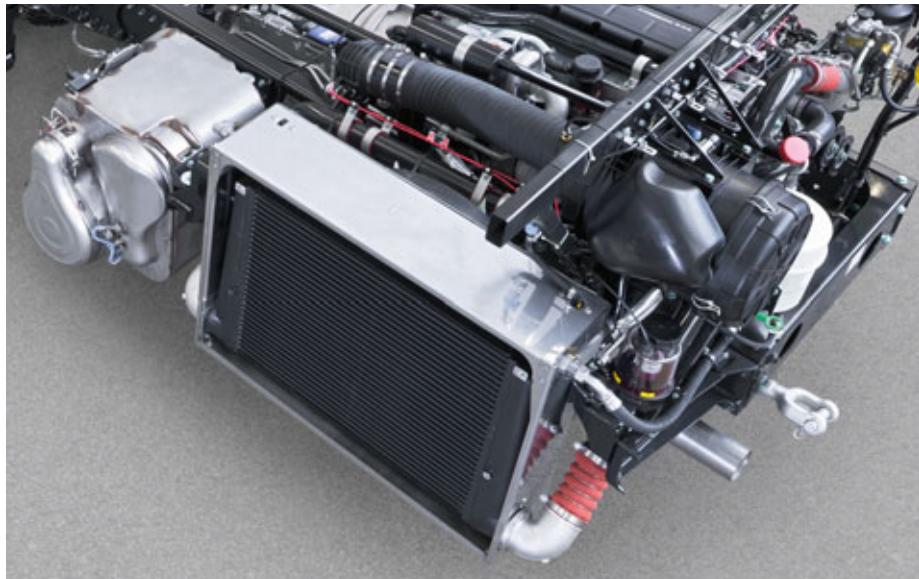
**The automatic gearbox** – for 250 hp up to 470 hp – impresses with improved gear-change quality and a new low-friction oil with optimised viscosity, resulting in gentle, quiet gearshifts. Fuel consumption is also reduced considerably thanks to improved retarder output.

**The new MAN TipMatic** – for 280 hp up to 510 hp – with a new axle ratio of  $i=2.73$ , ensures less internal noise and reduced fuel consumption in coach deployment. Fast, comfortable gearshifts are possible thanks to Smartshift. The excellent moving-off behaviour and the optimised manoeuvring feature also increase enjoyment when driving. An improved retarder brake output of maximum 500 kW ensures lower brake wear and, as with the automatic gearbox, considerably reduced fuel consumption.



## First-class driving comfort.

The modern MAN axles provide the highest level of driving comfort which the driver and passengers can feel immediately. Whether rigid axle or independent front suspension: both axle types impress during the first few metres and will please the driver when manoeuvring with small turning circles. Thanks to the excellent suspension, even during long journeys, back pain is a thing of the past – and the high level of maintenance friendliness ensures greater convenience.



#### **Cool ideas.**

The fold-out intercooler stands out with its high level of reliability and its cleverly conceived design; it not only allows good accessibility to all the important areas at all times, but is also particularly maintenance and user-friendly. The engine is always reliably cooled by the intercooler, which is easy to clean. This increases the service life of the engine significantly, meaning the engine and the technician can stay cool.



#### **Ergonomic design.**

MAN chassis always provide their drivers with a practical, ergonomic and appealing work place. All key information can be seen at a glance on the instrument panel, and the optimised switch layout improves user ergonomics. A continuously adjustable multi-function steering wheel also ensures a relaxed working environment. An ergonomic and sophisticated cockpit with coloured display.



MAN Truck & Bus

# MAN SERVICES. YOUR COACH IN THE BEST HANDS.

Maximum quality over the maximum vehicle service life and excellent availability – that's our promise to you. With a wide-ranging portfolio of services, we offer 360° support that is both efficient and reliable. You can rest assured at all times: your MAN coach is in the best hands with us.

MAN services offer everything your coach needs, meaning that your MAN coaches are always operated in the best possible conditions and that you can profit from your vehicles for even longer. With MAN ServiceContracts or MAN Mobile24: your mobility is our concern. That is true of our additional services too. MAN services, for instance, have tailored solutions on hand to optimise operating your vehicles, increase profitability and increase efficiency. Whatever service you choose, you're always on the right road with MAN.

## MAN | Financial Services

MAN Financial Services\* help you to stay financially mobile. Moreover, our coach rental service makes it possible to be more flexible in responding to shortages or increased demand.

