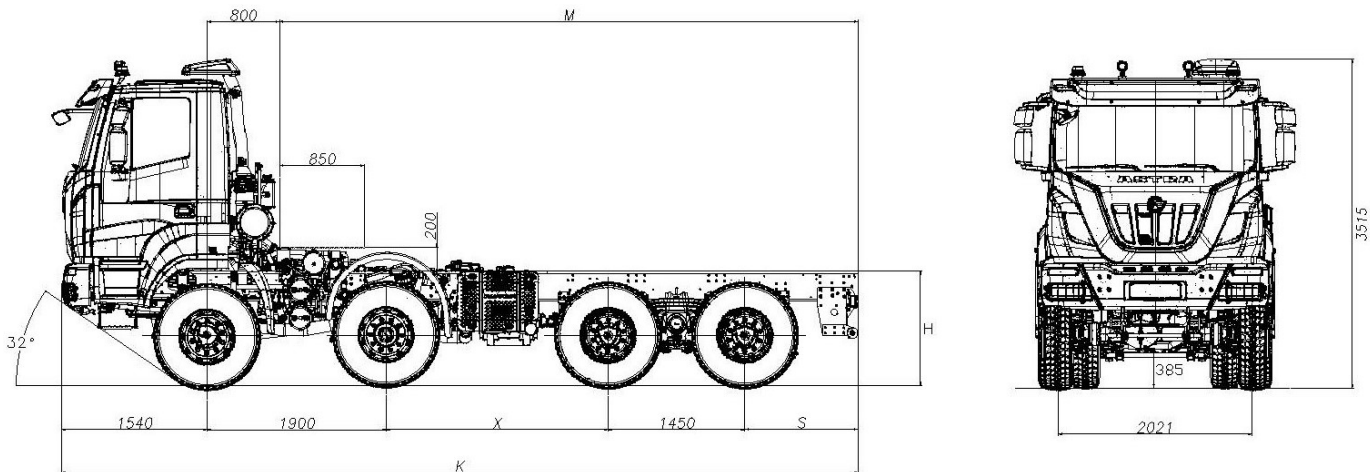



**chassis 8X6
HD86.50**

DIMENSIONS (MM)

X	K	M max(*)	S	H		TURNING DIAMETER (wall to wall)
				unloaded	loaded	
2350	8425	6115	1200	1275	1205	19800
2600	8675	6365	1200	1275	1205	20600
2850	8925	6615	1200	1275	1205	21400
3100	9175	6865	1200	1275	1205	22200

(*) M max.: indicative value to be confirmed by bodybuilder
(Tyres 13R22.5)

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
2350	7665	4535	12200	16000 (1) 18000 (2)	32000 (2) 40000 (3) 42000 (4)	50000 (2) 58000 (3) 60000 (4)	121500
2600	7745	4490	12235				
2850	7815	4450	12265				
3100	7875	4410	12285				

(*) 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.

- (1) With tyres on front axles 385/65R22.5 or 325/95R24 and reinforced springs (OPT).
- (2) With tyres 325/95R24 or max speed limited to 70Km/h depending on tyre type and brand.
- (3) With rear narrow Kessler axles (OPT 400), front Kessler axle, wheelbase 2850/ 3100, tyres 325/95R24 and max speed limited to 70 km/h.
- (4) With rear narrow Kessler axles (OPT 400), front Kessler axle, wheelbase 2850/ 3100, tyres 325/95R24 and max speed limited to 40 km/h.



ENGINES

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.

Max.power(EEC)	368 KW (500 HP) @ 1900 rpm
Max.torque(EEC)	2300 Nm (235 kgm) @ 970 - 1525 rpm
Turbine	VGT(Variable Geometry Turbocharger)



GEARBOX

ZF 16S2525TO manual gearbox, Ecosplit 4 technology with servoshift, 16 synchronised forward speeds + 2 reverse.

On request:

Automated ZF AS-Tronic **16AS2630TO**.

