





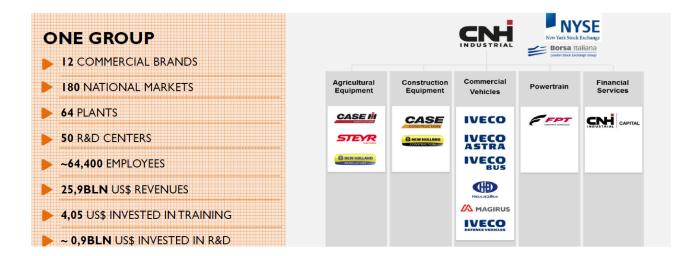








A GLOBAL LEADER IN THE CAPITAL GOODS SECTOR



Heavy Haulage:

Mission highlights

Some loads are too heavy, or too big, to be transported on a standard truck. Turbines, boilers, bridge beams and other architectural or industrial components are huge – and indivisible. In order to move them, special vehicles are required, powerful enough and equipped for hauling or hoisting large items. We do such vehicles.

Astra for Heavy Haulage

ASTRA extra-reinforced steel structure provides unparalleled loading capacity to satisfy the most demanding requirements of towing missions.

Our HD9 offers an ample range of traction solutions, from the simple (and strong) 6×4 to the ultrastable 8×6 and 8×8 versions – all of them rigid or tractor, with single, double or sleeper cab.

HD9 engines offer a maximum power output of up to 560 hp, and can be equipped with increased-size radiators and additional cooling systems for hot climates. The versatile and robust driveline includes torque converter gearboxes and extra-strong driving axles (up to 10 t front, 20 t rear).

Trucks can be specified with extra-wide tires, special towing hooks, reinforced cross members and high-capacity fuel tanks. Tailor-made transformations are performed directly in our factory to guarantee the highest quality standards.

Everything is designed to perform well (and last) with high-haulage vehicle combinations up to 400t.

When the challenge is taken to the extreme, then ASTRA comes into play.





Astra in Action











Tractor 6x6





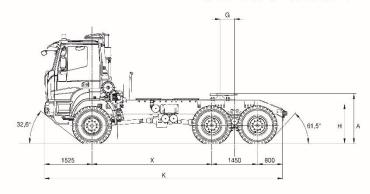
EURO 3

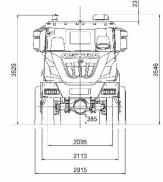
Heavy - Heavy Duty



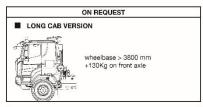
G.C.W. up to 300t

Tractor 6x6 66.48 / 66.54





(*) unloaded



TYRES 14.00R20



DIMENSIONS (mm) short cab

х	к	G(1)	H	1	1	\	E(1)	F(1)	TURNING
		, ,	UNLOADED	LOADED	UNLOADED	LOADED	FRONT RADIUS	IUS REAR RADIUS	DIAMETER
3800	7575	455	1007	1243	1637	1573	2770	2355	22410
4100	7875	465	1307				3060	2385	23680

(1) Max. load on first axle 10,000 kg: values to be confirmed in combination with semitrailer.



WEIGHT (kg)

- [Distribution	net weight	(*)	Max. technical weight				
Х	1st axle	2 nd + 3 rd axle	NET WEIGHT	1st axle 2nd+ 3rd axle Fifth Who			Gross Combination Weight (**)	
3800	6240	6330	12570	10000	40000	37430	to 200 ton	
4100	6405	6205	12610	10000	40000	37390	up to 300 ton	



Technical data and general specifications - validity to be checked according to each individual country

05-2015 **ENGLISH**



^(*) Weight including oil, fuel, spare wheel, driver Kg. 75 (**) Data to be checked with Technical Department according to the configuration and the mission of the vehicle





CURSOR 13 turbo intercooler euro 3 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.

	66.48T	66.54T*			
Model	FPT Cursor13 F3B	FPT Cursor13 F3B			
Max. power (EEC)	353 kW (480 HP)	397 kW (540 HP)			
Corresponding rpm	1.900	1.900			
Max. torque (EEC)	2.200 Nm (224 kgm)	2.350 Nm (240 kgm)			
Corresponding rpm	1.000-1.440	1.000-1.690			
Turbine	VGT variable geometry				

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



GEARBOX

Manual gear ZF 16 S 2520 TO with servoshift, 16 synchronised forward speeds + 2 reverse

- Astronic ZF 16AS2630 TO.
- Transmatic ZF 16S221 with WSK 440 torque converter (wheelbase 4100mm).

