

- Engine
- Power
- G. V. W.
- Payload
- Body heaped (SAE 2:1)
- Iveco Cursor 13
- 335kW (455 HP)
- 66.000 kg

 $22 \, m^3$ 

37.000 kg (40 Sht)

ENGLISH 02-2009



#### **ENGINE**

6 in-line cylinder Diesel cycle, electronically-controlled direct injection, pump injectors, variable geometry turbocharger with intercooler. Emissions: ..... EPA - CARB - OFF ROAD TIER 3 Make and type: ...... IVECO CURSOR 13 Air filter: ...... dry, with double cartridge Cold start - 25° C



#### **PERFORMANCE**

#### With standard 29.5R25 tyres

gear	gear ratio	speed (km/h)				
1	5,350	5,9				
2	3,455	9,1				
3	2,206	14,3				
4	1,421	22,2				
5	0,969	32,6				
6	0,624	50,6				
1stRG	5,350	5,9				
2 <sup>nd</sup> RG	2,206	14,3				
3 <sup>rd</sup> RG	0,969	32,6				



# **TRANSMISSION**

Automatic ERGOPOWER ZF 6WG 310 transmission with 6 gears forward and 3 reverse.

ECO (energy saving) and POWER (performance boosting) selectable

Hydraulic torque converter, multiplication ratio(stall torque): ...... 1: 1,84 Lock-up in all gears.

Hydraulic retarder max. braking power 242 kW @ 2100 rpm. Integrated and lockable transfer box.

Integrated front differential with limited slip.



#### **AXIFS**

Permanent 6x6 drive configuration, 2<sup>nd</sup> and 3<sup>rd</sup> axle ZF MT-D3105. Double reduction: central by bevel gear and final by planetary gears in wheel hubs. Lockable rear interaxle

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Central reduction ratio:	1 : 3,5
Final reduction ratio:	1:6,353
Total reduction ratio:	1:22,24
Floating front axle with outboard planetary reduction gearing	(1:6) and



Rim:	 	 	 	 	 				25x	22x3"
Tyres:				 	 2	29,5	R25	Triano	gle T	B 516
	~~	 								

**Optional:** 29,5 R25 Michelin



#### STEERING

Complies with ISO 5010, SAE J 1511

Hydraulic steering (ORBITROL) with flow amplifier integrated by two double-acting cylinders operating on the articulating hitch.

Variable displacement pump.

Pump flow: ...... 331 l /min. @ 2300 rpm Radial piston emergency pump flanged to gearbox and ground driven Adjustable steering column/steering wheel.

Steering angle: ± 45°



#### **BRAKES**

Independent circuit complyng with ISO 3450.

Oil-cooled wet multiple disc brakes, with engine powered gear pump

Parking brake: ..... pneumatically controlled disc on rear tandem. Electronic integrated Engine Brake and hydraulic retarder engagement when the accelerator pedal is released (exclusive Astra system). Max braking force 396 kW @ 2100 rpm.



#### SUSPENSIONS

Front: semi-independent, with "A" frame and PANHARD crossbar Hydro-pneumatic suspension cylinders (oil-nitrogen).

**Rear:** semi-independent rocker type, connected to axles by flexible joints and integrated with central reaction bars on axles.

**Optional:**front suspension inflation kit.



### **ELECTRICAL SYSTEM**

Two batteries:	12 V / 170 Ah
Voltage:	24 V
Alternator:	90 A
Starter:	5 kW

All wires are coded, covered and fastened to the chassis. CAN bus Simple-Mux system allowing the communication between engine control unit (ECU), gearbox and Body Computer. New cluster with high definition multifunctional color display. New Black Box able to manage 140 records for each memory area.

**Optional**: Rear view camera with cluster integrated display.

gearbox integrated differential.



#### HYDRAULIC SYSTEM

4 pumps, circuit: "load sensing" system with variable displacement pump flanged to gearbox for steering and tipping. One engine-driven pump for brake actuation, connected in series with 2 pumps for brake cooling with displacement electronic control. (Exclusive Astra System)



#### **BODY**

Walls and bottom in high abrasion strength steel (Hardox 400).  Bottom thickness:
Side wall thickness:
Front wall thickness:
Lifting by two double-acting hydraulic cylinders with sections
installed inside chassis members.
Elastic pads between body and chassis.
Tipping angle:
Tipping time: 11 sec
Lowering time:
Automatic body tipping control system.
Capacity:
struck:
heaped (SAE 2:1):
Optional:
Reinforced "semi-rock" body: "Extra Heavy Duty" body for extreme

Reinforced "semi-rock" body; "Extra Heavy Duty" body for extreme applications; body extensions; body heating kit; rear tailgate; body front spillguard.



