



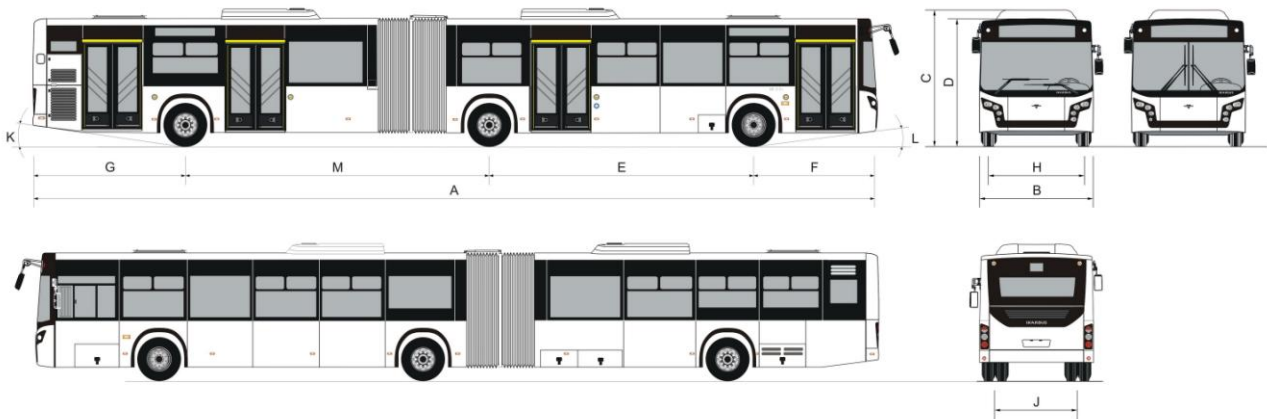
TECHNICAL SPECIFICATION

IK 218 M

**MAN D2066 LUH48 (EEV)
VOITH DIWA.5**

2016.

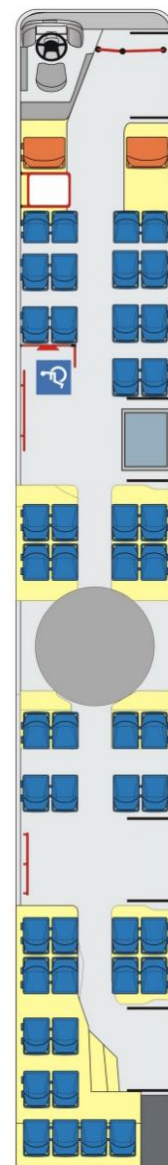
Technical specification - IK 218M (EEV)



A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	M [mm]	F [mm]	G [mm]	H [mm]	J [mm]	K [°]	L [°]
18750	2525	3040	2805	5875	6770	2735	3370	2096	1836	7	7

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 4 (2-2-2-2)
Seats: 46+2+1



DIMENSIONS

- (A) Length 18750 mm
- (B) Width 2525 mm
- (C) Height (including A/C) 3040 mm
- (D) Height 2805 mm
- (E/M) Wheelbase (I-II/II-III) 5875/6770 mm
- (F/G) Front/Rear overhang 2735/3370 mm
- (H/I) Front/Rear track 2096/1836 mm
- Interior height 2360 mm
- Floor height in door area 340 mm
- Minimum turning circle 23960 mm
- Approach/Departure angle 7°/7°

CHASSIS

- Low-floor chassis MAN A24

ENGINE

- Manufacturer MAN
- Type D2066 LUH48
- Emission standard EEV
- Mounting horizontal, rear
- Construction 4-stroke diesel engine
6 cylinders in line, with turbo and intercooler
- Displacement (Swept volume) 10518 cm³
- Bore x stroke 120 x 155 mm
- Compression ratio 20,5 : 1
- Rated power 265 kW (360 hp) / 1900 min⁻¹
- Maximum torque 1800 Nm / 1000 - 1400 min⁻¹
- Electronically controlled fuel injection system EDC 7
Common Rail

TRANSMISSION

- Gearbox automatic, VOITH DIWA.5 (D 864.5)
with integrated retarder
- Number of gears 4 + 1 (R)
- Ratios 1 : 4,90 - 0,70

REAR (DRIVE) AXLE

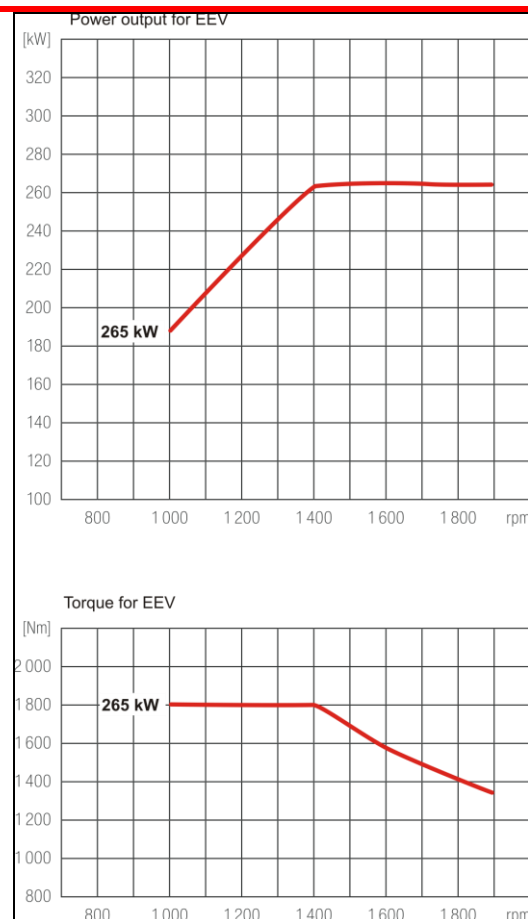
- Manufacturer MAN
- Type HONP-13100
- Ratio 6,20

