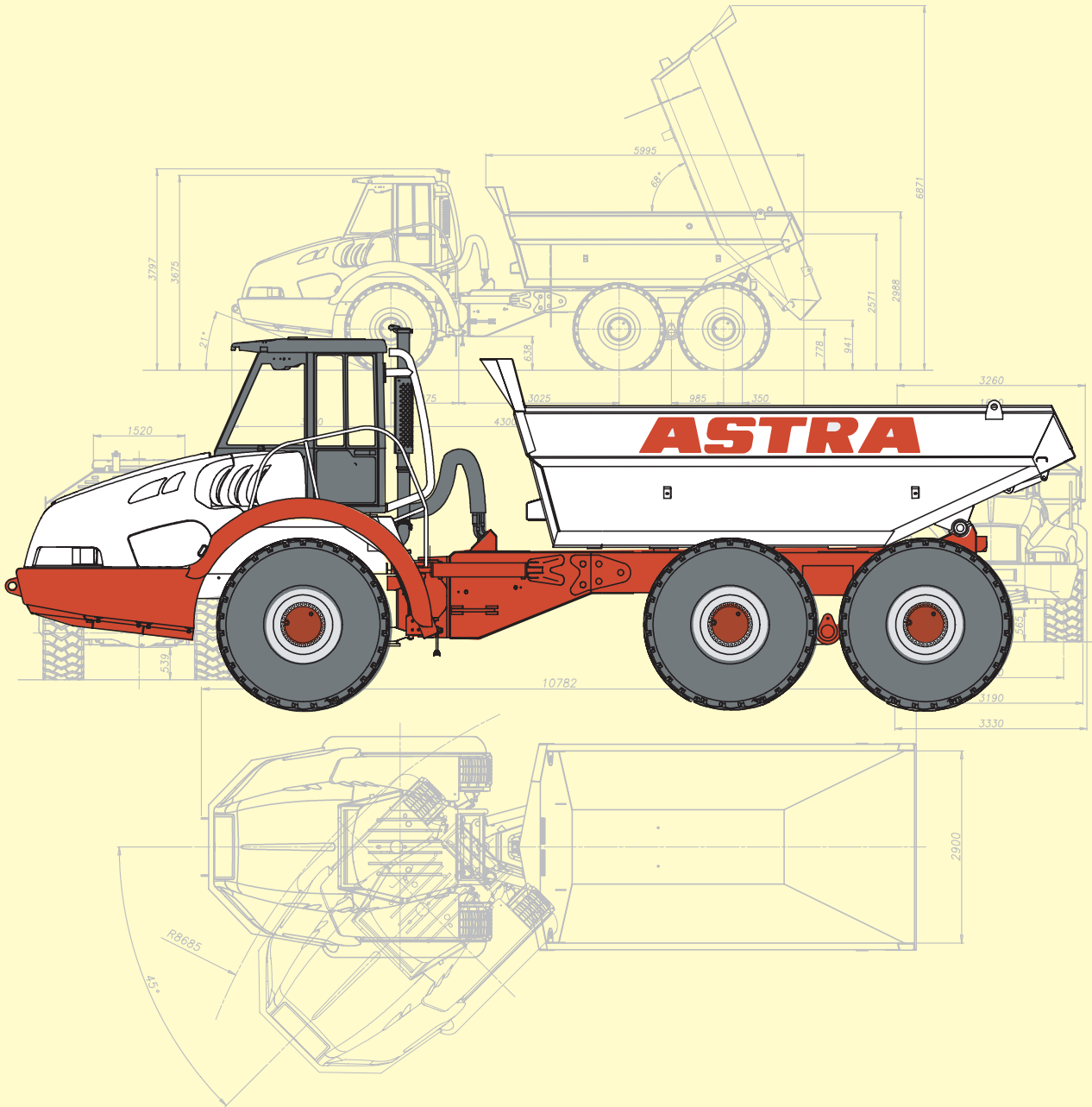




# ADT 35



- **Engine** *Iveco Cursor 13*
- **Power** *306kW (416 HP)*
- **Transmission** *Automatic*
- **G.V.W.** *60.000 kg*
- **Payload** *31.500 kg (35 Sht)*
- **Body struck** *15 m<sup>3</sup>*
- **Body heaped (SAE 2:1)** *20 m<sup>3</sup>*

