





Features

- CAPACITY 85% Rating
- PICK 'N' CARRY -15 Tonne at 2.50m radius 360° SLEW (on Tyres) 8 Tonnes at 2.5m radius
- **BOOM** 4 SECTION 6.5m to 17.0m
- CARRIER 4 X 2
- MAXIMUM ROAD SPEED 35 km/hr

MOBILOAD 315

Superstructure Specification

SUPERSTRUCTURE FRAME

Fabricated from high tensile steel plates and sections. Mechanical lock on superstructure.

BOOM

6.5m - 17.0m centres 4-Section Boom comprising: 6.5m -13.5m 3-Section fully powered, fully synchronized boom plus 3.5m power - positioned Fly (4th) section providing 17.0m extended boom length

Maximum tip height: 19.5m

BOOM ELEVATION

Two double acting hydraulic cylinders mounted on large diameter bushes, fitted with combined cartridge type hydraulic lock and counter-balance valve to prevent ram collapse in the event of hydraulic failure. Boom Angle: Max 72°, Min -3°

SLEW SYSTEM

Hydraulic motor, driving a pinion through double reduction gear unit. The pinion meshes with internally cut slew ring gear for 360° smooth and precise continuous rotation. Spring applied hydraulically released multi plate brake.

Slew Speed: 1.4 rev/min (unladen)

HOIST SYSTEM

Hydraulic motor driving hoist barrel via reduction gear unit, fitted with counterbalance valve for controlled lowering of the load. Spring actuated hydraulically released multi plate brake.

Warning signal from 3rd wrap indicator provided.

Non spin hoist Rope: 13mm dia. and length 80m

Permissible Line Pull: 30 kN

HOOK BLOCK

16 Tonne capacity: 5 fall hook block

COUNTERWEIGHT

Dual counter weights mounted on rear of carrier frame and on superstructure.

LOAD MOMENT INDICATOR

LMI indicates the crane operating radius, permissible lifting load, actual hook load, length and angle of boom through display panel provided in the cab. Motion cut functions activated through signals from LMI. It cuts – derricking out, telescoping out and hoisting motion when overload condition is reached.

HYDRAULIC SYSTEMS

Pump Type:

Two-section hydraulic vane pump driven through transmission PTO.

Control Valve:

Double acting single spool lever control valve with relief pressure setting, Slew valve bank and tele, derrick and hoist valve bank in operator's cab.

Filter:

Return line filter with mechanical service indicator.

HYDRAULIC TANK

Capacity - 160 L

CARRY-DECK

Max. 2Te load can be placed within deck space for transportation with a speed of 15 kmph (max.).

OPTIONAL EQUIPMENT

Lattice boom extension

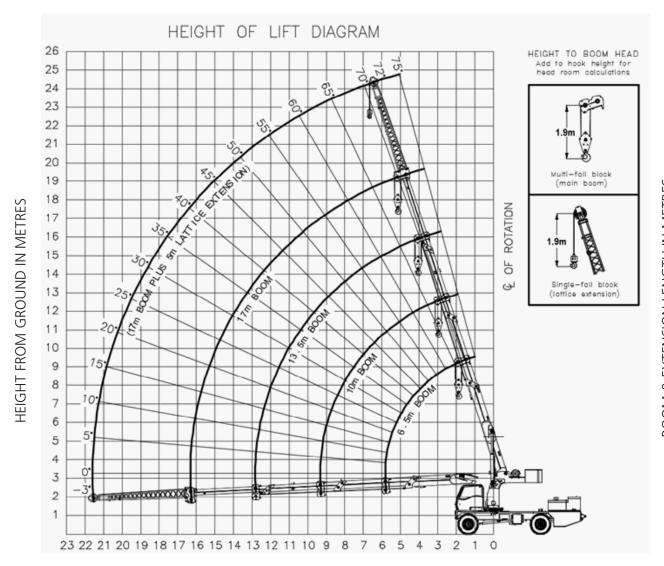
- 5.0m lattice extension mounted in line with main boom
- Towing hook, 5Te capacity (front)
- Fire extinguisher
- Man Carrying Basket
- Spare Tyre

BOOM & EXTENSION LENGTH IN METRES

TOBILOAD 315

Height of Lift: 6.5m - 17.0m Boom with 5.0m Lattice Extension

4 - SECTION BOOM LATTICE – WORKING RANGE DIAGRAM (BOOM DEFLECTION NOT SHOWN)



OPERATING RADIUS FROM AXIS OF ROTATION IN METRES

NOTE:

The above heights of lift and boom angles are based on a straight (unladen) boom and allowance should be made for boom deflections obtained under laden conditions.

Hookblock Capacities and Weights - Tonnes

No. of Falls	5	4	3	2	1
Permissible Load	15.0	11.0	8.0	5.0	2.5
Weight of Hookblock	0.15	0.15	0.15	0.15	0.075

Lifting Capacities (Tonne)

Load Lifting Capacity in Tonne On Tyres (Pr. 115 PSI) Pick & Carry over front 85 % Rating@ 5 kmph (U.N.O.)

