

- Engine *Iveco Cursor 13*
- Power *302kW (410 CV)*
- G.V.W. *60.000 kg*
- Payload *31.500 kg (35 Sht)*
- Body heaped (SAE 2:1) *20 m³*

ADT 35D
Articulated Dumper 6x6



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
Bore x stroke: 135x150 mm(5.31"x5.30")
Total displacement: 12800 cm³
Maximum power: 302 KW (410 CV) @ 2100 rpm
Maximum torque: 1850 Nm @ 1000 rpm
Integrated engine brake: Iveco Turbo Brake
Air filter: dry, with double cartridge
Cold start -25°C



PERFORMANCE

With standard 26.5R25 tyres

gear	gear ratio	speed (km/h)
1	5,350	5,5
2	3,455	8,6
3	2,206	13,4
4	1,421	20,9
5	0,969	30,6
6	0,624	47,5
1 st RG	5,350	5,5
2 nd RG	2,206	13,4
3 rd RG	0,969	30,6



TRANSMISSION

Automatic ERGOPOWER ZF 6WG 310 transmission with 6 gears forward and 3 reverse.
ECO (energy saving) and POWER (performance boosting) selectable modes.
Hydraulic torque converter, stall torque ratio: 1: 1,84
Automatic lock-up in all gears.
Torque to front axle: 33,3%
Torque to rear axles: 66,7%
Integrated front differential with limited slip.
Hydraulic retarder max. braking power 242 Kw at 2100 rpm.
Integrated and lockable transfer box.



AXLES

Permanent 6x6 drive configuration, ZF MT-D3105 axles.
Double reduction: central by bevel gear and final by planetary gears in wheel hubs. Lockable rear interaxle differential.
Central reduction ratio: 1 : 3,5
Final reduction ratio: 1 : 6,353
Overall reduction ratio: 1 : 22,24
Floating front axle with outboard planetary reduction gearing (1:6) and gearbox integrated differential.



TYRES

Rim: 25x22x3"
Tyres: 26.5 R 25 Triangle TB 516
Optional: Michelin 26.5 R 25 XADN



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
Max. operating pressure: 250 bars(25 Mpa)
Radial piston emergency pump flanged to gearbox and ground driven.
Adjustable steering column/steering wheel.
Steering angle: ± 45°



BRAKES

Independent circuits complying with ISO 3450.
Hydraulic system made of dry disc brakes with engine powered gear pump and two pressure accumulators.
Overall braking surface: 4387,2 cm²
Parking brake: pneumatically controlled disc on the 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 a 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 - 70 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 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.



HYDRAULIC SYSTEM

2 pumps, circuit: load sensing system with variable displacement pump flanged to gearbox for steering and tipping and engine driven pump for brakes' actuation.



BODY

Walls and bottom in high abrasion strength steel

Bottom thickness: 15 mm 0.590 in

Side wall thickness: 12 mm 0.472 in

Front wall thickness: 10 mm 0.934 in

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

Elastic pads between body and chassis.

Tipping angle: 70°

Tipping time: 11 sec

Lowering time: 13 sec

Automatic body tipping control system.

Capacity:

struck: 15 m³ 19.62 yd³

heaped (SAE 2:1): 20 m³ 26.16 yd³

Optional:

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 centralised greasing system with grease gauge.



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 maintenance;

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

Cab tilting on the LEFT-side to facilitate extraordinary maintenance activities.

Fully adjustable air suspension central operator seat with safety belts;

Instructor seat with belt;

Accessories;

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 in 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 l 9.2 US Gals

