


**chassis 8x4  
HD84.48**


Tyres 325/95 R24 tubetype

**DIMENSIONS (MM)**

X	K	M max(*)	S	H	
				unloaded	loaded
50	8925	6600	1200	1140	1200
00	9175	6850	1200	1140	1200

(\*) M max.: indicative value to be confirmed by bodybuilder.

**WEIGHTS (KG)**

X	Distribution net weight(*)			Max technical weight			
	Front axles	Rear axles	Net Weight	Front axles	Rear axles	Gross Vehicle Weight	Gross Combination Weight
50	8440	4450	12890	22000	40000 (1)	62000 (1)	104000
3100	8510	4420	12930	(1)	42000 (2)	65000 (2)	

(\*) Net weight including driver with tanks filled to at least 90%, equipped with standard equipment according to the manufacturer's specifications and, if fitted, the mass of the bodywork, spare wheels and tool box.

 7KHDRMLGLFWHGBWZHLKWDHROHWLPLDWHGDKMHFWWRFKBJRUPRUHLRUPDLRSDHDFRQWVWUDHFKCFD  
'HSW

(1) With tyres 325/95R24, reinforced springs standard and max speed limited to 70 km/h.

(2) With tyres 325/95R24, reinforced springs standard and max speed limited to 40 Km/h. Overload condition. Limited usage according to Payload Management Guidelines.



## ENGINES

**FPT CURSOR 13** turbo intercooler diesel injection/cycle with electronic unit injection pumps. 6 in-line cylinders. Single block head, four valves per cylinder, light alloy pistons. Total displacement: 12.882 cm<sup>3</sup>. Bore for stroke: 135 x 150 mm. Water cooling. Dry air filter with safety cartridge. Vertical muffler. Emissions according to **Euro 5** regulation norms SCR (Selective Catalytic Reduction) system composed of catalytic muffler, AdBlue-tank, injection and control system. Variable Geometry Turbocharger (VGT).

Max.power(EEC) 353 KW (480 HP) @ 1900 rpm  
Max.torque(EEC) 2200 Nm (224 kgm) @ 1000 - 1440 rpm



## GEARBOX

Automated **ASTRONIC ZF 16AS263 ITO** with integrated hydraulic interarder, Ecosplit 4 technology gearbox with servoshift, 16 synchronised forward speeds + 2 reverse.



## CLUTCH

Single dry plate, diameter 17". Pull type engagement with diaphragm spring. Hydro-pneumatic power steering engagement control, with driven disk wear recovery slave cylinder.



## AXLES

**FRONT**  
Reinforced front steering axles, hot moulding in high tensile steel.  
Max allowed weight per axle 11 ton.

**REAR**  
Two driving reinforced axles in tandem with double reduction .  
Max allowed weight per axle: 20+20 ton. Interaxle and cross-axle differential lock. Tandem assembled to the chassis by reaction rods with silentblocks.  
Available rear-axle ratios 1:6,18; 1:6,21.



## SUSPENSIONS

**FRONT**  
Reinforced parabolic springs, n° 4 leaves 26x90 mm, hydraulic shock absorbers. Standard stabilizer bar on 1st and 2nd axle.

**REAR**  
Reinforced parabolic springs, swivelling on central pin: n° 5 leaves 40x100 mm, torque bars and stiffening brackets. Standard stabilizer bar on 3rd and 4th axle.



## CHASSIS

Special steel with high tensile strength limit, two flat and parallel side members (width 820 mm.), C section (320x90x10+6mm), cross members bolted to the frame. R.B.M. (Rail Bending Moment): 300.120 Nm. Steel front bumpers with headlamp protection grids, front maneuvering hook, rear underrun bar, rubber mud-guard 2nd axle, steel fuel tank capacity 300 litres.



## PAYLOAD MANAGEMENT GUIDELINES

To maximize Productivity and insure Durability, the vehicle can operate with higher GVW than target 62 ton, reducing the speed, according to the following table:

GVW	62 [ton] (max Payload)	62 – 65 [ton] (10% overload)	65 – 69 [ton] (20% overload)	higher than 69 [ton]
% di use	50 % (*)	40%	10%	NEVER
max speed [km/h]	70	40	15	0



## TYRES

**FRONT:** 325/95 R24 Single tubetype  
**REAR:** 325/95 R24 Twin tubetype  
Spare wheel on the chassis.

Other tyres available, subject to the Astra technical office approval.



## BRAKES

Front disc brakes and rear Z-cam "duo-duplex" self-adjusting wedge type brakes with automatic play take-up. ABS + EBL system.

**Service brake:** Pneumatic with pedal control, acting on all wheels. Solo vehicles: two independent circuits, one for 1st and 2nd axle: one for 3rd and 4th axle.

Towing vehicles: three independent circuits, one for 1st and 2nd axle, one for 3rd and 4th axle and another for the trailer.

**Emergency brake:** Integrated in service brake.

**Parking brake:** Manual spring-type with pneumatic control acting on 3rd and 4th axle wheels.

**ENGINE BRAKE:** decompression type with exhaust flap valve and variable geometry turbine effect.



## STEERING

ZF 8099 quadrilateral power steering on front axle wheels with variable ratio 1:22.2/1:26.2 with auxiliary cylinder. Circuit with main hydraulic pump on engine and emergency pump on gearbox. Steering rods with self-lubricating joints. Height and inclination pneumatic adjustable steering column.



## CAB

Standard white short cab built in galvanized pressed steel with hydraulic tilting up to 60°. Cab suspension with 4 helicoidal springs with coaxial shock absorbers and integrated dampers, anti-roll bar and end-of-stroke pads. Tinted electric door windows. Mechanical rear view mirrors, wide angle mirrors and front view mirror. Internal panels completely washable and fireproof. Compressed air quick coupling for cab cleaning. 4-speed ventilation and heating system with air recirculation system. Air suspended 3-way adjustable driver seat with seat belts. Mechanical passenger seat with seat belts.