### ■ **MAN Card**

Europe-wide non-cash payments

### ■ **Financing**

Acquisition of property through flexible financing solutions

### ■ **Insurance**

Insurance solutions for commercial vehicles

### ■ **Leasing**

Budget-friendly leasing models

### ■ **Rental**

## MAN | Service

Higher quality, more time: new – two-year warranty on MAN service and parts.

- **MAN Genuine Parts:** top quality, long service life and availability ensured
- **MAN Genuine Parts ecoline:** save a lot and protect the environment in the process with reconditioned MAN Genuine Parts from MAN, the manufacturer or external service providers
- **MAN Genuine Oil:** MAN Genuine Oils are proven to provide optimum protection against wear and thus contribute to reducing overall operating costs
- **MAN Mobile24:** Europe-wide breakdown service for coaches
- **MAN ServiceContracts:** service agreements covering service and inspection tasks on the maintenance schedule. Depending on the add-on option, different modules such as contract management, driveline guarantee and wear-and-tear repairs can be included.
- **MAN guarantee extensions:** guarantee extension for driveline and complete vehicle



## MAN | TopUsed

- **Top used vehicles:** large selection of high-quality used vehicles of all coach types
- **Service promise:** top quality, top advisory service, top selection, top financing, top service
- **Top services:** including used vehicle guarantee, financing

## MAN ProfiDrive®

The MAN ProfiDrive® driver training programmes and corporate coaching modules bring you up to speed, making day-to-day driving safe. The support and training programmes on offer give you additional opportunities to optimise your commercial environment.

\*The services offered as part of the joint business relationship "MAN Financial Services" (financing, leasing and insurance products) vary from country market to country market. They are provided or brokered by various subsidiaries of Volkswagen Financial Services AG.

**The quickest way to find out more: [www.bus.man.eu](http://www.bus.man.eu)**

All information on our products, services and other service topics such as MAN ServiceContracts, MAN Card, MAN ProfiDrive®, MAN Financial Services and MAN Mobile24, etc. can be found on our website [www.bus.man.eu](http://www.bus.man.eu) – discover the MAN brand interactive and up close.

# LOW-FLOOR CHASSIS



NL xx3 F (A22)



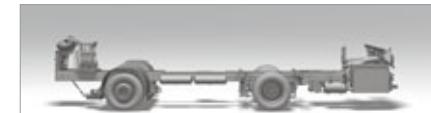
ND xx3 F (A95)

Dimensions	Body length Chassis wheelbase Overhang, front Overhang, rear Chassis width	10.50-12.00 m 5875 mm 2510 mm 3305 mm 2500-2550 mm	12-12.8 m (DD) 12-13.5 m (SD) 5220 mm, 6020 mm 2270 mm 2268 mm 2500-2550 mm
Gross vehicle weight (kg)	depends on tyres	18000 kg	24000 kg
Engine	D20 E3 E4 (PM-Kat) E5 (PM-Kat) EEV (CRTec) E6 (SCR)	199 kW/270 hp; 228 kW/310 hp 235 kW/320 hp 206 kW/280 hp; 235 kW/320 hp 206 kW/280 hp; 235 kW/320 hp	235 kW/320 hp; 265 kW/360 hp 235 kW/320 hp; 265 kW/360 hp
CNG E2876	EEV/E6	200/228KW (272/310 hp)	
Steering arrangement	LHD / RHD	LHD / RHD	RHD
Gearbox	Automatic	Voith / ZF	Voith / ZF
Axle	Front axle Rear axle/Centre axle Trailing axle	Rigid axle Portal axle	Rigid axle Portal axle Portal axle, actively steered (opt.)
Tyres	Front axle/Rear axle	275/70 R22.5	275/70 R22.5
Fuel tank	Diesel CNG	280l / opt.375l Typ 3: 1176l, 1460l, 1640l Typ 4: 1260l, 1690l	Transfer fuel tank 350l
Electrical	Generators	2x120 A / opt. 3x120 A	2x120 A / opt. 3x120 A

# LOW-ENTRY CHASSIS



18.xxx HOCL-NL (A69)



LE 19.xxx (RC2)

