

- **Engine** Iveco Cursor 10 **TIER 3**
- **Power** 260 kW (353 HP)
- **Transmission** Automatic
- **G.V.W.** 50.730 kg
- **Payload** 28.160 kg (31 Sht)
- **Body heaped (SAE 2:1)** 17,6 m³

ADT 30C

Articulated Dumper 6x6

ENGLISH
03-2007



ENGINE

6-cylinder in-line Diesel cycle, electronically-controlled direct injection, pump injectors, turbocharger with intercooler, variable geometry turbine. Emissions – EPA – CARB / OFF ROAD TIER 3

Make and type: IVECO CURSOR 10, Tier 3 certified
 Bore x stroke: 125x140 mm(4.92x5.51 in)
 Total displacement: 10300 cm³
 Max power: 260 kW (353 HP) @ 1900 rpm
 Max torque: 1650Nm (168 kgm) @ 1140 rpm
 Integrated engine brake: Iveco Turbo Brake
 Air filter: dry, with double cartridge and cyclone prefilter
 Cold start - 25° C



PERFORMANCE

With standard 23,5R25 tyres

| gear | gear ratio | speed (km/h) |
|--------------------|------------|--------------|
| 1° | 5,350 | 5,4 |
| 2° | 3,446 | 8,4 |
| 3° | 2,206 | 13,2 |
| 4° | 1,421 | 20,5 |
| 5° | 0,969 | 30,0 |
| 6° | 0,624 | 46,6 |
| 1 st RG | 5,350 | 5,4 |
| 2 nd RG | 2,206 | 13,2 |
| 3 rd RG | 0,969 | 30,0 |



TRANSMISSION

Automatic ergopower ZF 6WG260 drive transmission with 6 gears forward and 3 reverse.

Hydraulic torque converter, multiplication ratio(stall torque): 1:2,08
 Lock-up clutch in all gears.

Return box with epicycloidal differential incorporated (torque's distribution deviceripartitore) which can be locked from the steering place.

Torque to front axle: 33,3%

Torque to rear axles: 66,7%

Optional:

Integrated hydrodynamic retarder.

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

Front integrated self-locking differential.



AXLES

Permanent 6x6 drive configuration, 2nd and 3rd axle Kessler D81.

Double reduction: central with bevel gear and epicycloidal gears in wheel hubs.

Floating front axle with epicycloidal gears in wheel hubs (1:6) and differential built-in gearbox.

Central reduction ratio: 1:3,5

Final reduction ratio: 1:6

Total reduction ratio: 1:21



TYRES

Interchangeable wheels with steel web 19.5/2,5" (n°6)

Tubeless tyres 23.5 R 25 Michelin XADN

Optional: Good Year / Bridgestone 23,5 R 25
 Michelin/Bridgestone 750/65 R 25



STEERING

Complies with ISO 5010, SAE J53

Hydrostatic steering (orbitrol) with hydraulic amplifier integrated with two double-acting cylinders with double effect operating on an articulated joint between the frames.

Centralized hydraulic pump: with gears

flow @ 2100rpm: 248 l/min

max.operating pressure: 185 bar(18,5 Mpa)

flow @ 1000 rpm: 32 l/min

Max. working pressure: 120 bars (12 Mpa)

Adjustable Steering column/steering wheel

Adjustable steering angle: ±45°



BRAKES

Independent circuit complies with ISO 3450 e SAE J 1473.

Dry disk on each wheel with duple heavy-duty caliper on front hubs.

Hydraulic control powered by self-limited gear pump and pressure's accumulators.

Service brake: two independent circuits (front/rear)

Emergency brake: incorporated in the service brake

Parking brake:pneumatic disc brake on the propeller shaft.

Iveco Engine Brake: Standard. Operator selectable application together with service brakes or when accelerator pedal is released (Exclusive Astra System). Electronic integrated management of Iveco Engine Brake and hydraulic retarder (OPT).

