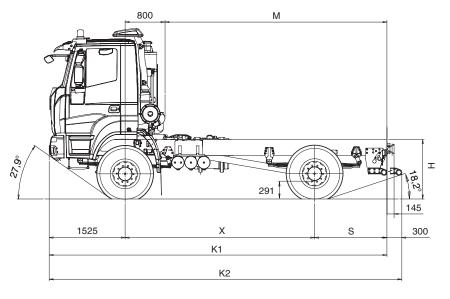
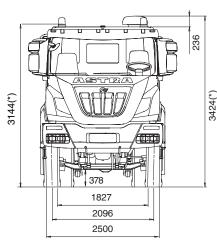




chassis 4x2 42.41 / 42.44 / 42.48





(*) Unloaded



DIMENSIONS (mm) (Tyres 315/80R22.5 156/150K)

x		K1	K2	М	S	н		TURNING DIAMETER		
						UNLOADED	LOADED	BETWEEN SIDEWALKS	WALL TO WALL	
3800)	6775	7075	4450	1450			13800	15500	
4200)	7575	7875	5250	1850	1117	1134	15100	16700	
4600)	8375	8675	6050	2250] ''''	1104	16300	18000	
5100		8875	9175	6550	2250			17800	19500	

M: indicative value to be checked with the bodybuilder.



WEIGHT (kg)

	Distribution	net weight (*)	Max. technical weight					
Х	1 st axle	2 nd axle	net weight	1 st axle	2 nd axle	Gross Vehicle weight	Gross Combination Weight		
3800	5047	2389	7436						
4200	5044	2440	7484	8000	13000	22000	55000		
4600	5054	2514	7568	8500(1) 9000(1)	13000	(2)	55000		
5100	5093	2530	7623	3000(1)		(-)			

(*) Weight including oil, fuel, spare wheel, driver Kg.75
(1) With tyres 1st axle 385/65R22,5 160 J or 365/85R20164G. Other tyres available, subject to the Astra technical office approval.

07-2012 **ENGLISH**

⁽²⁾ Only for HD9 42.48 at max speed 50 Kph. Michelin/Pirelli tyres. Higher speed are allowed with load reductions subject to the Astra Technical office approval.



CURSOR 13 turbo intercooler diesel injection/cycle with electronic unit injection pumps. 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. Viscostatic cooling fan. Dry air filter with safety cartridge. Vertical muffler. Emissions according to € 5 regulation norms SCR (Selective Catalytic Reduction) system composed of catalytic muffler, AdBlue-tank, injection and control system.

	42.41	42.44	42.48
Model	IVECO F3B E3681D	IVECO F3B E3681G	IVECO F3B E3681F
Max. power (EEC)	302 kW (410 cv)	324 kW (440 cv)	353 kW (480 cv)
Corresponding rpm	1.900 rpm	1.900 rpm	1.900 rpm
Max. torque (EEC)	1.900 Nm (194 kgm)	2.200 Nm (224 kgm)	2.300 Nm (234 kgm)
Corresponding rpm	1.000-1.440 rpm	1.000-1.440 rpm	1.000-1.440 rpm
Turbine	WG Waste Gate	VGT variab	le geometry



Manual ZF gearbox Ecosplit 4 technology with servoshift, 16 synchronised forward speeds + 2 reverse. **ZF 16 S 2220 TO** for HD9 42.41 / HD9 42.44 and **ZF 16 S 2520 TO** for HD9 42.48. **On request: ZF 16 S 2320 TD**

			S	peed	[kph] cal	culat	ted a	t ma	ximu	m p	ower	rpm	(Tyr	es 31	15/80	R22.	5 15	6/150	K)
				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
16S2220TO		3.793	7.3	8.7	10.5	12.6	15.3	18.3	21.9	26.2	33.1	39.6	48.1	57.5	70.0	83.4	100.1*	119.1*	7.7	9.3
	ratio	4.229	6.5	7.8	9.5	11.3	13.7	16.4	19.6	23.5	29.7	35.5	43.2	51.6	62.8	74.8	89.8	106.9*	6.9	8.3
	axle	5.009	5.5	6.6	8.0	9.6	11.6	13.9	16.6	19.8	25.1	30.0	36.4	43.6	53.0	63.2	75.8	90.2*	5.9	7.0
16S		5.558	4.9	5.9	7.2	8.6	10.5	12.5	14.9	17.9	22.6	27.0	32.8	39.3	47.8	56.9	68.3	81.3	5.3	6.3
77	Rear	6.095	4.5	5.4	6.6	7.9	9.5	11.4	13.6	16.3	20.6	24.6	29.9	35.8	43.6	51.9	62.3	74.1	4.8	5.8
		6.588	4.2	5.0	6.1	7.3	8.8	10.6	12.6	15.1	19.1	22.8	27.7	33.1	40.3	48.0	57.6	68.6	4.5	5.3

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



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+PL+NL/1c	1,75/2,09:1+0,91/1,09:1	560+600	double PTO for concrete pumps				

Power take off at flywheel (ratio 1,29:1) max available torque 900 Nm for concrete mixers.