# Articulated Dumper 6x6



## ENGINE

6-cylinder in-line Diesel cycle, electronically-controlled direct injection, pump injectors, turbocharger with intercooler, variable geometry turbine

Emissions- EURO3 / EPA - CARB - OFF ROAD TIER 2

Make and type: ..... IVECO CURSOR 13

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

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

Maximum power: ..... 306 kW ( 416 CV) @ 2100 rpm

Maximum torque: ..... 1850 Nm @ 1000 rpm

Integrated engine brake: ..... Iveco Turbo Brake

Low temperature starting system -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 power-shift 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%

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, ZF MT-D3105 stiff intermediate and rear axles.

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 (1:6.353) and differential built-in gearbox.



## TYRES

Interchangeable wheels with steel web 25x22x3"

Tubeless radial tyres 26.5 R 25



## 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.

Variable displacement axial piston pump.

Pump delivery: ..... 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.

Adjustable steering angle: ..... ± 45°



## BRAKES

Independent circuit complies with ISO 3450/SAE J 1473

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 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 for engine ECU, transmission ECO and Body Computer communication.

Dash with multifunctional integrated graphic display .



## HYDRAULIC SYSTEM

Hydraulic circuit fitting 3 pumps. Hydraulic "load sensing" system with variable displacement pump flanged to gearbox for steering and tipping. Two pumps operated by engine, one for controlling engine cooling fan and one for actuating braking. The latter pump operates two pumps in series for circulating brake cooling oil. Electronically controlled flow. Patent-pending exclusive ASTRA system.



## 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 inside chassis members.  
 Flexible mounts between body and chassis.  
 Tipping angle: ..... 70°  
 Tipping time: ..... 11 sec  
 Lowering time: ..... 13 sec  
 Tipping control 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>

**Optional:**

- Body heater
- Extra body side walls
- Mechanical opening rear wall
- Reinforced rock body
- Automatic body tipper control system



## 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.



## GREASING SYSTEM

The 12 points in front unit + 14 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
<b>Total</b>	<b>28.500</b>	<b>62.832</b>	<b>31.500</b>	<b>69.446</b>	<b>60.000</b>	<b>132.277</b>

\* 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.

Left-hand tipping for easy supplementary servicing.

Central universally adjustable air ride drive seat.

Instructor's seat.

Cab suspension system with oil-rubber cab mounts.

Automatic air-conditioning control system with pollen filter.

Hydraulic tipping engine bonnet.

Tinted windows.

Door with lower glazing for maximum visibility.

Standard instruments and accessories.

Side mudguards with gullwing action for supplementary servicing.

**Optional:**

- RDS radio
- Rearview video camera
- Rotating beacon
- Remote-controlled heated rear view mirrors
- Electrical bonnet/cab tipping system
- Side window wipers