Optional: integrated hydrodynamic retarder, calipers protection

Frein moteur intégré puissance de freinage max:

à 2100 t/min 353 kW



SUSPENSIONS

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

Rear: semi-independent rocker type, connected to axles by flexible joints 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 motor: 5 kW

All wires are number coded, protected by sheaths and fastened to the chassis. CAN bus Multiplex system which allows the communication between motor's central system, change and Body Computer. Dash with multifunctional integrated graphic display.



CHASSIS

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

Chassis joined by fifth-wheel type articulated joint with double ball crown and double lip seal ball joints.



HYDRAULIC SYSTEM

The steering system's circuit and the overturning system are powered by a gear pump flanged to the gear and integrated with a cooled distributor.



GREASING SYSTEM

The 23 subject-to-wear-points are connected through a grease system.

Optional: centralized automatic greasing system which can be programmed, with lubricant's level gauge in the cab.



BODY

Walls and bottom in high abrasion strength steel (360-440 HB).

Elastic pads between body and chassis.

Bottom thickness..... 15 mm 0.590 in.

Front panel thickness..... 8 mm 0.315 in.

Side walls thickness 12 mm 0.472 in.

Lifting by two double-acting hydraulic cylinders, installed inside chassis members.

Tipping angle: 68°

Tipping time:

Rising 13"

Lowering 13"

Capacity:

struck 13,7 m³ 17,9 yd³

heaped (SAE 2:1) 17,6 m³ 23,0 yd³

Optional: Reinforced rock body; extra body side walls; body heater; tailgate; automatic body tipper control system.



EQUIPMENT

The equipment and the fittings depend on the requirements and laws of the different markets. The prices of the standard equipments and of the optional fittings are given in the local price lists.



WEIGHT Kg

| | TARE (*) | | PAYLOAD | | TOTAL WEIGHT (G.V.W.) | |
|---------------------|---------------|---------------|---------------|---------------|-----------------------|----------------|
| | Kg | lb | Kg | lb | Kg | lb |
| Front axle | 12.250 | 27.006 | 3.650 | 8.047 | 15.900 | 35.053 |
| Rear axles (tandem) | 10.320 | 22.751 | 24.510 | 54.035 | 34.830 | 76.787 |
| Total | 22.570 | 49.757 | 28.160 | 62.082 | 50.730 | 111.840 |

* Tare includes fuel, lubricants and driver (70 kg)



CAB

Complies with ROPS SAE J1040, ISO 3471/FOPS SAE J231, ISO 3449 Stainless steel, soundproofed and centrally mounted, suspended through oil-rubber bumpers.

Central driver's seat with universal adjustment and pneumatic suspension. Engine's bonnet with electrical overturning.

Athermic glasses.

Side mudguards with gullwing action.

Operating instrumentation and accessories .

Overturn on LEFT-side to facilitate the operations of extraordinary maintenance.

Automatic climate control with pollen filter.

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

Instructor's seat.

Windscreen sun screen.

Sound advisor reverse gear.

Optional: RDS radio, yellow rotary light, refrigerator, sound advisor reverse gear, reverse gear videocamera, Side window wipers, GPS, fire-extinguisher.



INSTRUMENTS

Onboard computer for managing all vehicle operational data (levels, overheat warning lights, unit anomalies, etc.).

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. Trip computer. Patent-pending exclusive ASTRA system.



FLUID CAPACITIES

Refer to the use and maintenance manual for fluids specifications.

