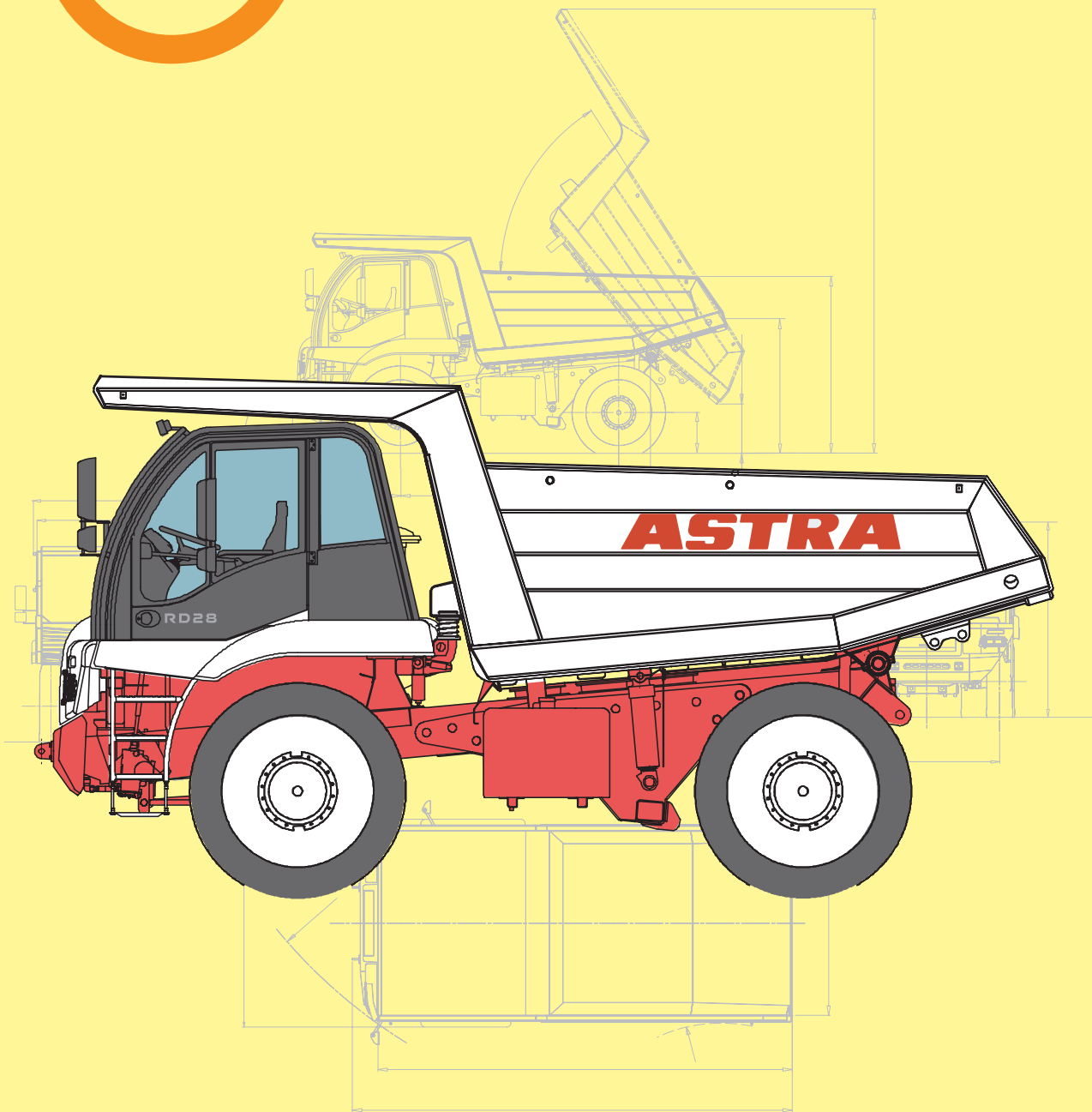




RD 28C



Rigid Dumper

- **Engine** Iveco Cursor 10 **TIER 3**
- **Power** 260kW (353 hp)
- **Transmission** Automatic
- **G.V.W.** 48.500 kg
- **Payload** 28.000 kg (31 Sht)
- **Capacity Struck** 14,2 m³
- **Headped (SAE 2:1)** 17,7 m³

ENGLISH
04-2006



ENGINE

Diesel with 6 cylinders in line, direct electronic injection, pump injectors, turbo charger with intercooler, variable geometry turbine.

