

- Iveco Cursor 13* **TIER 3**  
 302kW (410 CV)  
 Automatic  
 60.000 kg  
 31.500 kg (35 Sht)  
 15 m<sup>3</sup>  
 20 m<sup>3</sup>

# Articulated Dumper 6x6

Courtesy of Machine.Market



## 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 13

Bore x stroke: ..... 135x150 mm(5.31"x5.30")

Total displacement: ..... 12800 cm<sup>3</sup>

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 <sup>st</sup> RG	5,350	5,5
2 <sup>nd</sup> RG	2,206	13,4
3 <sup>rd</sup> RG	0,969	30,6



## TRANSMISSION

Automatic ERGOPOWER ZF 6WG 310 drive transmission with 6 gears forward and 3 reverse. Hydraulic torque converter, multiplication ratio (stall torque): ..... 1: 1,84

Lock-up clutch in all gears

Torque to front axle: ..... 33,3%

Torque to rear axles: ..... 66,7%

**Optional:**

Hydraulic retarder max. braking power 242 Kw at 2100 rpm.

Helical splitter lockable from driver's seat.

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

Front integrated self-locking differential.



## AXLES

Permanent 6x6 drive configuration, 2<sup>nd</sup> and 3<sup>rd</sup> axle ZF MT-D3105.

Double reduction: central with bevel gear and epicyclic gears in wheel hubs. Central axle with differential operator selectable from the cab electronic coupling.

Central reduction ratio: ..... 1 : 3,5

Final reduction ratio: ..... 1 : 6,353

Overall reduction ratio: ..... 1 : 22,24

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



## TYRES

Interchangeable wheels with steel web 25x22x3"

Tubeless radial tyres 26,5 R25 Michelin/Bridgeston/Continental



## STEERING

Complies with ISO 5010, SAE J 53

Hydrostatic steering(orbitrol) with Q-amp system by two double-acting cylinders. Variable displacement axial piston pump.

Pump flow: ..... 331 l /min. @ 2300 rpm

Max. working pressure: ..... 250 bars(25 Mpa)

Radial piston emergency pump flanged to gearbox operated by transmission. Steering column/steering wheel.

Steering angle: ..... ± 45°



## BRAKES

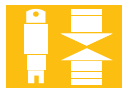
Hydraulic command dry disc brakes with gear pump powered by the engine and by two pressure accumulators

Overall braking surface: ..... 4387,2 cm<sup>2</sup>

Pneumatically controlled disc parking brake on rear tandem propeller shaft.

Integrated electronically controlled **auxiliary braking system** with exhaust brake and hydraulic retarder and possibility of automatic operation when accelerator pedal is released (exclusive Astra system)

**Braking force max. 396 kW @ 2100 rpm.**



## 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 - 70 Ah

Voltage: ..... 24 V

Alternator: ..... 90 A

Starter engine: ..... 5 kW

All wires are number coded, protected by sheaths and fastened to the chassis.

Multiplex Plant with CAN bus-communication between engine central system, gear and body computer.

Dash with multifunctional integrated graphic display .



## HYDRAULIC SYSTEM

Hydraulic circuit fitting 2 pumps. Hydraulic "load sensing" system with variable displacement pump flanged to gearbox for steering and tipping. One pump operated by the engine for brakes' starting.



## BODY

Walls and bottom in high abrasion strength steel

Hardness: ..... HB 400

Yield index: ..... 1000 N/ mm<sup>2</sup>

UTS: ..... 1250 N/ mm<sup>2</sup>

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 with 4 telescopic sections installed inside chassis members.

Elastic pads between body and chassis.

Tipping angle: ..... 70°

Tipping time: ..... 11 sec

Lowering time: ..... 13 sec

Potentiometer angle sensor.

Capacity:

struck: ..... 15 m<sup>3</sup> 19.62 yd<sup>3</sup>

heaped (SAE 2:1): ..... 20 m<sup>3</sup> 26.16 yd<sup>3</sup>

Automatic body tipper control system

**Optional:**

Body heater

Extra body side walls

Tailgate

Reinforced rock body



## INSTRUMENTS

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

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. Patent-pending exclusive ASTRA system.



## GREASING SYSTEM

22 points in rear unit subject to wear are connected to an automatic programmable centralised greasing system with lubricant gauge in cab.