Transmission oil and filter: 35.5 l 9.4 US Gals

Cooling system: 43 l 11.4 US Gals

Fuel tank: 400 l 105.7 US Gals

Front differential: 14 l 3.7 US Gals

Intermediate axle: 34 l 9.0 US Gals

Rear axle: 33 l 8.7 US Gals

Hydraulic tank: 240 l 63.4 US Gals

Hub oil (for hub): 9 l 2.4 US Gals

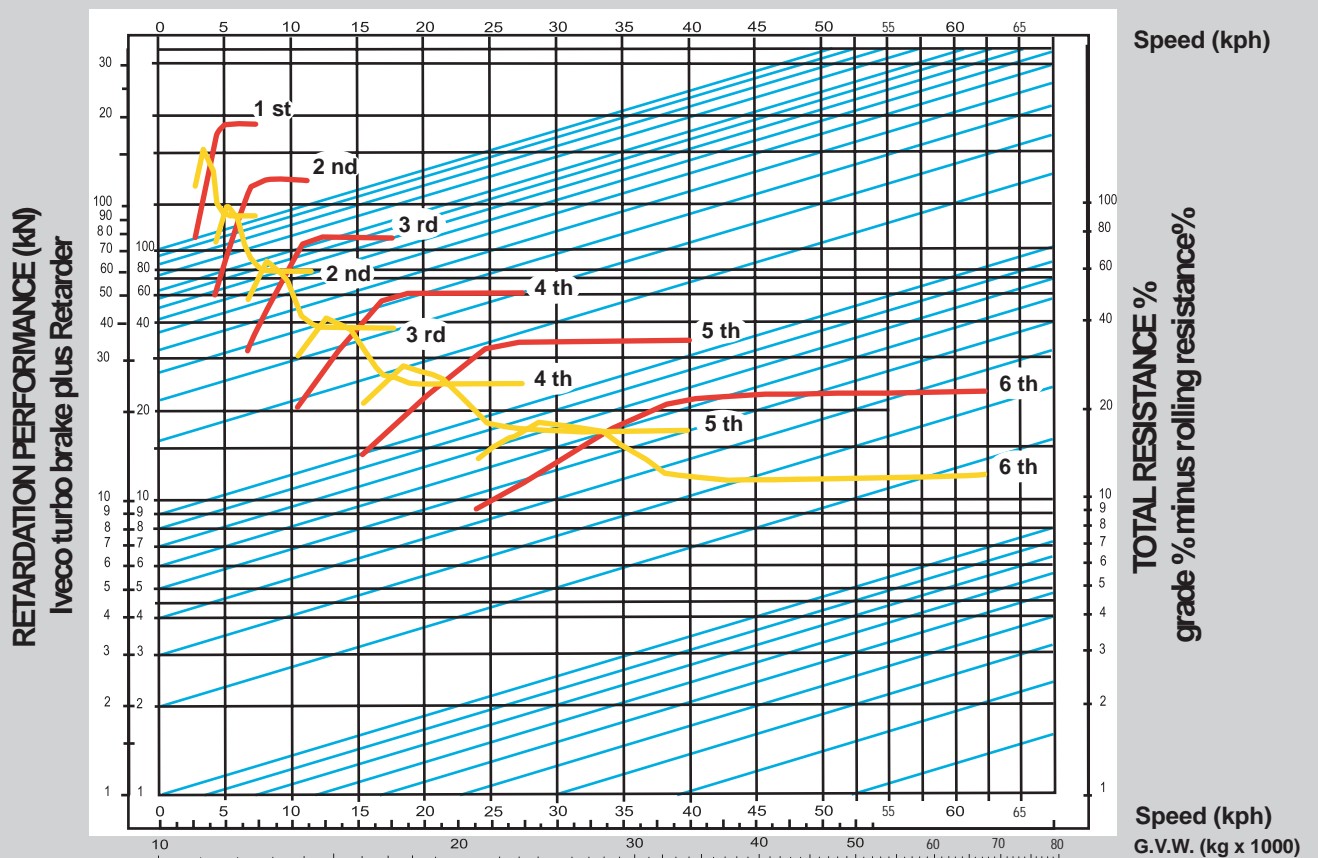
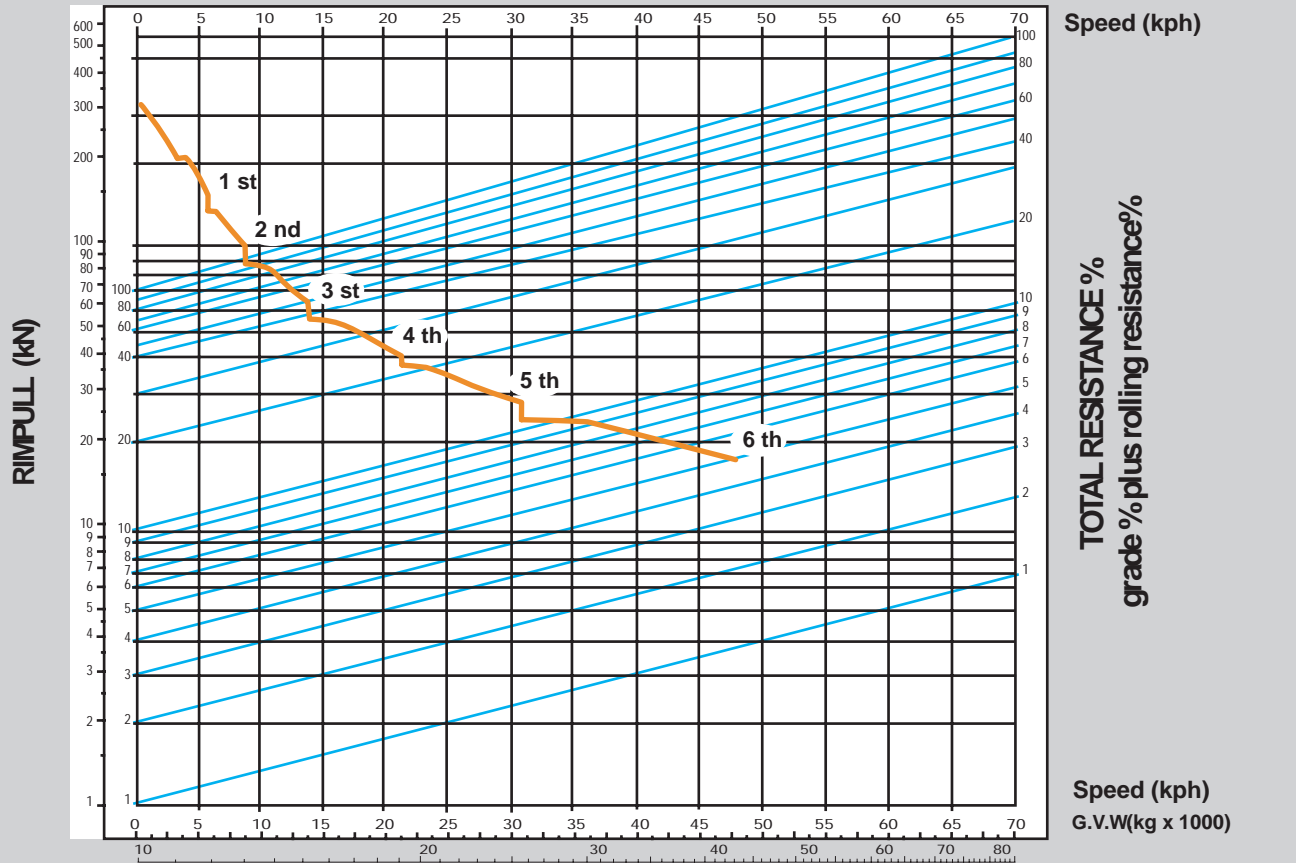


