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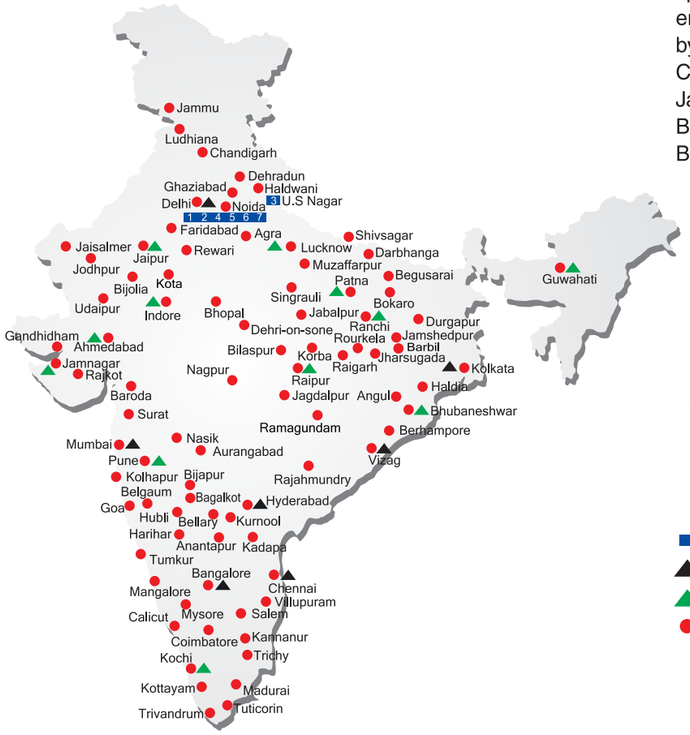

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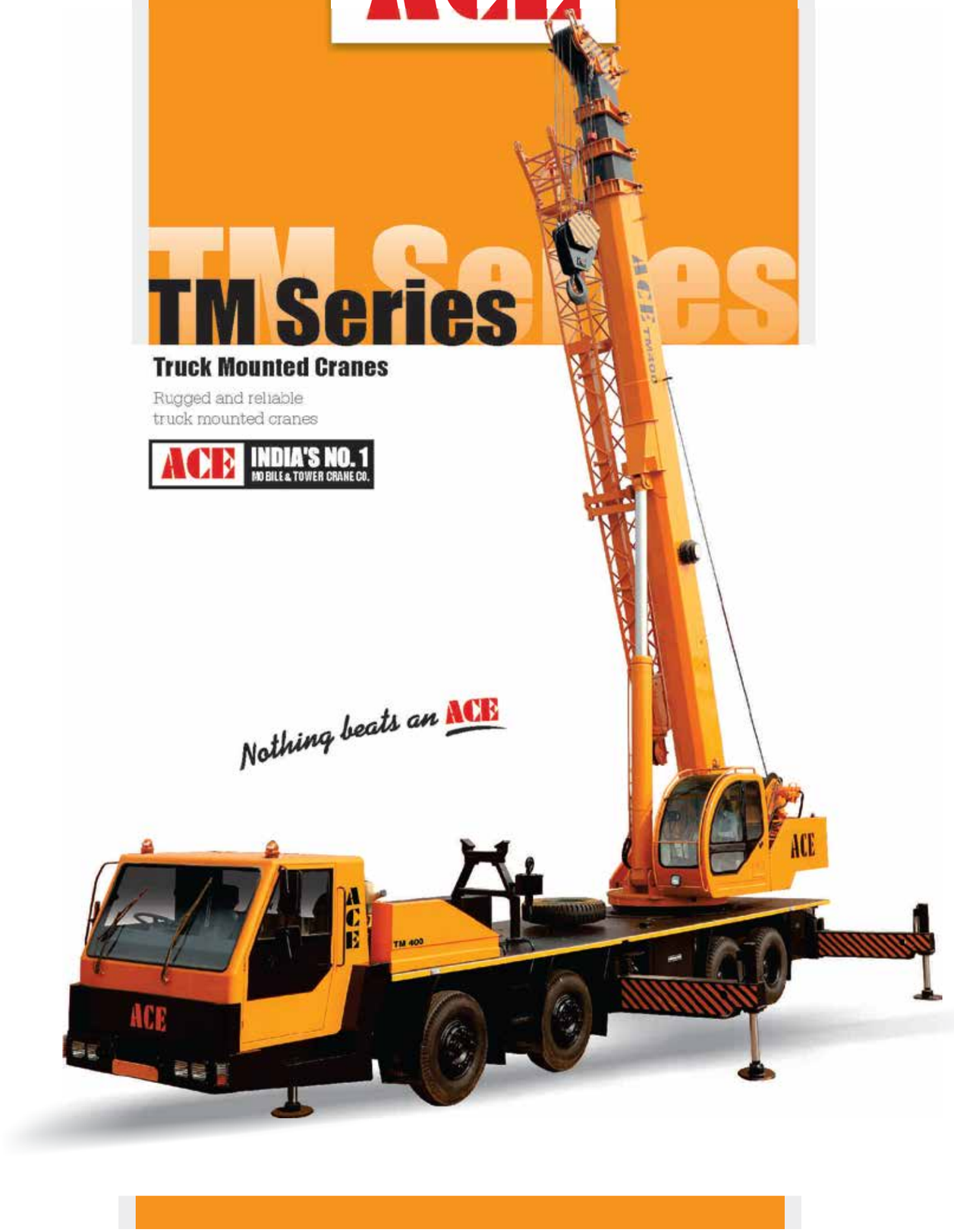