## 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.

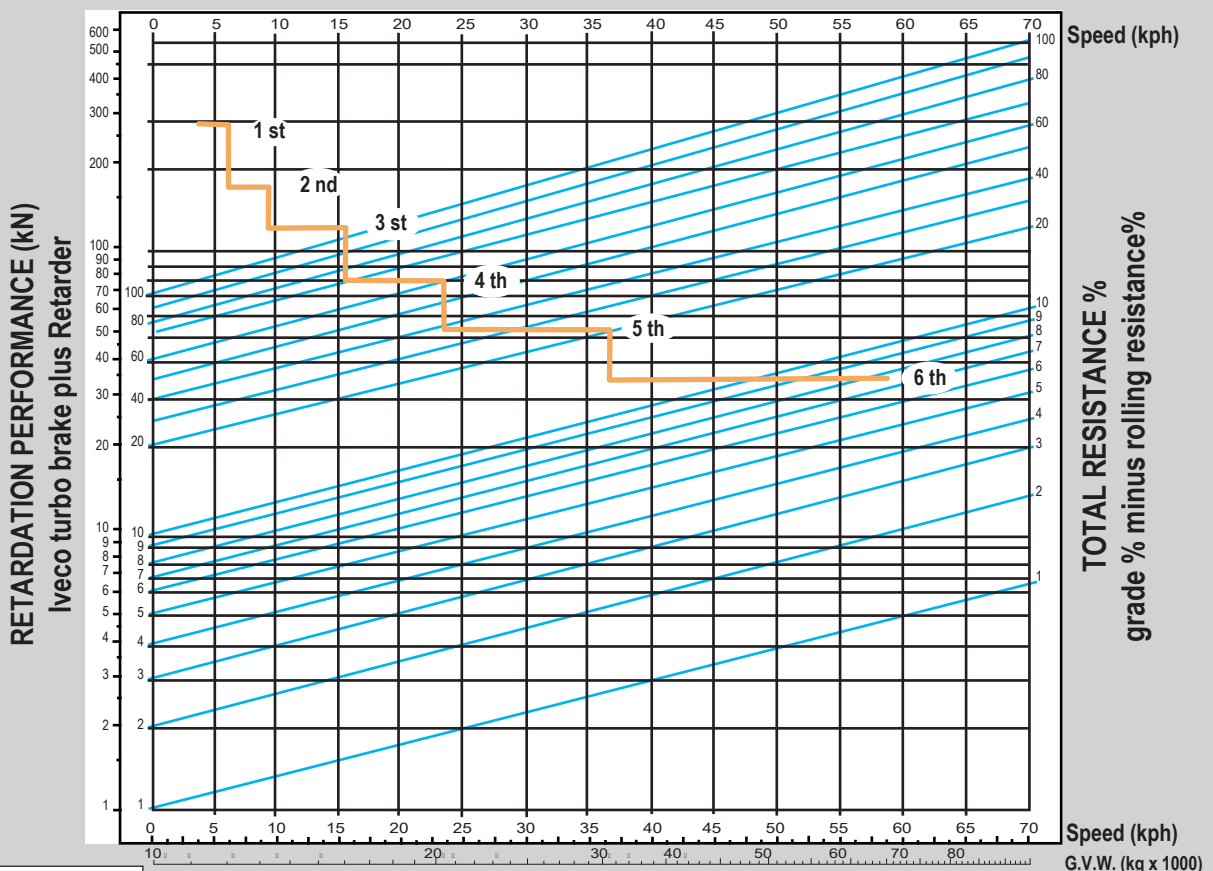
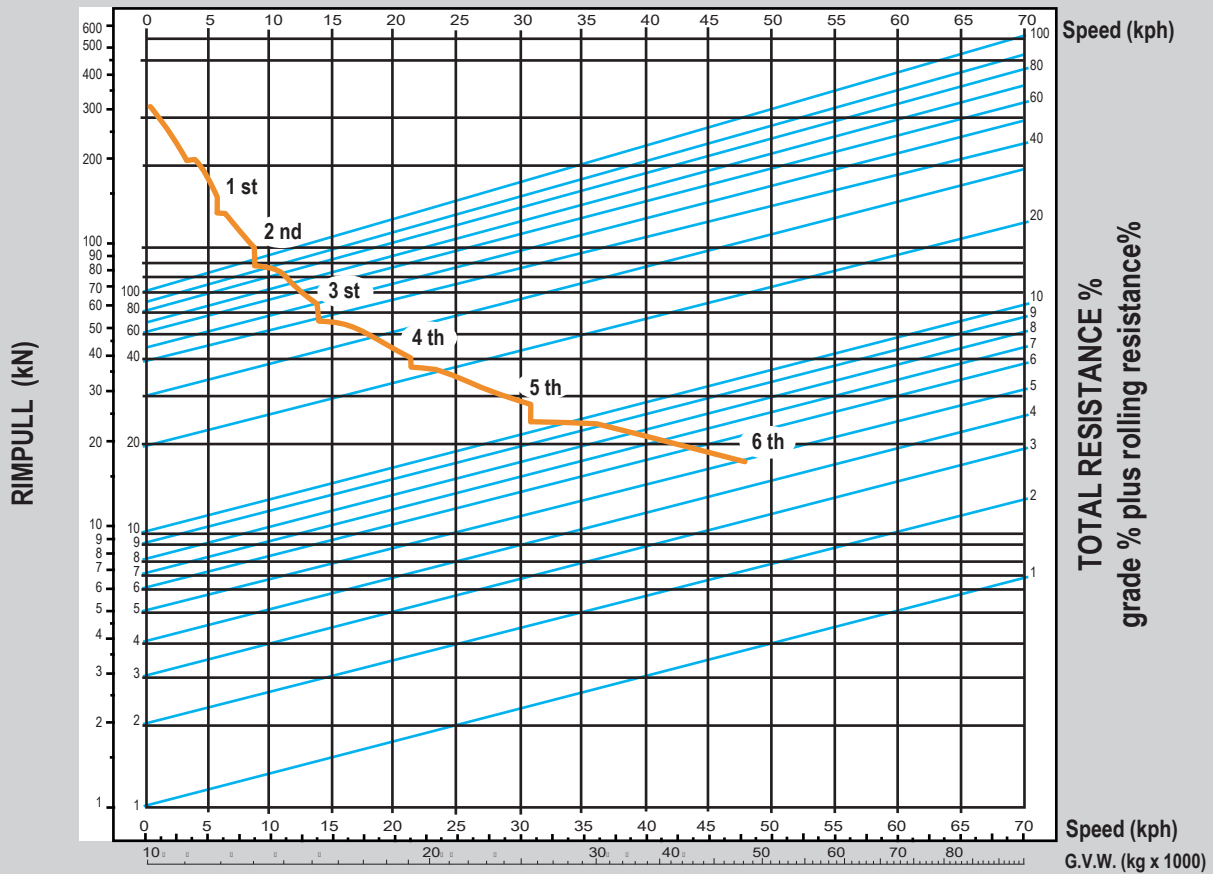


