Hydraulic Mobile Crane

14 Tonnes Capacity
Rough terrain and rugged articulated pick n move crane.

- Simpson engine
- Best in class stability
- Better creep speed
- Heavy duty and robust construction
- Ergonomically designed cabin

Nothing beats an ACE
## Specifications

**LIFTING CAPACITY**  
(On wheels)  
14 Tonnes

**ENGINE**  
Simpson’s S433(I) F1 (CEV BS-III), 4 cylinder, water cooled diesel engine OR equivalent engine

**Rated Power**  
48 BHP (36KW) at 2200 RPM

**TRANSMISSION**  
Heavy duty, sliding mesh with 6 forward and 2 reverse speeds with high low range selector.

**Clutch**  
Heavy duty, single, dry friction, cerametallic clutch plate with diaphragm type pressure plate.

**Top Speed**  
28 KMPH without load.

**HYDRAULIC SYSTEM**  
- Gear/Intra vane type main pump.  
- Four spools control valve. (heavy duty)  
- Suction line has 100 mesh size strainer while return line is fitted with 25 micron full flow filter,  
- Two double acting lift cylinders, two double acting steering cylinders and one double acting extension cylinder.

**POWER STEERING**  
Articulation through 2 hydraulic cylinders 55" articulation on either side and turning radius of 8.5 Mtrs. (approx) on outer rear wheels.

**BRAKES**  
Pneumatically assisted hydraulic brakes. Front and rear brakes are actuated through a single pedal.  
Parking brake is Provided.

**TELESCOPIC BOOM**  
Three part. boom with hydraulically operated extensions (11.25 mtrs. height)

**Telescoping Time**  
14 Seconds.

### BOOM LUFFING
- **Range**  
-4° to + 60°
- **Time**  
20 ± 3 Seconds.

### HOIST
- Winch is driven by hydraulic motor and fitted with hook block employing 4 falls of 13 mm dia rope.
- **Hoist Speed**  
50 Mtrs./Min. (Line speed)

### FLUID CAPACITIES
- **Air Cleaner**  
0.75 Ltrs.
- **Engine**  
8.00 Ltrs.
- **Fuel Tank**  
50.00 Ltrs.
- **Hydraulic Tank**  
125.00 Ltrs.
- **Transmission**  
57.00 Ltrs.

### ELECTRICAL SYSTEM
- 12V. Negative earth with 35 Amp. alternator and 75 Amp. hr. battery.

### TYRES
- **Front**  
11.00 x 20 - 16 PR (4 Nos.)
- **Rear**  
13.00 x 24 - 12 PR (2 Nos.)

### SAFETY
- Audio overload indication,  
- Hose failure protection,  
- Audio over hoisting indication,  
- Safety brakes on hoist,  
- Cylinder guards,

### STANDARD EQUIPMENT
- ROPS fully enclosed wide view cabin with rotomould canopy,  
- Front tyre protector,  
- Front and rear work lights,  
- Reflectors & rear view mirror,  
- Tool kit,  
- Gauges:  
  a) Water temperature.  
  b) Engine oil pressure.  
  c) RPM meter cum hour recorder  
  d) Air pressure

### OPTIONAL EQUIPMENT
- Fly jib,  
- Steering Wheel  
- Spark arrester  
- Air Brakes  
- 3 part slotted boom with self adjusting Hook Block (fully hydraulic-12.9 mtrs. height)  
- 4 part slotted boom with self adjusting Hook Block (one manual extension-15.5 mtrs. height)  
- Over hoisting hydraulic cutoff  
- Safe load indicator / LMI  
- City type double driving cabin  
- 4 part boom with max height of 16.3 mtrs.  
- 14 x 25 - 16 PR Rear Tyres

### OPERATING WEIGHT
12000 kgs.
1. STEERING WHEEL & CONTROLS
Steering wheel is provided as an optional feature, which along with ergonomically placed operator console and instrument cluster ensures ease of operation.

2. TRAVEL SPEED
Travel speed of 25 kmph provides faster inter-site movements.

3. ROPS CABIN
Wide view ROPS cabin with better visibility.

4. CITY TYPE DOUBLE DRIVING CABIN

5. MAIN FRAME
Heavy duty & robust construction.

6. SELF ADJUSTING HOOK BLOCK (Optional)
Provides for safe boom extension and prevents damage of wire rope.

7. LIFT CYLINDERS
Heavy duty lift cylinders ensure higher lifting capacities.

8. INCREASED VISIBILITY
Bigger size front windscreens and re-routing of hoses provide much better front visibility.

9. GROUND CLEARANCE
High ground clearance of 400mm for easier rough terrain operation.

10. STEERING CYLINDERS
700 mm stroke cylinders ensure proper steering even in loose, sandy & rocky terrains.

11. SLOTTED BOOM
For easier load positioning (Optional)

ACE 14 XW Model Crane fitted with 3 part boom (12.90 Mtr. height)

ACE 14 XW Model Crane fitted with 4 part boom (15.5 Mtrs. height and one manual Extension)
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ACE Action Construction Equipment Ltd.

ACE reserves the right to alter any specifications without prior notice. Dimensions, weights & capacities mentioned herein are variable by ±5%. Accessories & cranes are not part of the Standard Equipment.