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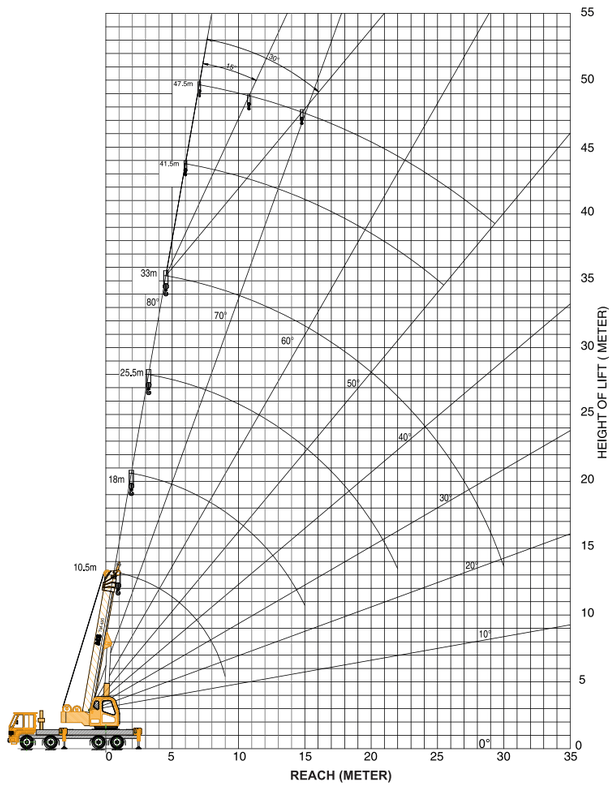
TM 400

40 Tons

Working Range



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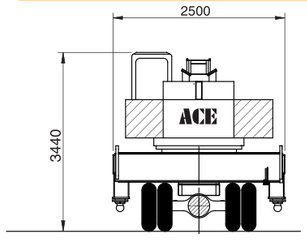
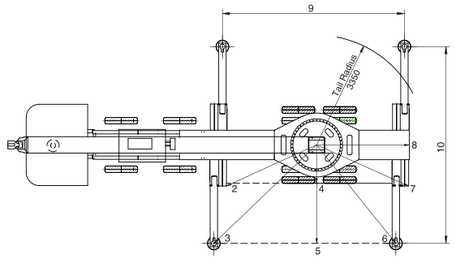


Jib Position	Deduction
X	Meter
1	6.60
2	3.05
3	4.35
4	1.25
5	3.00
6	3.90
7	3.08
8	2.85
9	5.60
10	6.00



