

## Vehicle range

255

405

605

705

**905**



## 95 METRIC TONS



DUMP TRUCK DP 905



Manufacturers since 1957



Courtesy of Machine.Market

## DP 905 SPECIFICATIONS

Maximum payload: 95.000 kg • Capacity: 61 m<sup>3</sup>

### 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/mm <sup>2</sup> )

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 <sup>3</sup>
Heaped SAE 2:1	61,0 m <sup>3</sup>

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

Stroke	290 mm
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### BRAKES

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

Disc dimensions	991 x 31,8 mm
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**Parking** - Disc type, spring applied, pneumatic release, actuates on drive shaft.

Disc diameter	460 mm
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**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
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**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

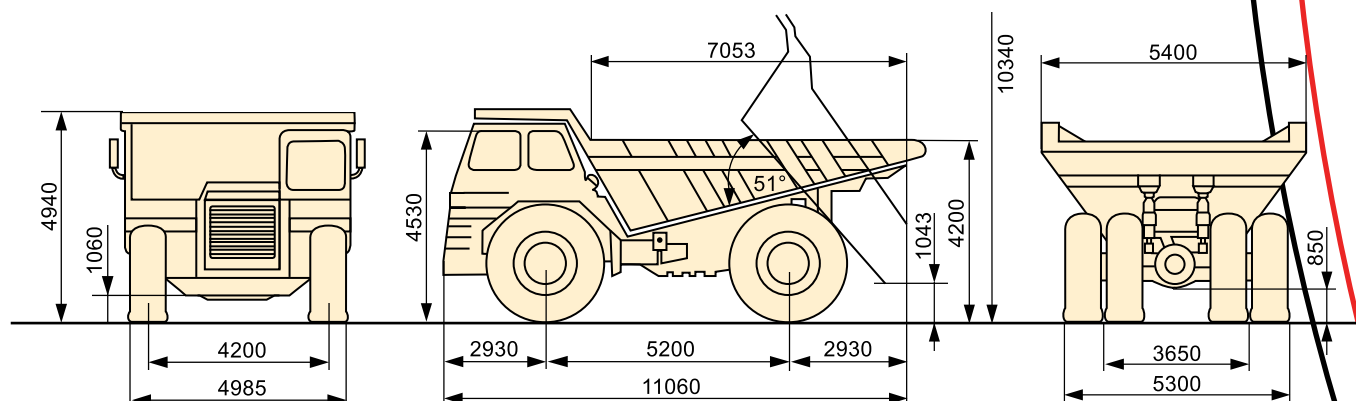
Empty weight.....	64.000 kg
Payload.....	95.000 kg
Gross vehicle weight.....	159.000 kg

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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