#### **INSTRUMENTS PANEL**

On-board computer with digital/analogic instrumentation and performance/fault messages to manage all vehicle operating information (levels, warning lights, etc.). Advanced vehicle diagnostic system: management and storage of engine, transmission, steering system, brakes, body tipping and pneumatic system data.

Trip Computer to analyse vehicle productivity.

External level gauges on fuel, hydraulic oil and brake cooling oil tanks. **Optional**:

Electronically controlled transmission and brake oil warm-up system for quick start-up in cold weather (exclusive ASTRA system).



## **GREASING SYSTEM**

Automatic programmable and central greasing system with grease gauge on dashboard.



#### CAB

Complies with ROPS ISO 3471 / FOPS ISO 3449 level II.

Stainless steel, soundproof and centrally installed, suspended through oil-rubber pads;

Reverse gear buzzer;

Automatic climate control with anti-pollen filter;

Hydraulic engine hood and cab tipping system;

Athermic glasses:

Side mudguards with gullwing opening for maintenance;

Door with glazing in the lower part to give maximum visibility;

Tilting cab on the LEFT-side to facilitate extraordinary maintenance activities:

Fully adjustable air suspension central operator seat with safety belts; Instructor seat with belts:

Windscreen sunvisor.

#### **Optional:**

RDS radio;

Electrical engine hood tipping system;

Fire-Extinguisher; Yellow rotating beacon;

Work lights on top of the cab;

Refrigerator;

Remote-controlled heated rear view mirrors;

Side window wipers;

Rear view camera.



#### **CHASSIS**

Front and rear chassis made of high strength steel (ST 52.3) with extruded (non-welded) rectangular side members linked by bracing crossmembers.

Oscillating hitch: two rows ball bearing with double lip sealing.



## **FLUID CAPACITIES**

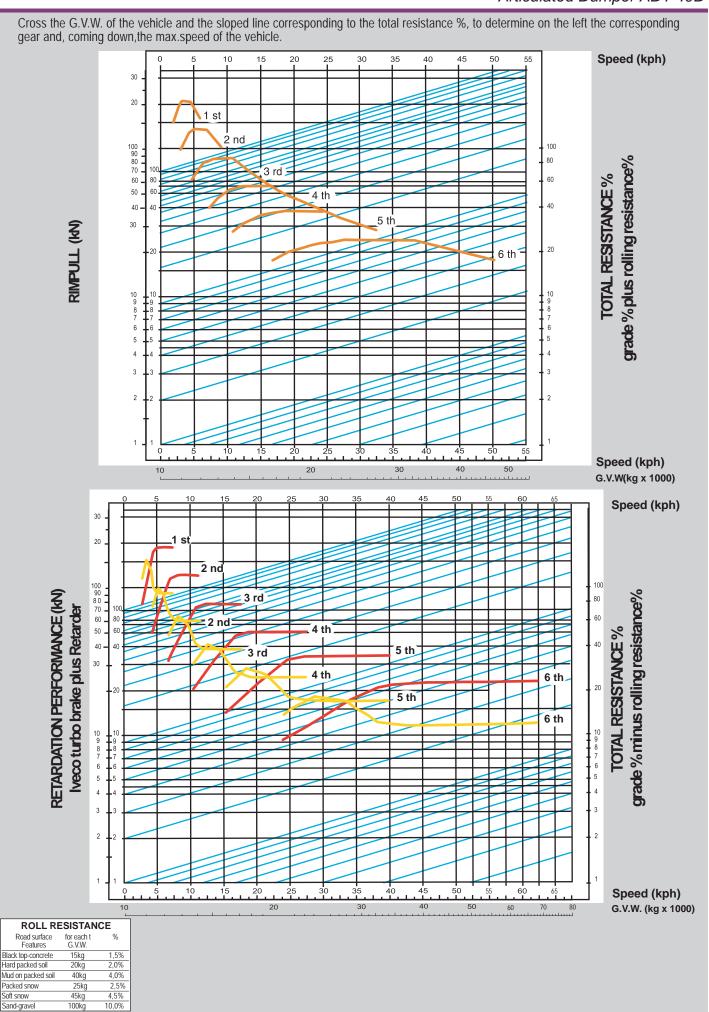
Refer to the use and maintenance manual for fluids specifications.							
Engine oil and filter:	35 I	9.2 US G	als				
Transmission oil and filter:	35,5 I	9.4 US G	als				
Cooling system:	47 I	12.4 US G	ials				
Fuel tank:							
Front differential:	14	3.7 US G	als				
Intermediate axle:	34 I	9.0 US G	als				
Rear axle:							
Hydraulic tank:	240 1	63.4 US G	als				
Hub oil (per hub):							
Brakes cooling oil:	90 I	23.7 US G	ials				