ACE

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ACE Truck Cranes in action

Specifications TM400

Crane Chassis	• Torsion proof chassis is fabricated from high tensile steel plates. Outrigger boxes are integrated with the chassis. • Drive is 8x4x4 (4 wheel drive and 4 wheel steer) • Full width driver cabin is provided with driver and co-driver seating arrangements.
Engine	Ashok Leyland or suitable, turbo charged, inter cooled diesel engine developing 225 bhp@ 2500 rpm
Clutch	Single plate(381mm), Dry, hydraulic actuated diaphragm type
Transmission	Nine speed synchromesh Gear Box with crawler gear.
Top Speed	60 Kmph.
Brakes	Air pressurized diaphragm operated with dual line arrangement. Flick valves operated pneumatic hand brake on rear and front wheels.
Tyre Size	11.00 X 20-16 ply rating(12+1)
Outrigger	Four hydraulically operated outrigger beams fitted with lock valves. Outrigger blocks are removable and stowable.
Hydraulic System	Triple Gear pump driven by transmission P.T.O, supplies oil to all circuits except steering system.
Super Structure	Fabricated with high tensile steel plates and is capable of unlimited slewing in either direction. Super structure is mounted on a sealed, internal teeth slew ring.
Boom Derricking	Double acting hydraulic cylinder with counter balance safety valve.
Slewing	Piston type hydraulic motor drives a pinion through reduction gear unit. Double counter balance valve is provided for smooth control and operations.
Telescopic Boom	Double acting hydraulic cylinder is provided for boom telescoping. Four part boom is fabricated from high tensile steel plates and is extendable from 10.5 m to 33.0 m.

Hoist System	Hoist winch is provided with piston type hydraulic motor driving grooved hoist barrel via reduction gear unit. The system is fitted with counter balance valve to control the speed of lowering and to hold the lifted load.
Hook Block	5 sheaves hook block is provided
Hoist Rope	18 mm diameter.
Capacities	
Hydraulic Tank	400 Lts.
Fuel Tank	335 Lts.
Operator's Cabin (Crane)	Cabin with maximum all round vision is fitted. All controls for crane motion and electrical controls are provided in the cabin. Cabin is fitted with fan and lights.
Safety Equipment	• Safe load indicator provides radius and hook load indication with visual indication of approach to overload and audible indication of over load condition. • Overlaod and Over hoist cut-off. • Pressure relief in main circuit. • Pilot operated check valves are provided in all the cylinders.
Performance Data	
• Derrick Angle	-3^0 to 80^0
• Derricking time	45-80 secs (In & out)
• Telescoping time	80-90 secs
• Slew	0-2 RPM
• Hoist	Single line speed 90 m/min.
• Outriggers	
Out	34 secs
In	26 secs
Down	30 secs
Up	38 secs
Axle loads	
Front axle-1	5880 kgs.
Front axle-2	5870 kgs.
Rear axles	19100 kgs.
Total weight	30850 kgs.
Optional Equipment	Side folding lattice jib - 8.5 + 6.0 mtrs with three offset positions.

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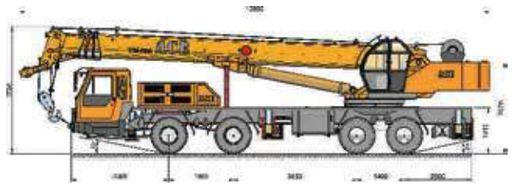
Rated Lifting Capacity (in Kgs.) 85% Rating — TM400

Radius	360° BLOCKED			
	Jib Closed 10.5 M	Jib Extended 10.5-18.0M	Jib Extended 18.0 - 25.5 M	Jib Extended 25.5 - 33.0 M
Meter	Kgs.	Kgs.	Kgs.	Kgs.
3.0	40000			
3.5	35000	22000		
4.0	28400	21000		
4.5	25500	20000	13000	
5.0	22000	20200	12000	
5.5	19000	17000	11500	8000
6.0	17500	15000	11000	8000
6.5	16000	12000	10000	7000
7.0	14500	11000	9500	6000
8.0	11000	10000	9000	6000
9.0	9000	9000	8000	5500
10.0		7000	7000	5000
12.0		5000	5000	4500
15.0		3000	3000	3000
18.0			2000	2000
22.0			1600	1600
26.0				1000
30.0				800

1. The above capacities are in accordance with Indian Standard Code - IS:4573
2. Rated loads are 85% of tipping loads. The loads shown are gross loads and the weight of the hook block, lifting tackle etc. must be considered as part of the lifted load.

Overall Dimensions



ALL DIMENSIONS ARE IN mm

Capacity with Fly Jib (Kgs.)

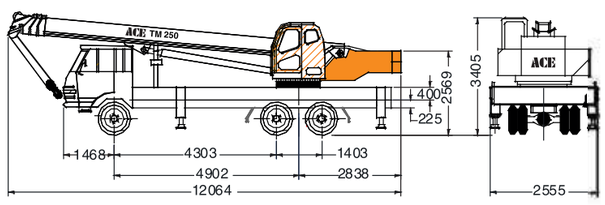
Elevation of Main Boom	Main Boom + Jib					
	Installation of jib 33m+8.5			Installation of jib 33m+14.5		
	0°	15°	30°	0°	15°	30°
80°	4000	2700	2500	2000	1400	1000
78°	3700	2600	2400	1900	1300	950
75°	3500	2400	2200	1800	1100	900
72°	3300	2100	2000	1750	1000	800
70°	3100	2000	1900	1600	950	750
65°	2500	1950	1850	1350	900	700
60°	1600	1500	1400	1150	800	650
55°	1200	1100	1100	900	700	600
50°	950	800	750	500	500	500

