

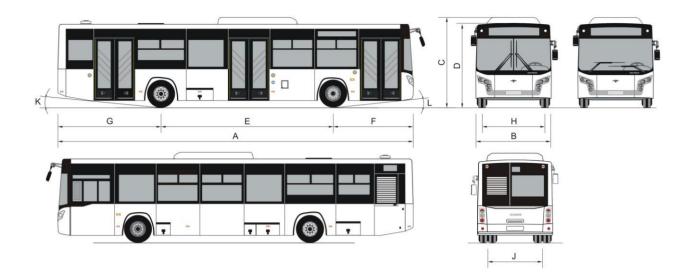
TECHNICAL SPECIFICATION

IKI12_N

MAN D0836 LOH70 (EEV) VOITH DIWA.5 / ZF EcoLife

Technical specification – IK 112N (EEV)

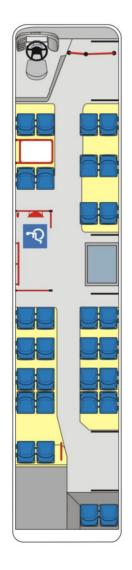




A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	J [mm]	K [°]	L [°]
12041	2525	3050	2805	5795	2729	3517	2096	1836	7	7

Shown seats arrangement is example.

Other arrangements are possible.



Doors: 3 **Seats:** 30+1



DIMENSIONS

WEIGHTS

• Max. front axle load (technically permissible)	8500 kg
• Max. rear axle load (technically permissible)	12000 kg
Gross vehicle weight (GVW)	18000 kg

• (A) Overall length	12041 mm
• (B) Overall width	2525 mm
• (C) Overall height (with A-C)	3050 mm
• (D) Overall height	2805 mm
• (E) Wheelbase	5795 mm
• (F/G) Front/Rear overhang	2729/3517 mm
• (H/J) Front/Rear track	2096/1836 mm
Interior saloon height	2395 mm
• Floor height at doors	340 mm
Minimum turning circle	21862 mm
Aproach/Departure angle	7°/7°

ENGINE

Manufacturer	MAN
• Type	D0836 LOH70
• Emission level	EEV
Mounting	vertical, rear
Construction	4-stroke diesel engine
6 cylinders in li	ne, with turbo and intercooler
• Swept volume (Displacement	t)6871 cm ³
• Bore x stroke	108 x 125 mm
Compression ratio	16,5:1
• Rated power	213 kW (290 hp) / 2300 min ⁻¹
Maximum torque	1100 Nm / 1200-1800 min ⁻¹

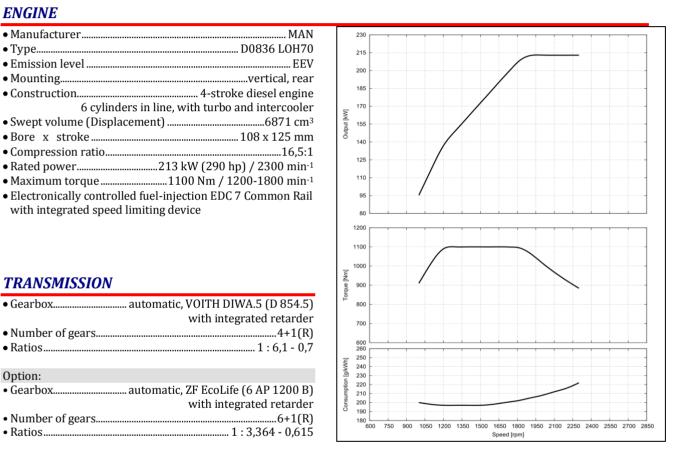


TRANSMISSION

with integrated speed limiting device

• Gearboxaut	comatic, VOITH DIWA.5 (D 854.5)
	with integrated retarder
Number of gears	4+1(R)
• Ratios	1 : 6,1 - 0,7
Ontion:	

Option:	
• Gearbox	automatic, ZF EcoLife (6 AP 1200 B)
	with integrated retarder
• Number of gears	6+1(R)
• Pation	1,2264 0616



REAR AXLE

Manufacturer	ZF
• Type	AV-132/87
Ratio	7,38
	•

• 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

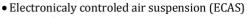
FRONT AXLE

Manufacturer	ZF
• Type	rigid, RL-85A

• Friction disc brake with floating brake caliper and ventilated disc



SUSPENSION



and 4 double-action shock absorbers

BRAKING SYSTEM

- Dual-circuit braking system, pneumatic
- Friction disc brakes (with floating brake calipers and ventilated discs) at front and rear axle
- 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 $\ensuremath{\mathsf{ANS/NBS}}$

- Auxiliary brakehydrodinamic retarder
 - integrated in automatic gearbox
 - hand and foot operated
- Air dryer.....single chamber with replaceable element and pressure regulator
- Oil seperator
- Compressor2-cylinder, 490 cm³

FUEL TANK

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

ELECTRICAL EQUIPMENT



- Multiplex Canbus system VDO Kibes
- Dasboard in accordance with VDV Standard adjustable
 - with pneumatic lock
- 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

WHEELS - TYRES

• Rims	7,5 x 22,5"
	275/70 R22,5"
y	-, - ,-
Option:	
• Rims	8,25 x 22,5"

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 seatssingle, 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 seatssingle, 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 archesstainless steel
- Side panelsaluminium
- All cavities are protected from inside and outside
- Roof and sidewalls with thermal insulation

Option:

• Cavities: ferrite - EN 1.4003)

DOORS

- Door arangement.....
- 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-piece • Side windowstempered, bonded

Door glasses.....bonded