Emissions : EPA - CARB - OFF ROAD TIER 3

Make and type: IVECO CURSOR 10-F3A

Stroke bore: 125x140 mm (4.9"x5.5")

Total displacement: 10300 cm³

Max power: 260 KW (353 HP) @ 1900 rpm

Max torque: 1650 Nm (168 Kgm) @ 1140 rpm

Integrated engine brake: Iveco Turbo Brake

Cold start - 25° C



PERFORMANCE

With 16.00R25 tyres

gears	gears ratio	Km/h	mph
1	4,70	8,3	5.1
2	2,21	17,6	10.9
3	1,53	25,4	15.7
4	1,00	38,8	24.1
5	0,76	51,1	31.7
6	0,67	58,0	30.0
1 RM	5,55	7,0	4.3



TRANSMISSION

Automatic transmission Allison HD4560 with incorporated retarder on gear output.

6 forward speeds and one reverse.

Possibility to set Power or Economy mode.



REAR AXLE

KESSLER axle.

Dual reduction: central by bevel gear pair and final in wheel hubs by epicyclic train.

Central reduction ratio: 1:2,43

Final reduction ratio: 1:6,00

Total reduction ratio: 1:14,58



TYRES

Interchangeable wheels with steel disk 11.25-25/2.0

Tubeless radial tyres 16,00R25



STEERING

Conformity to ISO 5010, SAE J 53

Hydraulic power steering with double action cylinder.

Gear pump with flow regulator in tandem with tipping pump.

Max working pressure: 170 Bar (17 Mpa)

Radial piston emergency pump driven by the transmission.

Adjustable steering column/wheel.



BRAKES

With independent circuits, conforming to ISO 3450 SAE J 1473.

Disk brakes, two callipers per axle, hydraulic control with gear pump controlled by engine and two pressure accumulators.

Pneumatically controlled parking disk brake on transmission shaft, rear axle power take-off

Electronically controlled integrated management of engine brake and retarder (6-position lever).



SUSPENSION

Front: wheels with independent steering, hydro-pneumatic suspension cylinders (oil-nitrogen) acting as suspension/shock absorber.

Rear: semi-independent with three reaction rods plus Panhard type cross bar. Two hydro-pneumatic cylinders (oil/nitrogen) acting as suspension/shock absorber.

Optional: front suspension gas charger kit .



ELECTRICAL SYSTEM

2 batteries: 12 V / 170 Ah

Voltage: 24 V

Alternator: 90 A

Starter motor : 4.5 kW

All cables have identification number, sheath protection and are fastened to the chassis.

Multiplex system with CAN bus communication between engine control unit, transmission, body computer and peripheral input/output.

Dashboard with incorporated multi-function graphic display .



PNEUMATIC SYSTEM

Single cylinder compressor.

Air dryer.

Air tanks 20+5 l.

Pneumatic circuit for parking brake, seat suspension, horn and to take up air in the cab.



BODY TIPPING SYSTEM

Two single acting telescopic hydraulic cylinders, with 4 pullers and hydraulic brake on fourth puller. Uprights on ball joints outside the chassis.

Gear pump driven by engine PTO (capacity: 210 l/min at 2100 RPM) in tandem with steering pump.

Proportional control of body lowering and rising with possibility to have manual or automatic setting and with automated slowing down at end of travel (down/up).

Proportional electro-pneumatically controlled tipping box and mechanical lever for emergency action and service.

Body lowered safety switch.



BODY

Walls and bottom in high abrasion resistance steel.

Hardness: HB 400

Tensile strength: 1000 N/ mm²

UTS: 1250 N/ mm²

Bottom thickness: 12 mm 0.47 in

Side walls thickness: 10 mm 0.39 in

Front panel thickness: 10 mm 0.39 in

Elastic pads between body and chassis.

Tipping angle: 56°

Rising time: 10"

Lowering time: 8"

Potentiometer angle sensor to control rising/lowering.

Body heating system.

Body capacity:

Struck: 14.2 m³ 18.5 yd³

Heaped (SAE 2:1): 17.7 m³ 23.1 yd³

Optional:

Rear board with mechanical opening

Rock version reinforced body.



CHASSIS

Built in high resistance steel, it has two rectangular section extruded side members joined by stiffening cross members that support the front and the rear suspensions systems.



GREASING SYSTEM

Optional: automatic central greasing system with an amount of grease that varies according to the conditions in which the vehicle is used.



