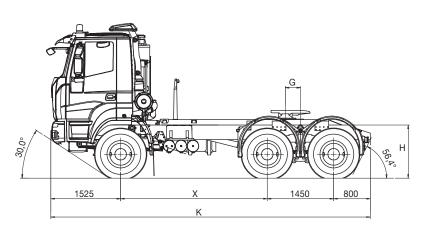
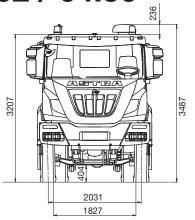
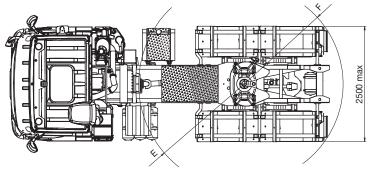




# tractor 6x4 64.41 / 64.44 / 64.48 / 64.52 / 64.56







(\*) unloaded



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

x	х к		ŀ	1	А	(*)	E (1)	F (1)	TURNING	DIAMETER
		std	unloaded	loaded	unloaded	loaded	std	std	sidewalks	walls
3200	6975						2320	2170	14200	15900
3500	7275	300	1192	1129	1514	1457	2620	2170	15100	16800
3800	7575						2920	2170	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.
- (\*) With swivelling fifth wheel + 100 mm



# WEIGHT (Kg)

Distribution net weight (*)				Max technical weight							
Х	1st axle	2 <sup>nd</sup> + 3 <sup>d</sup> axle	NET WEIGHT	1 <sup>st</sup> a	axle	2 <sup>nd</sup> + 3 <sup>d</sup> axle	Weight on fifth wheel	Tractor	Gross Combination		
3200	5330	5255	10585	2222			30415				
3500	5355	5250	10605	8000 8500 (1)		9000 (2)	32000	30395	40000 (3)	104000	
3800	5395	5265	10660		(2)		29340				

- (\*) Weight including oil, fuel, spare wheel, driver Kg. 75
- (1) With tyres 1st axle 385/65R22,5 160 J. Other tyres available, subject to the Astra technical office approval.
- (2) With tyres 1st axle 385/65R22,5 160 J and reinforced springs (OPT). Other tyres available, subject to the Astra technical office approval.
- (3) Only at max speed of 70 Kph with Continental and Michelin tyres. Higher speeds/loads are allowed with load/speed reductions subject to the Astra Technical office approval.

10-2013 ENGLISH



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.

	64.41T	64.44T	64.48T	64.52T	64.56T			
Model	IVECO F3B E3681D	IVECO F3B E3681G	IVECO F3B E3681F	IVECO F3B E3681E	IVECO F3B E3681A			
Max Power (EEC)	302 kW (410 HP)	324 kW (440 HP)	353 kW (480 HP)	382 kW (520 HP)	412 kW (560 HP)			
Corresponding rpm								
Max Torque (EEC)	1900 Nm (194 kgm)	2200 Nm (224 kgm)	2300 Nm (234 kgm)	2400 Nm (245 kgm)	2500 Nm (255 kgm)			
Corresponding rpm		1000-1690						
Turbine	WG Waste Gate VGT Variable Geometry Turbine							



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

ZF16S2220TO: HD9 64.41T/HD9 64.44T

**ZF16S2520TO:** HD9 64.48T/HD9 64.52T/HD9 64.56T. **On request: ZF16S2320TD:** HD9 64.41T/HD9 64.44T/HD9 64.48T

ASTRONIC ZF 16AS2630 TO: from 440HP

				Speed [kph] calculated at maximum power rpm																	
				Gears																	
				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
		0	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
=	20TD	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
ВОХ	ZF16S2320TD	xle r	5.009	4.8	5.7	6.9	8.2	10.1	11.9	14.4	17.1	21.7	25.8	31.6	37.5	45.9	54.6	65.6	78.0	5.1	6.0
TB	ZF16	a	5.558	4.3	5.1	6.2	7.4	9.1	10.8	12.9	15.4	19.6	23.3	28.5	33.8	41.4	49.2	59.1	70.3	4.6	5.4
		Real	6.095	3.9	4.6	5.7	6.8	8.3	9.8	11.8	14.0	17.9	21.2	26.0	30.8	37.7	44.8	53.9	64.1	4.2	5.0
		_	6.588	3.6	4.3	5.3	6.3	7.6	9.1	10.9	13.0	16.5	19.6	24.0	28.5	34.9	41.5	49.8	59.3	3.9	4.6
	ТО	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
	16S2520TO		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
	: 16S	atio	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
ВОХ	16S2220TOZF	xle	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
T B	220	a	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
	165	Зеа	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
	ZF	_	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



