

- Engine
- Power
- Transmission
- G.V.W.
- Payload
- Capacity Struck
- Headped (SAE 2:1)

Deutz TCD 2015 V8

480kW (653 HP)

Automatic

86.850 kg

49.000 kg

23 m³

32 m³

ENGLISH 03-2008



MOTOR

Diesel V 8 90°-angle, intercooler 4-valves-technology, electronic injection system with solenoid valves.

Emissions: EU 2004/96 Stage 3A (Europa) ed EPA Off-road Tier3 (USA)
Make and type: DEUTZ TCD 2015 V8
Stroke bore: 132x145 mm
Total displacement: 15900 cm³
Max power: 480kw (653HP) @ 2100rpm
Max torque: 2800 Nm @ 1300-1500 rpm

Engine brake Cold start -26°C



PERFORMANCE

With 21.00R35 tyres

gears	gears ratio	Km/h	mph
1	4,00	10,2	66,3
2	2,68	15,2	9,4
3	2,01	20,3	12,6
4	1,35	30,2	18,7
5	1,00	40,8	25,3
6	0,67	60,8	37,7
1 RM	5,15	7,9	4,9
2 RM	3,46	11,8	7,3



TRANSMISSION

Automatic transmission Allison H6610A with 6 forward speeds and 2 reverse. Hydraulic torque converter, multiplication ratio(stall torque) 1:177

Optional: Integrated hydrodynamic retarder between converter and gearbox.



REAR AXLE

KESSLER axle.

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

Central reduction ratio: 1:3,273
Final reduction ratio: 1:5,895
Total reduction ratio: 1:19,29

Optional: Rear ratio axle for max. speed 70km/h

3000

TYRES

Interchangeable wheels with steel disk 15"x35"x3" Tubeless radial tyres 21.00R35



STEERING

Conformity to ISO5010, SAE J53

Hydrostatically driven Steering through ORBITROL, with system Q-amp

Double action two cylinders. Gear pump flanged to the gear. Max working pressure: 210 bar

Radial piston emergency pump driven by the transmission.

Adjustable steering column/wheel.



BRAKES

With independent circuits, conforming to SAE J1473 OCT90 and ISO3450-1985.

Service brake: Dry disk pneumatically-hydraulically driven for front axle, wet disc for rear axle.

Parking brake: pneumatically controlled parking disk brake on propeller shaft, rear axle power take-off

auxiliary service brake: pneumatically controlled with manual drive, wet disc for rear axle.

Optional: Retarder brake between torque converter and gearbox.



SUSPENSION

Front: independent steering wheels, 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.



to the chassis.

ELECTRICAL SYSTEM

2 batteries:		12V / 170Ah
Voltage:		24V
Alternator:		28V / 80Ah
Starter motor:		6,6kw
All cables hav	e identification number, sheath protection	and fastened

Multiplex system with CAN bus communication between engine control unit, transmission, body computer and peripheral input/output. Dashboard with incorporated multi-function graphic display .



BODY TIPPING SYSTEM

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

Two gear pumps driven by a gearbox PTO (flow: 320 l/min @ 1500 rpm) Tipping valve with electropneumatic control on/off, with possible mechanical control for emergency or service.



BODY

Walls and bottom in high abrasion resistance steel.		
Hardness:	HB	400
Tensile strength:	1000 N/n	nm²
UTS:		
	2 mm 0.4	
	0 mm 0.3	9 in
	2 mm 0.4	7 in
Elastic pads between body and chassis.		
Tipping angle:	65	5,5°
Rising time:		12"
Lowering time:		12"
Body heating system.		
Body capacity:		
Struck:	23m ³ 30	
Heaped (SAE 2:1):	32m ³ 41	yd ³
Protection structure integral cab according SAE J1040 I	SO3471	
(ROPS) and according to SAE J231 ISO3449 (FOPS).		
Optional: rock 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 a variable amount of grease according to the conditions of vehicle use.



CAB

Conforming to FOPS SAE J231, ISO3449

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

Compressed air quick coupling to clean cab.

