## ADT 25C

# Articulated Dumper 6x6

### **FASTRA**



- Engine
- Power
- Transmission
- G.V.W.
- Payload
- Body heaped (SAE 2:1)

Iveco Cursor 10 TIER 3

235 kW (319 HP)

Automatic

45.440 kg

23.200 kg (25 Sht)

 $14,5 \, m^3$ 

**ENGLISH 05-2006** 



### **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(4.92"x5.51 in) Total displacement: 10300 cm³ Max power: 235 kW (319 HP) @ 2100 rpm Max torque: 1450Nm (148 kgm) @ 1000 rpm 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°   | 5,562      | 5,4          |
| 2°   | 3,615      | 8,4          |
| 3°   | 2,255      | 13,2         |
| 4°   | 1,421      | 20,5         |
| 5°   | 0,943      | 30,0         |
| 6°   | 0,613      | 46,6         |
| 1°RM | 5,274      | 5,4          |
| 2°RM | 2,138      | 13,2         |
| 3°RM | 0,894      | 30,0         |



### **TRASMISSION**

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:

Hydrodynamic slower integrated.

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

Front integrated self-locking differential.



### **AXLES**

Permanent 6x6 drive configuration, stiff intermediate bridge and Kessler D81-bridge.

Double reduction: central with bevel gear and epiciclical gears in wheel

Floating front axle with epiciclical gears in wheel hubs (1:6.353) and differential built-in gearbox.

| amoronia bant in goarbox. |        |
|---------------------------|--------|
| 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 20,5 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           |
|--|----------------------|
| delivery @ 2100rpm:                          |                      |
| max.operating pressure:                      | . 185 bar (18,5 Mpa) |
| Radial piston emergency pump flanged to gear | box.                 |
| Max. working pressure:                       | 19 l/min             |
| max.operating pressure:                      | 120 bar (12 Mpa)     |
| Adjustable Steering column/steering wheel    | ,                    |
| Adjustable steering angle:                   | ±45°                 |



### BRAKES

Independent circuit complies with ISO 3450 e SAE J 1473.

Dry one-plier-disk brakes for 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 Positioning disk brake on the transmission shaft to the pneumaticallydriven rear tandem.

Additional braking through electronically-controlled integrated management of the motor's brake (STD) and hydraulic slower (OPT) with possibility of automatic insertion when the accelerator's pedal is released (exclusive Astra system)

**Optional:** integrated hydrodynamic slower, protection of the brake's pliers on the hubs.



### **SUSPENSIONS**

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

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

Chasses 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.      |
| Thickness of the side walls                              | 12 mm 0.472 in.     |
| Lifting by two double-acting hydraulic cylinders, instal | lled inside chassis |
| members.   |                     |
| Tipping angle:   | 68°                 |

| members.                                  |                 |
|---|-----------------|
| Tipping angle:                            | 68°             |
| Tipping time:                             |                 |
| Rising                                    | 13"             |
| Lowering                                  | 13"             |
| Capacity:                                 |                 |
| struck                                    | yd³             |
| heaped (SAE 2:1) 14,5 m <sup>3</sup> 18,9 | yd <sup>3</sup> |

**Optional:** Reinforced rock body; extra body side walls; body heater; mechanical opening rear wall; 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



### CAB

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

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

Athernic 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, 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.



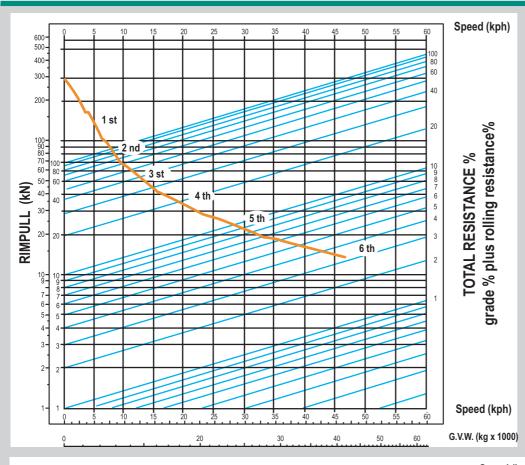
### **FLUID CAPACITIES**



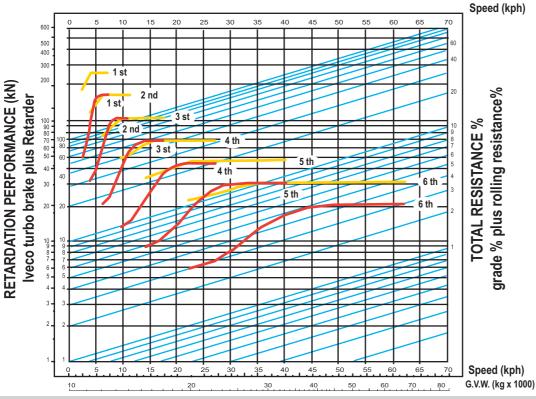
### **WEIGHT Kg**

|                     | Kg TAF | RE (*) lb | Kg     | PAYLOAD Ib | Kg TOTAL | _WEIGHT lb |
|---------------------|--------|-----------|--------|------------|----------|------------|
| Front axle          | 12.155 | 26.797    | 3.165  | 6.977      | 15.320   | 33.774     |
| Rear axles (tandem) | 10.085 | 222.233   | 20.035 | 44.169     | 30.120   | 66.403     |
| Total               | 22.240 | 49.030    | 23.200 | 51.147     | 45.440   | 100.177    |