							Spe	ed [kp	h]at r	naxim	ıum p	ower	rpm -	Tyres	14.00)R20				
				Gears																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM1	RM2
2520ТО	Gear ratio	s	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
ZF 16 S 25	Rear axle ratio with transfer 1:1.0	1:7,290	4,7	5,7	6,9	8,3	10,0	12,0	14,3	17,2	21,7	25,9	31,5	37,7	45,8	54,6	65,5	78,0	5,1	6,1

On request: Automatic gearbox Allison 4700 with closed loop adaptive shifts, 7 forward speeds +1 reverse (wheelbase 4100mm). Torque converter TC-561. Stall torque ratio 1.58. Cab-mounted shift selector lever.

		Allison 4700									
	Gears										
	1	2	3	4	5	6	7	RM			
Gear ratios	7,63:1	3,51:1	1,91:1	1,43:1	1,00:1	0,74:1	0,64:1	-480:1			



On request:

Gearbox	ZF16S2520TO	Max. torque	Analiantian
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



P.T.O. CHELSEA only for automatic gearbox Allison 4700 (on request)

Gearbox	Allison 4700	Max. torque	Application			
P.T.O.	P.T.O. Ratio Nm		Application			
859 XGF JP-5	1,08:1	780	For higher performance, 30t windlass			

Technical data and general specifications - validity to be checked according to each individual country



ractor 6x





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 ZF STEYR VG 2700

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

0.913 - 1407Transmission ratio:

Front torque distribution ratio: 1.0 Rear torque distribution ratio: 2.6



SUSPENSIONS

Parabolic springs with bushings, 5 leaves 24x90 mm. Hydraulic shock absorbers and standard stabilizer bar. REAR

Parabolic springs, swivelling on central pin: 5 leaves 40x100 mm. Supplemented by torque bars and stiffening brackets. Stabilizer bar on rear axles.



AXLES

Driving and steering type for max technical weight 10.000 kg Double reduction, central with pinion-crown wheel, side by . means of epicycloidal assembly in wheel hubs.

On request:

Differential lockable by pneumatic control from driver's seat. REAR

Two driving axles in tandem for max technical weight 40.000 kg.

Double reduction: central with bevelled pair, final in the wheel hubs by means of epicycloidal assembly.

Torque distributor on 2nd axle.

Differential lockable by pneumatic control from driver's seat. Tandem assembled to the chassis by reaction rods with silentblock. Rear-axle ratio 1:7,29



CHASSIS

In steel with high elasticity limit consisting of two flat parallel side members (width 820 mm.) with C section (320x90x10 mm), jointed by nailed cross members. R.B.M. (Rail Bending Moment: 202.020 Nm (20.593 Kgm). 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, toolbox, fixed fifth wheel JSK 50.

On request:

Rapid attachment for compressed air for tyres'inflation.

Rear manoeuvring hook. Front bumper climbing step.

Side winch for spare wheel.



STEERING

Hydraulic power steering ZF 8099 with variable ratio 1:22.2/1:26.2, with auxiliary cylinder. Hydraulic pump flanged to engine. Steering linkage with self lubricating floating joints. Emergengy steering pump:

- On gearbox with mechanical gearbox;
- On transfer-box with automatic gearbox.

Mechanically adjustable steering wheel for height and angle.



TYRES

FRONT: 14.00R20 Pirelli PS 22 Single Tubeless 14.00R20 Pirelli PS 22 Twin Tubeless REAR:

Spare wheel on the chassis.

Other tyres available on request, subject to the approval of Astra technical department.



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).



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

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

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

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

Emergency brake: integrated in service brake.

Parking brake: Manual spring-type mechanical with pneumatic control acting on 2nd and 3rd axle wheels. IVECO BRAKE TURBO engine brake:

Braking power 295 kW (408 cv)

On request:

Hydraulic intarder.

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 tropicalised.

Starter 24 V 5.5 kW.

Mechanically controlled electrical circuit breaker.

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

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

225 Ah accumulators;

Reverse alarm;

Electrically controlled main current circuit breaker.



