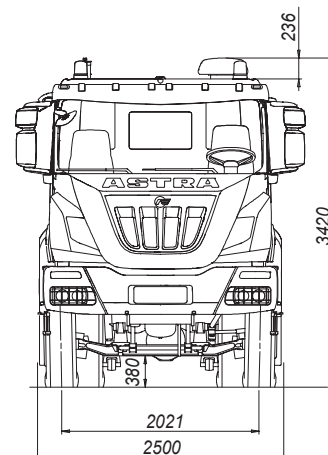
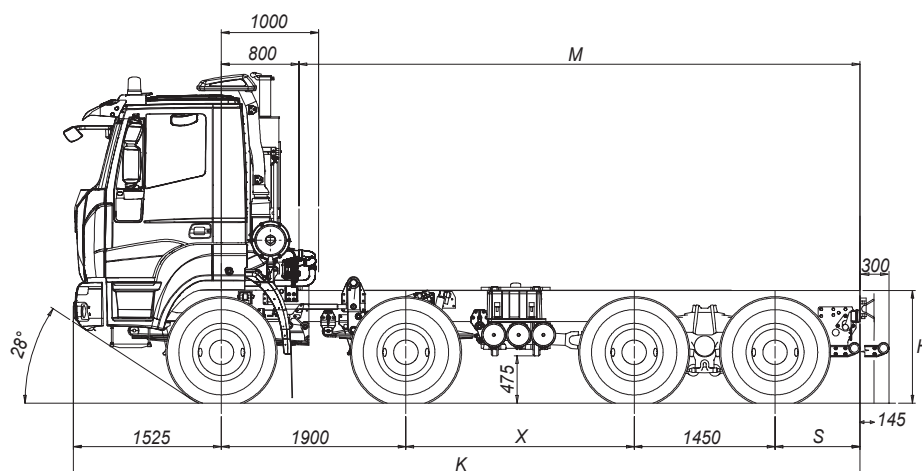




chassis-cab 8x8 88.44 / 88.48 / 88.54



DIMENSIONS (mm)

X	K	M max (*)	S	H		TURNING DIAMETER (WALL TO WALL)
				unloaded	loaded	
2850	8925	6600	875-1200-1500	1253	1189	22070
3100	9175	6850	875-1200-1500	1253	1189	22850
3350	9425	7100	1200-1500	1253	1189	23630
3600	9975	7650	1500	1253	1189	24410
3960	10335	8020	1500	1253	1189	25540

(*) M max.: indicative value calculated in std configuration to be confirmed by bodybuilder depending on load and type of equipment.
(Tyres 13R22.5)



WEIGHTS (kg)

X	Distribution net weight (*)			Max technical weight			
	First axle	Rear axles	Net Weight	First axle	Rear axles	Gross Vehicle Weight	Gross Combination Weight
2850	7355	4315	11670	16000 18000 (1) (2)	32000 (2)	50000 (2)	56000 (3) 130000 (4)
3100	7355	4340	11695				
3350	7355	4360	11715				
3600	7360	4435	11795				
3960	7355	4460	11815				

(*) Weights are referred to standard configuration and include chassis cab (or tractor), driver (75 kg), full fuel tank, tools kit and spare wheel (if present).

- (1) With front axles reinforcing plate (opt 077), tyres on front axles 385/65R22.5 or 325/95R24 and reinforced springs (OPT 195).
- (2) With front axles reinforcing plate (opt 077), tyres 325/95R24 or max speed limited to 70Km/h depending on tyre type and brand.
- (3) This value is valid only for ZF Ecosplit 4 manual gearbox. The combination weight is 90.000 kg for ZF As-Tronic automated gearbox and 60.000 kg for Traxon automated gearbox.
- (4) For manual gearbox with additional parking brake air chambers. Exceptional charge < 5% of the time of use of the vehicle.



