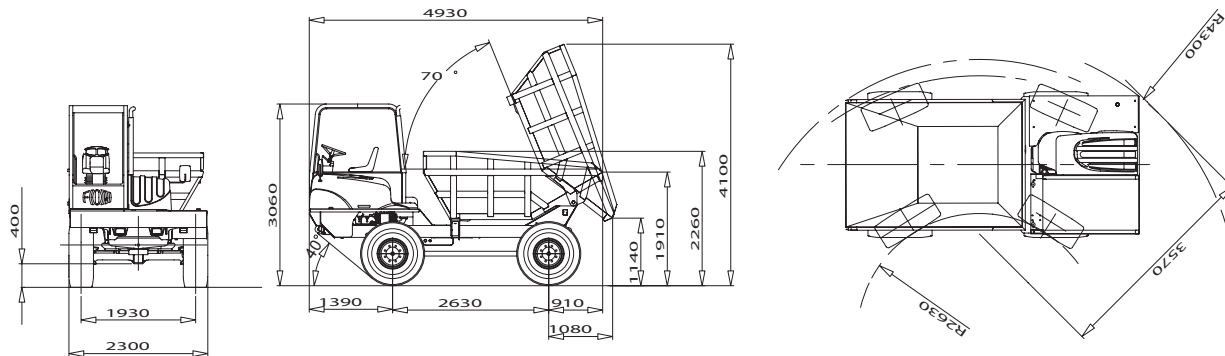


Dumper D 100



DIESEL ENGINE

Make/Type: PERKINS 1104C-44T "FASTRAM" direct fuel injection turbo aspirated diesel engine. Max power 74,5 KW (101 HP) at 2,300 rpm. Max torque 412 Nm at 1,400 rpm. N 4 cylinders. Displacement 4,400 cc. Bore and stroke 105 x 127 mm. Dry air cartridge filter. Water-cooled. Conforms with exhaust emission directive 97/68 CE and EPA regulations.

ELECTRICAL SYSTEM

Starter motor 12V - 2.8 kW.
Alternator 12 V - 55 Ampere.
Battery 12 V - 132 Amp/h - (600 Amp).
Electrical engine ignition/stop device.
Plug heater cold starting device.

DRIVE

"Automotive" hydrostatic transmission with variable-displacement pump and automatic variable-displacement hydraulic motor. Drive enable safety device on the accelerator pedal. Air/oil heat exchanger for oil cooling. Mechanical 2-speed gearbox (with electrohydraulic selector for working speed and drive speed), enbloc with the rear axle.

Speed (km/h)

1 st 0 - 4.6 Km/h 0 - 4.6 Km/h
2 nd 0 - 10.6 Km/h 0 - 10.6 Km/h
3 rd 0 - 13.7 Km/h 0 - 13.7 Km/h
4 th 0 - 30.0 Km/h 0 - 30.0 Km/h
Traction / weight ratio: 44 %

STEERING

Hydrostatic (ORBITROL type), "Load sensing" of dual displacement, with steering wheel control. Swept volume: 200/100 cc - Max working pressure: 190 bar - 4-wheel steering by means of n°2 double steering - cylinders acting as connection rods. In-cab steering mode selector. Available modes: 2- wheel steering/4- wheel steering/"Crabbing". Minimum inside wheel turning radius: 2,060 mm - Minimum outside wheel turning radius: 4,300 mm

AXLES

FRONT: oscillating ($\pm 6,5^\circ$), steering and bearing

type with planetary reduction at the wheel hubs. REAR: steering, bearing type with planetary reductions at the wheel hubs.

TYRES

Front and rear tyres 16.0/70 - 20

BRAKES

SERVICE AND EMERGENCY BRAKES: disc-brakes in oil bath housed inside the hubs, acting on all 4 wheels, fed by single pump on independent split circuit. PARKING BRAKE: disc brake on front axle with lever mechanical control.

CHASSIS

Electrically welded high-tensile steel chassis. Hydraulic control for skip lift up by means of hydraulic double-action jacks.

HYDRAULIC SYSTEM

Gear pump - 1 way control valve
Max flow-rate: 54 l/min
Max pressure: 180 bar
Oil filter replaceable from the outside.
Pressurized closed circuit suction system.

SERVICE CAPACITIES

Fuel tank: 100 litres
Total hydraulic oil: 110 litres
Diesel engine oil: 7,5 litres

WEIGHTS AND CAPACITIES

On-road set-up with cab roof: 4,850 Kg
Load-carrying capacity (at max speed): 10,000 Kg
Skip capacity struck: 4,200 litres
Skip capacity heaped (SAE): 5,500 litres

DRIVING POST

Open safety ROPS-FOPS cab. Equipment on demand: front and rear windscreen with washer/wiper and/or closed cab. Swivel, mounted on a ball-bearing center-plate; anatomically designed, fully adjustable seat with safety belt. Instrumentation: engine ignition/off switch; cold starting device; hour meter. Warning lights: engine coolant temperature, hydraulic filter clogged, preheating, generator charge, direction

indicators, clearance lights, low-beams, engine oil pressure, fuel level, beacon, "warning". Headlight and direction indicators switch. Fuses and relays box (water proof).

MEASURES

Minimum transfer length: 4,930 mm
Max width: 2,340 mm
Max transfer height: 3,060 mm
Front pitch: 40°
Ground clearance (below differentials): 400 mm