Engine oil and filters 30,5 l 80.05 US Gals

Transmission and filters 41 l 10.03 US Gals

Cooling system 42 l 11.09 US Gals

Front differential 14 l 3.70 US Gals

Intermediate axle 35 l 9.25 US Gals

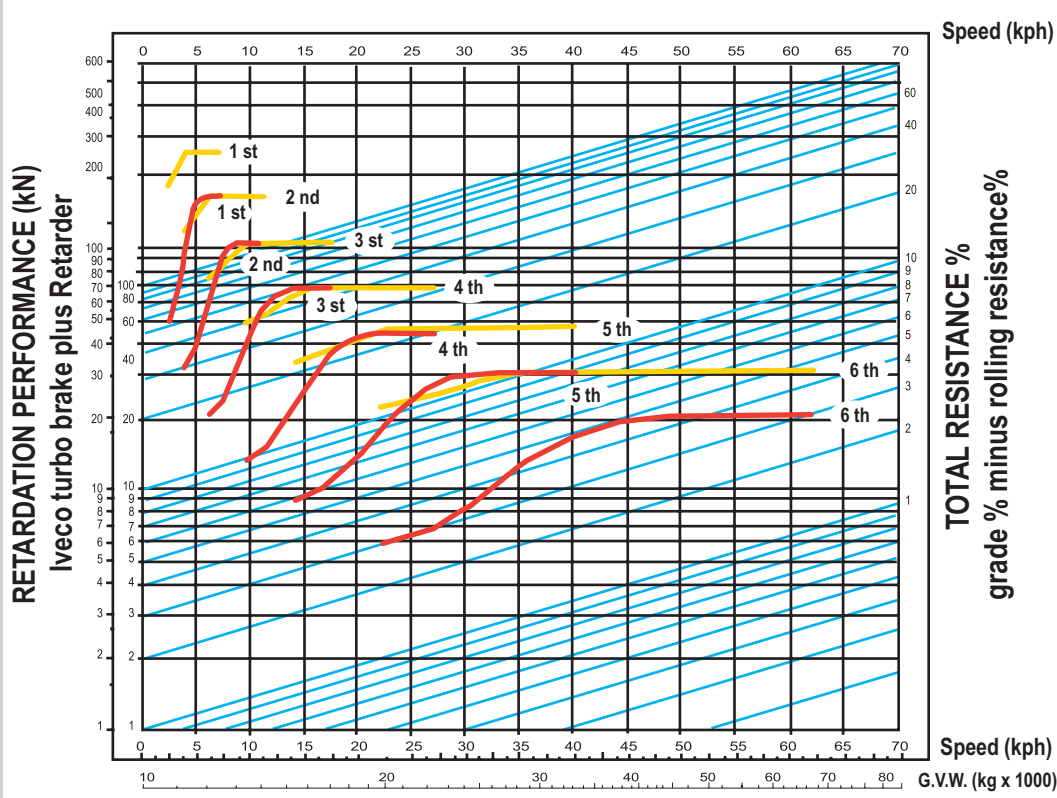
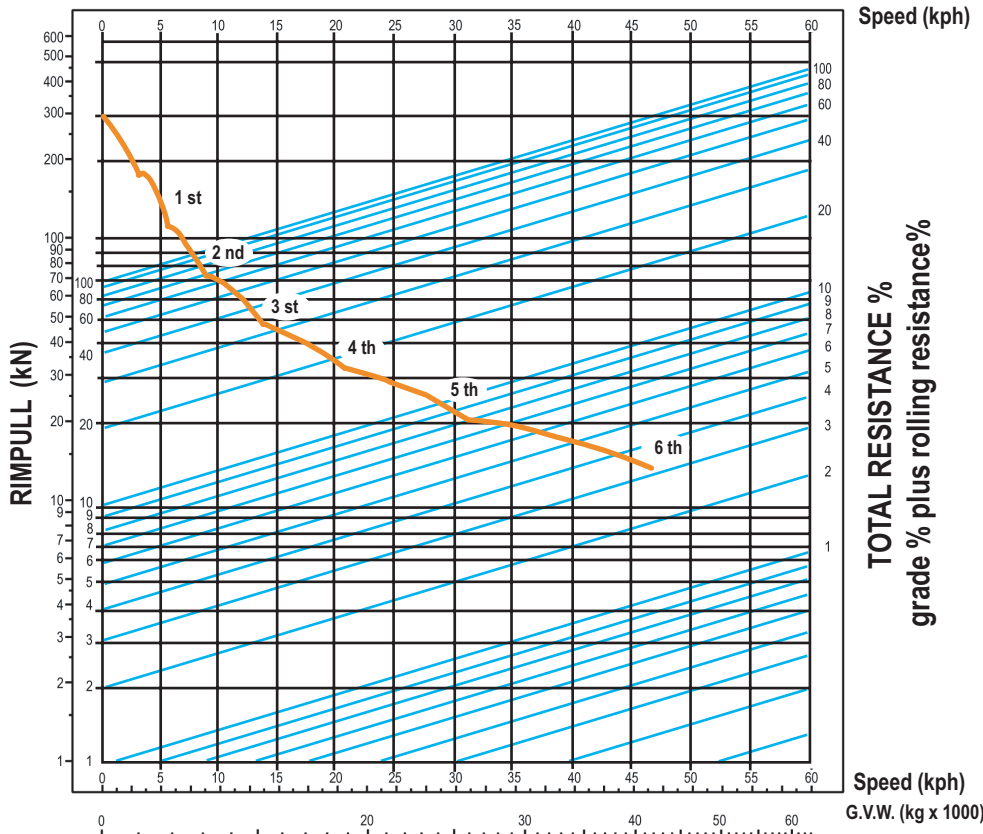
Rear axle 33 l 8.71 US Gals