05-2015 **ENGLISH**

Technical data and general specifications - validity to be checked according to each individual country



کد پستی: ۱۹۶۹۶۳۳۸۷۴ دفتر مرکزی: تهران، ضلع شمال غربی تقاطع بلوار نلسون ماندلا ومیرداماد، پلاک ۳۰۹





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

Cab suspension with 4 helical springs with coaxial shock, absorbers, anti-roll bar and end-of-stroke pads. Electric power windows on driver and passenger system. Internal panels completely washable and fireproof.

4-speed ventilation and heating system with air recirculation system. Compressed air quick coupling for cab cleaning.

On request:

Additional central seat;

Air conditioning;

Anti-fog lights;

Cab rear window; Car radio RDS, CD; Car radio RDS, CD, MP3, Blue Tooth technology; Centralized closing of the doors with remote control;

External sun visor.

Heated and electric powered rear view mirrors;

Long cab version with single bunk;

Beacon lights on top of the cab.

Roof hatch.



SERVICE DATA(I)

Engine oil sump and filters	28
Gearbox oil	13
Power steering oil	18
Cab tipping oil	
Transferer oil	10
Front axle with final red. oil	22,5
Intermediate axle with final red. oil	21,5
Rear axle with final red. oil	22,5
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, trailer turn indicators (if applicable), rotating lights, cab lifted, axles differential locked, differential lock, low front brakes air pressure, low rear brakes air pressure, low trailer brakes air pressure (if applicable), parking brake engaged, splitter (reduction on), slow speeds (1-4/9-12), power take-off on (if applicable) air filters clogged, low power steering oil level, rear view mirrors heated (if applicable), ABS, trailer ABS (if applicable), main steering circuit failure, steering auxiliary circuit failure.

ASTRA Veicoli Industriali

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www. astraspa.com

DEALER

05 - 2015 A3502410

Characteristics and equipment are subject to changes without prior notice.

/ ASTRA

Technical data and general specifications - validity to be checked according to each individual country



Tractor 6x6

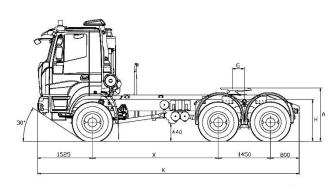


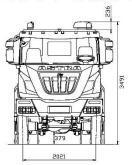


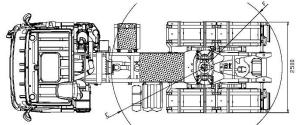
EURO 3



tractor 6x6 66.38T / 66.42T / 66.44T / 66.48T / 66.54T









DIMENSIONS (mm)

х	к	G (1)	E (1)	F (1)	Н А (2)		(2)	TURNING DIAMETER	
					unloaded	loaded	unloaded	loaded	(wall to wall)
3500	7275	300	2670						17400
3800	7575	300	2970	2170	1252	1189	1572	1509	18300
4100	7875	300	3270						19300

(1) Standard fifth wheel position. Other positionings are possible, subject to Astra technical office approval. In case of different positioning the GVW of the vehicle may change. (2) With swivelling fifth wheel: +100 mm.





WEIGHT (kg)

	Distri	Distribution net weight (*)							
х	1 st axle	2 nd +3 rd axle	Net weight						
3500	5430	5418	10848	İ					
3800	5470	5413	10883] {					
4100	5504	5406	10911]					

Max technical weight									
1 st axle	2 nd +3 rd axle	Gross Vehicle Weight	Fifth Wheel	Gross Combination Weight					
8000 (1)			29152						
9000 (1) (2)	32000 (2)	40000 (2)	29117	121500					
10000 (3)	25 10	99588	29089]					

- (*) Weight including oil, fuel, spare wheel, driver Kg.75, with 13R22.5 tyres. (1) With tyres on front axles 385/65R22.5 or 325/95R24 and reinforced springs (OPT).
- (2) With tyres 325/95R24 or max speed limited to 70 km/h depending on tyre type and brand.
- (3) With Kessler front axle and max speed limited to 70 km/h, depending on pneus type and brand.

Higher speeds are allowed with load reductions subject to Astra technical office approval.

Other tyres available, subject to Astra technical office approval.

Technical data and general specifications - validity to be checked according to each individual configuration





7-2016 **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.