	Main Boom Length (in Metres)						
Radius (in Meters)	6.5	6.5 –10.0	10.0 -13.5	13.5 - 17.0	22.0		
	Boom Fully retracted	Fly Extension retracted	Fly Extension retracted	Boom Fully Extended	Boom Fully Extended + Lattice		
2.50	15.00 *						
2.75	13.00 *						
3.00	11.50	11.00					
3.50	9.30	8.90					
4.00	7.80	7.40	7.40				
5.00	5.90	5.60	5.60				
6.00		4.50	4.50	4.00			
7.00		3.60	3.60	3.30	1.20		
8.00			3.00	2.70	1.00		
9.00			2.50	2.30	0.90		
10.00			2.20	2.00	0.80		
11.00			1.90	1.70	0.70		
12.00			1.60	1.50	0.60		
13.00				1.30	0.55		
14.00				1.20	0.50		
16.00				0.90	0.40		
18.00					0.35		

Over front capacities must only be lifted within a maximum slewing angle of 2.1/2° either side of crane centre line.

Note:
* Recommended speed 2 kmph

MOBILOAD 315

Lifting Capacities (Tonne)

Load Lifting Capacity in Tonne On Tyres	Pr. 115 PSI) Static 360 Degre	e slew 85 % Rating
--	-------------------------------	--------------------

	Main Boom Length (in Metres)						
Radius	6.5m	6.5 –10.0m	10.0 -13.5m	13.5 - 17.0m	22.0m		
(in Meters)	Boom Fully retracted	Fly Extension retracted	Fly Extension retracted	Boom Fully Extended	Boom Fully Extended + Lattice		
2.50	8.00						
2.75	7.00						
3.00	6.30	6.50					
3.50	5.00	5.30					
4.00	4.00	4.00	4.50				
5.00	2.50	3.00	3.00				
6.00		2.00	2.20	2.20			
7.00		1.50	1.60	1.80	1.20		
8.00			1.20	1.50	1.00		
9.00			0.90	1.10	0.80		
10.00			0.60	0.90	0.60		
11.00			0.40	0.70	0.50		
12.00				0.50	0.40		
13.00				0.40	0.35		
14.00				0.30	0.30		

Notes for Lifting Capacities

WARNING: THIS CHART IS ONLY A GUIDE. The notes below are illustrations only and should not be reliedupon to operate the crane. The individual crane's load chart, operating instructions and other instruction platesmust be read and understood prior to operating the crane.

- All rated loads have been tested to meet minimum requirements of IS: 4573-1982 Specification for Power Driven Mobile Crane and do not exceed 85% of the tipping load on rubber as determined by SAE J765 OCT80 Crane Stability Test Code.
- 2. Capacities above the thick line are based on factors other than stability. Hence crane tipping must not be relied upon as a guide to the capacity limitation.
- 3. The rated load includes weights of hook block, slings and all similarly used load handling devices. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.

- 4. Capacities quoted are based on freely suspended loads with the machine standing on a firm, level and uniformly supportingsurface and tyres inflated to their correct pressures. It may be necessary to have structural supports under the tyres to spread the load, to a larger bearing surface.
- 5. For pick and carry operation boom must be centered front of the machine with mechanicalslew lock engaged.
- 6. Do not lower fully extended boom below 30° over side.

WARNING – Operation of the machine with heavier load than the capacities listed is strictly prohibited. Machine tipping occurs without advance warning.

MOBILOAD 315

Carrier Specification

CHASSIS

High-strength steel frame with integrated carry deck.

OPERATOR'S CAB

Totally enclosed steel construction, with excellent visibility for crane operation through front and overhead screen. Adjustable seat on slides, cab interior light, electric fan, electric horn and lockable hinged door. Ergonomically designed seat and controller layout to provide fatigue free operator comfort.

CRANE CONTROLS

Lever operating controls forslew, telescoping, hoisting and derricking with independent or simultaneous operation of crane motions.

TRAVEL CONTROLS

Normal automotive controls including steering wheel, brake and accelerator pedals, gear shift knob mounted on the steering column.

INSTRUMENTATION

Dash Panel with gauges for engine oil pressure, engine coolant temperature, transmission oil temperature, engine hour-meter, fuel level, air pressure, tachometer, voltmeter and speedometer.

Warning lights for alternator, parking brake, indication and direction indicator.

ENGINE

Heavy duty water cooled, turbocharged, intercooler 4 cylinder diesel engine of emission compliance to BSIII (CEV)

Power – 74.3 kW @ 2200 RPM Torque – 390 Nm @ 1400 -1700 RPM

TRANSMISSION

Power shift TC Transmission with four forward and three reverse speeds with the shifter mounted on steering column.

FUEL TANK

Capacity - 100 liters

DRIVE

Two wheel front axle drive (4X2).