Dimensions	Body length Chassis transport wheelbase Overhang, front Overhang, rear Chassis width	10.5 – 12.8 m 3365 mm 2510 – 2560 mm 3365 mm 2491 mm	Body length Chassis transport wheelbase Overhang, front Overhang, rear Chassis width	10.5-13 m 4000 mm provisional 3150/3400 mm 2450 mm
Gross vehicle weight (kg)	depends on tyres	18200 kg	depends on tyres	19500 kg
Engine	<b>D08</b> E4 (PM-Kat) E5 (Oxi-Kat) EEV (CRTec) E6		<b>D08</b> E5 (Oxi-Kat) E6	
	<b>D20</b> E3 E4 (PM-Kat) E5 (PM-Kat) EEV (CRTec) E6 (SCR)		<b>D15</b> E6 (SCR)	184 kW/250 hp; 213 kW/290 hp 206 kW/280 hp; 243 kW/330 hp; 264 kW/360 hp
	<b>CNG E2876</b> EEV/E6	200kW / 272hp; 228KW/ 310 hp	<b>CNG E2876</b> EEV/E6	
Steering arrangement	LHD / RHD	LHD / RHD	LHD / RHD	LHD / RHD
Gearbox	Automat	Voith / ZF	Automatic	ZF Ecolife/Voith Diwa 5 Sensotop
Axle	Front axle Rear axle	Rigid axle Hypoid axle	Front axle Rear axle	Rigid axle Hypoid axle
Tyres	Front axle/Rear axle	275/70 R22.5; 295/80 R22.5	VA/HA	275/70 R22.5; 295/80 R22.5
Fuel tank	Diesel CNG	Typ 3: 1176l, 1640l / Typ 4: 1260l, 1690l	Diesel	2x 150l (D08/D20), 1x 300l (D08)
Electrical	Generators	2x 120 A	Generators	2x120 A/opt. 3x120 A (D20), 2x190A (D15)

# HIGH-FLOOR CHASSIS



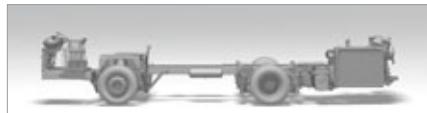
IC 19.xxx (RR8)



IC 19.xxx (RR9 CIB\*)

Dimensions	Body length Chassis transport wheelbase Overhang, front Overhang, rear Chassis width	10.5–13 m 4000 mm provisional 3150/3400 mm 2450 mm	10.5–13 m 4000 mm provisional 3150/3400 mm 2450 mm
Gross vehicle weight (kg)	depends on tyres	19500 kg	19500 kg
Engine	<b>D08</b> E3 E4 (PM-Kat) E5 (Oxi-Kat) E6 (SCR)	184 kW/250 hp; 213 kW/290 hp	
	<b>D15</b> E6 (SCR)	206 kW/280hp; 243 kW/330 hp; 264 kW/360 hp	
	<b>D20</b> E5 (PM-Kat) E6 (SCR)	235 kW/320 hp; 264 kW/360 hp	235 kW/320 hp
Steering arrangement	LHD / RHD	LHD / RHD	LHD / RHD
Gearbox		ZF 6S 1901 MAN Tipmatic® (D15) ZF Ecolife/Voith DIWA 5 Sensotop	ZF 6S 1901 ZF Ecolife/Voith DIWA 5 Sensotop
Axle	Front axle HA Trailing axle	Rigid axle, indep. front suspension optional Hypoid axle --	Rigid axle Hypoid axle --
Tyres	Front axle/Rear axle	295/80 R22.5; 315/80 R22.5 (only with indep. front suspension)	295/80 R22.5
Fuel tank	Diesel	480 l + opt. 200 l - Indep. front suspension 300 l/opt. 2x 220 l	300 l/opt. 2x 220 l
Electrical	Generators	2x 120 A/opt. 3x 120 A (D20)	2x 120 A/opt. 3x 120 A (D20)

\* CIB = CHASSIS IN THE BOX



CO 19.xxx (RR2/RR3 CIB\*)



CO 26.xxx (RR4/RR5 CIB\*)