## FLUID CAPACITIES

Refer to the use and maintenance manual for fluids specifications.

Engine oil: .....	35 l	.....	9.2 US Gals
Gearbox oil: .....	35,5 l	.....	9.4 US Gals
Cooling circuit: .....	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 circuit: .....	300 l	.....	79.3 US Gals
Oil hub (per 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.

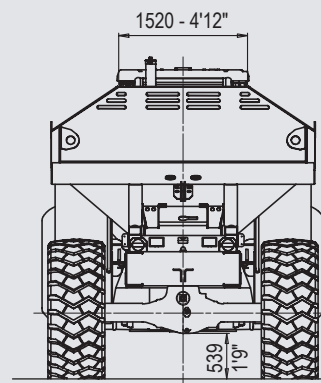
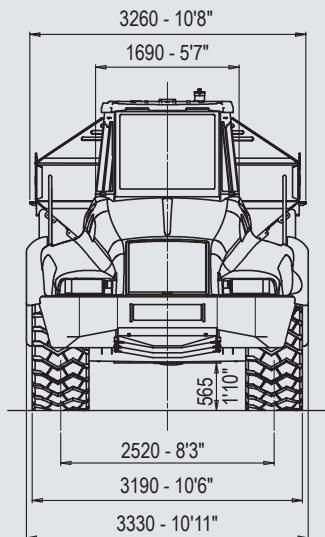
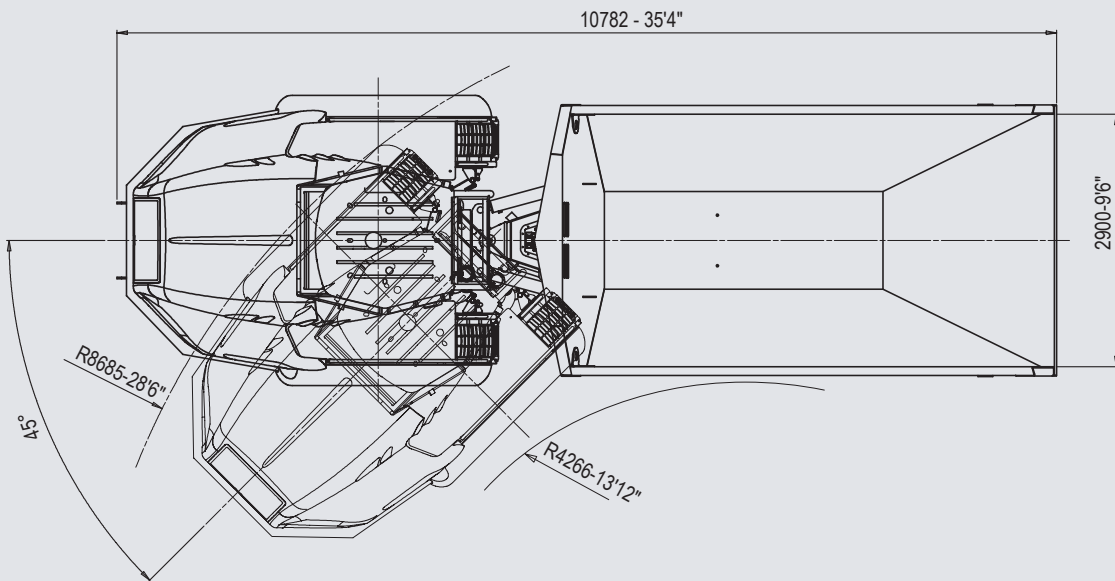