Rated Lifting Capacity (in Kgs.) 85% Rating — TM250 C - 25 TONS

Radius	360° BLOCKED			
	Jib Closed 10.2 M	Jib Extended 10.2-14.2 M	Jib Extended 14.20 - 18.2 M	Jib Extended 18.2- 22.2 M
Meter	Kgs.	Kgs.	Kgs.	Kgs.
2.75	25000			
3.0	22000	14500		
3.5	19000	13500		
4.0	17000	13000	8500	
4.5	15000	12400	8500	
5.0	14000	12000	8500	6000
5.5	13000	11800	8500	5800
6.0	12700	10500	8000	5200
6.5	10000	10000	7800	4900
7.0		9000	7500	4700
7.5		8500	7200	4400
8.0		7000	6500	4200
9.0		6500	6000	3900
10.0		5000	4800	3700
11.0		4200	3800	3500
12.0		3600	3200	2900
14.0			2600	2400
16.0				1900
18.0				1900

1. The above capacities are in accordance with Indian Standard Code - IS:4573-1982
2. Rated loads are 85% of tipping loads. The loads shown are gross loads and the weight of the hook block, lifting tackle etc. must be considered as part of the lifted load.
3. These capacities are on firm and level surface.

Overall Dimensions



ALL DIMENSIONS ARE IN mm

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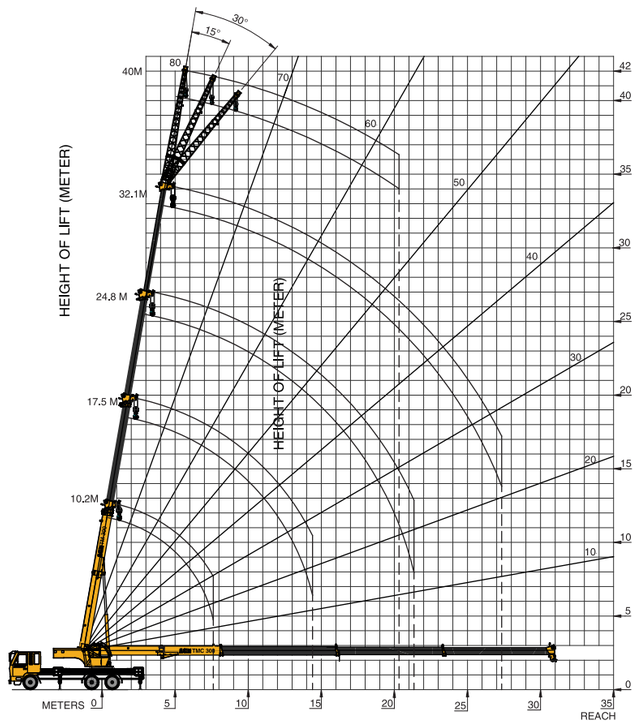
Specifications — TM250 C - 25 TONS

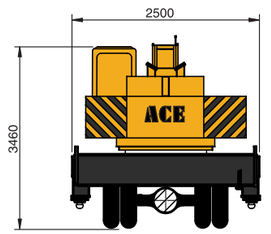
Truck Chassis	The crane is mounted on modified & adequately reinforced truck chassis
Engine	Ashok Leyland, water cooled diesel engine developing 165 bhp @ 2400rpm
Clutch	Dry, Single Plate (380mm), hydraulically actuated diaphragm type.
Transmission	Six Speed Synchromesh Gear box.
Top Speed	60 Kmph.
Brakes	Air pressurized, diaphragm operated with dual Line arrangement. Flick Valves operated pneumatic hand brake on rear wheels only.
Tyres Size	10.00 X 20-16 PLY Rating (10+1)
Out riggers	Four hydraulically operated outrigger beams with vertical hydraulic jacks fitted with lock valves. Outrigger blocks are removable & stowable.
Hydraulic System	Gear type hydraulic pump driven by Transmission PTO,
Super Structure	Fabricated with high tensile steel plates and is capable of unlimited slewing in either direction. Super structure is mounted on a sealed,external teeth slewing ring.
Boom Derricking	Double acting hydraulic cylinder with counter balance safety valve.
Slewing	Piston type hydraulic motor drives a pinion through reduction gear unit. Double counter balance valve is provided for smooth control and operations.
Telescopic Boom	Double acting hydraulic cylinder is provided for boom telescoping. Three part boom is fabricated from high tensile steel and is extendable from 10.2 to 22.2 mtrs.

