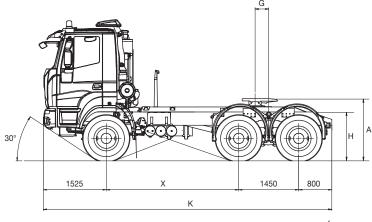
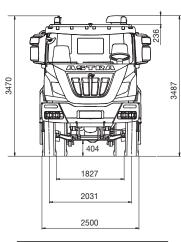
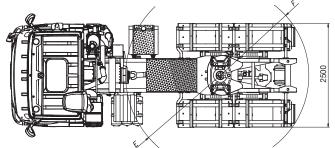




# tractor 6x4 64.38T / 64.42T / 64.44T / 64.48T / 64.54T











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

х	G(1)	E(1)	F(1)	К	ŀ	1	fifth who		TURNING	DIAMETER
	STD	STD	STD		UNLOADED	LOADED	UNLOADED	LOADED	SIDEWALKS	WALL TO WALL
3200	300	2320	2170	6975					14200	15900
3500	300	2620	2170	7275	1192	1129	1506	1446	15100	16800
3800	300	2920	2170	7575	]				16100	17800

(1) Standard fifth wheel position. In case of different positioning needs, the quote may change in relation with the technical GVW of the vehicle. Values to be confirmed in combination with the semitrailer.



## WEIGHT (kg)

	Distribution net weight (*)			Max technical weight							
x	1 <sup>st</sup> axle	2 <sup>nd</sup> +3 <sup>rd</sup> axle	NET WEIGHT (*)	1 <sup>st</sup> axle		2 <sup>nd</sup> +3 <sup>rd</sup> axle	Fifth Wheel	Tractor	Gross Combination Weight		
3200	5202	5228	10430		0500		29570				
3500	5225	5225	10450	8000	8000	8500 9000(1)	32000	29550	40000 (2)	104000	
3800	5264	5241	10505		9000(1)		29495				

- (\*) Weight including oil, fuel, spare wheel, driver Kg.75
- (1) With tyres 1st axle 385/65R22,5160J or 365/85R20164G. Other tyres available, subject to the Astra technical office approval.
- (2) HD9 64.48T and HD9 64.54T only at max speed 50 km/h. Higher speeds/loads are allowed with load/speed reductions subject to the Astra Technical office approval.

2-2013 **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

	64.38T	64.42T	64.44T	64.48T	64.54T		
Model	IVECO F3B	IVECO F3B	IVECO F3B	IVECO F3B	IVECO F3B		
Max. power (EEC)	280 kW (380 cv)	309 kW (420 cv)	324 kW (440 cv)	353 kW (480 cv)	397 kW (540 HP)		
Corresponding rpm			1900 giri/min				
Max. torque (EEC)	1800 Nm (184 kgm)	1900 Nm (194 kgm)	2100 Nm (214 kgm)	2.350 Nm (240 kgm)			
Corresponding rpm		1.000-1.4	40 giri/min	1.000-1.690			
Turbine	WG Was	te Gate	VGT variable geometry				



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

**ZF16S2220TO:** HD9 64.38T/HD9 64.42T / HD9 64.44T

**ZF16S2520TO:** HD9 64.48T/HD9 64.54T

On request:

**ZF16S2320TD:** HD9 64.38T/HD9 64.42T/ HD9 64.44T/ HD9 64.48T **ZF ASTRONIC** 16AS2601OD: HD9 64.44T/ HD9 64.48T/ HD9 64.54T

			Speed [kph] at maximum power(*)																	
											Ge	ars								
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM1	RM2
	Gea	r ratios	16.41	13.80	11.28	9.49	7.76	6.53	5.43	4.57	3.59	3.02	2.47	2.08	1.70	1.43	1.19	1.00	15.36	12.92
ا م	•	3.793	6.3	7.5	9.1	10.9	13.3	15.8	19.0	22.5	28.7	34.1	41.7	49.5	60.6	72.0	86.6	103.0	6.7	8.0
20T	ratio	4.229	5.6	6.7	8.2	9.7	11.9	14.2	17.0	20.2	25.7	30.6	37.4	44.4	54.4	64.6	77.7	92.4	6.0	7.2
ZF16S2320TD	axle r	5.009	4.8	5.7	6.9	8.2	10.1	11.9	17.1	10.4	21.7	25.8	31.6	37.5	45.9	54.6	65.6	78.0	5.1	6.0
-16		5.558	4.3	5.1	6.2	7.4	9.1	10.8	15.4	9.3	19.6	23.3	28.5	33.8	41.4	49.2	59.1	70.3	4.6	5.4
K	Rear	6.095	3.9	4.6	5.7	6.8	8.3	9.8	14.0	8.5	17.9	21.2	26.0	30.8	37.7	44.8	53.9	64.1	4.2	5.0
	1	6.588	3.6	4.3	5.3	6.3	7.6	9.1	13.0	7.9	16.5	19.6	24.0	10.9	34.9	41.5	49.8	59.3	3.9	4.6
	Gea	r 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
16S2220TOZF 16S2520TO	0	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
0T0	ratio	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
222	axle r	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
16S2220TO		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
ZF 1	Rear	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

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



## On request:

Gearbox	ZF16S2220TO-ZF16S2520TO	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, pumps for cranes, unit pumps for concrete, etc			
ZF NH/4c	1,17/1,40:1	430	For tipping unit pumps, etc			
ZF N221/10bpl+N353/1c	1,75/2,09:1+0,91/1,09:1	560+600	Double PTO for concrete pumps			



Single dry plate, diameter 17". Pull type engagement with diaphragm spring.

