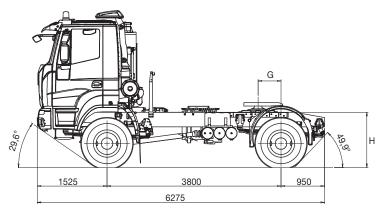
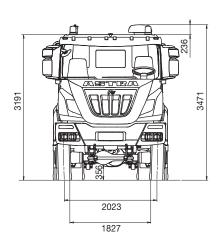


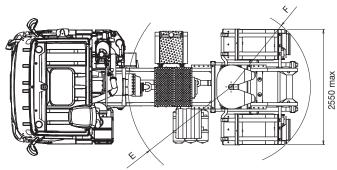




tractor 4x4 44.41T / 44.44T / 44.48T / 44.52T / 44.56T







(*) unloaded



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

x	к		ŀ	н		(*)	E (1)	F (1)	TURNING DIAMETER	
		std	unloaded	loaded	unloaded	loaded	std	std	sidewalks	walls
3800	6275	500	1208	1124	1505	1397	2245	1765	14400	16000

- (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	1 st axle	2 nd axle	NET WEIGHT	1 st axle		2 nd axle	Weight on fifth wheel	Tractor	Gross Combination Weight	
3800	5660	2715	8375	8000 8500 (1)	9000 (2)	13000	11625	20000 (3)	55000	

- (**)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 Km/h with Continental/Michelin tyres. Higher speeds are allowed with load reductions, subject to the Astra Technical office approval.

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.

	44.41T	44.44T	44.48T	44.52T	44.56T		
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			1900				
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 44.41T/HD9 44.44T

ZF16S2520TO: HD9 44.48T/HD9 44.52T/HD9 44.56T.

On request: ZF16S2320TD

								S	peed	[kph]	calcu	lated	at ma	ximur	n pow	er rpi	m				
												Ge	ars								
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM1	RM2
		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
			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
	20TO	atio	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
BOX	ZF16S2220TO ZF 16S2520TO	xle r	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
T B	ZF16 ZF 16	a	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
		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
		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
ဖွ		0	3.793	4.5	5.4	6.6	7.9	9.6	11.5	13.7	16.4	20.7	24.7	30.1	35.9	43.7	52.1	62.6	74.5	4.8	5.8
1	20TC	ratio	4.229	4.1	4.9	5.9	7.1	8.6	10.3	12.3	14.7	18.6	22.2	27.0	32.2	39.2	46.8	56.1	66.8	4.3	5.2
BOX	16S2220TO 16S2520TO	xleı	5.009	3.4	4.1	5.0	6.0	7.3	8.7	10.4	12.4	15.7	18.7	22.8	27.2	33.1	39.5	47.4	56.4	3.7	4.4
T B(ZF 10 ZF 10	a	5.558	3.1	3.7	4.5	5.4	6.5	7.8	9.3	11.2	14.1	16.9	20.5	24.5	29.9	35.6	42.7	50.8	3.3	4.0
-		Rear	6.095	2.8	3.4	4.1	4.9	6.0	7.1	8.5	10.2	12.9	15.4	18.7	22.4	27.2	32.4	38.9	46.3	3.0	3.6
		_	6.588	2.6	3.1	3.8	4.5	5.5	6.6	7.9	9.4	11.9	14.2	17.3	20.7	25.2	30.0	36.0	42.9	2.8	3.3



On request:

Gear	ZF 16S2220TO-ZF 16S2520TO	Max Torque	Application
P.T.O.	Ratio	Nm	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"



TRANSFER

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

Transmission ratio: 1:1 - 1:1,6

Front/rear torque distribution ratio:

1:2,2



AXLES

FRONT

Steering cast iron type; with dual reduction, central with bevel pinion-crown, side by means of epicyclical assembly in wheel hubs

On request:

Lockable differential by pneumatic control from driver's seat.

REAR

Engine axle with double reduction, central with bevel gear pair, final in wheel hubs by means of epicyclical assembly . Lockable differential with pneumatic control from driver's 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

FRONT

Parabolic springs with bushings, n° 4 leaves 24x90 mm, with hydraulic shock absorbers and standard stabiliser bar.

On request:

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

REAR

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



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 **REAR:** 315/80R22,5 156/150 K Twin tubeless

Spare wheel on the chassis.

Other Possible combinations:

TYRES	ASSE	MBLY
ITRES	FRONT	REAR
13 R 22,4 156/150G 12 00 R 20 156/150G	s	D
385/65 R 22,5 160J (*)	S	
315/80 R 22,5 156/150K		D
365/85 R 20 164G (*)	S	
13 R 22,4 156/150G		D
12 00 R 20 156/150G		D

S single

D double

(*) Mandatory with 9 ton front axle load.



CHASSIS

In steel with high elasticity limit consisting of two flat parallel side members (width 820 mm.) with C section (320x70x8 mm) and cross members riveted to the frame. R.B.M. (Rail Bending Moment): 143.149 Nm (14.592 Kgm.). Front bumpers in steel with headlamp protection grids, front manoeuvring hook, rear underrun bar, steel fuel tank, capacity 300 litres, spot and side alighting steps, fifth wheel false frame, rubber mudguards on 2nd axle, toolbox.

On request:

Rapid attachment for compressed air for tyre inflation.

Rear manoeuvring hook. Fixed 2" fifth wheel h 150.

Fixed 2" fifth wheel h 185.

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.

ABS system and EBL (Electronic Brake Limiter).



BREAKES

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

Total net braking surface 5.874 cm². ABS.

Service brake: Pedal controlled air brake, acting on all wheels, three independent circuits, one for 1st axle, one for 2nd axle and another for the semi-trailer.

Emergency brake: Incorporated in service brake.

Parking brake: Manual spring-type mechanical with pneumatic control acting on $2^{\rm nd}$ axle wheels.

IVECO BRAKE TURBO engine brake:

HD9 410 braking power 200 kW (272 cv)

HD9 440/480/520/560 braking power 295 kW (408 cv)

On request:

Hydraulic intarder (44.44T / 44.48T / 44.52T / 44.56T). 1st axle immobiliser system.

OFF/ROAD button for excluding ABS for speed < 15 km/h.



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 main circuit breaker.

ABS anti-lock system with 4-conduits and 4-electric valves control unit.

Phonic wheels and sensors on 1^{st} and 2^{nd} axle.

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

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

220 Ah accumulators.

10-2013 ENGLISH



CAR

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.

Extra cab colour: 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: ZF 16S2220TO/ZF 16S2520TO	13
Power steering oil	8,5
Cab tipping oil	1
Clutch circuit oil	0,5
Transfer oil 44.41-44.44-44.48	6,5
Transfer oil 44.52-44.56	10
Front axle with final red. oil	6,5
Rear axle with final red. oil	16
Cooling system water	33
Diesel	300
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, semi-trailer turn indicators (if applicable), 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, low urea level.

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DEALER

) - 2013 A350;

Characteristics and equipment are subject to changes without prior notice.