## On request:

Gear	ZF 16S2220TO-ZF 16S2520TO Max Torque Ratio Nm		Application	
P.T.O.			Application	
ZF NH/ 1b	0,91/ 1,09:1	1000	For tipping semitrailer pumps, crane pumps, etc	
ZF NH/ 1c	0,91/ 1,09:1	1000	For tipping semitrailer pumps, crane pumps, etc	
ZF NH/ 4c	1,17/ 1,40:1	430	For tipping semitrailer pumps, crane pumps, etc	



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"



#### **FRONT**

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

#### 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 hydraulic shock absorbers. Standard stabilizer bar.

#### On request:

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

#### **REAR**

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

### 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.



# **CHASSIS**

Special steel with high elasticity limit, two flat and parallel side members width 820 mm., C section (320x90x10mm), with 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:

Fixed 3" ½ fifth wheel.

Rapid attachment for compressed air for tyres' inflation.

Rear manoeuvring hook.

Side winch for spare wheel.

Swivelling 3" 1/2 fifth 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:

TYRES	ASSE	MBLY
ITNES	FRONT	REAR
12.00 R20 156/150G	s	D
315/80 R22.5 156/150K	3	, b
385/65 R22.5 160J(*)	S	
315/80 R22.5 156/150K		D

S single

**D** double

(\*) Mandatory with 9 ton front axle load.

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 litres + 1 with 20 litres. ABS system and EBL (Electronic Brake Limiter).



# **BRAKES**

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

Total net braking surface 9.276 cm<sup>2</sup>. ABS.

**Service brake:** Pedal controlled air brake, acting on all wheels. Three independent circuits, one for  $1^{\rm st}$  axle, one for  $2^{\rm nd}$  and  $3^{\rm rd}$  axle and another for the semi-trailer.

Emergency brake: Incorporated in service brake.

**Parking brake:** Manual spring-type with pneumatic control acting on 2<sup>nd</sup> and 3<sup>rd</sup> axle wheels.

IVECO BRAKE TURBO engine brake:

HD9 410 HP braking power 200 kW (272 HP)

HD9 440/480/520/560 HP braking power 295 kW (408 HP) On request:

Hydraulic intarder (64.44T / 64.48T / 64.52T / 64.56T).

1st axle immobiliser system.

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



# **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. Pneumatically adjustable steering column for height and inclination.



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 main circuit breaker.

Anti-block system ABS with 4-conduits and 4-electric valves electronic system.

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

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

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 tropicalized accumulators.

Reverse alarm.

Electrically controlled main circuit breaker.

220Ah accumulators.



# 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. Internal panels completely washable and fireproof. 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 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.

White engine hood with central mask in IC575 colour



# SERVICE DATA(I)

Engine oil sump and filters	28
Gearbox oil: ZF 16AS2630 TO	13
Gearbox oil: ZF 16S2220TO/ZF 16S2520TO	13
Power steering oil	8,5
Cab tipping oil	1
Clutch circuit oil	
Integral PTO oil	3
Intermediate axle with final red. oil	27
Rear axle with final red. oil	16
Cooling system water	33
Diesel	
AD Blue	45

# **INSTRUMENTATION**

Trip Computer multifunction display. 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.

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, semitrailer turn indicators, rotating lights, cab lifted, axles differential locked, differential lock, front brakes air pressure low, rear brakes air pressure low, semitrailer 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, semitrailer ABS, main steering circuit failure, steering auxiliary circuit failure, low urea level.

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## **DEALER**

- 2013 A350236

Characteristics and equipment are subject to changes without prior notice.