

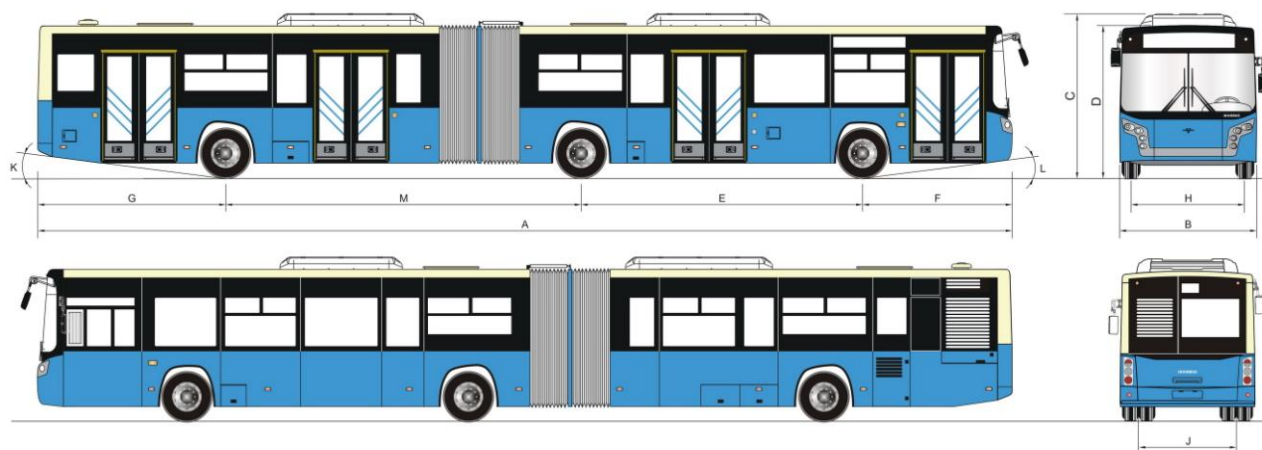


TECHNICAL SPECIFICATION

IK 218_N

**MAN D2066 LOH37 (EEV)
VOITH DIWA.5**

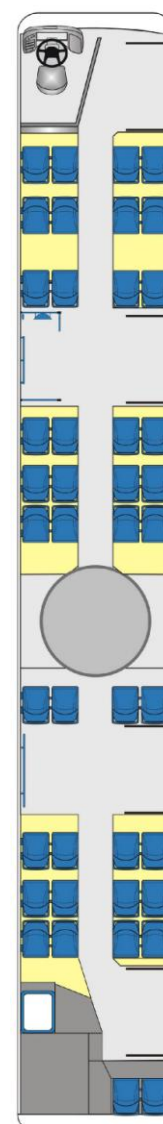
Technical specification – IK 218N (EEV)



A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	M [mm]	F [mm]	G [mm]	H [mm]	J [mm]	K [°]	L [°]
18081	2525	3050	2805	5230	6605	2729	3517	2096	1836	7	7

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 4
Seats: 42+1



DIMENSIONS

- (A) Overall length.....18081 mm
- (B) Overall width.....2525 mm
- (C) Overall height (with A-C).....3050 mm
- (D) Overall height.....2805 mm
- (E/M) Wheelbase (I/II).....5230/6605 mm
- (F/G) Overhang (front/rear).....2729/3517 mm
- (H/I) Track (front/rear).....2096/1836 mm
- Interior saloon height.....2395 mm
- Floor height at doors.....340 mm
- Turning circle.....23960 mm
- Approach / departure angle.....7°/7°

ENGINE

- Manufacturer.....MAN
- Type.....D2066 LOH37
- Emission level.....EEV
- Mounting.....vertical, rear
- Construction.....4-stroke diesel engine
6 cylinders in line, with turbo and intercooler
- Swept volume (displacement).....10518 cm³
- Bore x stroke.....155 x 120 mm
- Compression ratio.....17:1
- Max. power.....235 kW (320 hp) / 1900 min⁻¹
- Max. torque.....1600 Nm / 1000-1400 min⁻¹
- Electronically controlled fuel-injection EDC 7 Common Rail with integrated speed limiting device
- AdBlue

TRANSMISSION

- Gearbox.....automatic, VOITH DIWA.5 (D 864.5)
with integrated retarder
- Number of gears.....4+1(R)
- Ratios.....1 : 5,05 - 0,73