10	66.38T	66.42T	66.44T	66.48T	66.54T*			
Model	CURSOR 13	CURSOR 13	CURSOR 13	CURSOR 13	CURSOR 13			
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 rpm						
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	*	1.000-1.690 rpm						
Turbine	WG Was	te Gate	VGT Variable Geometry Turbine					

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



Manual ZF Ecosplit 4 technology gearbox with servoshift, 16 synchronised forward speeds + 2 reverse: **ZF16S2220TO**: HD9 66.38T / HD9 66.42T

ZF16S2520TO: HD9 66.44T / HD9 66.48T / HD9 66.54T

ZF16S2320TD: HD9 66.38T / HD9 66.42T / HD9 66.44T / HD9 66.48T

ZF ASTRONIC 16AS2630TO: HD9 66.42T / HD9 66.44T / HD9 66.48T / HD9 66.54T ALLISON HD4700: HD9 66.44T / HD9 66.48T / HD9 66.54T (wheelbase >= 4100 mm) ZF WSK440 + 16S251: HD9 66.54T (wheelbase >= 3800 mm)

				Speed [kph] calculated at maximum power rpm																	
				Gears																	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	RM	RM
	Gear 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	
	_ <	j.	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
0		2	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
20	axle r	Ster	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
16S2520TO	r ax	transfer	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
9	ear	WIED	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
1. 1.	- 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
ا ف	Gea		Gear ratios		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
ZF 16S2220TO		و	3.793	4.7	5.6	6.8	8.1	9.9	11.8	14.1	16.9	21.3	25.5	31.0	37.0	45.0	53.7	64.4	76.7	5.0	6.0
S22	 	=	4.229	4.2	5.0	6.1	7.3	8.8	10.6	12.6	15.1	19.1	22.8	27.8	33.2	40.4	48.1	57.8	69.0	4.5	5.4
19	axle r	Ste	5.009	3.5	4.2	5.1	6.1	7.5	8.9	10.7	12.8	16.1	19.3	23.4	28.0	34.1	40.6	48.8	58.0	3.8	4.5
12	r ax	ā	5.558	3.2	3.8	4.6	5.5	6.7	8.0	9.6	11.5	14.6	17.4	21.1	25.3	30.7	36.6	43.9	52.3	3.4	4.1
	ear	with transfer	6.095	2.9	3.5	4.2	5.1	6.1	7.3	8.8	10.5	13.3	15.8	19.3	23.0	28.0	33.4	40.1	47.7	3.1	3.7
	F	₹	6.588	2.7	3.2	3.9	4.7	5.7	6.8	8.1	9.7	12.3	14.7	17.8	21.3	25.9	30.9	37.1	44.1	2.9	3.4

^(*) 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			
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, unit pumps for concrete, pumps for cranes, etc.		
ZF NH/4c	1.17/1.40:1	430	For tipping unit pumps, etc.		
ZF N221/10B-PL + NL/1c	1.75/2.09:1+0.91/1.09:1	560+600	double PTO for concrete pumps		

ZF NMV 221 Power take-off (ratio 1.55:1) max available torque 1300 Nm for concrete pumps.

ZF NMV 221 Power take-off (ratio 0.98:1) max available torque 2000 Nm for concrete pumps.

Multipower power take-off (ratio 1.29:1) max available torque 900 Nm for concrete mixers.

Parker Chelsea 870 XAF power take-off (ratio 1.67:1) max available torque 908 Nm for Allison gearbox.

Parker Chelsea 870 XBF power take-off (ratio 1,56:1) max available torque 854 Nm for Allison gearbox.

Technical data and general specifications - validity to be checked according to each individual configuration



6×6

Tractor





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"



TRANSFER BOX

Mechanical with two ratios. Helical spur gears, mounted on three propeller shafts, engaged with each other. Lockable differential by pneumatic control from driver seat.

	380 / 420 / 440 / 480 HP	540 HP
Model	IVECO TC2200	STEYR VG2700
Transmission ratio	1:1 - 1:1.6	1:0.913 - 1:1.407
Front/rear torque distribution ratio	1:2.2	1:2.6



1st axle driving and steering, with double reduction: central by bevel gear, final by planetary gear in wheel hubs.

On request:

Cross-axle differential lock.

Kessler front axle:

	Version	Max technical weight on 1ଃ axle (ton)	Available axle ratio		
		8			
	HD9 K	9 (with reinforced suspension)	5.01; 5.47;		
		10 (with reinforced suspension and steering system)	5.96; 6.28		

REAR:

Two driving axles in tandem, with double reduction: central with bevel gear, final by planetary gear in wheel hubs, interaxle and cross-axle differential lock. Tandem linked to the chassis by reaction rods with silentblocks.