## 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 (70 kg)



## CAB

Complies with ROPS SAE J 1040, ISO 3471 / FOPS SAE J231, ISO 3449.

Stainless steel, soundproofed and centrally mounted.

Sound advisor reverse gear;

Automatic climate control with pollen filter;

engine bonnet and cab with hydraulic overturn;

Athermic glasses;

Side mudguards with gullwing action for supplementary servicing;

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

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

Central driver's seat with universal adjustment and pneumatic suspension;

Instructor's seat;

Cab suspension system with oil-rubber cab mounts;

Standard instruments and accessories;

Windscreen sun screen.

**Optional:**

RDS radio;

Electrical bonnet tipping system;

Fire-Extinguisher;

Rotary light on cab;

Working lamps;

Refrigerator;

Remote-controlled heated rear view mirrors;

Side window wipers;

Reverse gear videocamera.



## 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.



## FLUID CAPACITIES

Refer to the use and maintenance manual for fluids specifications.

Engine oil and filter: ..... 35 l ..... 9.2 US Gals

Transmission 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

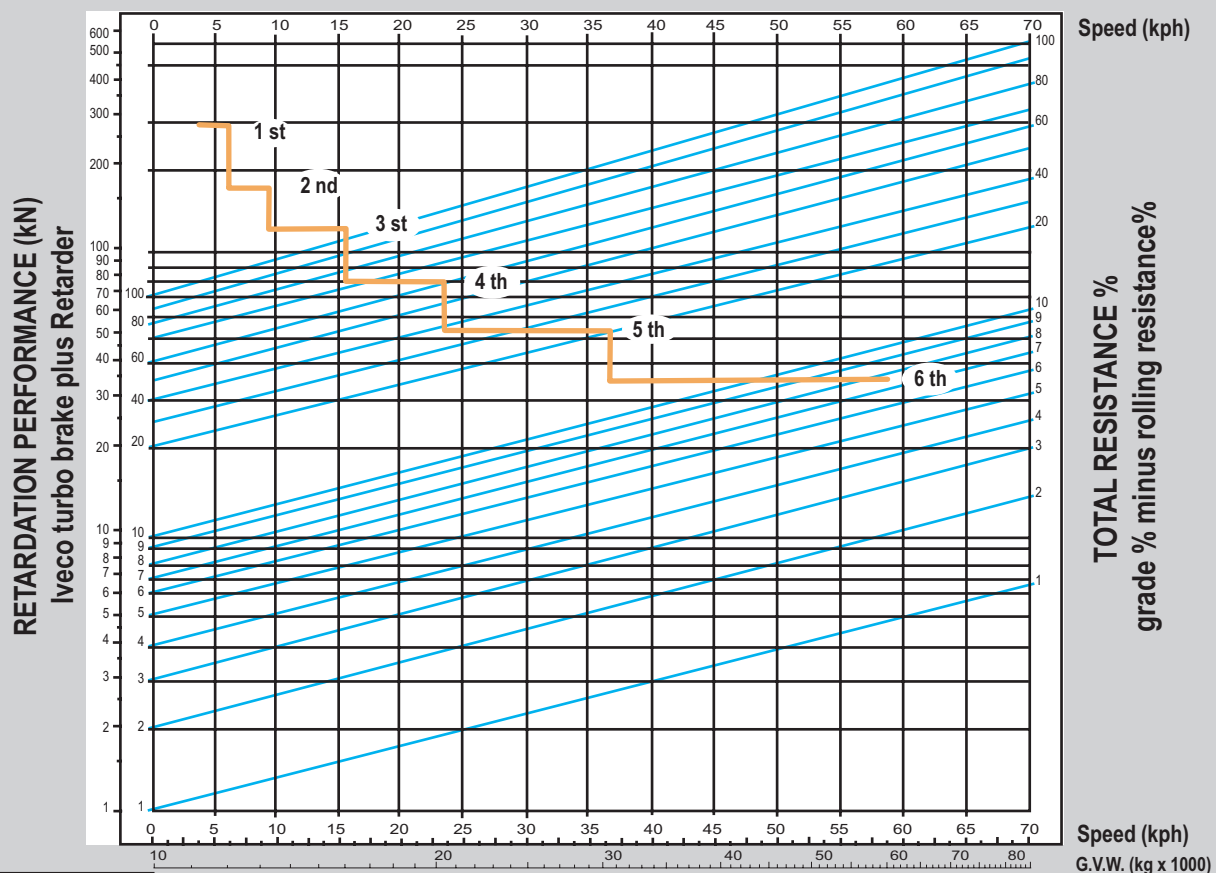
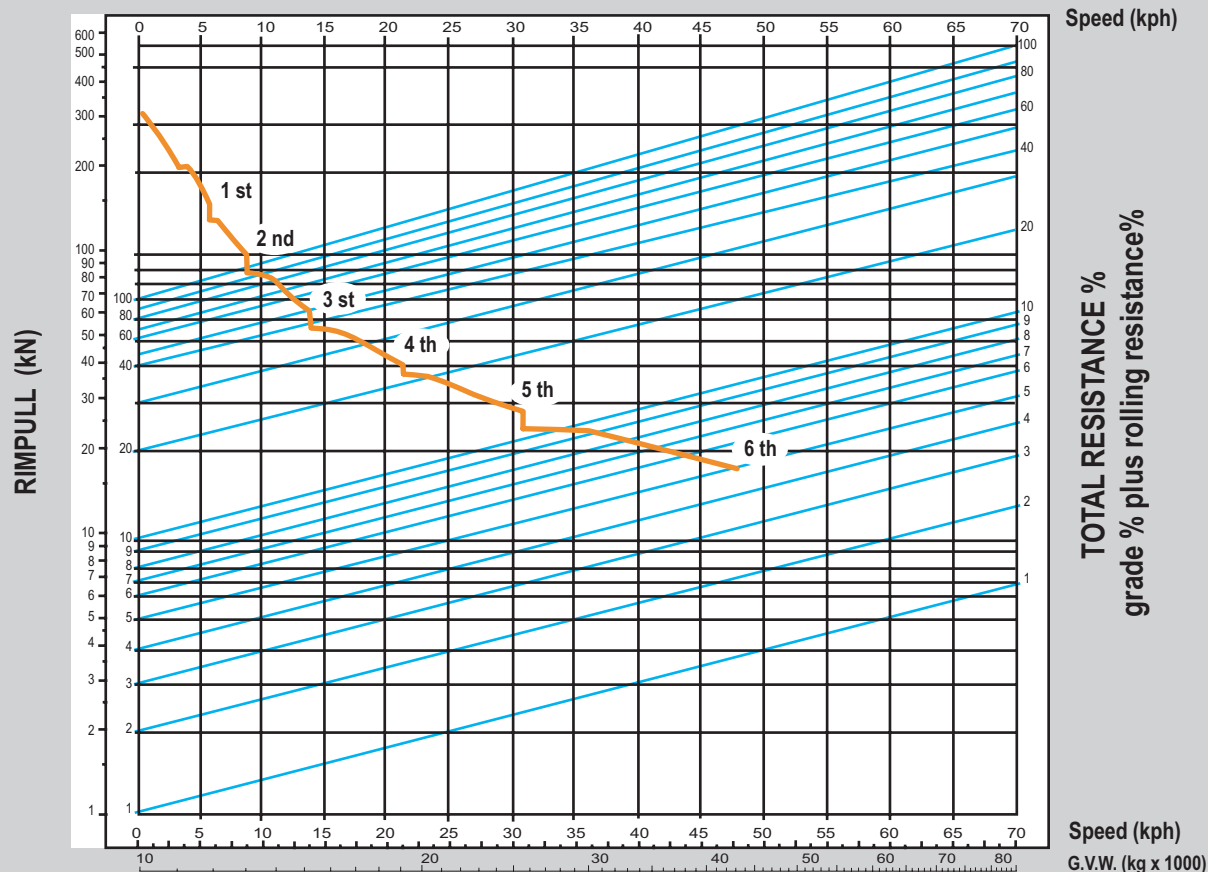
Intermediate axle: ..... 34 l ..... 9.0 US Gals

