

HYDRA 12

Hydraulic Mobile Pick-n-Carry Crane of 12T Capacity

MANHAND
A Part of Torre Industries

ESCORTS

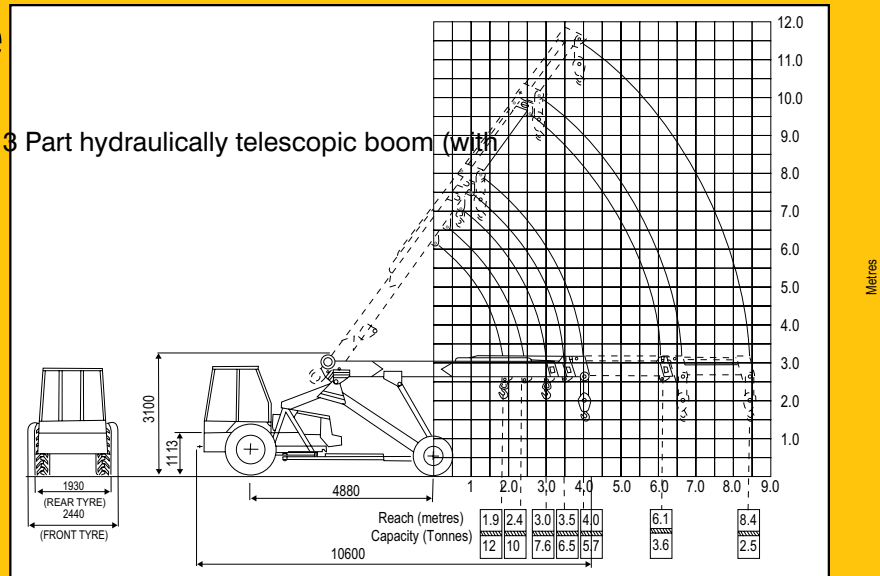


Pick 'n' Carry Crane Hydra-12

SALIENT FEATURES :

- an option for 2 part boom) for more clear outreach and high lift.
- Specifically built chassis for more reliability
- Heavy duty transmission specifically designed for crane application.
- Winch Motor for hoisting upto 10 MT.
- Articulated chassis for short turning radius.

3 Part hydraulically telescopic boom (with



1.5

Specifications :

Engine

Make & Model Simpson S-433, Four Cylinder, Water Cooled Diesel Engine
Rated power for crane 49 BHP @ 2200 RPM
(Max continuous engine rating 59 HP @ 2300 RPM)
or equivalent engine.

Transmission

Type Heavy duty transmission developed specially for crane application. Sliding Mesh, spur teeth gearbox. Six forward and two reverse speeds with high and low selector lever.

Speed Travel Speed 25 Kmph - restricted as per safety norms (without load)

Clutch Single plate, heavy duty dry friction type clutch plate especially designed for crane application.

Steering

Type Articulated power steering, hydraulically controlled through two double acting jacks

Articulation Upto 56°
Turning radius 6.5 m

Operational Timings (no load at rated engine RPM)

	2 Part Boom	3 Part Boom
Steering (lock to lock)	6-10 secs	6-10 secs
Boom raising	23-28 secs	23-28 secs
Boom lowering	19-24 secs	19-24 secs
Telescopic extension in	9-11 secs	17-22 secs
Telescopic extension out	13-15 secs	23-28 secs
Hoist Line speed	53m/min. max. (Single line)	

Brakes

Front Wheel Pneumatically assisted hydraulic brakes
Rear Wheel Mechanical shoe brakes actuated through a slave cylinder
Parking Mechanically actuated at rear wheels

Track

Front 1930 mm (center of twin wheels)
Rear 1570 mm (center of wheels)

Tyres

Front 11.00 x 20 - 16 PR (Four Nos.)
Rear 13.00 x 24 - 12 PR (Two Nos.)

Boom

Telescoping Heavy duty, Three part box type hydraulically operated
Derricking Through double acting jacks

Hoist Mechanism

Hoist Four falls, hydraulic winch (capacity: 10 T). Rope diameter 13 mm

Hydraulic System

Pump Pin Vane Type Hydraulic pump
Control Valve 4 spool control valve with built in pressure relief valve for trouble free operation
Hydraulic Filter Suction line has a 100 mesh inline strainer while return line has 25 micron full flow filter

Electrical System

Type 12V Single battery, Negative earth

Capacities

Fuel Tank 45 ltrs
Hydraulic Tank 90 ltrs
Axle Reduction 2.45 ltrs
Operating Weight (Kgs) 10500

Safety System

- Overload audio warning system
- Safety brakes on hoist
- Cylinder guard for protection
- Overhoist audio warning system
- Hose protection failure device

Standard Accessories

- All weather cabin
- Lift Cylinder Guard
- Front Bumper
- Rear View Mirror
- Reflectors
- Turn & Reverse lamp

Optional Accessories

- Fly jib : 4.1m length (2 pt)
- Spark Arrestor
- Safe load indicator with hydraulic cut off
- Fly jib : 2.3m length (3 pt)
- Air conditioned cabin
- Extra hooks
- Fire Extinguisher
- Steering Wheel

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