

Vehicle range

255

405

605

705

905



53 METRIC TONS



DUMP TRUCK DP 605



Manufacturers since 1957



DUMP TRUCK DP 605

DP 605 SPECIFICATIONS

Maximum payload: 53.000 kg • Capacity: 35 m³

ENGINE* *Manufacturer's data

Model	Detroit Diesel MTU 12V - 2000 TIER2
Type	4 cycle water cooled
Air system	Turbocharged with intercooler
N° of cylinders	12
Bore x stroke	130 x 150 mm
Displacement	23,89 lt
Gross power SAE J1995	567 kW (760 HP) at 2100 rpm
Max Torque	3309 Nm at 1350 rpm
Air Filter	Dry type, heavy duty, double elements, precleaner and dust indicator
Control	Electronic with DDEC system – real time diagnostic capabilities

DRIVE AXLE

Perlini heavy duty with single central reduction and built-in differential, full floating axle shafts and four-planetaries epicyclic train at the wheels.

Central reduction	3,53 : 1
Epicyclic reduction	5,78 : 1
Total reduction	20,40 : 1

FRAME

Box sectioned longitudinal members made of high yield strength steel plate, connected to each other by means of tubular cross members with special torsion proof joints.

TIRES

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

Tire size radial E4	21.00 x 35"
Rim size	15.00 x 35"

BODY

Structure Ribwork with dual slope bottom plate
Material Special steel with high tensile strength (1250 N/mm²)

Brinnell hardness 400 HB
Body canopy ROPS/FOPS ISO 3471 and ISO 3449

Thickness (standard body)	
Floor	20 mm
Front	12 mm
Side	12 mm

Capacities (standard body)	
Struck	26,2 m ³
Heaped SAE 2:1	34,6 m ³

DUMPING

Rear dumping by means of twin hoist cylinder, 2 stages, telescopic double acting, mounted outside the frame.

Hydraulic pump flow	330 litres/min
Max pressure	150 bar
Insertion	Only during the unloading phase
Dumping time	16 sec
Dumping angle	53°

ELECTRICAL SYSTEM

Tension	24 V
Batteries	n° 4, 13 V, 176 Ah each
Alternator	24 V - 100 A

TRANSMISSION

Full automatic, planetary gear, multidisc clutches hydraulically activated.

Model	Allison H 6610
Torque converter	3 elements
Lock-up clutch	Automatically inserted - effective in all forward ranges
Mounting	Remote type
Shift control	Electronic shift control
Gears	6 forward speeds and 2 reverse
Retarder	Coupling type rotor between fixed stators

STEERING - ISO 5010

Independent hydraulic system with twin double-acting cylinders and separate hydraulic circuit. An electric pump inserted into the hydraulic circuit allows steering in case of power source failure.

Main pump flow	230 litres/min
Max. pressure	150 bar
Turning radius	10,5 m

SUSPENSIONS

Front - Original Perlini, fork type, independent, oil pneumatic, with built-in shock absorbers.

Stroke 270 mm

Rear - Original Perlini, oil pneumatic, with built-in shock absorbers.

Stroke 270 mm

BRAKES

Service - Self-adjusting disc type, air over oil, activated with two separate circuits for front and rear.

Disc dimensions 716 x 48 mm

Parking - Disc type, spring applied, pneumatic release, actuates on drive shaft.

Disc diameter 440 mm

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

Manoeuvre - Acting on the parking brakes with pneumatic system. Controlled by a lever in the cab, activates braking during loading and unloading.

Retarder - Hydraulic coupling type rotor between fixed stators. Electrically controlled by the driver in the cab. It acts automatically in case of engine overspeed.

Braking power 447 kW (600 HP) at 2100 rpm

Engine brake (optional) 298 kW (400 HP) at 2100 rpm

ABS - Anti-blocking system of wheels while braking. It assures truck control while braking, even on low grip surfaces.

ASR - Traction control. Automatically activating in case of skidding of the driving wheels, it grants the truck stability even on upward slopes with low grip sections.