Athermic glasses

Door with glazing in the lower part for 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

Automatic climate control with pollen filter.

Optional:

Work lights on the top of the cab.

RDS car radio

Refrigerator

Reverse gear videocamera

Heater



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:

Emergency engine switch on the ground.

Automatic control of the body



SERVICE DATA(I)

For specifications of the fluids, see the Us		Mainte	enance Manual.
Engine oil:	48		12.6 US Gals
Gearbox oil:	68		17.9 US Gals
Cooling circuit:	80		21.1 US Gals
Fuel tank:	600		158.5 US Gals
Rear axle:	100		26.4 US Gals
Hydraulic system oil:	550		145.2 US Gals
Brakes hydraulic system oil:	8		2.1 US Gals
Final reductions oil (each):			1.8 US Gals



PNEUMATIC SYSTEM

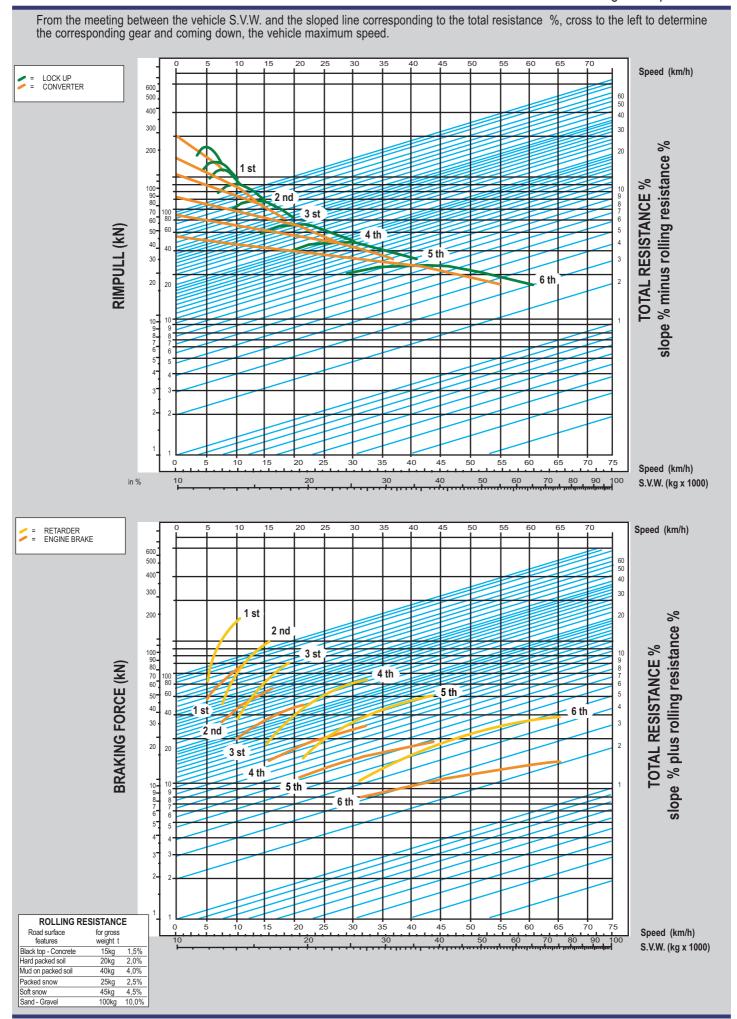
Two-cylinder air compressor. Air drier.	
Air tanks n° 5	301.
Pneumatic circuit for parking brake, auxiliary service brake, seat	
suspension, horn and to take up air in the cab.	

