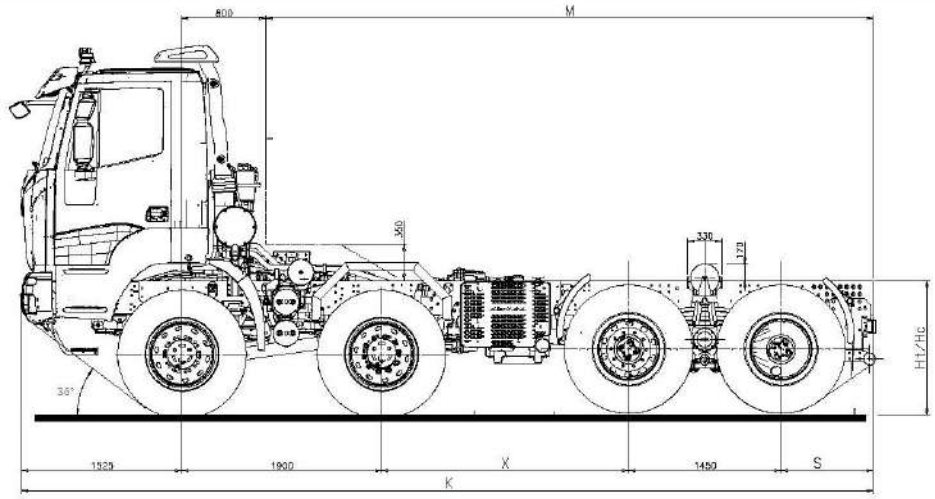
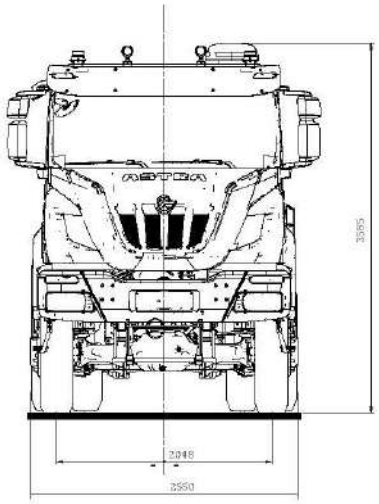
chassis-cab 8x6
HD86.48 11t





Std configuration with tyres 325/95R24 tubetype

DIMENSIONS (MM)

X	K	M max(*)	S	H	
				unloaded	loaded
2850	8925	6615	1200	1275	1205

Also available with wheelbase 3100mm

(*) 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
2850	9010	4635	13645	22000 (1)	40000 (1) 42000 (2)	62000 (1) 65000 (2)	104000

(*) Net weight is intended for vehicles in running conditions (driver, 100% of liquids, 90% of fuel) and in basic configuration without optionals and must always be verified during final testing.

(1) With tyres 325/95 R24, reinforced springs std and speed limited to 70km/h.
(2) With tyres 325/95 R24, reinforced springs std and max speed limited to 40Km/h. Overload condition. Limited usage, according to Payload Management Guidelines.

The data shown are indicative and non-binding. Payload and vehicle dimension data must always be verified during final testing.
Do not use the drawing in the present sheet to design the equipment.
Astra reserves the right to make any changes at any time and without notice.

ENGINES

FPT CURSOR 13 turbo intercooler electronic common rail with Hi-eSCR system. 6 in-line cylinders. Single block head, four valves per cylinder, light alloy pistons. Total displacement: 12.882 cm3. Bore for stroke: 135 x 150 mm. Water cooling. Dry air filter with safety cartridge. Variable Geometry Turbocharger (VGT).

Max.power(EEC)	368 KW (500 HP) @ 1900 rpm.	412 KW (560 HP) @ 1900rpm
Max.torque(EEC)	2300 Nm (235 kgm) @ 970 - 1525 rpm	2500 Nm (255 kgm) @ 900 - 1575 rpm

GEARBOX

Automated ZF AS-Tronic **16AS2630TO** with hydraulic Intarder, 16 gears forward + 2 reverse.
In alternative:
Fully automatic ALLISON **HD4700** transmission with integrated hydraulic retarder, 7 gears forward + 1 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.

TRANSFER BOX

Mechanical with two ratios. Helical spur gears, mounted on three propeller shafts, engaged with each other. Lockable differential by pneumatic control from driver seat. Air-oil cooler. Transmission ratio 1:0,913 - 1:1,407. Front/rear torque distribution ratio 1:2,6.

AXLES

FRONT
1st reinforced axle driving and steering, with double reduction.
2nd reinforced axle in high tensile pressed steel, steering, not driving. Max allowed weight per axle: 11 ton.
Cross-axle differential lock.

REAR
Two driving reinforced axles in tandem, with double reduction. Max allowed weight 20+20 ton. Interaxle and cross-axle differential lock. Tandem linked to the chassis by reaction rods with silentblocks.
Available rear-axle ratios: 1:6,18 -1:7,21.

SUSPENSIONS

FRONT
Reinforced parabolic springs, 4 leaves 26x90 mm, with hydraulic shock absorbers. Stabilizer bar on 1st and 2nd axle.

REAR
Reinforced parabolic springs, swivelling on central pin: 5 leaves 40x100 mm. 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.

The installation of other tyres is subject to approval by Astra technical office.

BRAKES

Front disc brakes and rear Z-cam "duo duplex" wedge type with automatic slack adjuster. ABS + EBL.
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. Anti-lock braking system.
Towing vehicles, three independent circuits, one for 1st and 2nd axle, one for 3rd and 4th axle and another for the trailer. Anti-lock braking system.
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.

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 (AD) 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. Internal panels completely washable and fireproof. Rapid pneumatic connection 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.

PROVISION OF CE CERTIFICATION

The vehicle can be certified according to CE regulation only if predisposed with the following equipment:

- 24 m^3 special tipping body marked CE (other capacities to be defind
- ROPS FOPS cabin protection marked CE
- Rear camera and cabin monitor
- Rear crossbar and 250t towing hook
- 600mm step to enter the cabin and additional handle
- Specific driver's seat
- Emergency hammer inside the cabin
- CE specific decals

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Astra reserves the right to make any changes at any time and without notice.
Technical data and general specifications - validity to be checked according to each individual configuration.