WEIGHT kg

	TARE (*)		PAYLOAD		TOTAL WEIGHT (G.V.W.)	
	Kg	lb	Kg	lb	Kg	lb
Front axle	14.100	31.085	4.100	9.039	18.200	40.124
Rear axles (tandem)	14.400	31.746	27.400	60.406	41.800	92.153
Total	28.500	62.832	31.500	69.446	60.000	132.277

* Tare includes fuel, lubricants and driver (75 kg)

Cross the G.V.W. of the vehicle and the sloped line corresponding to the total resistance %, to determine on the left the corresponding gear and, coming down, the max. speed of the vehicle.

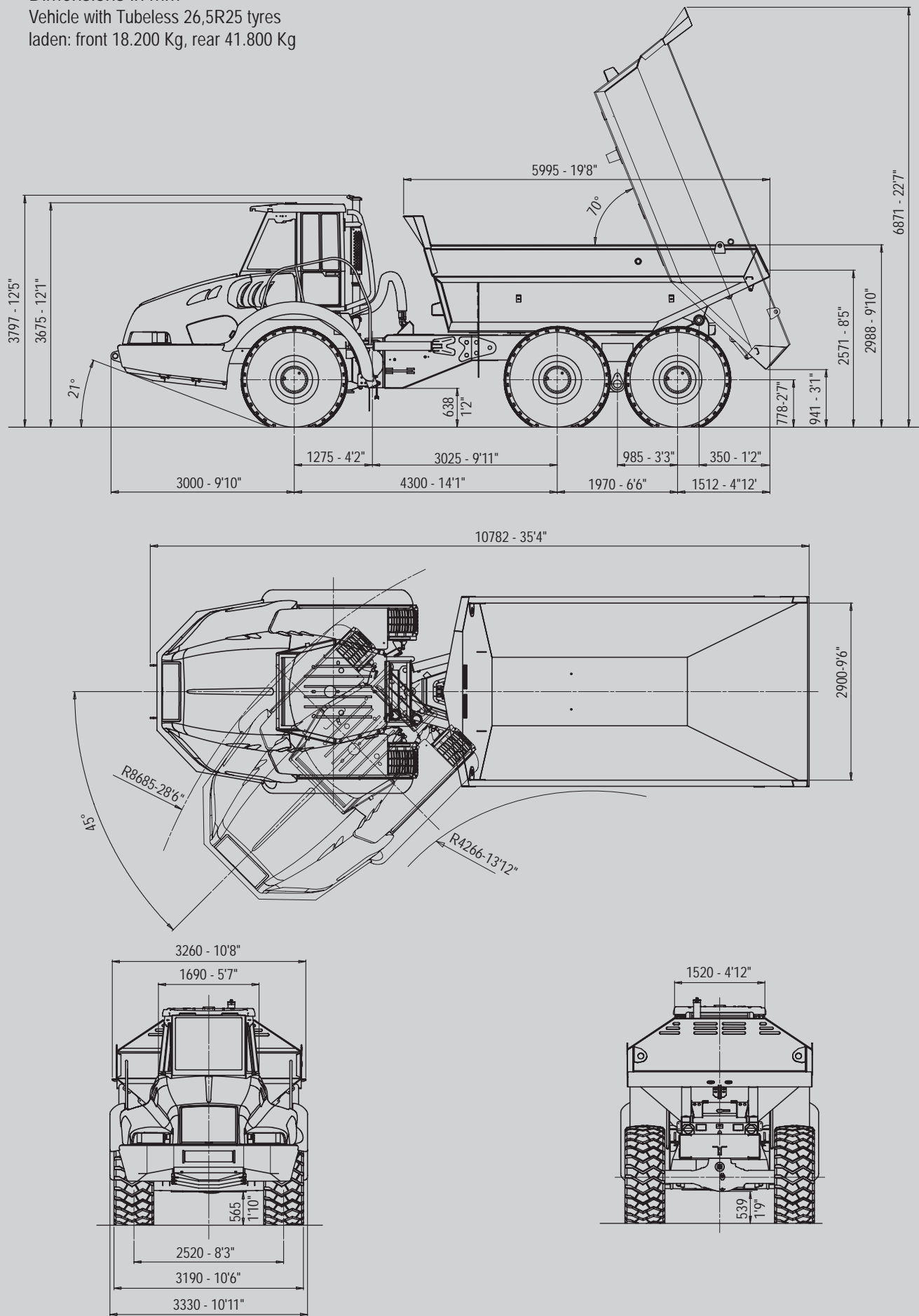


ROLL RESISTANCE

Road surface Features	for each t G.V.W.	%
Black top-concrete	15kg	1,5%
Hard packed soil	20kg	2,0%
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
Vehicle with Tubeless 26,5R25 tyres
laden: front 18.200 Kg, rear 41.800 Kg



Articulated Dumper ADT 35D



Articulated Dumper

ADT 35D



Features and equipment subject to change without notice

M.K.T.- 02.09- A350

ASTRA Veicoli Industriali S.p.A.

Via Caorsana, 79
29100 Piacenza (Italy)
Tel. ++39-523.5431
Fax ++39 523.591773
www.astraspa.com

DEALER