PERFORMANCES

Gear	1	2	3	4	5	6	R1	R2
Ratio	4,00	2,68	2,01	1,35	1,00	0,67	5,12	3,46
Speed	9,5	14,4	19,2	28,4	38,4	57,3	7,4	10,7



STANDARD EQUIPMENT

- Electric starting engine.
- Electronic powershift transmission.
- Hydraulic retarder.
- Interchangeable disc brakes.
- Body heating by means of exhaust smokes.
- Parking disc brake.
- Manoeuvre brake system.
- Power steering system with emergency pump.
- Dry air filters with clogging indicators.
- Headlights with dimmer switch.
- Directional signals and stop and tail lights.
- Automatic central lubricating system.
- Back-up lights and alarm.
- 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.
- Air dryer on pneumatic system.
- Ashtray.
- Alternator 100A.
- Tires Radial E4.
- Right and left rear-view mirrors.
- Air conditioner.
- ABS-ASR systems.

OPTIONAL EQUIPMENT

- Heavy duty body (bottom 25 mm, sidewall 12 mm, front 15 mm).
- Xenon lights.
- Jacobs engine brake.
- Engine pre-heating system.
- Double fuel filter with water separator.
- Front and side body canopy protection.
- Rear view mirrors, heated.
- Monitor in cab for rear view.
- Platform for cab access, left side.
- On board weighting system.
- Tachograph.
- Rapid fuel filling system.
- AM/FM radio with cd player.

CAB

Two doors design, with controls arrangement and driver's space conforming with EEC standard. It rests flexibly on the frame by means of special rubber elements. Heat insulated and sound proofed, it is equipped with a comfortable weight-adjusting operator's seat, adjustable steering wheel and a complete and easy readable dash panel. Standard heater-defroster for normal climates.

MASSES *

**approximate values*

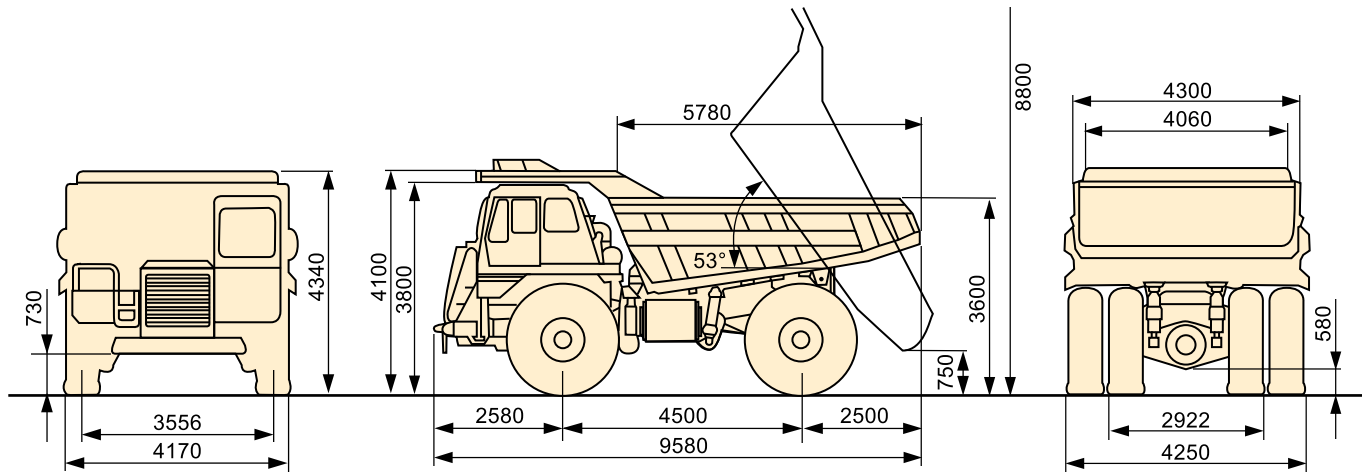
Empty weight.....	38.900 kg
Payload.....	53.000 kg
Gross vehicle weight.....	91.900 kg

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

SERVICE CAPACITIES (litres)

Engine oil.....	94
Allison transmission oil.....	80
Drive axle oil.....	200
Dumping system oil.....	160
Steering system oil.....	60
Suspensions oil (total).....	70
Cooling system.....	160
Fuel tank.....	700

Dimensions at empty vehicle (mm) - All dimensions are approximate



Specifications, weights and dimensions can be changed at any time without previous notice.

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

53 metric tons



Perlini Equipment S.p.a.
Via Villanova, 75 - S.R. 11 - I - 37047 San Bonifacio (VR)
Tel. +39 045 7611333 - Fax: +39 045 7612221
sales@perlini.com - www.perlini.com