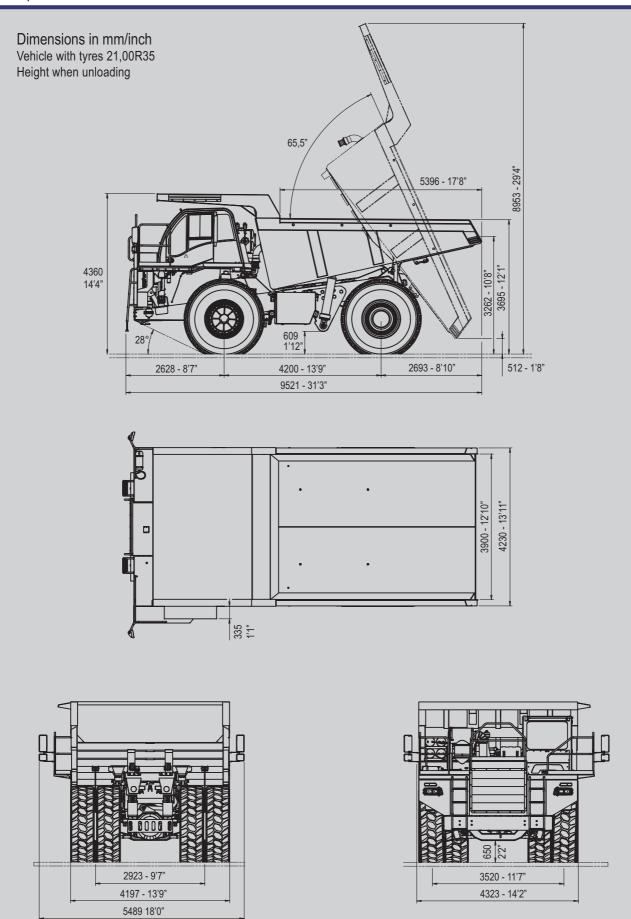


WEIGHTS Kg

	kg	TARE (*) lb	kg F	PAYLOAD Ib	kg TC	OTAL WEIGHT lb
Front axle	20.290	44.732	9.620	21.208	29.910	65.940
Rear axle	17.560	38.713	39.380	86.818	56.940	125.531
Total	37.850	83.445	49.000	117.026	86.850	200.471

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

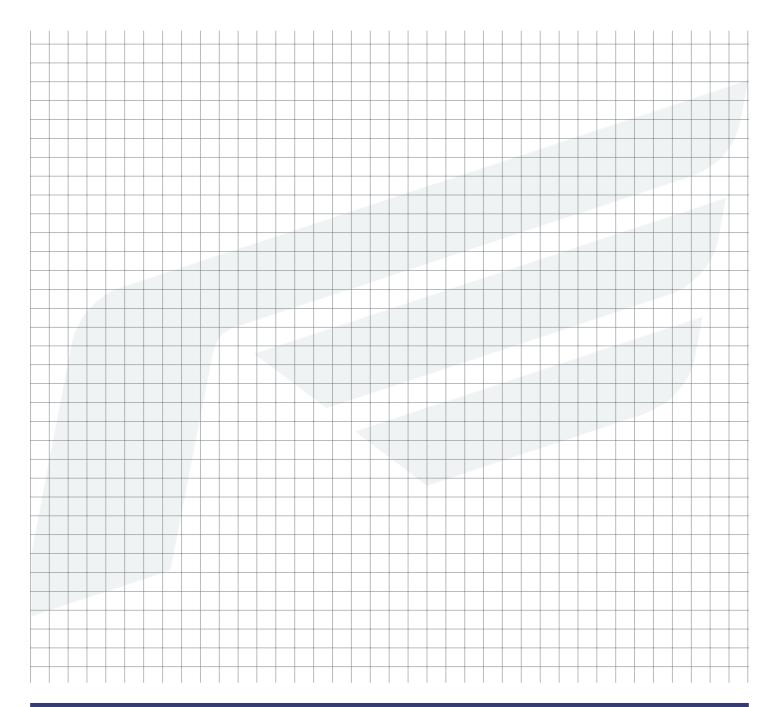






Rigid Dumper

RD 50



Characteristics and equipment are subject to changes without prior notice

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ASTRA Veicoli Industriali S.p.A. Via Caorsana, 79 29100 Piacenza (Italy) Tel. ++39-523.5431 Fax ++39 523.591773 www.astraspa.com

DEALER