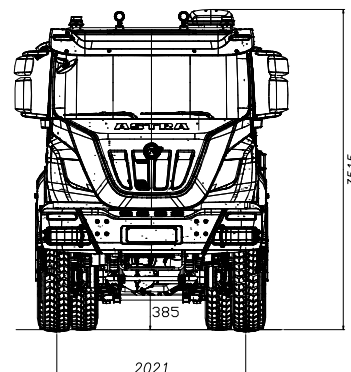
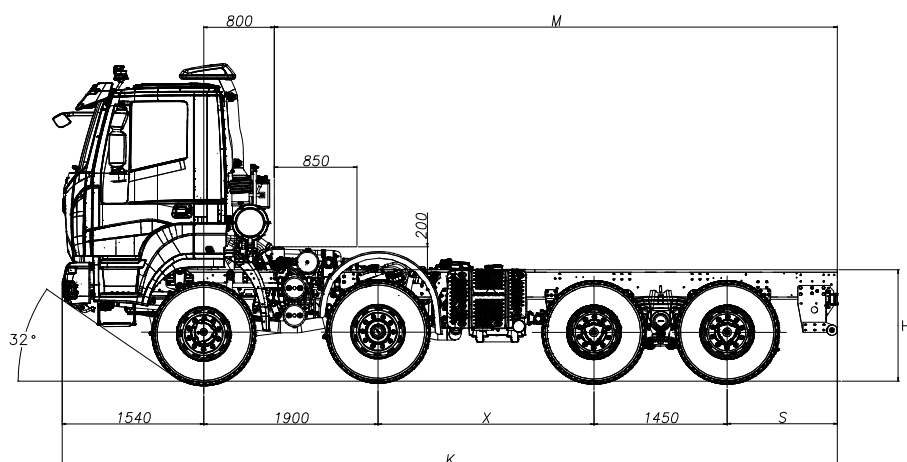




chassis 8x6 86.50 / 86.56



DIMENSIONS (mm)

X	K	M max (*)	S	S ON REQUEST	H		TURNING DIAMETER wall to wall
					unloaded	loaded	
2350	8440	6115	1200	875/1500	1255	1205	19800
2600	8690	6365					20600
2850	8940	6615					21400
3100	9190	6865					22200

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

(Tyres 13R22.5)



WEIGHT (kg)

X	Distribution net weight (*)				Max technical weight			
	1 st axle	2 nd axle	3 rd + 4 th axle	NET WEIGHT	1 st +2 nd axle	3 rd +4 th axle	Gross Vehicle Weight	Gross Combination Weight
2350	4265	3400	4536	12201	16000 18000 (1) (2)	32000 (2)	50000 (2)	121500
2600	4308	3434	4488	12230		40000 (3)	58000 (3)	
2850	4347	3465	4447	12259		42000 (4)	60000 (4)	
3100	4382	3493	4412	12287				

(*) Weight including oil, fuel, spare wheel, driver 75 Kg, with 13R22.5 tyres.

- (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), tyres 325/95R24 and max speed limited to 70 km/h.
- (4) With rear narrow Kessler axles (OPT 400), tyres 325/95R24 and max speed limited to 40 km/h.

Higher speeds are allowed with load reductions subject to Astra technical office approval.
Other tyres available, subject to Astra technical office approval.



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 x stroke: 135 x 150 mm. Water cooling. Dry air filter with safety cartridge.

	84.50	84.56
Model	CURSOR 13	CURSOR 13
Max. power (EEC)	368 kW (500 HP)	412 kW (560 HP)
@ rpm	1.900 rpm	
Max. torque (EEC)	2.300 Nm (235 kgm)	2.500 Nm (255 kgm)
@ rpm	900 - 1500	1000 - 1600
Turbine	Electronic Variable Geometry Turbocharger with exhaust flap	



GEARBOX

Manual **ZF 16S2520TO** gearbox, Ecosplit 4 technology with servoshift, 16 synchronised forward speeds + 2 reverse.

