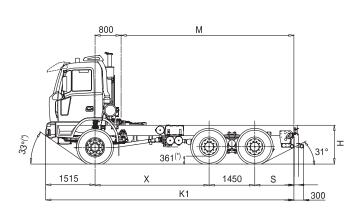
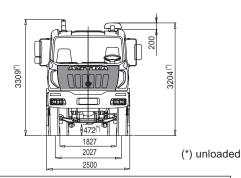


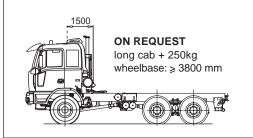
EURO 3



chassis 6x6 66.38 / 66.42 / 66.44 / 66.48 / 66.54









DIMENSIONS (mm) short cab (Tyres 13R22,5 156/150G)

wheelbases	х	K 1	М	S	н		TURNING DIAMETER
₹					UNLOADED	LOADED	
В	3500	7665	5350	1200			17400
С	3800	7965	5650	1200		1189	18250
D	4100	8265	5950	1200/1500/1900	1252		19350
E	4500	8665	6350	1200/1900/2500	1202	1103	20450
F	4750	9615	7300	1900			21200
G	5100	9965	7650	1900			22100



WEIGHT (kg)

eelbases	Distril	oution net weig	ht (*)	Max. technical weight						
wheel	1st axle	2 nd +3 rd axle	Net weight	1 st axle	2 nd +3 rd axle	Gross Vehicle weight	Gross Combination weight			
В	5320	4835	10155							
С	5355	4865	10220							
D	5375	4915	10290	8000 8500(1)	32000	40000	104000			
Ε	5400	4970	10370	9000(1)	32000	(2)	104000			
F	5430	5000	40430							
G	5470	5035	40505							

(*)Weight including oil, fuel, spare wheel, driver Kg.75

(1) With tyres 1st axle 385/65R22,5 160J or 365/85R20166G. Other tyres available, subject to the Astra technical office approval.

(2) HD8 66.48 and HD8 66.54 only at max speed 50 km/h. Michelin/Pirelli tyres. Higher speeds are allowed with load reductions subject to the Astra Technical office approval.

7-2008 ENGLISH



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: 135 x 150 mm. 6 in-line cylinders. Water cooling. Viscostatic cooling fan. Dry air filter with safety cartridge. Vertical muffler

	66.38	66.42	66.44	66.48	66.54*
Model	IVECO F3B	IVECO F3B	IVECO F3B	IVECO F3B	IVECO F3B
Max. power (EEC)	280 kW (380 HP)	309 kW (420 HP)	324 kW (440 HP)	353 kW (480 HP)	397 kW (540 HP)
Corresponding rpm	1.900	1.900	1.900	1.900	1.900
Max. torque (EEC)	1.800 Nm (183 kgm)	1.900 Nm (194 kgm)	2.100 Nm (214 kgm)	2.200 Nm (224 kgm)	2.350 Nm (240 kgm)
Corresponding rpm	1.000-1.440	1.000-1.440	1.000-1.440	1.000-1.440	1.000-1.690
Turbine	WG Was	te Gate	V	GT variable geometry	

^{*}Requires additional engine radiator, for extremely hot climate (>42°C).



GEARBOX

Manual gear **ZF 16 S 2220 TO** for HD8 66.38 / HD8 66.42 / HD8 66.44 and **ZF 16 S 2520 TO** for HD8 66.48 / HD8 66.54 - with servoshift, 16 synchronised forward speeds + 2 reverse.

				Speed [kph] at maximum power																
				Gears																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM	RM
	Gear ra	atios	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	1:3,793	7,5	8,9	10,9	13,0	15,8	18,9	22,5	27,0	34,1	40,7	49,5	59,2	72,0	85,9	103,0	122,7	8,0	9,5
ZF 16 S2220TO ZF 16 S 2520TO		1:4,229	7,1	8,5	10,3	12,3	15,0	17,9	21,4	25,6	32,4	38,7	47,0	56,2	68,4	81,5	97,8	116,4	7,6	9,1
		1:5,009	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
		1:5,558	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
		1:6,095	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	66,1	76,3	5,0	5,9
		1:6,588	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



P.T.O.

On request:

Gearbox	ZF16S2220TO-ZF16S2520TO	Max. torque	Application			
P.T.O.	Ratio	Nm.	Application			
ZF NH/1b	0,91/1,09:1	1000	For tipping unit pumps, pumps for cranes, ecc			
ZF NH/1c	0,91/1,09:1	1000	For tipping unit pumps, unit pumps for concrete, pumps for cranes, ecc			
ZF NH/4c	1,17/1,40:1	430	For tipping unit pumps, ecc			
ZFN221/10bpl+N353/1c	1,75/2,09:1+0,91/1,09:1	560+600	double PTO for concrete pumps			

ZF NMV1 221 Power take-off (ratio 1,55:1) max available torque 1300 Nm for concrete pumps (only with gear ZF16S2520TO).



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

Mechanical with two ratios. It consists of a series of helical spur gears, mounted on three propeller shafts, engaged with each other. Differential can be locked by pneumatic control.

Transmission ratio: 1:1 - 1:1,6 Front/rear torque distribution ratio: 1:4,0



FRONT: steering cast iron type; with double reduction, central with bevel pinion-crown, side by means of epicycloid assembly in wheel hubs.