WEIGHTS Kg

	TARE (*)		PAYLOAD		TOTAL WEIGHT	
	kg	lb	kg	lb	kg	lb
Front axle	11.100	24.471	6.075	13.393	17.175	37.864
Rear axle	9.400	20.723	21.925	48.336	31.325	69.059
Total	20.500	45.194	28.000(31Sht)	61.729	48.500	10.692

* Tare including fuel, lubricants and driver (75 kg / 165 lb)



CAB

Conforming to ROPS SAE J 1040, ISO 3471 / FOPS SAE J231, ISO 3449.

Compressed air quick coupling to clean cab.

In steel, sound-proofed and mounted on the left side.

Athletic glasses.

Working lamps over cab.

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

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

Instructor's seat.

Cab suspension with hydrostatic pads.

Operating instrumentation and accessories.

Windscreen sun screen.

Optional:

RDS car radio

Automatic climate control with pollen filter.

Extinguisher.

Rotary light on cab.

Refrigerator.

Reverse gear videocamera.



INSTRUMENTS

On-board computer to manage all the indications and information regarding vehicle functioning (levels, filter clogging, overheating warning lights, faults on assemblies, sensor and valve failures, etc.).

High-tech vehicle diagnostics system: management, display and data storage of engine, transmission, steering system, braking, body tipping and service pneumatic system, reversing buzzer.

Optional:

Weighting by means of 4 pressure transducers on the suspension, data displayed on vehicle display.

Trip Computer to analyse vehicle productivity.



FLUID TANKS CAPACITIES

For specifications of the fluids, see the Use and Maintenance Manual.