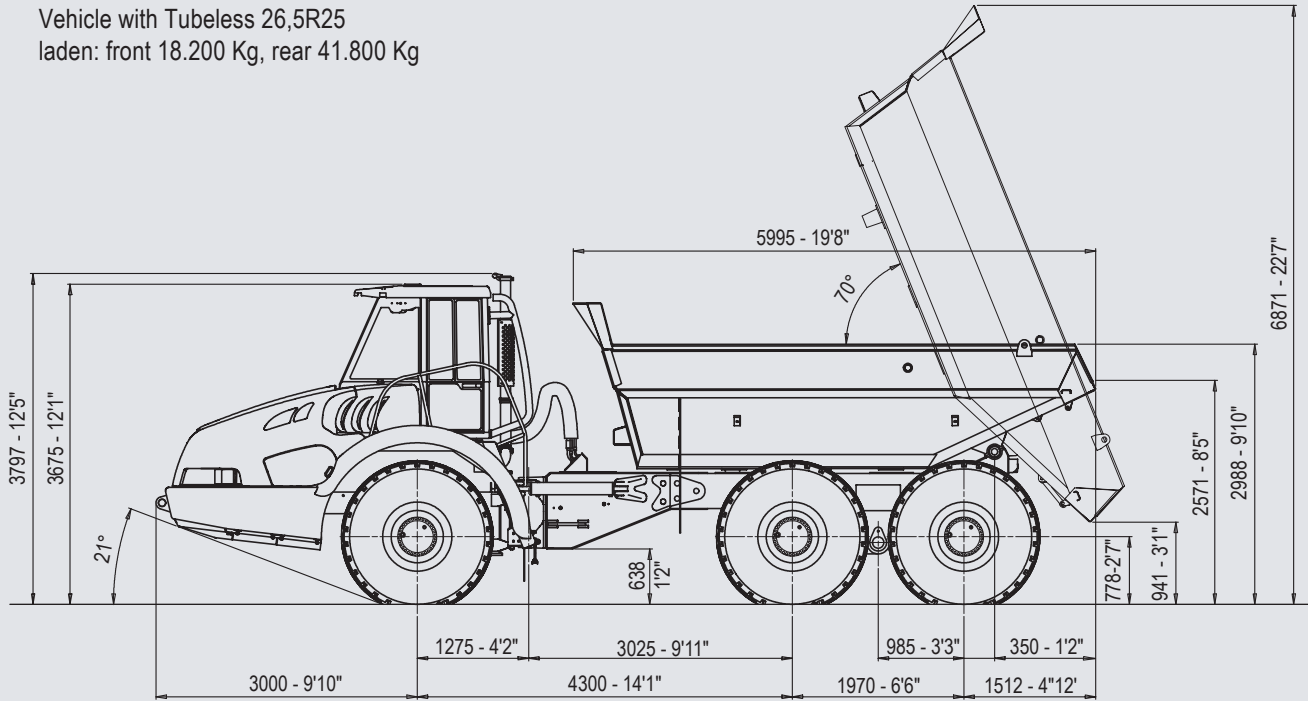


ROLL RESISTANCE		
Road surface Features	for each t G.V.W.	%
Black top-concrete	15kg	1,5%
Hard packed soil	20kg	2,0%
Mud on packed soil	40kg	4,0%
Packed snow	25kg	2,5%
Soft snow	45kg	4,5%
Sand-gravel	100kg	10,0%

Dimensions in mm

Vehicle with Tubeless 26,5R25

laden: front 18.200 Kg, rear 41.800 Kg





# Articulated Dumper **ADT 35**



Features and equipment subject to change without notice

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**DEALER**