Dimensions	Body length	10.5–13.2 m	12.8–14.6 m
	Chassis transport wheelbase	4000 mm	4500 (+ 1470) mm
	Overhang, front	provisional	provisional
	Overhang, rear	3400 mm	3100 mm
	Chassis width	2450 mm	2450 mm
Gross vehicle weight (kg)	depends on tyres	19700 kg	27050 kg (SD) / 27500 kg (DD)
Engine	<b>D08</b> E3 E4 (PM-Kat) E5 (Oxi-Kat) E6 (SCR)		
	<b>D20/D26</b> E3 E4 (SCR)	257kW/350 hp; 316 kW/430 hp	316 kW/430 hp
	EEV (SCR) E6 (SCR)	264 kW/360 hp; 294 kW/400 hp; 324 kW/440 hp; 353 kW/480 hp 264 kW/360 hp; 294 kW/400 hp; 309 kW/430 hp; 338 kW/470 hp 368 kW/510 hp	264 kW/360 hp; 324 kW/440 hp; 353 kW/480 hp 264 kW/360 hp; 309 kW/430 hp; 338 kW/460 hp; 368 kW/510 hp
Steering arrangement	LHD / RHD	LHD / RHD	LHD / RHD
Gearbox		ZF 6S1901 MAN TipMatic® ZF Ecolife	MAN TipMatic® ZF Ecolife
Axle	Front axle HA Trailing axle	Rigid axle, indep. front suspension optional Hypoid axle --	Indep. front suspension Hypoid axle Actively steered trailing axle
Tyres	Front axle/Rear axle	295/80 R22.5; 315/80 R22.5 (only with indep. front suspension)	295/80 R22.5; 315/80 R22.5
Fuel tank	Diesel	480 l + opt. 200 l - Indep. front suspension 2x 200 l - Rigid axle	480 l + opt. 200 l
Electrical	Generators	2x 120 A /opt. 3x 120 A	2x 120 A /opt. 3x 120 A

# FRONT-ENGINE HIGH-FLOOR CHASSIS



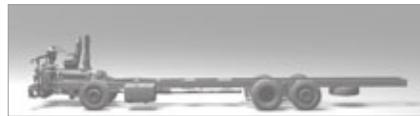
18.2xx BB FOCR (HB2)



18.3xx FOCR (HB3)

## Dimensions

Body length	12.5 m	12.5m/4x2 solo	27m (bi-articulated)
Chassis wheelbase	6050 mm	6050 mm (axle 1-2)/ 8375 mm (axle 2-3)/ 7550 mm (axle 3-4)	
Overhang, front	2184 mm	2184 mm	
Overhang, rear	3650 mm	3650 mm	
Chassis width	2475 mm	2475 mm	
<b>Gross vehicle weight (kg)</b>	depends on tyres	18200 kg	39500 kg
<b>Engine</b>	<b>D08</b>	<b>D08</b>	
E3			
E4			
E5			
E6			
<b>D20</b>		<b>D20</b>	
E3			
E4			
E5			
<b>Steering arrangement</b>	LHD / RHD	RHD	RHD
<b>Gearbox</b>		Voith Automat	ZF 12AS2130/2131
<b>Axle</b>	Front axle	Rigid axle / Leaf suspension	Rigid axle / Air suspension
HA		Planetary hub reduction axle / Leaf suspension	Hypoid axle / Air suspension
<b>Tyres</b>	Front axle/Rear axle	315/80 R22.5	315/80 R22.5
<b>Fuel tank</b>	Diesel	300l / opt. 400l	300l / opt. 400l
<b>Electrical</b>	Generators	1x80 A	1x120 A / opt. 2x110 A



26.3xx LL FOCNR (HB4)

Dimensions

Body length	13.9 m/22 m (Bus Train 4 axles)
Chassis wheelbase	6050 mm (axle 1-2) / 1350 mm (axle 2-3) / 8700 mm (axle 3-4) Bus Train
Overhang, front	2184 mm
Overhang, rear	3750 mm
Chassis width	2475 mm

Gross vehicle weight (kg)

depends on tyres	26000 kg / 35000 kg (Bus Train)
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Engine

<b>D08</b>	
E3	
E4	
E5	
E6	
<b>D20</b>	<b>D20</b>
E3	228 kW/310 hp; 257 kW/350 hp
E4	
E5	

Steering arrangement

LHD / RHD	RHD
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Gearbox

	ZF 12AS2130/2131
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Axle

Front axle	Rigid axle / Air suspension
HA	Hypoid axle / Air suspension

Tyres

Front axle/Rear axle	315/80 R22.5
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Fuel tank

Diesel	300l / opt. 400l
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Electrical

Generators	1x120 A / opt. 2x110 A
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