Hoist System	Winch is provided with hook block. Piston type hydraulic motor driving grooved hoist barrel via reduction gear unit. The system is fitted with Counter balance valve to control the speed of lowering.
Hook Block	4 sheaves block is provided
Hoist Rope	16 mm Diameter
Capacities	
Hydraulic Tank	400 ltrs.
Fuel Tank	335 ltrs.
Operator's Cabin (Crane)	Cabin with maximum all round vision is fitted with lockable door. All controls for crane motions & electrical controls are provided in the cabin. Cabin light & fan is also fitted.
Safety Equipment	• Safe load indicator which provides radius & hook indication with visual indication of approach to overload & audible indication of overload condition. • Over load and over hoist cut off. • Pressure relief in main circuit. • Pilot operated check valve provided in all the cylinders.
Performance Data	
• Derrick Angle	-2° to 80°
• Derricking time	50-60 secs
• Telescoping time	80-90 secs
• Slew	0-2 RPM
• Hoist	Single line speed 90m/min.
• Outriggers	
Out	12 secs
In	10 secs
Down	17 secs
UP	12 secs
Axle Loads	
Front Axle	5750 kgs.
Rear Axle	18300 kgs.
Total weight	24050 kgs.
Optional Equipment	Side folding lattice Jib - 8 mtrs.

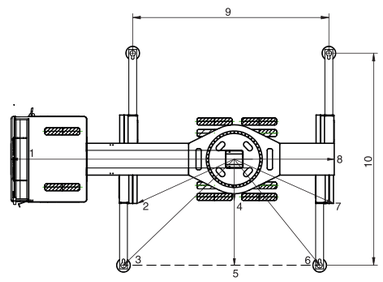
Working Range



Dimensions



Jib Position	Deduction
X	Meter
1	6.34
2	3.46
3	4.22
4	1.27
5	2.98
6	3.95
7	2.95
8	2.65
9	5.50
10	6.00



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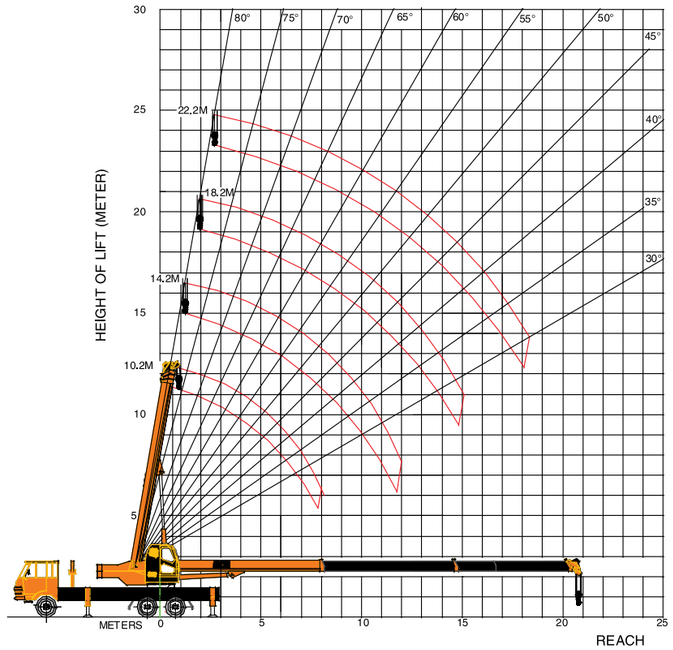
Specifications — TM300 - 30 Tons

Truck Chassis	The crane alongwith auxillary chassis is mounted on suitable truck chassis
Engine	Water cooled diesel engine
Clutch	Dry, Single plate(380mm), hydraulically actuated diaphragm type
Transmission	Six speed synchromesh Gear Box
Top Speed	60 Kmph.
Brakes	Air pressurized diaphragm operated with dual line arrangement. Flick valves operated pneumatic hand brake on rear wheels only.
Tyres Size	10.00 X 20-16 PLY Rating(10+1)
Out riggers	Four hydraulically operated outrigger beams with vertical hydraulic jacks fitted with lock valves. Outriggers blocks are removable & stowable.
Hydraulic System	Gear type hydraulic pump driven by transmission P.T.O,supplies oil to all circuits except steering system.
Super Structure	Fabricated with high tensile steel plates and is capable of unlimited slewing in either direction. Super structure is mounted on a sealed, internal teeth slew ring.
Boom Derricking	Double acting hydraulic cylinder with counter balance safety valve.
Slewing	Piston type hydraulic motor drives a pinion through reduction gear unit. Double counter balance valve is provided for smooth control and operations.
Telescopic Boom	Double acting hydraulic cylinder is provided for boom telescoping. Four part boom is fabricated from high tensile steel plates and is extendable from 10.2 m to 32.1 m.