On request:

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

			Speed [kph] at maximum power (*)																	
			Gears																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM1	RM2
ZF 16 S 2520 TO	Gear ratios		13.80	11.54	9.49	7.93	6.53	5.46	4.57	3.82	3.02	2.53	2.08	1.74	1.43	1.20	1.00	0.84	12.92	10.80
	Rear axle ratio with transfer 1:1.0	4.229	6.7	8.0	9.7	11.7	14.2	16.9	20.2	24.2	30.6	36.5	44.4	53.1	64.6	77.0	92.4*	110.0*	7.2	8.6
		5.009	5.7	6.8	8.2	9.8	11.9	14.3	17.1	20.4	25.8	30.8	37.5	44.8	54.6	65.0	78.0	92.9*	6.0	7.2
		5.558	5.1	6.1	7.4	8.9	10.8	12.9	15.4	18.4	23.3	27.8	33.8	40.4	49.2	58.6	70.3	83.7	5.4	6.5
		6.095	4.6	5.6	6.8	8.1	9.8	11.7	14.0	16.8	21.2	25.3	30.8	36.8	44.8	53.4	64.1	76.3	5.0	5.9
		6.588	4.3	5.1	6.3	7.5	9.1	10.9	13.0	15.5	19.6	23.4	28.5	34.1	41.5	49.4	59.3	70.6	4.6	5.5
	Gear ratios		13.80	11.54	9.49	7.93	6.53	5.46	4.57	3.82	3.02	2.53	2.08	1.74	1.43	1.20	1.00	0.84	12.92	10.80
	Rear axle ratio with transfer 1:1.6	4,229	4.2	5.0	6.1	7.3	8.8	10.6	12.6	15.1	19.1	22.8	27.8	33.2	40.4	48.1	57.8	69.0	4.5	5.4
		5,009	3.5	4.2	5.1	6.1	7.5	8.9	10.7	12.8	16.1	19.3	23.4	28.0	34.1	40.6	48.8	58.0	3.8	4.5
		5,558	3.2	3.8	4.6	5.5	6.7	8.0	9.6	11.5	14.6	17.4	21.1	25.3	30.7	36.6	43.9	52.3	3.4	4.1
		6,095	2.9	3.5	4.2	5.1	6.1	7.3	8.8	10.5	13.3	15.8	19.3	23.0	28.0	33.4	40.1	47.7	3.1	3.7
		6,588	2.7	3.2	3.9	4.7	5.7	6.8	8.1	9.7	12.3	14.7	17.8	21.3	25.9	30.9	37.1	44.1	2.9	3.4

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



P.T.O.

On request:

Gearbox	ZF 16S2520TO	Mx. Torque	Application
P.T.O.	Ratio	Nm	
ZF NH/1b	0,91/1,09:1	1000	For tipping unit pumps, pumps for cranes, etc.
ZF NH/1c	0,91/1,09:1	1000	For tipping unit pumps, unit pumps for concrete, pumps for cranes, etc.
ZF NH/4c	1,17/1,40:1	430	For tipping unit pumps, etc.
ZFN221/10+PL+NL/1c	1,75/2,09:1+0,91/1,09:1	560+600	Double PTO for concrete pumps

ZF NMV 221 Power take-off (ratio 1,55:1) max available torque 1300 Nm for concrete pumps.

Multipower power take-off (ratio 1,29:1) max available torque 900 Nm for concrete mixers (without intarder).



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.

	500 HP	560 HP
Model	IVECO TC2200	STEYR VG2700
Transmission ratio	1:1 - 1:1,6	1:0,913 - 1:1,407
Front/rear torque distribution ratio	1:2,2	1:2,6



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.

Kessler front axle:

Version	Max technical weight on 1 st axle (ton)	Available axle ratio
HD9 K	8	5,01 - 5,47 -
	9 (with reinforced suspension)	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 Kessler axles (20+20 ton), including chassis reinforcement 10+6 mm (RBM 300.120 Nm).

Rear-axle ratio 1:4,229

Rear-axle ratio 1:5,009

Rear-axle ratio 1:5,558

Rear-axle ratio 1:6,095

Rear-axle ratio 1:6,588



SUSPENSIONS

FRONT

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

On request:

Stabilizer bar on 2nd axle.

Reinforced parabolic springs, 4 leaves 26x90 mm.

