



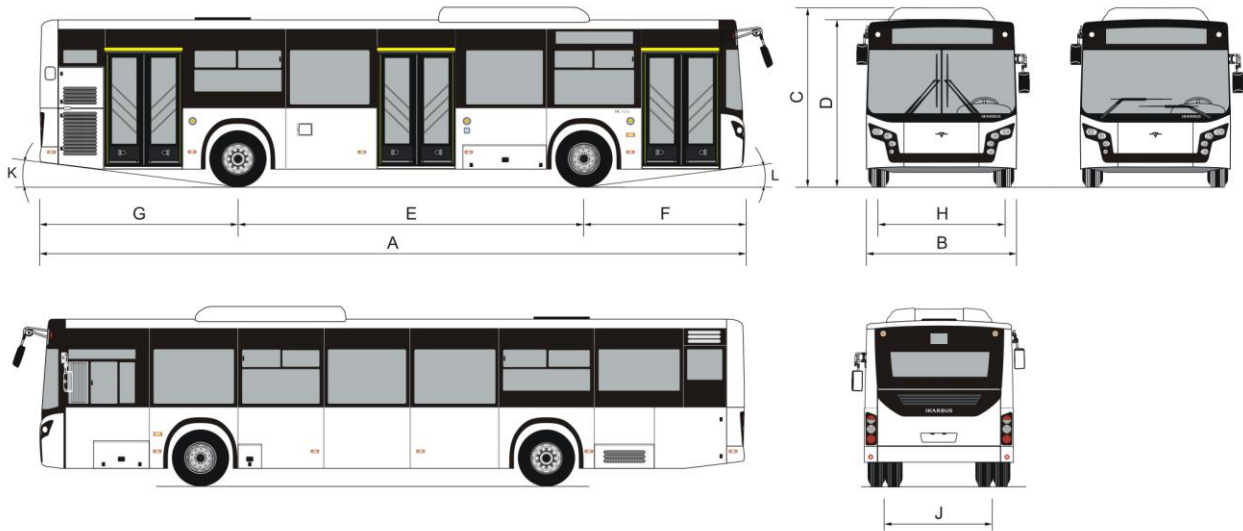
TECHNICAL SPECIFICATION

IK I I 2 M

MAN D2066 LUH32 (E5)

VOITH DIWA.6

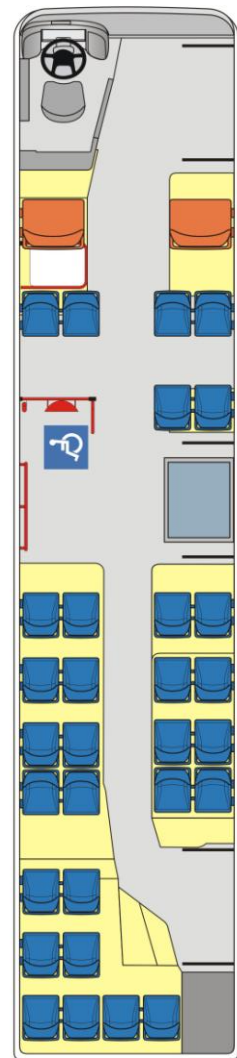
Technical specification - IK 112M (E5)



| A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | G [mm] | H [mm] | J [mm] | K [°] | L [°] |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 11960 | 2535 | 3047 | 2777 | 5875 | 2718 | 3367 | 2078 | 1834 | 7 | 7 |

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 3
Seats: 30+2+1



DIMENSIONS

- (A) Overall length..... 11960 mm
- (B) Overall width..... 2535 mm
- (C) Overall height (with A-C)..... 3047 mm
- (D) Overall height..... 2777 mm
- (E) Wheelbase..... 5875 mm
- (F/G) Overhang (front/rear)..... 2718/3367 mm
- (H/I) Track (front/rear)..... 2078/1834 mm
- Interior saloon height..... 2385 mm
- Floor height at 1st and 2nd door..... 340 mm
- Minimum turning circle..... 22180 mm
- Prilazni ugao (prednji/zadnji)..... 7°/7°