FRONT AXLE

- Manufacturer MAN
- Type rigid, VOK-07-B

AXLE LOADS

- Front axle load (Max. technically permissible) 7245 kg
- Centre axle load (Max. technically permissible) 10000 kg
- Rear axle load (Max. technically permissible) 11500 kg
- Gross vehicle weight (GVW) 28000 kg



NEUTRAL (CENTRE) AXLE

- Manufacturer MAN
- Type HONP-1300

STEERING GEAR

- Hydraulic power-assisted steering
- ZF 8098 Servocom
- Adjustable steering column with pneumatic lock



SUSPENSION

- Electronically Controlled Air Suspension (ECAS)
- Front axle..... 2 roller bellows and 2 double-action shock absorbers
- Neutral (centre) axle..... 4 roller bellows and 4 double-action shock absorbers
- Rear axle..... 4 roller bellows and 4 double-action shock absorbers
- Kneeling, according to ECE R107 i 2001/85/EC

BRAKING SYSTEM

- Dual-circuit braking system, pneumatic
- Friction disc brakes (with floating brake calipers and ventilated discs) at all axles
- EBS (Electronic Braking System) incorporating:
 - ABS (Anti-lock Braking System)
 - ASR-TCS (Acceleration Skid Control – Traction Control System)
- Spring parking brake
- Bus stop brake: door-operated halt-brake on the rear axle in combination with ANS/NBS
- Auxiliary brakehydrodynamic retarder
 - integrated in automatic gearbox
 - hand and foot operated
- Air dryer single chamber with replaceable element and pressure regulator
- Oil separator
- Compressor 2-cylinder, 720 cm³

FUEL TANK

- Capacity 350 litara
- Made of stainless materials
- Filler capat right-hand side

WHEELS – TYRES

- Rims..... 7,5 x 22,5"
- Tyres 275/70 R22,5"



ELECTRICAL EQUIPMENT



- Dashboard..... in accordance with VDV Standard
 - steering wheel.....adjustable height and inclination
- Battery 2 x 225 Ah / 12 V
- Generator (Alternator)..... 3 x 120 A / 28,5 V
- Starter 5,5 kW
- Tachograph digital (DTCO)
- Safety switch..... in accordance with ECE R36
- Water cooling with level sensor, buzzer and optic signal
- Engine protection with buzzer and optic signal for too low oil pressure and too high temperature
- Headlights halogen
- Front fog lights halogen
- Rear fog lights LED
- Reversing lights LED
- Stop lights LED
- End-outline lamps (front and rear) LED
- Interior lighting..... LED
- Doors area lighting..... halogen /LED
- Cash register lighting
- Stop indicators..... push buttons on stanchions

PASSENGERS INFORMATION SYSTEM

Option:

- Information panels:
 - Front:route number + destination
 - Right side:route number + destination
 - Rear:route number
- Information panels – color:
 - Front:route number + destination
 - Right side:route number + destination
 - Rear:route number
- Information panels (interior)
- LCD monitor 19"
- Audio-system



HEATING – VENTILATION – AIR CONDITION

- Passenger compartment heating system:
 - convector type heaters
 - blower heaters
- Driver’s cab heating system:
 - heater mounted under driver’s control desk (front pult) which also serves for demisting/defrosting the windscreen
 - additional heater embedded in the cradle the driver's seat
- Liquid
- Autonomous heater, pre-start heating of engine
- Silicon rubber pipes
- Ventilation:
 - roof hatches
 - slide-windows
- Air-conditioner

Option:

- Air-conditioner with heating

INTERIOR

- Passenger seats single, plastic, vandal resistant
- Driver’s seat with air suspension and automatic weight adjustment
- Handrails powder painted steel pipes
- Roller blind for windscreen and driver’s window
- Folding ramp (wheelchair access ramp) at 2nd door, manually operated
- Heated exterior mirrors
- Interior mirrors

Option:

- Passenger seats single, plastic, vandal resistant city bus upholstered seats (easy upholstered seats)
- Folding ramp (wheelchair access ramp) at 2nd door, automatically (electrically) operated
- Central lubricating system
- Oil filling automatic system
- Automatic extinguisher system in engine compartment
- CCTV

BODY STRUCTURE

- All cavities are protected from inside and outside
- Side panels in wheel arches area and lower side cavity made of stainless steel
- Wheel arches stainless steel
- Side panels aluminium
- Roof and sidewalls with thermal insulation

Option:

- Cavities: ferrite – EN 1.4003

DOORS

- Door arrangement 2-2-2-2
- 4 leaf inward swing door (Slide-Glide)
- Power operated by driver (pneumatically with electronic control)
- Emergency door control valve inside/outside

GLAZING

- Windscreen (variant 1) laminated, 1-piece
- Windscreen (variant 2) laminated, 2-piece
- Side windows single glazed, bonded
- Door glasses bonded