(Mandatory with 9t version).

REAR

Parabolic springs, swivelling on central pin: 4 leaves 40x100 mm. Standard 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.

On request:

Rapid pneumatic connection for tyres inflation.

Rear underrun bar in set back position.

Extra-long underrun bar for concrete mixer.

Rear maneuvering hook.

Rear automatic towing hook.

Rubber mudguards on 3rd and 4th axle.



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:

TYRES	ASSEMBLY	
	FRONT	REAR
12.00 R20 156/150G	S	D
315/80 R22,5 156/150K		
385/65 R22.5 160J (*)	S	
315/80 R22,5 156/150K		D
325/95 R24 162/160K (*) (**)	S	D

S single

D double

(*) Mandatory with 9 ton front axle load.

(**) Mandatory with rear narrow Kessler axles (OPT 400).

Other tyres available, subject to Astra technical office approval.



PNEUMATIC SYSTEM

Two-cylinder 630 cc compressor, APU (Air Processing Unit) that includes: regulation valve set at 10.3 bar, drier, 4-way safety valve, pressure reduction valve for parking circuit and services, 3 air tanks, capacity 30 liters + 2 with 20 liters. ABS system and EBL (Electronic Brake Limiter).



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 engine brake:

HD9 500/560 HP braking power 463 kW (621 HP).

On request:

Hydraulic retarder.

OFF/ROAD button for excluding ABS for speed < 15 kph.



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.



SERVICE DATA (l)

Engine oil sump and filters	28 (+2,5)
Gearbox oil	14,5
Power steering oil	18
Cab tipping oil	1
Clutch circuit oil	0,5
Integral PTO oil	3
Transfer box oil 86.50	6,5
Transfer box oil 86.56	13
Front axle with final red. oil	6,5
Intermediate axle with final red. oil	27
Rear axle with final red. oil	16
Cooling system water	33
Diesel	300
AD Blue.....	50



ELECTRICAL SYSTEM

Voltage: 24 V
 Alternator generator 90 A - 28 V (2520 W).
 Accumulators: 2 in series, 170 Ah.
 Starter motor 24 V 5,5 kW.
 Mechanically controlled electrical circuit breaker.
 Anti-block system ABS with 4-conduits and 4-electric valves electronic system.
 1 electrical joint 7-pole(ISO 7638) for trailer ABS (if applicable).
 1 electrical joint 15-pole(ISO 12089-4091) for trailer lighting (if applicable).
 Offset trim lights.
 Electrical provision for outfitters.
 Provision for diagnostics.
 Provision for radio/cb (without speakers)
 Glow plug for cold start.
On request:
 Reverse alarm;
 Electric main current cut-off switch.



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.

On request:

Air conditioning with anti-pollen filter
 Cab rear window.
 Car radio RDS, CD with steering wheel controls
 Car radio RDS, CD, MP3 Bluetooth technology.
 External sun visor.
 Heated and electric powered rear view mirrors.
 Remote controlled and centralized closing of doors.
 Roof hatch.
 Rotating lights on top of the cab.



INSTRUMENTATION

Dashboard and ergonomic instrument board contain the function buttons and the identification commands.

Indicator lights: engine oil low pressure, alternator charging low, main beam lights, side lights, engine warm-up, rear fog light, hazard lights, tractor turn indicators, trailer turn indicators (if applicable), rotating lights, cab lifted, axles differential locked, differential lock, front brakes air pressure low, rear brakes air pressure low, trailer brakes air pressure low (if applicable), parking brake engaged, splitter (reduction on), slow speeds (1-4/9-12), power take-off on (if applicable) air filters clogged, power steering oil level low, rear view mirrors heated (if applicable), tractor ABS, trailer ABS (if applicable), main steering circuit failure, steering auxiliary circuit failure, low urea level.

ASTRA Veicoli Industriali

Via Caorsana, 79
 29122 Piacenza (Italy)
 Tel. +39-0523/54311
 Fax +39-0523/591773
www.iveco-astra.com

DEALER

Characteristics and equipment are subject to changes without prior notice.

Technical data and general specifications - validity to be checked according to each individual configuration