



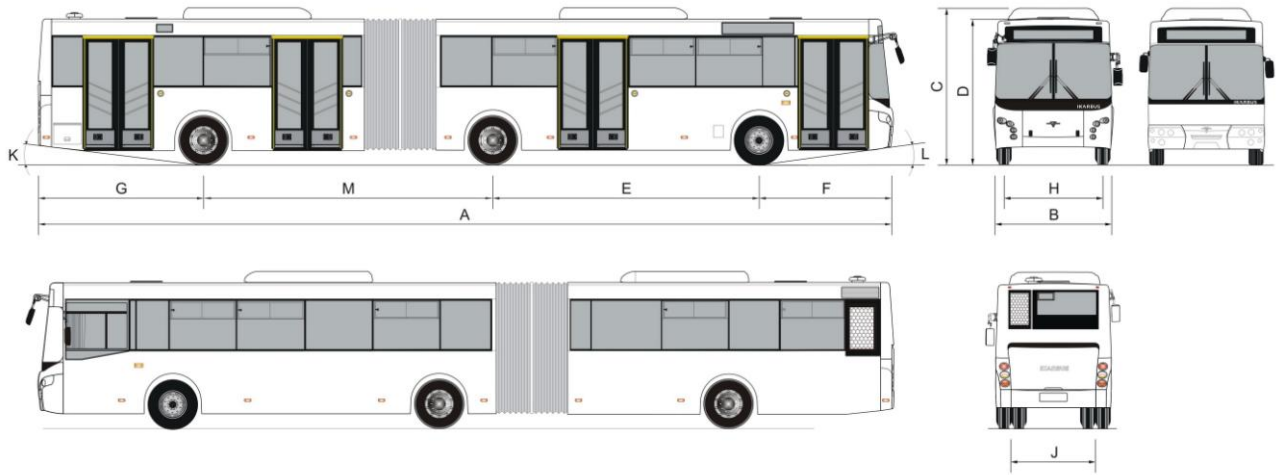
TECHNICAL SPECIFICATION

IK 206

**MAN D2066 LUH32 (E5)
VOITH DIWA.5**

2016.

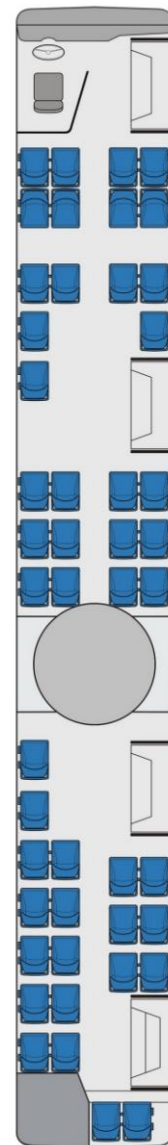
Technical specification - IK 206 (E5)



A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	M [mm]	F [mm]	G [mm]	H [mm]	J [mm]	K [°]	L [°]
17997	2500	3300	3056	5650	6045	2820	3482	2023	1835	7	7

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 4 (2-2-2-2)
Seats: 47+1



DIMENSIONS

- (A) Overall length..... 17997 mm
- (B) Overall width..... 2500 mm
- (C) Overall height (with A-C)..... 3300 mm
- (D) Overall height..... 3056 mm
- (E/M) Wheelbase (I/II)..... 5650/6045 mm
- (F/G) Overhang (front/rear)..... 2820/3482 mm
- (H/I) Track (front/rear)..... 2023/1835 mm
- Interior saloon height..... 2260 mm
- Floor height in 1st, 2nd and 3rd door area 750 mm
- First step height 360 mm
- Turning circle..... 23656 mm
- Approach / departure angle..... 7°/7°

ENGINE

- Manufacturer..... MAN
- Type..... D2066 LUH32
- Emission level..... EURO 5
- Mounting..... horizontal, rear
- Construction..... 4-stroke diesel engine
6 cylinders in line, with turbo and intercooler
- Swept volume (displacement)..... 10518 cm³
- Bore x stroke..... 120 x 155 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

