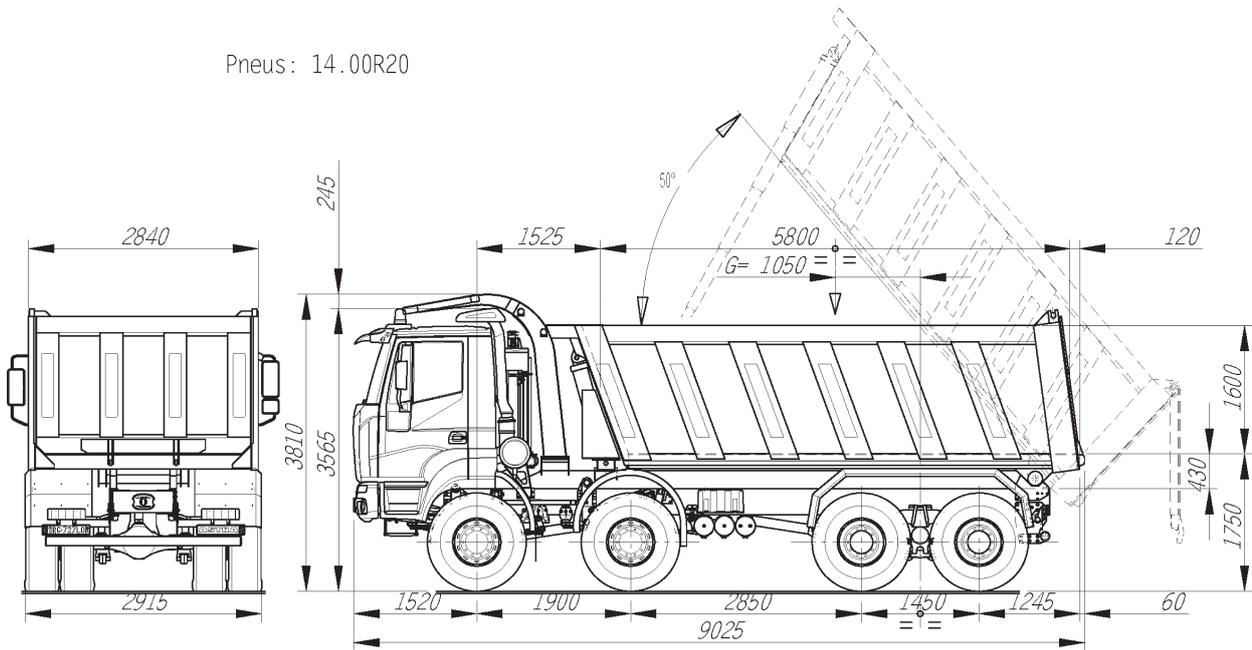


**Heavy - Heavy Duty**

**G.V.W. 63.000 kg**
**chassis 8x6  
86.48 / 86.54**

Pneus : 14.00R20


**DIMENSIONS (mm) short cab**

| WHEELBASE | TOTAL LENGHT | BODY LENGHT | OVERHANG | OVERHANG opt | TOTAL HEIGHT |
|-----------|--------------|-------------|----------|--------------|--------------|
| 2850      | 9025         | 6645        | 1200     | 875/1500     | 3810         |


**WEIGHT (kg)**

| WHEELBASE | Distribution net weight (*)            |  |            | Max technical weight                   |  |                      |                          |
|-----------|--|--|------------|--|--|----------------------|--------------------------|
|           | 1 <sup>st</sup> + 2 <sup>nd</sup> axle | 3 <sup>rd</sup> + 4 <sup>th</sup> axle | NET WEIGHT | 1 <sup>st</sup> + 2 <sup>nd</sup> axle | 3 <sup>rd</sup> + 4 <sup>th</sup> axle | Gross Vehicle weight | Gross Combination Weight |
| 2850      | 8650                                   | 4920                                   | 13570      | 21000                                  | 42000                                  | 63000 (**)           | over 250 ton             |

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

(\*\*) At max speed 40 Km/h.

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


**EURO 3**




## ENGINES

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 cm<sup>3</sup>. Bore for stroke: 135 x 150 mm. Water cooling. Viscostatic cooling fan. Dry air filter with safety cartridge. Vertical muffler.

|                   | 86.48                 | 86.54              |
|-------------------|-----------------------|--------------------|
| Model             | FPT Cursor F3B        | FPT Cursor F3B     |
| Max. power (EEC)  | 353 kW (480 HP)       | 397 kW (540 HP)    |
| Corresponding rpm | 1900                  | 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 |                    |



## GEARBOX

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

|                   |  | Speed [kph] at maximum power rpm - Tyres 14.00R20 |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|-------------------|--|---|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|                   |  | Gears   |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|                   |  | 1   | 2     | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | RM1   | RM2   |
| ZF 16 S<br>2520TO | 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 |
|                   | Rear axle ratio with transfer 1:1.0<br>1:1.7,290 | 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: **ZF Astronic 16 AS 2601 TO** semi-automatic transmission (16+2 speeds).