		Speed [kph] calculated at maximum power rpm																	
		Gears / Gear ratios																	
Gearbox model	Rear axle ratio	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	rev. 1st	rev. 2nd
16AS 2630 TO		14.12	11.68	9.54	7.89	6.52	5.39	4.57	3.78	3.09	2.56	2.09	1.73	1.43	1.18	1	.83	13.07	10.81
Off road slow	5.01	3.43	4.15	5.08	6.15	7.44	9.00	10.61	12.83	15.69	18.94	23.20	28.03	33.91	41.10	48.50	58.43	3.71	4.49
On road fast	5.01	5.50	6.64	8.13	9.83	11.90	14.40	16.98	20.53	25.11	30.31	37.13	44.85	54.26	65.76	77.59	93.49*	5.94	7.18
16S 2520 TO		13.8	11.54	9.49	7.93	6.53	5.46	4.57	3.82	3.02	2.53	2.08	1.74	1.43	1.2	1	.84	12.92	10.8
Off road slow	5.01	3.51	4.20	5.11	6.12	7.43	8.88	10.61	12.70	16.06	19.17	23.32	27.87	33.91	40.41	48.50	57.73	3.75	4.49
On road fast	5.01	5.62	6.72	8.18	9.78	11.88	14.21	16.98	20.31	25.69	30.67	37.30	44.59	54.26	64.66	77.59	92.37*	6.01	7.18

(*) Max limited speed 90 km/h. Other speeds available, subject to the Astra technical office approval.



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 1:1 - 1:1,16. Front/rear torque distribution ratio 1:2,2.



AXLES

FRONT

1st axle driving and steering, with double reduction: central by bevel gear, final by planetary gear in wheel hubs. 2nd axle in high tensile pressed steel, steering, not driving.

On request: Cross-axle differential lock.

Reinforced front axle: max technical weight 8 ton or 9 ton (with reinforced suspension). Available axle ratio: 5,01 - 5,47 - 5,96 - 6,28.

REAR

Two driving axles in tandem, with double reduction: central with bevel gear, final by planetary gear in wheel hubs, interaxle and cross-axle differential lock. Tandem linked to the chassis by reaction rods with silentblocks.

On request: Rear narrow reinforced axles (20+20 ton), including chassis reinforcement 10+6 mm (RBM 300.120 Nm).

Available rear-axle ratios: 1:4,229 - 1:5,009 - 1:5,558 - 1:6,095 - 1:6,588.



SUSPENSIONS

FRONT

Parabolic springs, 3 leaves 26x90 mm, with hydraulic shock absorbers. Stabilizer bar on 1st axle.

On request: Stabilizer bar on 2nd axle. Reinforced parabolic springs, 4 leaves 26x90 mm.

REAR

Parabolic springs, swivelling on central pin: 4 leaves 40x100 mm. Stabilizer bar on 4th axle.

On request: Stabilizer bar on 3rd axle. Extra-reinforced conventional springs, 10 leaves 25x100 mm.



CHASSIS

Special steel with high tensile strength limit, two flat and parallel side members (width 820 mm.), C section (320x90x10mm), cross members bolted to the frame. R.B.M. (Rail Bending Moment): 202.020 Nm (20.593 Kgm.). Steel front bumpers with headlamp protection grids, front maneuvering hook, rear underrun bar, rubber mud-guard 2nd axle, steel fuel tank capacity 300 litres.



TYRES

FRONT: 13R22.5 156/150 G Single tubeless

REAR: 13R22,5 156/150 G Twin tubeless

Spare wheel on the chassis.

Other possible combinations:

315/80 R22.5 - 385/65 R22.5 + 315/80 R22.5

315/95 R24 (Mandatory with opt 400)

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



BRAKES

Front and rear drum brakes, Duo-Duplex with automatic slack adjuster. ABS + EBL.

Service brake: Pedal controlled air brake, 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 mechanical with pneumatic control acting on 3rd and 4th axle wheels.

IVECO SUPER ENGINE BRAKE: braking power 463 kW (621 HP).



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.



ELECTRICAL SYSTEM

Voltage: 24 V

Alternator generator 90 A - 28 V (2520 W).

Accumulators: 2 in series, 180 Ah.

Starter motor 24 V 5,5 kW.

Mechanically controlled electrical circuit breaker.



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.