Engine oil: 30,5 l 8USG

Gearbox oil: 48 l 12.6USG

Cooling circuit: 47 l 12.4USG

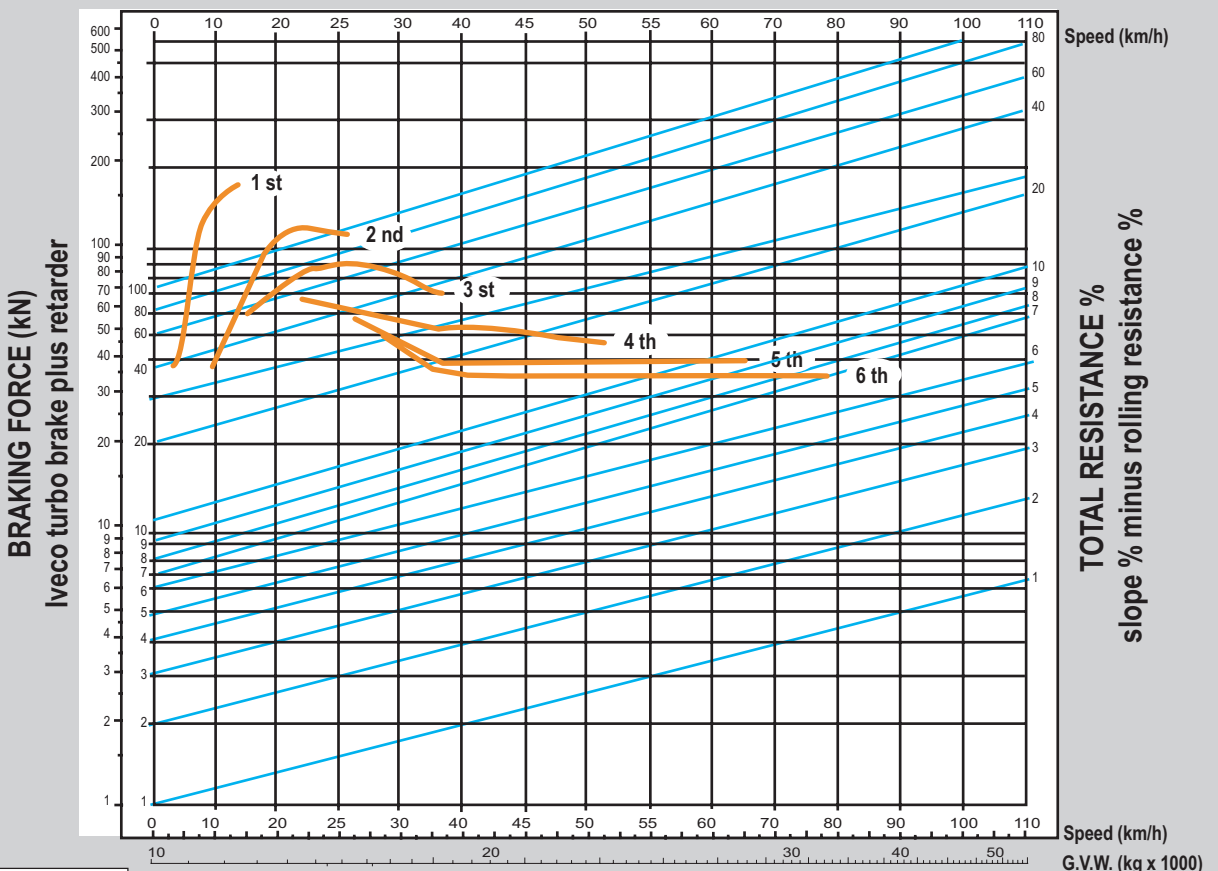
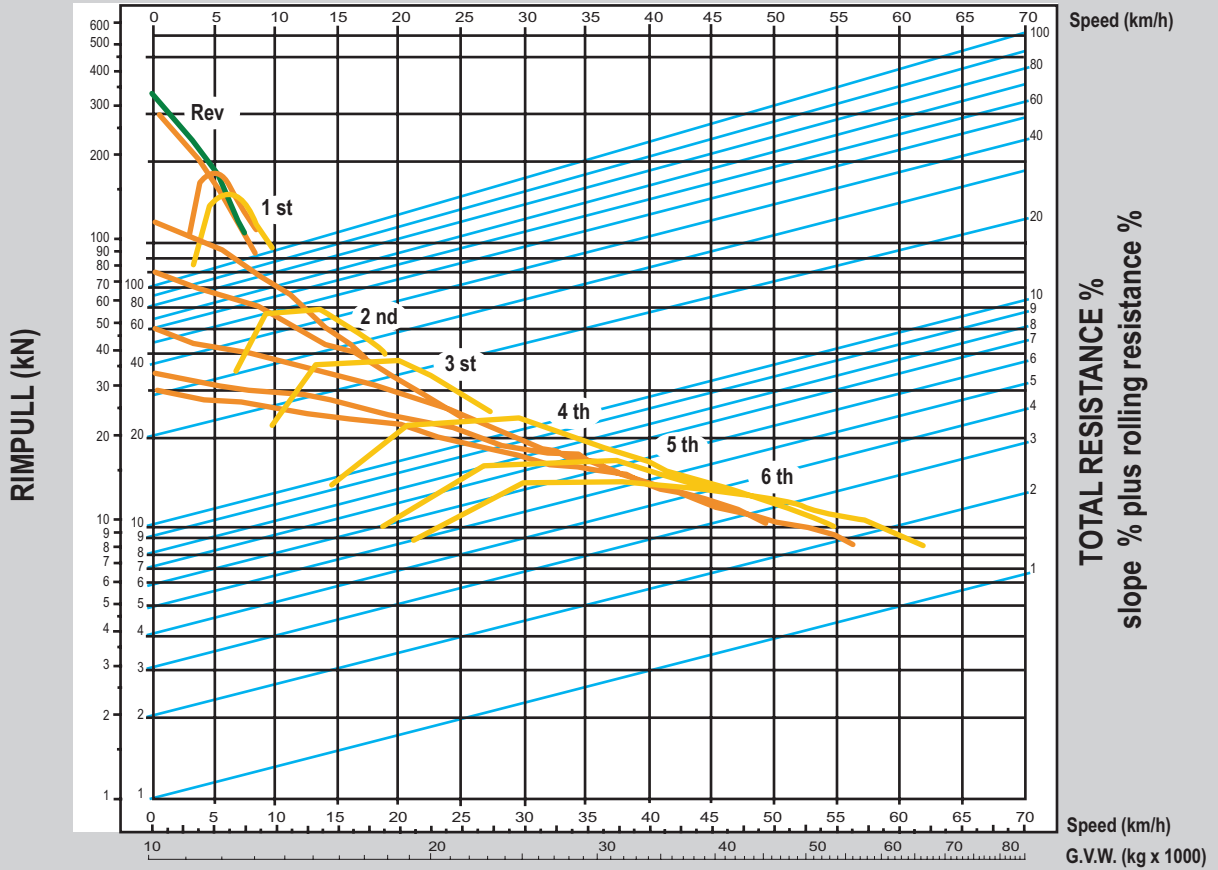
Fuel tank: 390 l 103.0USG