Hydro-pneumatic power steering engagement control, with driven disc wear recovery slave cylinder.

On request: Ceramic clutch 17".



#### **FRONT**

Steering, hot moulding in high tensile steel. Wheel stud protection.  $\ensuremath{\mathbf{REAR}}$ 

Two tandem drive axles. Double reduction: central with crown wheel and pinion and final by epicyclical group in wheel hubs.

2<sup>nd</sup> axle with torque distributor to the two rear axles.

Lockable differentials by pneumatic control from driver seat. Tandem assembled to the chassis by reaction rods with silentblock.

#### 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

#### **FRONT**

1<sup>st</sup> axle, parabolic springs, n° 4 leaves 24x90 mm, with shock absorbers and stabilizer bar.

#### On request:

Parabolic springs, n° 5 leaves 24x90 mm.

#### REAF

Parabolic springs, swivelling on central pin:  $n^{\circ}$  4 leaves 40x100 mm, supplemented by torque bars and stiffening brackets.

#### On request:

Stabilizer bar on 2<sup>nd</sup> axle. Stabilizer bar on 3<sup>rd</sup> axle.

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



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. Fifth wheel helper frame, spot and side alighting step. rubber mudguards on 2<sup>nd</sup> and 3<sup>rd</sup> axles, toolbox.

## On request:

Rapid attachment for compressed air for tyres'inflation. Rear manoeuvring hook.

Fixed 31/2" fifth wheel.

Swivelling 3½" fifth wheel.

Front bumper climbing step.

Side winch 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 + 1 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.



### **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					
ITHES	FRONT	REAR				
12 00 R 20 156/150G 315/80 R 22,5 156/150G	S	D				
365/85 R 20 164G(*)	S					
13 R 22,5 156/150G 12 00 R 20 156/150G		D				
365/80 R 20 160K(*) 385/65 R 22,5 158K(*)	S					
315/80 R 22,5 156/150G		D				

S single

**D** double

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

\* Mandatory with 9t front axle load.



### **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, three independent circuits, one for 1<sup>st</sup> axle, one for 2<sup>nd</sup> and 3<sup>rd</sup> axle and another for the semi-trailer.

**Emergency brake:** Incorporated in service brake.

**Parking brake:** Mechanical spring-type with pneumatic control acting on  $2^{nd}$  and  $3^{rd}$  axle wheels.

#### **IVECO BRAKE TURBO engine brake:**

HD9 380/420 cv braking power 200 kW (272 cv) HD9 440/480/540 cv braking power 295 kW (408 cv)

#### On request:

Hydraulic intarder (HD9 64.38T and HD9 64.42T excluded). 1st axle immobiliser system.

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

#### HD9 380/420 cv

Front and rear "simplex" self-adjusting brake system.
No ABS system.

No hydraulic intarder



**ENGLISH** 



Voltage: 24 V

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

Accumulators: 2 in series, 160 Ah.

Starter motor 24 V 5,5 kW.

Mechanically controlled electrical circuit breaker.

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

1 electrical joint 15-pole (ISO 12089-4091) for semi-trailer lighting.

Electrical provision for bodybuilders.

Provision for diagnostics.

Provision for radio/cb (without speakers)

Glow plug for cold start.

#### On request:

170 Ah accumulators;

160 Ah tropicalized accumulators;

170 Ah tropicalized accumulators; Reverse alarm.



## CAB

White cab built in galvanized pressed steel with hydraulic tilting up to 60°. Cab suspension with 4 helical springs with coaxial shock absorbers and integrated dampers, anti-roll bar and end-of-stroke pads. Tinted electric door windows.

Mechanical rear view mirrors, wide angle mirrors and front view mirror. Internal panels completely washable and fire-proof. Compressed air quick coupling 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.

Car radio RDS, CD, MP3 Bluetooth technology.

External sun visor.

Extra colour cab: to be specified in the order.

Heated and electric powered rear view mirrors.

Remote controlled and centralized closing of doors.

Roof hatch.

Rotating lights on top of the cab.

White engine hood with central mask in IC575 colour.



## SERVICE DATA(I)

Engine oil sump and filters	28
Gearbox oil ZF16S2220TO/ZF16S2520TO:	13
Power steering oil	8,5
Cab tipping oil	1
Clutch circuit oil	0,5
Integral PTO oil	3
Intermediate axle with final red. oil	27
Rear axle with final red. oil	16
Cooling system water	33
Diesel	300



## **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, semi-trailer turn indicators, rotating lights, cab lifted, axles differential locked, differential lock, front brakes air pressure low, rear brakes air pressure low, semi-trailer brakes air pressure low, 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, semi-trailer ABS, main steering circuit failure, steering auxiliary circuit failure.

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**DEALER** 

- 2013 A3502

Characteristics and equipment are subject to changes without prior notice.