REAR: Two drive axles in tandem with double reduction, central by bevelled pair and final by epicyclical group in wheel hubs

The intermediate axle is fitted with distributor that distributes torque between the two axles Differential lockable by pneumatic control from driver's seat. The tandem is anchored to the chassis by silent block mounted torque arms.

On request:

Rear-axle ratio 1:3.793 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

FRON1

Parabolic leaf springs with bushings, 4 leaves 24x90 mm, with hydraulic shock absorbers.

Standard stabiliser bar.

On request:

Reinforced conventional springs. 10 leaves 15x90 mm.

Reinforced parabolic springs, n° 5 leaves 24x90 mm.

RFAR

Parabolic springs, swivelling on central pin: 4 leaves 40x100 mm, supplemented by torque bars and stiffening brackets.

On request:

Stabiliser bar on 2nd axle. Stabiliser bar on 3rd axle.

Extra-reinforced conventional springs, 10 leaves 25x100 mm.



CHASSIS

Special steel with high elasticity limit, two flat and parallel side members width 820 mm., C section 320x90x10mm, cross members riveted to the frame.

Steel front bumpers with headlamp protection grids, front manoeuvring hook, rear underrun bar, steel fuel tank capacity 300 litres.

On request:

Rapid attachment for compressed air for tyres'inflation.

Rear underrun bar in set back position.

Extra long underrun bar for concrete mixer.

Rear manoeuvring hook.

Rear automatic towing hook.

Rubber mudguards on 2nd and 3rd axle.

Front bumper climbing step.



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 litres + 2 with 20 litres. ABS system and EBL (Electronic Brake Limiter)



STEERING

Hydraulic power steering ZF 8098 with variable ratio 1:22.2/1:26.2.

Hydraulic pump with gears flanged to engine. Steering linkage with self lubricating floating joints. Height and inclination mechanical adjustable steering wheel.



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

Spare wheel on the chassis.

Other Possible combinations to be checked with Astra technical office:

TYRES	ASSEMBLY				
	FRONT	REAR			
13 R 22,5 156/150G					
12 00 R 20 156/150G	S	D			
315/80 R 22,5 156/150G					
365/85 R 20 164G	S				
13 R 22,5 156/150G		0			
12 00 R 20 156/150G		D			
365/80 R 20 160K	S				
385/65 R 22,5 158K	3				
315/80 R 22,5 156/150G		D			
395/85 R 20 168G	S				
525/65 R 20,5 173F		S			
16 00 R 20 173G	S	S			
16 00 R 20 163G	S				
24 R 20,5 176F		S			

S single

D double

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



BRAKES

Front and rear "duo-duplex" self-adjusting wedge type brakes with automatic play take-up.

Total net braking surface 9.276 cm².

ABS system.

Service brake: Pedal controlled air brake, acting on all wheels.

Solo vehicles, two independent circuits, one for 1^{st} axle, one for 2^{nd} and 3^{rd} axle.

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

Emergency brake: Incorporated in service brake. **Parking brake**: Manual spring-type mechanical with pneumatic control acting on 2nd and 3rd axle wheels.

IVECO BRAKE TURBO engine brake:

HD8 440/480 HP braking power 255 kW (347 HP)

On request:

Hydraulic intarder.

1st axle immobiliser system.

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



ELECTRICAL SYSTEM

Voltage: 24 V

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

Accumulators: 2 in series, 143 Ah.

Starter motor 24 V 5,5 kW.

Mechanically controlled electrical circuit breaker.

1 electrical joint 7-pole(ISO 7638) for trailer ABS(if applicable).

1 electrical joints 15-pole(ISO 12089-4091) for trailer lighting

(if applicable).

Electrical provision for outfitters.

Provision for diagnostics.

Provision for radio/cb (without speakers)

Glow plug for cold start.

On request:

170 Ah accumulators;

143 Ah tropicalised accumulators;

Reverse alarm;

Electric main current cut-off switch.



CAB

White cab with hydraulic tipping. Built in moulding fiberglass with tubular steel armature. Tested on the most demanding off road routes. Cab suspension with guiding arms, 4 helicoidal springs, double action shock absorbers, anti-roll bar and end-of-stroke pads. Internal panels completely washable and fireproof. 4-speed ventilation and heating system with air recirculation system.

Collapsible first step. Electric power windows on driver and passenger doors. Driver seat with pneumatic suspension and seat belt. Mechanical passenger with seat belts. Tinted athermic windows. Steering wheel adjustable in height and angle.

On request:

Car radio RDS, CD; Car radio RDS, CD, MP3, Blue Tooth technology;

Compressed air quick coupling for cab cleaning;

Roof hatch;

Air conditioning;

Centralized closing of the doors with remote control;

Extra colour cab: metallic / non-metallic;

Heated and electric powered rear view mirrors;

Cab rear window:

External sun visor.

SERVICE DATA(I)

Engine oil sump and filters	I 28
Gearbox oil: ZF 16S2220TO/ZF 16S2520TO	I 13
Power steering oil	1 8,5
Cab tipping oil	Ι΄1
Clutch circuit oil	1 0,5
Integral PTO oil	1 3
Intermediate axle with final red. oil	1 27
Rear axle with final red. oil	I 16
Cooling system water	1 33
Diesel	1300



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), ABS, trailer ABS (if applicable), main steering circuit failure, steering auxiliary circuit failure.

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DEALER