Rear axle: ..... 33 l ..... 8.7 US Gals

Hydraulic tank: ..... 240 l ..... 63.4 US Gals

Oil hub (for hub): ..... 9 l ..... 2.4 US Gals

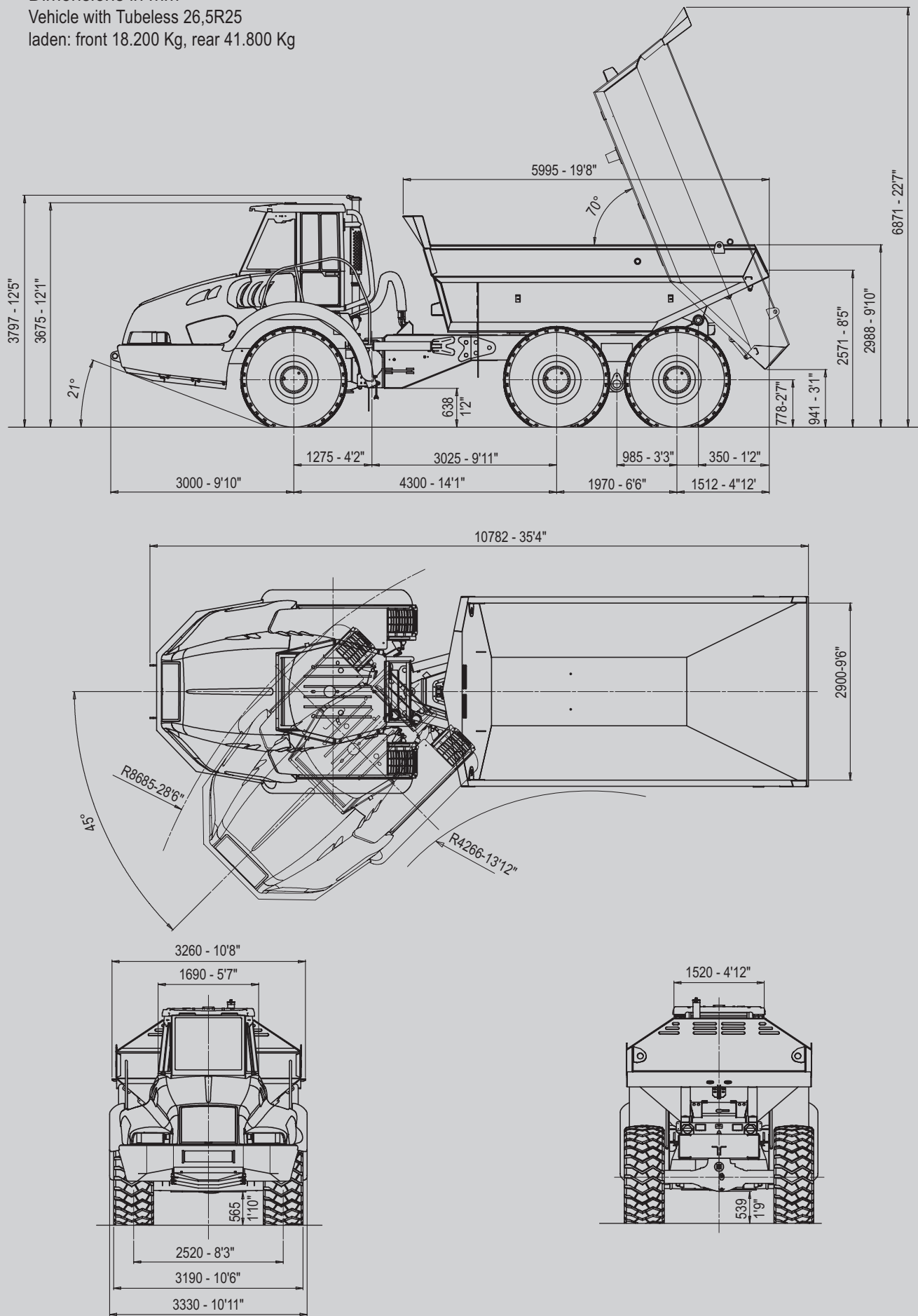
From intersection of Vehicle Weight with Total Resistance Line, read across the gear attainable and then, downwards, the maximum speed.



#### 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%

Dimensions in mm  
Vehicle with Tubeless 26,5R25  
laden: front 18.200 Kg, rear 41.800 Kg





# Articulated Dumper **ADT35C**



Features and equipment subject to change without notice

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**DEALER**