CHASSIS

- MAN A22

ENGINE

- Manufacturer..... MAN
- Type..... D2066 LUH32
- Emission standard..... EURO 5
- Mounting..... horizontal, rear
- Construction..... 4-taktni dizel motor
6 cylinders in line, with turbo and intercooler
- Swept volume (Displacement)..... 10518 cm³
- Bore x stroke..... 120 x 155 mm
- Compression ratio..... 17:1
- Rated power..... 235 kW (320 hp) / 1900 min⁻¹
- Maximum torque..... 1600 Nm / 1000-1400 min⁻¹
- Electronically controlled fuel-injection system
direct injection EDC7 C32 P362 V43

TRANSMISSION

- Gearbox..... automatic, VOITH DIWA.6 (D 864.6)
with integrated retarder
- Number of gears..... 4+1(R)
- Ratios..... 1:4.9-0.73

REAR AXLE

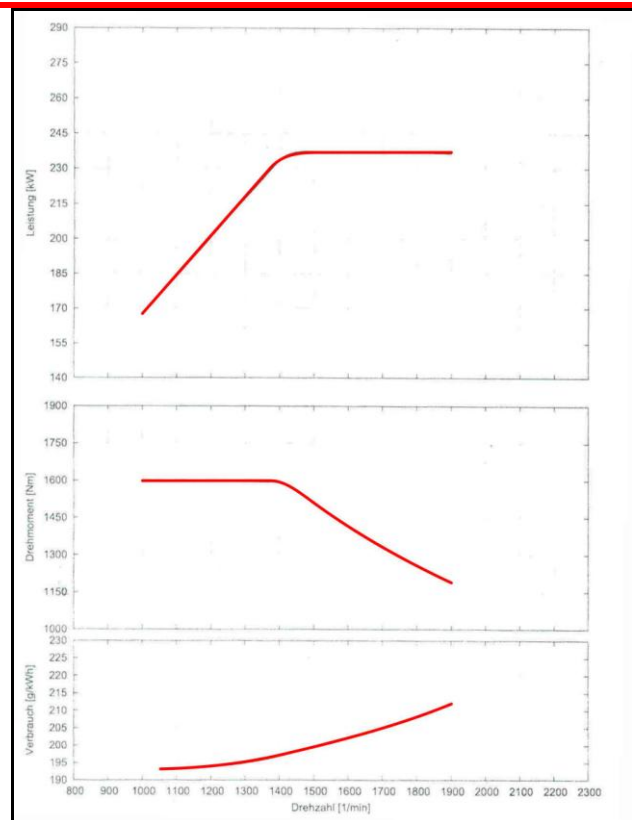
- Rear axle..... MAN HONP 13100
- Friction disc brake with floating brake caliper and ventilated disc
- Ratio..... 5.74

FRONT AXLE

- Front axle..... rigid, MAN VOK 07-B17
- Friction disc brake with floating brake caliper and ventilated disc

WEIGHTS

- Max. front axle load (technically permissible)..... 8500 kg
- Max. rear axle load (technically permissible)..... 13000 kg
- Gross vehicle weight (GVW)..... 18000 kg



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
- Rear (drive) 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 front and rear axle
- 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 280 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 according to VDV standard
- Battery 2 x 225 Ah / 12 V
- Generator (Alternator)..... 3 x 120 A / 28,5 V
- Starter 5 kW
- Tachograph digital (DTCO)
- Safety switch..... according to 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 lightsLED
- Reversing lightsLED
- Stop lightsLED
- 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

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 nerđajući čelik
- Side panels aluminium
- Roof and sidewalls with thermal insulation

Option:

- Cavities: ferrite – EN 1.4003

DOORS

- Door arrangement 2-2-2
- 3 leaf inward swing door (Slide-Glide)
- Emergency door control valve inside/outside

GLAZING

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