Rear axle: 35 l 9.2USG

Hydraulic system oil: 243 l 64.1USG

Final reductions oil (each): 4,5 l 1.2USG

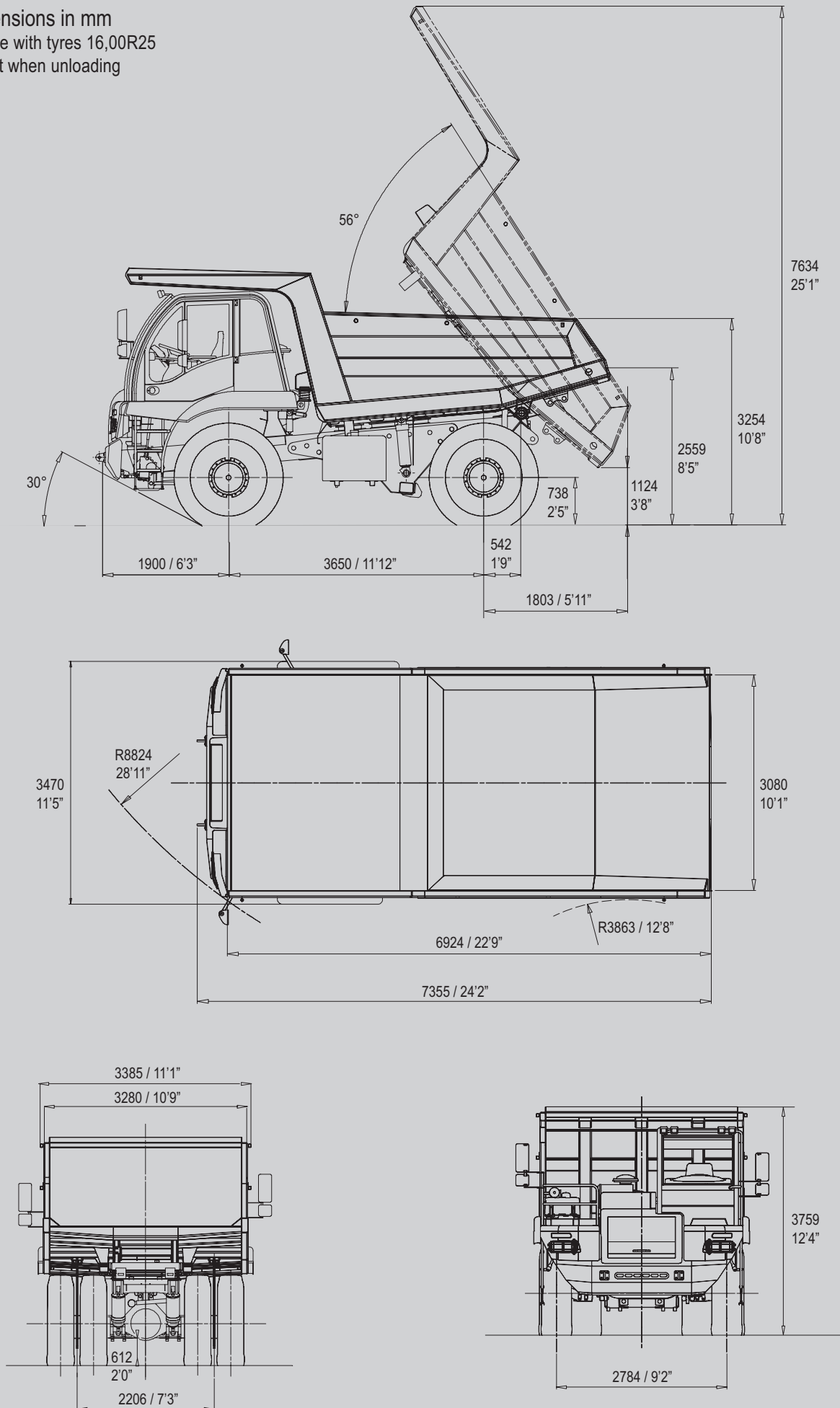
From the meeting between the vehicle M.T.T. and the sloped line corresponding to the total resistance %, cross to the left to determine the corresponding gear and coming down, the vehicle maximum speed.



ROLLING RESISTANCE		
Road surface conditions	for gross weight t	%
Asphalt - Cement	15kg	1,5%
Compact dirt surface	20kg	2,0%
Mud on solid roadbed	40kg	4,0%
Beaten snow	25kg	2,5%
Soft snow	45kg	4,5%
Sand - Gravel	100kg	10,0%

Rigid Dumper RD 28C

Dimensions in mm
Vehicle with tyres 16,00R25
Height when unloading



Rigid Dumper RD 28C



Rigid Dumper

RD 28C



Characteristics and equipment are subject to changes without prior notice

M.K.T.- 04.06- A3500891

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