

Vehicle range

255

405

605

705

905



95 METRIC TONS



DUMP TRUCK DP 905

PERLINI[®]
Equipment
veicoli • dumpers • meccanica industriale

Manufacturers since 1957



DUMP TRUCK DP 905

DP 905 SPECIFICATIONS

Maximum payload: 95.000 kg • Capacity: 61 m³

ENGINE* *Manufacturer's data

| | |
|-----------------------|--|
| Model | Detroit Diesel MTU 16V - 2000 TIER 2 |
| Type | 4 cycle water cooled |
| Air system | Turbocharged with intercooler |
| N° of cylinders | 16 |
| Bore x stroke | 130 x 150 mm |
| Displacement | 31,86 lt |
| Gross power SAE J1995 | 783 kW (1050 HP) at 2100 rpm |
| Max Torque | 4630 Nm at 1350 rpm |
| Air Filter | Dry type, heavy duty, double elements, precleaner and dust indicator |
| Control | Electronic with DDEC IV 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 | 2,45 : 1 |
| Epicyclic reduction | 9,125 : 1 |
| Total reduction | 22,35 : 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 | 27.00 x 49" |
| Rim size | 19.50 x 49" |

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 | 42,4 m ³ |
| Heaped SAE 2:1 | 61,0 m ³ |

DUMPING

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

| | |
|---------------------|---------------------------------|
| Hydraulic pump flow | 430 litres/min |
| Max pressure | 200 bar |
| Insertion | Only during the unloading phase |
| Dumping time | 18 sec |
| Dumping angle | 52° |

ELECTRICAL SYSTEM

| | |
|------------|-------------------------|
| Tension | 24 V |
| Batteries | n° 4, 12 V, 176 Ah each |
| Alternator | 24 V - 100 A |

TRANSMISSION

Full automatic, planetary gear, multidisc clutches hydraulically activated.

| | |
|------------------|--|
| Model | Allison H 8610 |
| 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 one 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 | 350 litres/min |
| Max. pressure | 150 bar |
| Turning radius | 12,5 m |

SUSPENSIONS

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

| | |
|--------|--------|
| Stroke | 290 mm |
|--------|--------|

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

| | |
|--------|--------|
| Stroke | 290 mm |
|--------|--------|

BRAKES

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

| | |
|-----------------|---------------|
| Disc dimensions | 991 x 31,8 mm |
|-----------------|---------------|

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

| | |
|---------------|--------|
| Disc diameter | 460 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 | 1055 kW (1415 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 | R |
| Ratio | 4,24 | 2,32 | 1,69 | 1,31 | 1,00 | 0,73 | 5,75 |
| Speed | 10,80 | 19,70 | 27,10 | 35,00 | 45,80 | 62,80 | 7,90 |



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.
- Automatic central lubricating system.
- Headlights with dimmer switch.
- Directional signals and stop and tail lights.
- 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).
- Engine pre-heating system.
- Front and side body canopy protection.
- Xenon lights.
- Rear view mirrors, heated.
- Monitor in cab for rear view.
- Platform for cab access, left side.
- On board weighting system.
- Rapid fuel filling system.
- Tachograph.
- 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. Standar heater-defroster for normal climates.

MASSES *

**approximate values*

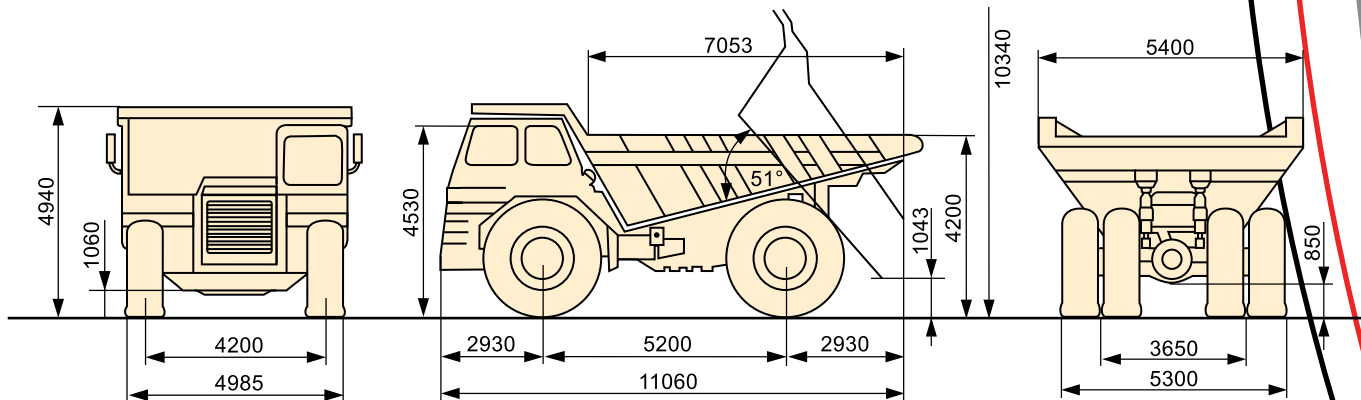
| | |
|---------------------------|------------|
| Empty weight..... | 64.000 kg |
| Payload..... | 95.000 kg |
| Gross vehicle weight..... | 159.000 kg |

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

SERVICE CAPACITIES (litres)

| | |
|-------------------------------|-----|
| Engine oil..... | 107 |
| Allison transmission oil..... | 100 |
| Drive axle oil..... | 330 |
| Dumping system oil..... | 180 |
| Steering system oil..... | 80 |
| Suspensions oil (total)..... | 80 |
| Cooling system..... | 340 |
| Fuel tank..... | 950 |

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.

95 metric tons



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