REAR (DRIVE) AXLE

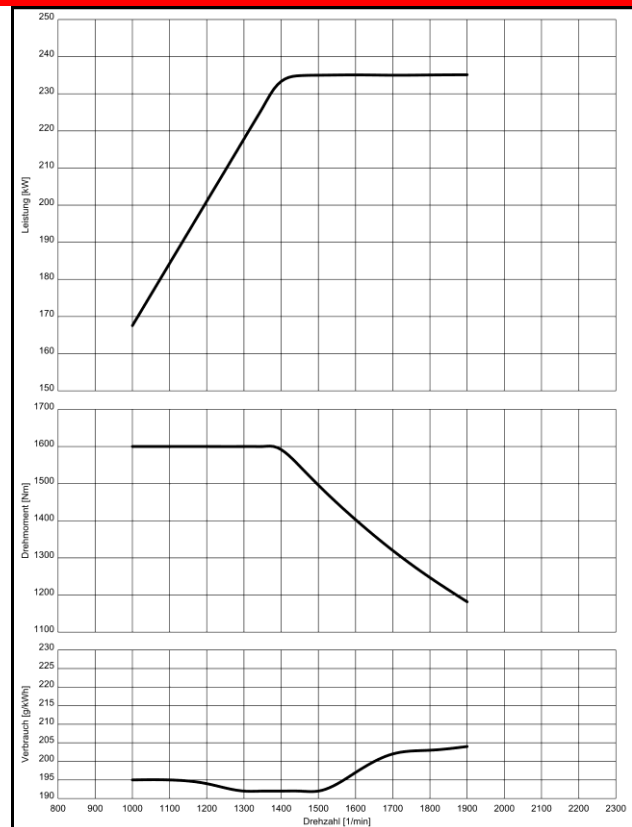
- Manufacturer.....ZF
- Type.....AV-132 II/87
- Ratio.....5,77
- Friction disc brake with floating brake caliper and ventilated disc

FRONT AXLE

- Manufacturer.....ZF
- Type.....rigid, RL-85A
- Friction disc brake with floating brake caliper and ventilated disc

WEIGHTS

- Max. front axle load (technically permissible).....8500 kg
- Max. neutral axle load (technically permissible).....11500 kg
- Max. rear axle load (technically permissible).....13000 kg
- Max. permissible gross vehicle weight (GVW).....28000 kg



NEUTRAL AXLE

- Manufacturer.....ZF
- Type.....AVN-132
- Friction disc brake with floating brake caliper and ventilated disc

STEERING GEAR

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



SUSPENSION

- Electronically controled air suspension (ECAS)
- Front axle..... 2 roller bellows
and 2 double-action shock absorbers
- Neutral axle..... 4 roller bellows
and 4 double-action shock absorbers
- Rear axle..... 4 roller bellows
and 4 double-action shock absorbers

BRAKING SYSTEM

- Dual-circuit braking system, pneumatic
- Friction disc brakes (with floating brake calipers and ventilated discs) at all axles
- Anti-lock Braking System with Skid Reduction (ABS/ASR)
 - ABS (Anti-lock Braking System), and
 - ASR – TCS (Acceleration Skid Reduction - Traction Control System)
- Spring parking brake
- Bus stop brake:
door-operated halt-brake on the rear axle in combination with ANS/NBS
- Auxiliary brake.....hydrodynamic 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
water cooled (with the engine cooling liquid)

FUEL TANK

- Capacity..... 350 liters
- Made of stainless materials
- Filler cap..... at right-hand side

WHEELS - TYRES

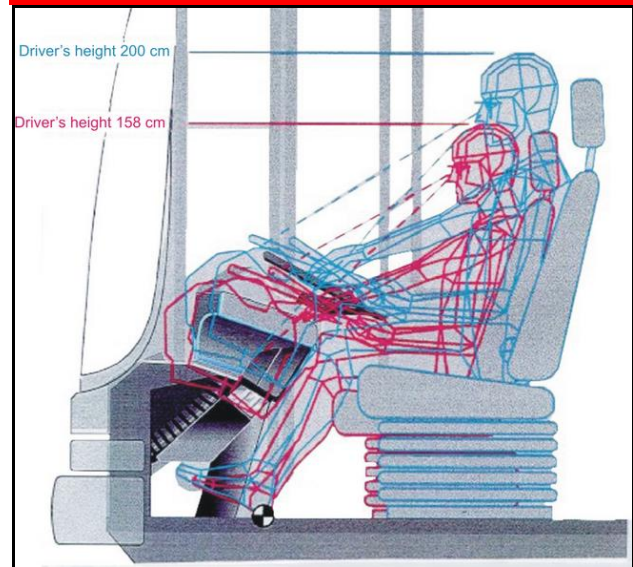
- Rims..... 7,5 x 22,5"
- Tyres..... 275/70 R22,5"

Option:

- Rims..... 8,25 x 22,5"



ELECTRICAL EQUIPMENT



- Multiplex Canbus system VDO Kibes
- Dashboard..... in accordance with VDV Standard
 - adjustable
 - with pneumatic lock
- Battery..... 2 x 180 Ah / 12 V
- Generator (Alternator)..... 3 x 120 A / 28 V
- Starter..... 5,5 kW / 24 V
- 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 handrails



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 seatwith air suspension and automatic weight adjustment
- Handrailspowder 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



STRUCTURE

- Steel frame tubular structure made of RHS and SHS beams
- Side panels in wheel arches area and lower side cavity made of stainless steel
- Wheel arches stainless steel
- Side panels..... aluminium
- All cavities are protected from inside and outside
- 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, 2 pieces
- Windscreen (variant 2) laminated, 1 piece
- Side windows tempered, bonded
- Door glasses bonded

