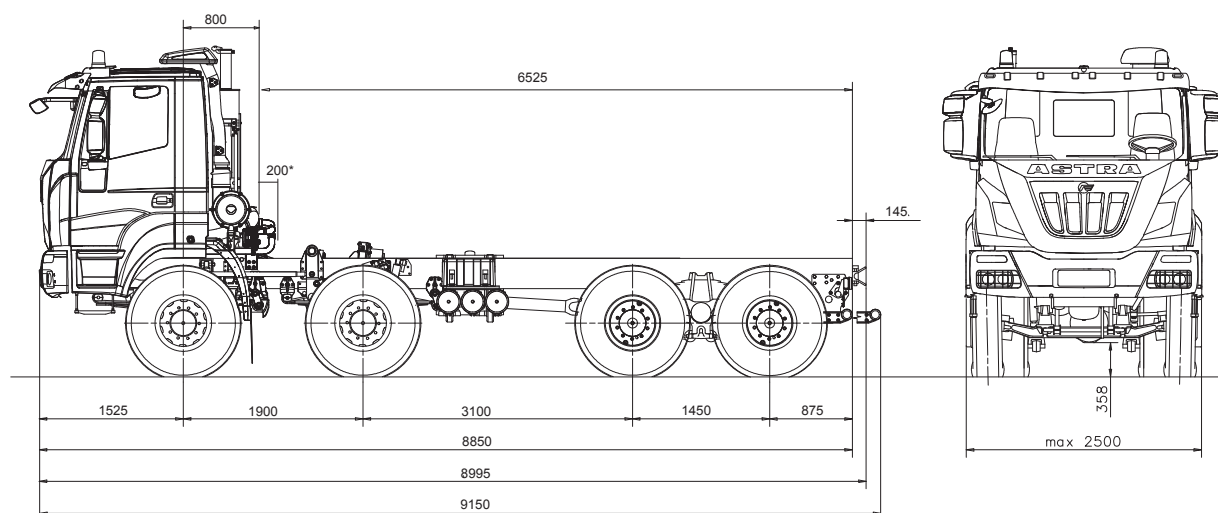


chassis 8x4
84.44 / 84.48 / 84.54



(*) Automatic transmission oil cooler



DIMENSIONS (mm) short cab (Tyres 325/95 R24)

X	K1	K2	M max (*)	S	S ON REQUEST	H		TURNING DIAMETER	
						unloaded	loaded	sidewalks	wall to wall
3100	9175	9475	7150	1200	875/1500	1194	1129	19800	21500

(*) M max.: indicative value to be confirmed by bodybuilder.



WEIGHT (kg)

Distribution net weight (*)			NET WEIGHT	Max technical weight		
X	1 st + 2 nd axle	3 rd + 4 th axle		1 st + 2 nd axle	3 rd + 4 th axle	Gross Vehicle Weight
3100	6800	4600	11400	18000	40000 (**) 43000 (***)	56000(**) 60000 (***)

(*) Weight including oil, fuel, spare wheel, driver Kg.75

(**) At 70 Km/h.

(***) At 40 Km/h.



ENGINES

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.

	84.44	84.48	84.54
Model	IVECO F3B	IVECO F3B	IVECO F3B
Max power (EEC)	324 kW (440 cv)	353 kW (480 cv)	397 kW (540 cv)
Corresponding rpm	1.900		
Max torque (EEC)	2.100 Nm (214 kgm)	2.200 Nm (224 kgm)	2.350 Nm (239 kgm)
Corresponding rpm	1.000-1.440		1.000-1.690
Turbine	VGT variable geometry		



GEARBOX

On request:

ZF ASTRONIC 16AS2630 TO

ALLISON 4700 automatic transmission with or w/out interarder with closed loop adaptive shift, 7 forward speeds + 1 reverse. 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

(*) Max speed 70 Km/h.



P.T.O. CHELSEA for automatic Allison transmission

On request:

Gearbox	Allison 4700	Mx. Torque	Application
P.T.O.	Ratio	Nm	
859 XGF JP-5	1,08:1	780	For higher performance, 30t windlass...
277 XGF JP-D5XY	1,47:1	407	For standard application, tipping unit pumps, cranes, ecc...



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.

Onrequest: Ceramic clutch 17"



AXLES

FRONT

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

REAR

Kessler driving axles in tandem for **max. technical weight 43.000 kg**. Double reduction: central with bevel wheel and final in hubs by means of epicycloidal assembly.

2nd axle with torque distributor to the two rear axles.

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

Rear-axle ratio 1:7,29.



SUSPENSIONS

FRONT

1st and 2nd axle, parabolic springs, n° 3 leaves 26x90 mm, shock absorbers and standard stabilizer bars.

REAR

Parabolic springs, swivelling on central pin: n° 5 leaves 40x100 mm, torque bars and stiffening brackets. Standard stabilizer bars.



CHASSIS

Special steel with high elasticity limit, two flat and parallel side members width 820 mm., C section 320x90x10mm, cross members riveted to the frame. Internal frame reinforcements 298x76x6mm. R.B.M. (Rail Bending Moment) 300.120 Nm (30.603 Kgm).

Steel front bumpers with headlamp protection grids, front manoeuvring hook, rear underrun bar, rubber mud-guard 2nd axle, steel fuel tank capacity 300 litres.

Onrequest:

Rapid attachment for compressed air for tyres'inflation.

Rear underrun bar in set back position.

Extra long underrun bar for concrete mixer.

Front bumper climbing step.

Rear manoeuvring hook.

Rear automatic towing hook.

Rubber mudguards on 3rd and 4th axle.

Side windlass for spare wheel (wheelbases 2350 and 2850 excluded)



TYRES

FRONT : 325/95R24 162/160 K Single tubeless

REAR: 325/95R24 162/160 K Twin tubeless

Spare wheel on the chassis.



STEERING

ZF 8099 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.



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).



BRAKES

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

Total net braking surface 12.368 cm².

ABS system.

Service brake: Pedal controlled air brake, acting on all wheels. Solo vehicles, two independent circuits, one for 1st and 2nd axle, one for 3rd and 4th axle.

Towing vehicles, three independent circuits, one for 1st and 2nd axle, one for 3rd and 4th axle and another for the trailer.

Emergency brake: Incorporated in service brake.

Parking brake: Mechanical spring-type with pneumatic control acting on 3rd and 4th axle wheels.

IVECO BRAKE TURBO engine brake:

HD9 440/480 HP braking power 295 kW (408 HP)

Onrequest:

Hydraulic retarder.

1st axle immobiliser system.

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



ELECTRICAL SYSTEM

Voltage: 24 V
 Alternator generator 90 A - 28 V (2520 W).
 Accumulators: 2 in series, 170 Ah tropicalised.
 Starter motor 24 V 5,5 kW.
 Mechanically controlled electrical circuit breaker.
 Phonic wheels and sensors on 1st and 3rd axle.
 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 bodybuilders.
 Provision for diagnostics.
 Provision for radio/cb (without speakers)
 Glow plug for cold start.
On request:
 Reverse alarm.



CAB

White cab built in galvanized pressed steel with hydraulic tilt - ing 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 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.
 Heated and electric powered rear view mirrors.
 Remote controlled and centralized closing of doors.
 Roof hatch.
 Rotating lights on top of the cab.



SERVICE DATA(I)

Engine oil sump and filters	28
Gearbox oil ZF16S2220TO/ZF16S2520TO:.....	13
Power steering oil.....	18
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, trailer turn indicators (if applicable), rotating lights, 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), ABS, trailer ABS (if applicable), main steering circuit failure, steering auxiliary circuit failure.