Automatic gearbox **Allison 4700** with closed loop adaptive shifts, 7 forward speeds + 1 reverse.

Torque converter TC-561. Stall torque ratio 1.58. Cab-mounted shift selector lever.

Hydraulic retarder on request.

| 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 |



## P.T.O.

| Gearbox             | 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, 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...  |
| ZFN221/10b+PL+NL/1c | 1,75/2,09:1+0,91/1,09:1 | 560+600    | Double PTO for concrete pumps   |



## P.T.O. CHELSEA only for automatic gearbox Allison 4700

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

**On request:** 17" ceramic clutch.



## 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.

Transmission ratio: 0:913 - 1,407

Front torque distribution ratio: 1,0

Rear torque distribution ratio: 2,6



## SUSPENSIONS

### FRONT

1<sup>st</sup> and 2<sup>nd</sup> parabolic springs with bushings, 4 leaves 24x90 mm. Hydraulic shock absorbers and standard stabilizer bars.

### REAR

Parabolic springs, swivelling on central pin: 5 leaves 40x100 mm. Supplemented by torque bars and stiffening brackets. Stabilizer bar on the 3<sup>rd</sup> and 4<sup>th</sup> axle.



## AXLES

### FRONT

1<sup>st</sup> axle: KESSLER, steering type; with dual reduction, central with pinion-crown wheel, side by means of epicycloidal assembly in wheel hubs.

2<sup>nd</sup> axle: KESSLER dead steering axle.

### REAR

3<sup>rd</sup> + 4<sup>th</sup> axle: KESSLER drive axles in tandem.

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

3<sup>rd</sup> axle with distributor for the torque distribution between the two axles.

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

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.M.B. (Rail Bending Moment): 202.020 Nm (20.593 Kgm). Chassis reinforcements 298x76x6mm. Front bumpers in steel with headlamp protection grids, front manoeuvring hook, rear underrun bar, steel fuel tank, capacity 300 litres.

### On request:

Rapid attachment for compressed air for tyres' inflation.

Rear underrun bar in set back position.

Rear manoeuvring hook.

Rear automatic towing hook.

Rubber mudguards on 2<sup>nd</sup> and 3<sup>rd</sup> axle.

Front bumper climbing step



## STEERING

Hydraulic power steering ZF 8099 with variable ratio 1:22.2/1:26.2, with 3 auxiliary cylinders mounted on axles. Hydraulic pumps flanged to engine.

Steering linkage with self lubricating floating joints.

Emergency steering pump on transfer box.

Mechanically adjustable steering wheel for height and angle.



## TYRES

**FRONT:** 14.00R20 Pirelli PS 22 Single tubeless

**REAR:** 14.00R20 Pirelli PS 22 Twin tubeless

Spare wheel on the chassis.

**Optional:** MICHELIN 325/95R24 (front and rear)



## 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 disc brakes, rear "duo-duplex" self-adjusting wedge type brakes with automatic play take-up. Anti-block system ABS.

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

Solo vehicles: two independent circuits, one for 1<sup>st</sup> and 2<sup>nd</sup> axle, one for 3<sup>rd</sup> and 4<sup>th</sup> axle.

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

Emergency brake: integrated in service brake.

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

IVECO BRAKE TURBO engine brake:

braking power 295 kW (408 hp)

### On request:

Hydraulic interarder.

1<sup>st</sup> + 2<sup>nd</sup> axle immobiliser system.

OFF/ROAD button for excluding ABS



## ELECTRICAL SYSTEM

Voltage: 24 V

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

Accumulators: 2 in series, 170 Ah.

Starter 24 V 5,5 kW.

Mechanically controlled electrical circuit breaker.

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

Phonic wheels and sensors on 1<sup>st</sup> and 3<sup>rd</sup> axle.

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

1 electrical joints 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:

220 Ah accumulators;

170 Ah tropicalised accumulators;

Reverse alarm;

Electrically controlled main current circuit breaker.





## CAB

White cab built in galvanized pressed steel with hydraulic tilting up to 60°. Tested on the most demanding off road routes. 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 belt. Mechanical passenger seat with seat belts.

### On request:

Additional central seat;

Air conditioning with anti-pollen filter;

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;

Roof hatch.



## 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.



## SERVICE DATA(I)

|  |      |
|--|------|
| Engine oil sump and filters .....          | 28   |
| Gearbox oil .....                          | 13   |
| Power steering oil .....                   | 18   |
| Cab tipping oil .....                      | 1    |
| 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  |

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### DEALER

Characteristics and equipment are subject to changes without prior notice.



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