Oil hub (each) 3 l 0.79 US Gals

Hydraulic tank 210 l 55.48 US Gals

Fuel tank 380 l 100.3 US Gals

From the meeting between the M.T.T. of the vehicle and the inclined line corresponding to the total resistance %, to the left to determine the corresponding gear and, coming down, the max. speed of the vehicle.



The curves in red refer to the motor's brake (STD); quelle in yellow, to the motor's brake plus retarder (OPT).

| Road surface Features | ROLL RESISTANCE for each t G.V.W. | % |
|-----------------------|-----------------------------------|-------|
| Black top-concrete | 15kg | 1,5% |
| Hard packed soil | 20kg | 2,0% |
| Excavated not compact | 30kg | 3,0% |
| Mud on packed soil | 40kg | 4,0% |
| Packed snow | 25kg | 2,5% |
| Soft snow | 45kg | 4,5% |
| Sand-gravel | 100kg | 10,0% |

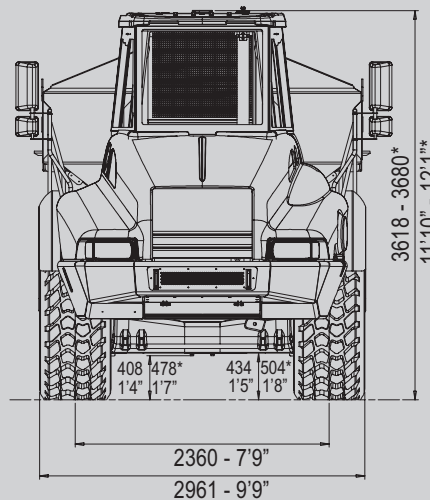
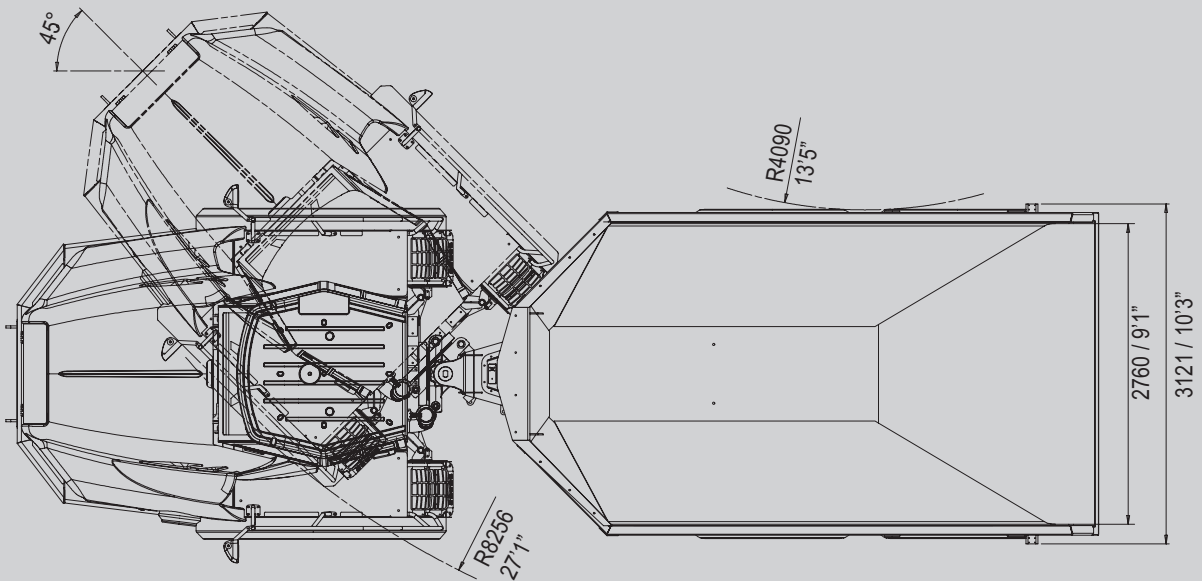
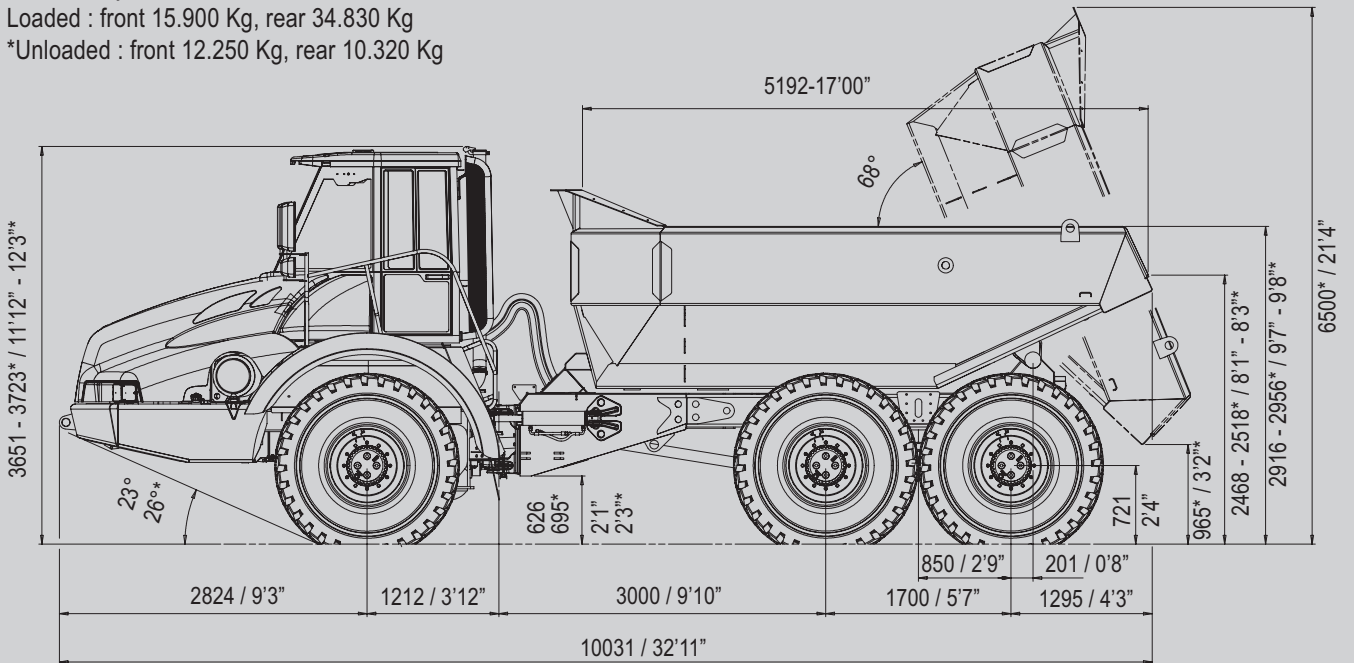
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Dimensions in mm

Tubeless Tyres Michelin 23,5R25

Loaded : front 15.900 Kg, rear 34.830 Kg

*Unloaded : front 12.250 Kg, rear 10.320 Kg





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Features and equipment subject to change without notice

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