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. On request: Ceramic clutch 17".



AXLES

Steering, hot moulding in high tensile steel. Wheel stud protection.

REAR

Driving axle with dual reduction, central with bevel gear pair, final in wheel hubs by means of epicycloidal assembly . Lockable differential with pneumatic control from driver seat

On request:

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

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

Standard stabilizer bar.

On request:

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

RFAR

Parabolic springs with bushings,n° 4 leaves 24x90 mm, + 1 leaf 50x90 mm, with telescopic shock absorbers and standard stabilizer bar.



CHASSIS

Special steel with high elasticity limit, two flat and parallel side members (width 820 mm.), C section (320x70x8mm), cross members riveted to the frame.

R.B.M. (Rail Bending Moment): 143.149 Nm (14.592 Kgm). 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 axle.

Side windlass for spare wheel.



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. Steering column adjustable in height and angle.



TYRES

FRONT: 315/80R22,5 156/150 K Single tubeless RFAR: 315/80R22,5 156/150 K Twin tubeless Spare wheel on the chassis.

Other Possible combinations:

TYRES	ASSEMBLY				
	FRONT	REAR			
13 R 22,5 156/150G	S	D			
12 00 R 20 156/150G	0	<u> </u>			
385/65 R 22,5 160J*	S				
315/80 R 22,5 156/150K		D			

S single

D double

(*) Mandatory with 9 ton front axle load.

Other tyres available, subject to the Astra technical office



BRAKES

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

Total net braking surface 6.184 cm². ABS. Service brake: Pedal controlled air brake, acting on all

Solo vehicles, two independent circuits, one for 1st axle, one for 2ⁿ

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

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

IVECO BRAKE TURBO engine brake: HD9 410 braking power 200 kW (272 cv)

HD9 440/480 braking power 255 kW (347 cv)

On request:

1st axle immobiliser system.

OFF/ROAD button for excluding ABS for speed < 15 kph. Hydraulic intarder (HD9 42.44 / HD9 42.48).

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 battery cut-out.

Anti-block system ABS with 4-conduits and 4-electric valveselectronic system.

Phonic wheels and sensors on 1st and 2nd axle.

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).

Offset trim lights .

Electrical provision for outfitters.

Provision for diagnostics.

Provision for radio/cb (without speakers)

Glow plug for cold start.

On request:

170 Ah tropicalised accumulators:

Reverse alarm;

Electrically controlled battery cut-out;

220 Ah accumulators.



CAB

White cab built in galvanised pressed steel with hydraulic tilting up to 60°.

Tested on the most demanding off road routes.

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. 4-speed ventilation and heating system with air recirculation system. Air suspended 3-way adjustable driver seat with seat belts. Passenger seat with mechanical suspension and seat belts.

Compressed air quick coupling for cab cleaning

On request:

Air conditioning;

Cab rear window;

Car radio RDS, CD;

Car radio RDS, CD with steering wheel controls; Car radio RDS, CD, MP3, Blue Tooth technology;

Engine hood with central mask in IC 575 colour;

External sun visor;

Extra cab colour: IC to be specified in the order;

Heated and electric powered rear view mirrors;

Remoted controlled and centralized closing of doors;

Roof hatch:

Rotating lights on top of the cab.

SERVICE DATA(I)

Engine oil sump and filters Gearbox oil: ZF 16S2220TO/ZF 16S2520TO	28 13
Power steering oil	8,5
Cab tipping oil	1
Clutch circuit oil	0,5
Integral PTO oil	3
Rear axle with final red. oil	16
Cooling system water	33
Diesel	300
AD Blue	45



INSTRUMENTATION

Trip Computer multifunction dislay. Multiplex electronic system for fundamental information for the driver: average speed, consumption and general information about the main components for ideal use of the vehicle.

It also allows to carry out the daily controls on the vehicle at any moment, thus optimizing the time and energies needed for production's purposes. 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 (if applicable), 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 ureas' level.

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DEALER

Characteristics and equipment are subject to changes without prior notice.