<sup>\*</sup>TTare includes fuel, lubricants and driver (70 kg)

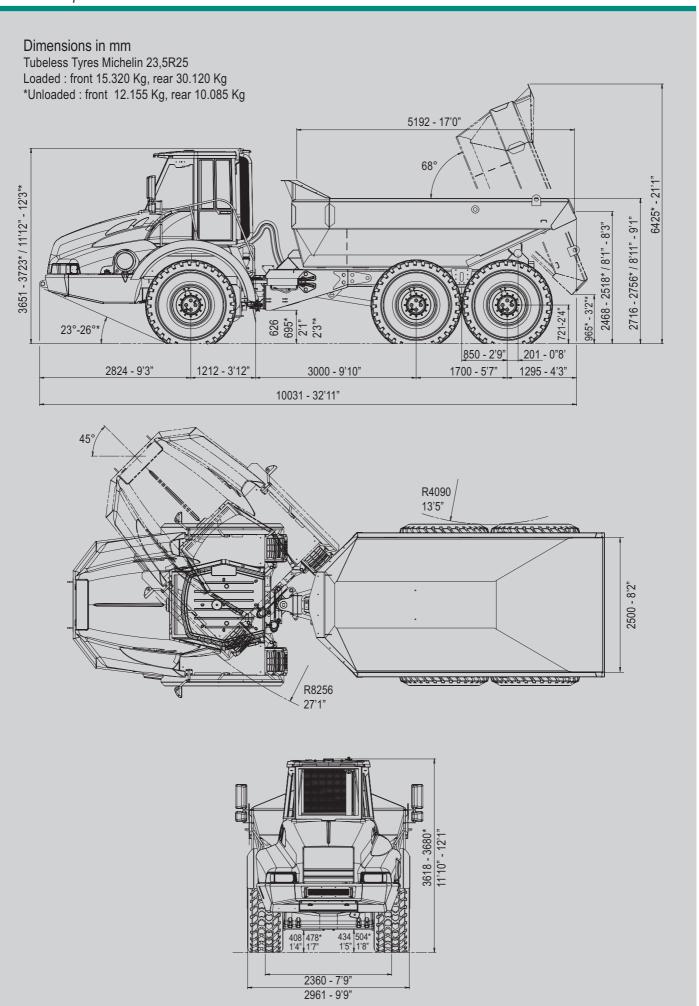


From the meeting between the M.T.T. of the vehicle and the inclined line corresponding to the total resistance %, to the left to determine the corresponding gear and, coming down,the max.speed of the vehicle.



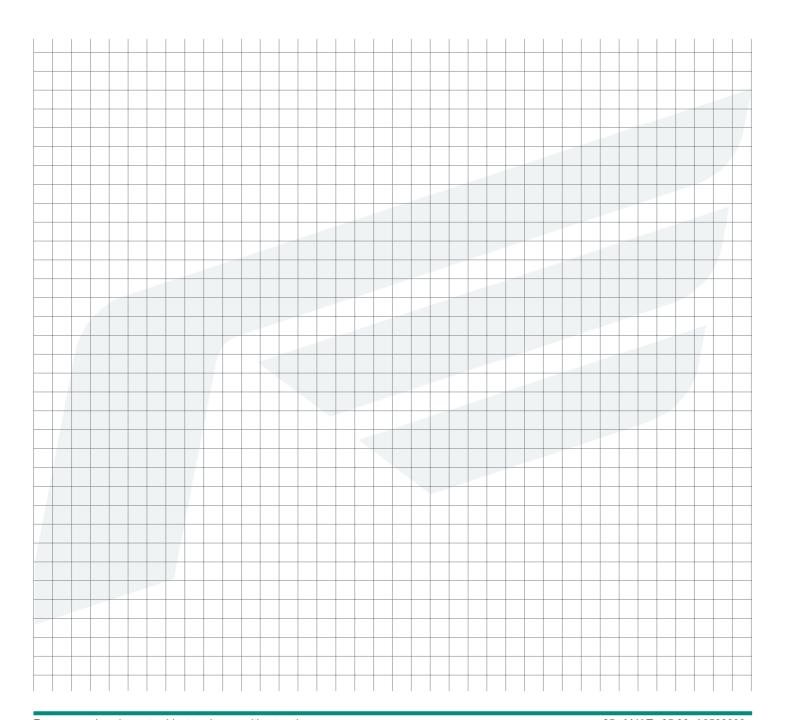
The curves in red refer to the motor's brake(STD); quelle in yellow, to the motor's brake plus retarder (OPT).

| ROLL RESISTANCE          |                      |       |  |  |
|--------------------------|----------------------|-------|--|--|
| Road surface<br>Features | for each t<br>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% |  |  |





### Articulated Dumper ADT 25C



Features and equipment subject to change without notice

25 M.K.T.- 05.06- A3500899

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**DEALER**