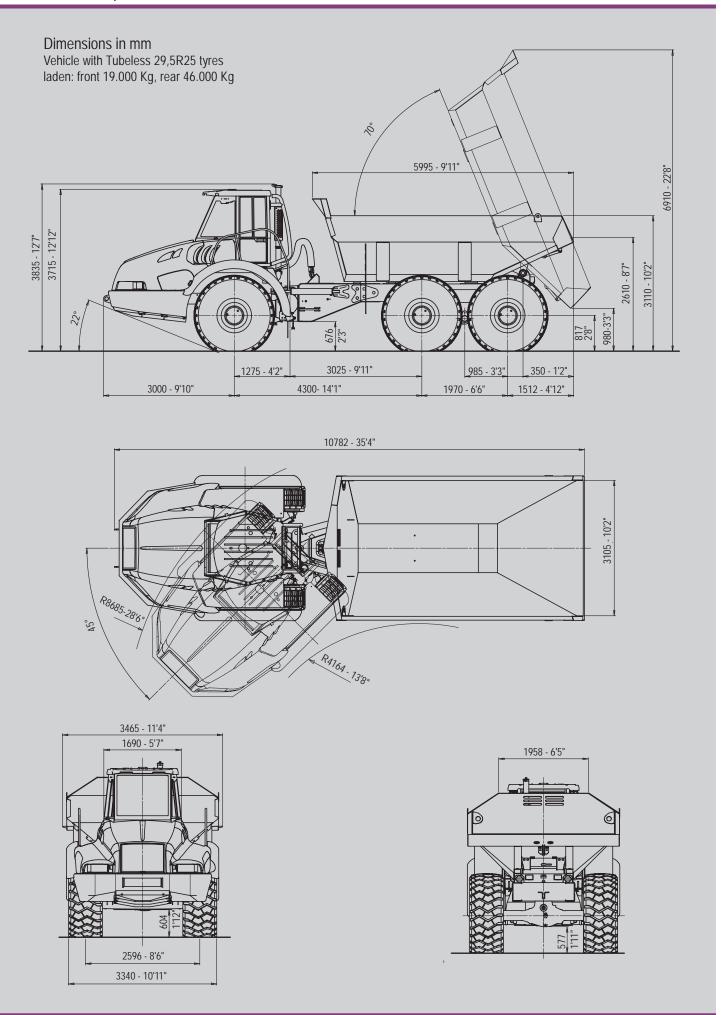


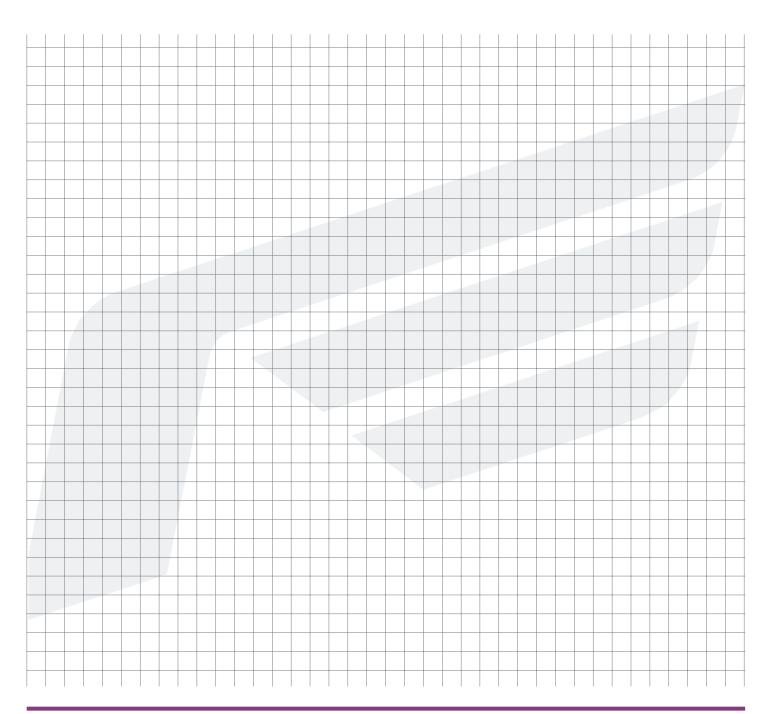
# **WEIGHT** kg

		RE (*)		_OAD	TOTAL WEIGHT (G.V.W.)		
	Kg lb		Kg	lb	Kg	lb	
Front axle	14.340	31.614	4.960	10.935	19.300	42.549	
Rear axles (tandem)	14.660	32.320	32.040	70.636	46.700	102.956	
Total	29.000	63.934	37.000	81.570	66.000	145.505	

<sup>\*</sup> Tare includes fuel, lubricants and driver (75 kg)







Features and equipment subject to change without notice

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