

Vehicle range

255

405

605

705

905



30 METRIC TONS



DUMP TRUCK DP 255

PERLINI[®]
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Manufacturers since 1957

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ENGINE

Model	Detroit Diesel S60
Type	4 cycle - water cooled
Air system	Turbocharged - air-to-air charge cooling
N° of cylinders	6 in line
Bore x stroke	130 x 160 mm
Displacement	12,7 litres
Gross power SAE J1995	298 kW (400 HP) at 2100 rpm
Max torque	1898 Nm at 1350 rpm

TIRES

Singly mounted at front and dually at rear, with interchangeable wheel rims.

Standard tire size	16.00 x 25"
Standard rim size	11.25 x 25"

SUSPENSIONS

Front - Independent, Perlini original, oil pneumatic suspensions, with integral shock absorber. Directly bolted to the frame.

Stroke

Rear - Perlini original, oil pneumatic suspensions with integral shock absorbers. Connected to the frame by means of ball joints.

Stroke

STEERING

Independent hydraulic system with two double acting cylinder, controlled by a ball-and-nut type powersteering gear.

An auxiliary electric-motor pump automatically engages when the main pump is not operated.

Max. allowable pressure

Pump flow rate

Turning radius

MASSES

Net mass	17.800 kg
Payload	30.000 kg
Gross compressive mass	47.800 kg

Weight distribution	loaded	empty
Front	33%	48%
Rear	67%	52%

BODY

Ribwork structured body, internally plated with high yield strength steel (1000 N/mm²), strongly abrasion resistant (400 HB). The dual slope bottom plate provides excellent load retention, avoiding spillage on gradients.

The body rests flexibly on the plates by means of rubber pads.

Standard thickness

Bottom plate

Sidewall plate

Front plate

Canopy

Capacity

Struck

Heaped (SAE 2:1)

Dimensions at empty vehicle (mm)

All dimensions are approximate

TRANSMISSION

Automatic transmission Allison HD 4060 with electronic control.

Downshift and reverse inhibitor: Torque converter TC-541 and automatic lock-up clutch.

Torque conversion

PERFORMANCES

Gear	1	2	3	4	5	6	R
Ratio	3,51	1,91	1,43	1,00	0,74	0,64	4,80
Speed	11,8	21,7	29,0	41,5	56,0	58,0	8,60

FRAME

The box sectioned longitudinal members made of opposed, "C" shaped, high yield strength profiles, are connected by tubular cross members with special junctions which eliminates torsional stress concentration.

BRAKES

Service - Drum type, self adjusting, air operated through two separate circuits, one for front and one for rear.

Drum dimensions (front and rear)

Emergency - Due to the two separate circuits, braking is assured even in case of failure of one circuit.

Parking - Drum type, self adjusting, acts on the front and rear service brakes.

Spring applied and pneumatic release.

Manoeuvre - Acting on the service brakes of the rear wheels.

Controlled by a lever in the cab, activates braking during loading and unloading.

Engine brake - The engine brake converts a power producing diesel engine into a power absorbing air compressor. The function is by electric control.

Max. braking power

Retarder (optional) - Hydraulic retarder incorporated in the Allison transmission.

Braking power

STANDARD EQUIPMENT

Jacobs engine brake - Diesel engine electric starting - Automatic powershift transmission with downshift inhibitor - Interchangeable brakes - Parking brake - Manoeuvre brake system - Standard tires - Powersteering system - Dry air filters with clogging indicators - Headlights with dimmer switch - Directional signals and stop and tail lights - Back up lights and alarm - Warning Horn - Type-tested windshield with washer and wiper - Rock ejectors and towing hook - Locking system for lifted body - Insulated and sound proofed cab - Cushioned and adjustable operator's seat - Adjustable steering wheel - Heater-defroster - Cab dash according to EEC regulations - Dome light - Tool box - Mirrors, left and right.

OPTIONAL EQUIPMENT

Heavy duty body (bottom 20 mm, sidewall 12 mm, front 15 mm, canopy 10 mm) - Standard body with body liners - Front and side body canopy protection - Rear tailgate - Automatic central lubricating system - Weighting system - Pre-heating system for low temperature starting - Platform for cab access, left side - Rear view mirrors, heated - Monitor in cab for rear view - Hydraulic retarder - Radio.

This vehicle complies with the ECC safety standards - Standard 2006/42.