TRANSMISSION

- Gearbox..... automatic, VOITH DIWA.5 (D 864.5)
with integrated retarder
- Number of gears..... 4+1(R)
- Ratios..... 1:4,9-0,73

REAR (DRIVE) AXLE

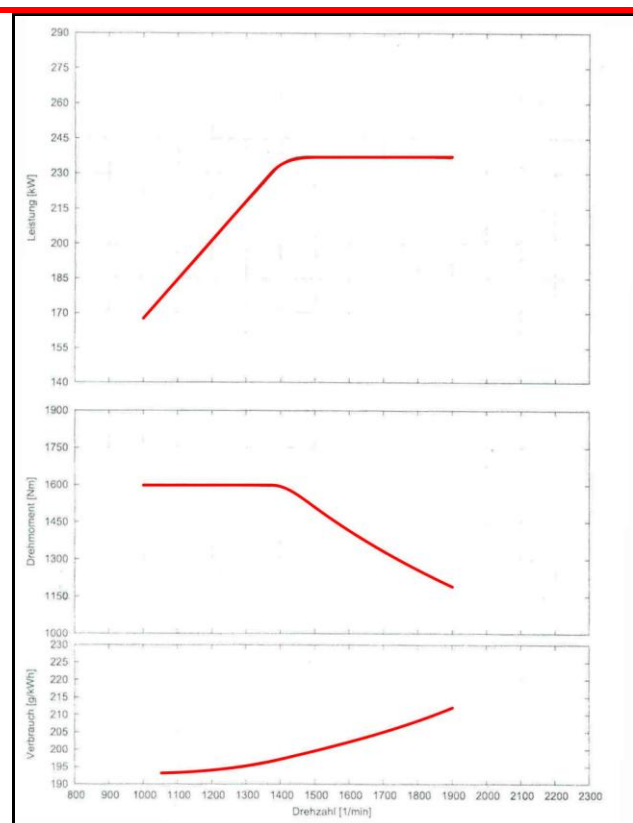
- Manufacturer..... RABA
- Type..... 718.05
- Ratio..... 6,194
- Friction drum brake

FRONT AXLE

- Manufacturer..... RABA
- Type..... rigid, 932.11
- Friction disc brake with floating brake caliper and ventilated disc

AXLE LOADS

- Max. front axle load (technically permissible)..... 7200 kg
- Max. neutral axle load (technically permissible)..... 13000 kg
- Max. rear axle load (technically permissible)..... 13000 kg
- Max. permissible gross vehicle weight (GVW)..... 28000 kg



NEUTRAL AXLE

- Manufacturer..... RABA
- Type..... A-Au-11997
- Friction drum brake

STEERING GEAR

- Hydraulic power-assisted steering
- PPT 8045
- Adjustable steering column



SUSPENSION

- 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
- Front axle: friction disc brake with floating brake caliper and ventilated disc
- Neutral axle: drum brake (S-Cam Brake)
- Rear axle: drum brake (S-Cam Brake)
- 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 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 (2x140) liters
- Made of stainless materials
- Filler cap at right-hand side

WHEELS – TYRES

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

ELECTRICAL EQUIPMENT



- Battery 2 x 180 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..... in accordance with ECE R37
- Position lights (front and rear) .in accordance with ECE R37
- Reversing lights in accordance with ECE R37
- Stop lights in accordance with ECE R37
- End outline marker lamps (front and rear).....in accordance with ECE R37
- Side marker lights.....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:
 - 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
- 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
- Heated exterior mirrors
- Interior mirrors

Option:

- Passenger seats single, plastic, vandal resistant city bus upholstered seats (easy upholstered seats)
- Central lubricating system
- Oil filling automatic system
- Automatic extinguisher system in engine compartment
- CCTV

BODY STRUCTURE

- Steel frame tubular structure square profiles
- 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
- Roof and sidewalls with thermal insulation

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 laminated, 2-piece
- Side windows tempered, bonded
- Door glasses bonded