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

1st axle, parabolic springs, 4 leaves 24x90 mm, with hydraulic shock absorbers.

Standard stabilizer bar.

On request:

Reinforced parabolic springs, 5 leaves 24x90 mm.

(Mandatory with 9t version).

REAR

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

On request:

Stabilizer bar on 2nd axle.

Stabilizer bar on 3rd axle.

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



Special steel with high tensile strength limit, two flat and parallel side members (width 820 mm.), C section (320x90x10 mm), cross members bolted to the frame.

R.B.M. (Rail Bending Moment): 202.020 Nm (20.593 Kgm.). Steel front bumpers with headlamp protection grids, front manoeuvring hook, steel fuel tank capacity 300 litres. Fifth wheel helper frame, spot and side alighting step. rubber mudguards on 2nd and 3rd axles.

On request:

Rapid pneumatic connection for tyre inflation.

Rear manoeuvring hook.

Fixed 3½" fifth wheel. Swivelling 3½" fifth wheel.

Front bumper climbing step. Side winch for spare wheel.



TYRES

13R22.5 156/150 K Single tubeless 13R22.5 156/150 K Twin tubeless REAR:

Spare wheel on the chassis.

Other possible combinations:

TYRES	ASSEMBLY				
ITRES	FRONT	REAR			
12.00R20 156/150G	S	D			
315/80R22.5 156/150K	5	D			
385/65R22.5 160J (*)	S				
315/80R22.5 156/150K		D			
325/95R24 162/160K (*) (**)	S	D			
12.00R24 160/156G (*)	5	D			
16.00R20 173G (*) (**)	S	S			
16.00R20 173G (*) (**)	S				
24R20.5 176F		S			
24R20.5 176F (*) (**)	S	S			
14.00R20 164G (*) (**)	S	S			
14.00R20 164/160G (*) (**)	S	D			
395/85R20 168G (*) (**)	S				
525/65R20,5 173F		S			
395/85R20 168G (*) (**)	S	S			

S single

D double

(*) Mandatory with 9 ton front axle load.

(**) Mandatory with 10 ton front axle load.

Other tyres available, subject to the 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 drum brakes, Duo-Duplex with automatic slack adjuster.

ABS + EBL system.

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



7-2016 **ENGLISH**

Technical data and general specifications - validity to be checked according to each individual configuration



دفتر مرکزی: تهران، ضلع شمال غربی تقاطع بلوار نلسون ماندلا ومیرداماد، پلاک ۳۰۹ کد یستی: ۱۹۶۹۶۳۳۸۷۴



Emergency brake: Integrated in service brake.

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

IVECO BRAKE TURBO engine brake:

HD9 380/420 HP braking power 255 kW (342 HP). HD9 440/480/540 HP braking power 300 kW (402 HP).

On request:

Hydraulic intarder (only for AS-Tronic gearbox)

1st axle immobiliser system.

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

Front and rear "simplex" brakes NO ABS (only for manual gearbox w/out Intarder, engine power up to 420 HP). Front and rear "duo duplex" brakes NO ABS (only for manual gearbox w/out Intarder).



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. Height and inclination mechanical adjustable steering wheel.



SERVICE DATA(I)

Engine oil sump and filters	
Gearbox oil	14.5
Power steering oil	
Cab tipping oil	1
Clutch circuit oil	0.5
Integral PTO oil	3
Transferer oil 66.38-66.42-66.44-66.48	6.5
Transferer oil 66.54	13
Front axle with final red. oil	6.5
Intermediate axle with final red. oil	27
Rear axle with final red. oil	16
Cooling system water	33
Diesel	



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 electrical circuit breaker.

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

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

225 Ah accumulators.

Reverse alarm.



CAB

Standard white short cab (AD) built in galvanized pressed steel with hydraulic tilting up to 60°. 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.

Mechanical rear view mirrors, wide angle mirrors and front view mirror. 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, MP3 Bluetooth technology.

External sun visor.

Extra colour cab: to be specified in the order.

Heated and electric powered rear view mirrors.

Long cab (AT) with interior

equipment (seats and beds) on request.

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.



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

Characteristics and equipment are subject to changes without prior notice.

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