ENGINES

CURSOR 13 turbo intercooler euro 3 diesel injection/cycle with electronic unit injection pumps. Single block head, four valves per cylinder, light alloy pistons. Total displacement: 12.882 cm³. Bore for stroke: 135x150 mm. 6 in-line cylinders. Water cooling. Dry air filter with safety cartridge. Vertical muffler.

	88.44	88.48	88.54
Model	Cursor 13		
Max power (EEC)	324 kW (440 HP)	353 kW (480 HP)	397 kW (540 HP)
Corresponding rpm	1900 rpm		
Max Torque (EEC)	2.100 Nm (214 kgm)	2.200 Nm (224 kgm)	2.350 Nm (240 kgm)
Turbine	VGT (Variable Geometry Turbine)		



GEARBOX

Manual **ZF** Ecosplit 4 technology gearbox with servoshift, 16 synchronised forward speeds + 2 reverse. First/last speed ratio: 13.80/0.84.

On request: Automated **ZF AS-Tronic**, 16 forward speeds + 2 reverse. First/last speed ratio: 14.12/0.83.

Automated, 12 forward speeds + 2 reverse. First/last speed ratio: 12.92/0.77.

Fully automatic **Allison** gearbox. First/last speed ratio: 7.63/0.64.



CLUTCH

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



TRANSFER BOX

Mechanical with two ratios. Helical spur gears, mounted on three shafts, engaged with each other. Lockable differential by pneumatic control from driver seat. Air-oil cooler.

	440 - 480 HP	540 HP
Model	IVECO TC2200	STEYR VG2700
Transmission ratio	1:1 - 1:1.6	1:0.913 - 1:1.407
Front/rear distribution ratio	1:2.2	1:2.6



AXLES

FRONT:

1st and 2nd axle, driving and steering, in cast iron with double reduction, central by bevelled pair, lateral by epicyclic group in wheel hubs. 1st and 2nd axle wheel stud protection.

On request: Lockable differential by pneumatic control from driver seat.

REAR:

Two drive axles in tandem. Double reduction: central with beveled pair, final in the wheel hubs by means of epicycloidal assembly. Torque distribution between the axles by means of a distributor fitted on the intermediate axle. Differential lockable from driver seat. Tandem assembled to the chassis by reaction rods with silentblocks.

On request: Available rear-axle ratio: 1:3.793; 1:4.229; 1:5.009; 1:5.558; 1:6.095; 1:6.588.



SUSPENSIONS

FRONT: Parabolic springs, n° 3 leaves 26x90 mm, hydraulic shock absorbers. Standard stabilizer bar on 1st axle.

On request: Stabilizer bar on 2nd axle.

Reinforced parabolic springs, n° 4 leaves 26x90 mm.

REAR: Parabolic springs, swiveling on central pin: n° 4 leaves 40x100 mm, torque bars and stiffening brackets. Standard stabilizer bar on 4th axle.

On request: Stabilizer bar on 3rd axle.

Parabolic springs, 5 leaves 40x 100 mm.

Extra-reinforced conventional springs, n° 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.



BRAKES

Front and rear "duo-duplex" self-adjusting wedge type brakes with automatic play take-up. Total net braking surface 12.368 cm². ABS + EBL system.

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; 1st category wheels antilock system.

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

Emergency brake: Incorporated in service brake.

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

IVECO BRAKE TURBO engine brake.

On request: Hydraulic additional braking system on transmission (only for automated and automatic gearbox).



TYRES

FRONT: 13R22,5 Single tubeless.

REAR: 13R22,5 Twin tubeless.

Spare wheel on the chassis.

Other Possible combinations:

15/80R22.5 156/150K

385/65R22.5 160J (*) + 315/80R22.5 156/150K

325/95R24 162/160K (*)

(*) Mandatory with 9 ton front axle load.

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



STEERING

ZF 8098 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 mechanical 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

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. 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 and mechanical passenger seat.