

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 Km/h - 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(FourNos.),InflationPressure110-115PSI
- Rear** 13.00x24-12PR(TwoNos.),InflationPressure35PSI
Water Ballasted (100 Kg Each Tyre)

BOOM

- Telescoping** Three part box type hydraulically operated, synchronised Slotted Boom with Rope compensated Mechanism
- Derricking** Through double acting jacks.

HOIST MECHANISM

- Hoist** Hydraulic winch.
Six falls (Winch Capacity 12T)
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.**
- Hoist 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**
- Safe load indicator with hydraulic cut-off**