STEERING

Fully independent power steering: Front axle steered through hydraulic power controlled orbitrol steering unit operated by automotive type steering wheel.

Turning Radius: 8.5m

AXLES

Front: Drive and steer planetary axle with differential and planetary hub reduction solidly mounted to the chassis frame.

Rear: Non steer non-drive axle, pivot mounted at centre of the chassis frame. Oscillation lock hydraulically operated during slew.

BRAKES

Service Brake: Foot operated dual line compressed air over hydraulic brake on front axle and air brake on rear axle.

Parking Brake: Spring actuated, air released fail-safe brake on rear wheels.

TYRES

 $11.00 \times 20 - 16 \text{ PR}$ tyres. 4nos. on the front axle and 4 nos. on the rear axle.

ELECTRICAL SYSTEM

12 V starting and lighting equipment.

SPEEDS

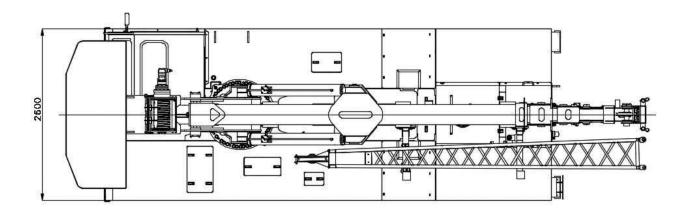
35 kmph (unladen); 15 kmph (carry deck speed) 5 kmph (pick and carry)

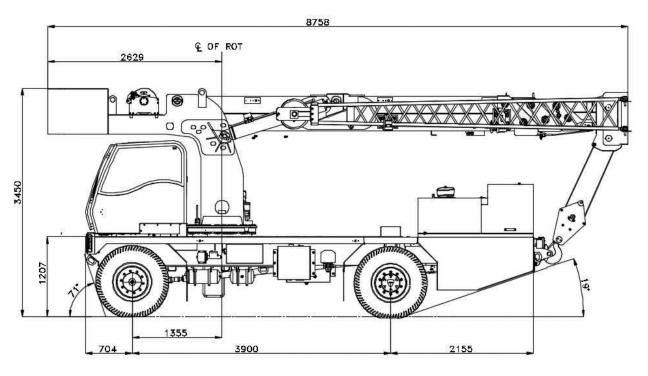
GRADEABILITY

25 % (Un-laden)

GROSS VEHICLE WEIGHT (GVW)

GVW : 16.65 Tonne





Dimensions in mm

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustration shown may include optional equipment, accessories and may not include all standard equipment.





TIL Limited

CIN: L74999WB1974PLC041725

Registered & Corporate Office:

1, Taratolla Road, Garden Reach, Kolkata - 700024 Phone: + 91 33 2469 3732-6 / 6497 | 6633 2000 / 2845

Fax: + 91 33 2469 2143 / 3731

Email: Mhg.Er@tilindia.com | mktg-til@tilindia.com



Jhaver Plaza, 7th Floor 1-A Nungambakkam High Road Chennai 600 034, Tamil Nadu Phone: +91 44 6670 3000 / 3010 Fax: +91 44 2827 9681 Email: chennai.til@tilindia.com

DELHI NCR

Plot 11, Site No.IV Sahibabad Industrial Area Ghaziabad 201 010 U.P. Phone: +91 120 277 8735 / 8736 / 7468 Fax: +91 120 277 7467

Email: MHGMarketing.Sahibabad@tilindia.com | mhgcs.Sahibabad@tilindia.com

DELHI TIL Limited

302 Ansal Bhawan 16, Kasturba Gandhi Marg, New Delhi 110 001 Phone: +91 11 2331 1607 / 8046 / 9248 | 2335 0250 / 0255

Fax: +91 11 2331 3263 Email: til.delhi@tilindia.com

KAMARHATTY

TIL Limited 517, Barrackpore Trunk Road Kolkata 700 058

Phone: +91 33 2553 1352 / 1882 | 6633 4000

Fax: +91 33 2553 2546 / 5971

Email: MktDept.KMT@tilindia.com | til.kmt@tilindia.com

KHARAGPUR

TIL Limited

Vill. & P.O. Changual, Kharagpur Dist: Paschim Medinipur 721 301, West Bengal

Phone: +91 32 2266 1101

MUMBAI

TIL Limited A - 606, A Wing, 6th Floor, 215 Atrium, Andheri - Kurla Road, Andheri (East), Mumbai 400059, Maharashtra Phone: + 91 22 4969 1169

Mobile: +91 8850971609

Email: Mumbai.TIL@tilindia.com | Mumbai.Custsupp@tilindia.com



TIL has a pan-India network of offices with service engineers located in the close proximity of jobsites.

Toll Free No: 1800 266 1535

www.tilindia.in

Technical Specification TIL/MOBILOAD 315/1117

Courtesy of CraneMarket.com