

# HYDRA 14

- ◆ Slotted Boom
- ◆ Rope Compensation
- ◆ Higher Winch Capacity



## ENGINE

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 2 double acting jacks
- Articulation** upto 56°
- Turning Radius** 6.5m

## OPERATIONAL TIMINGS (no load at rated engine RPM)

- Steering (lock to lock)** 6-10 secs
- Boom Raising** 23-28 secs
- Boom Lowering** 19-24 secs
- Telescoping**
  - Extension in 9-11 secs
  - Extension out 14-16 secs
- Hoist Line Speed** 53m/min max. (Single line)

## BRAKES

- Front Wheel** Pneumatically assisted hydraulic brakes
- Rear Wheel** Mechanical shoe brakes actuated thru' a slave cylinder
- Parking** Mechanically actuated at rear wheels

## TRACK

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

## TYRES

- Front** 11.00x20-16PR (Four Nos.), Inflation Pressure 110-115 PSI
- Rear** 13.00x24-12PR (Two Nos.), Inflation Pressure 35 PSI Water Ballasted (100 Kg Each Tyre)

## BOOM

- Telescoping** Three part box type hydraulically operated, Rope compensated & synchronised
- Derricking** Through double acting jacks.

## HOIST MECHANISM

- Hoist** Hydraulic winch. Six falls (Winch Capacity 12T) Four Falls (Winch Capacity 10T) Rope dia 13mm

## HYDRAULIC SYSTEM

- Pump** Vane Type Hydraulic pump.
- Control Valve** 4 spool control valve with built in pressure relief valve and precision control
- 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(KG)

Operating Weight (Kg) 11200 Kg

## SAFETY SYSTEM

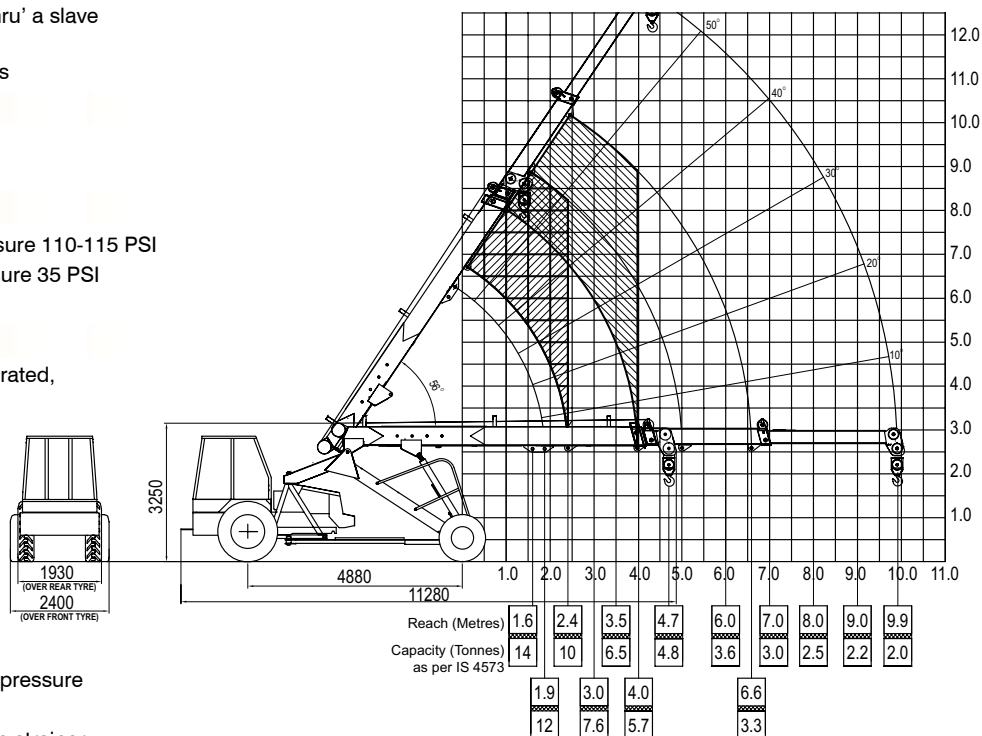
- Overload audio warning system.
- Safety brakes on hoist,
- Hose protection failure device
- Cylinder guard for protection

## STANDARD ACCESSORIES

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

## OPTIONAL ACCESSORIES

- Fly Jib 2.3 m length
- Fire Extinguisher
- Spark Arrestor
- Air Conditioned cabin
- Steering Wheel
- Extra hooks
- Man Carrying Basket
- Forks
- Safe load indicator with hydraulic cut-off



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Plot No: 2, Sector-13, Faridabad 121 007

Tel.: (0129) 2221481/2261323/2283073/2286694 Fax: (0129) 2283065/2261323

Website: www.ecel.com