Hoist System	Hoist winch is provided with piston type hydraulic motor driving grooved hoist barrel via reduction gear unit. The system is fitted with counter balance valve to control the speed of lowering and to hold the lifted load.
Hook Block	4 sheaves hook block is provided
Hoist Rope	16 mm Diameter.
Capacities	
Hydraulic Tank	400 lts.
Fuel Tank	350 lts.
Operator's Cabin (Crane)	Cabin with maximum all round vision is fitted. All controls for crane motion and electrical controls are provided in the cabin. Cabin is fitted with fan and lights.
Safety Equipment	• Safe load indicator provides radius and hook load indication with visual indication of approach to overload and audible indication of over laod condition. • Overlaod and Over hoist cut-off. • Pressure relief in main circuit. • Pilot operated check valves are provided in all the cylinders.
Performance Data	
• Derrick Angle	-3° to 80°
• Derricking time	70 second (In and out)
• Telescoping time	115 second
• Slew	0-2.4 RPM.
• Hoist	Single line speed 90m/min.
• Outriggers	
Out	34 seconds
In	26 seconds
Down	30 seconds
Up	38 seconds
Axle Loads	
Front Axle	6000 kgs.
Rear Axle	19000 kgs.
Total weight	25000 kgs.
Optional Equipment	Side folding lattice jib - 7.9 mtrs

Working Range



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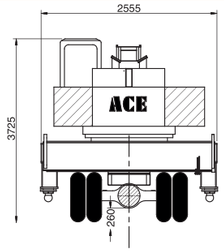
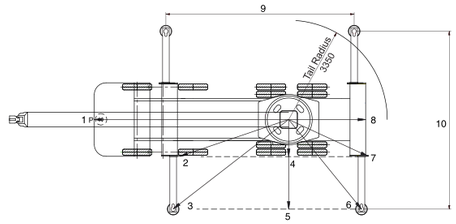


Jib Position	Deduction
X	Meter
1	6.60
2	3.90
3	4.96
4	1.25
5	3.00
6	3.90
7	2.98
8	2.70
9	6.40
10	6.00



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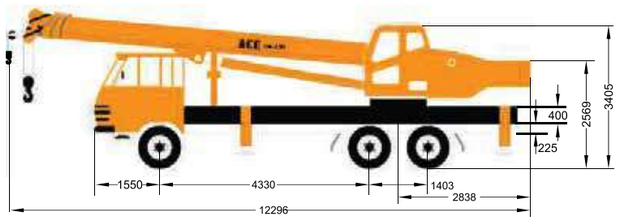
Rated Lifting Capacity (in Kgs.) TM 250

Radius	360° BLOCKED					
	Jib Closed 10.0 M	Jib Extended 10.0-14.2M	Jib Extended 14.2-18.4M	Jib Extended 18.4-22.6M	Jib Extended 22.6-26.8M	Jib Extended 26.8-31.0M
Meter	Kgs.	Kgs.	Kgs.	Kgs.	Kgs.	Kgs.
2.75	25000					
3.0	23000	15000	13500			
3.5	22000	15000	13500			
4.0	20000	15000	13500	10500		
4.5	17000	14000	13000	10500		
5.0	16000	14000	13000	10000	8000	
5.5	14000	13000	12500	10000	8000	
6.0	12200	12000	12000	9500	7500	6000
6.5	11000	11200	11000	9000	7500	6000
7.0	9000	10000	10000	8000	7200	6000
8.0	7400	8000	8200	7500	6900	5600
9.0		6500	6200	6500	6200	5200
10.0		5100	5200	5300	5000	4700
11.0		4200	4200	4200	4200	4200
12.0		3500	3500	3300	3300	3300
14.0		2500	2500	2500	2400	2200
16.0				1900	1800	1800
18.0				1360	1360	1250
20.0					1000	1000
22.0						650



Boom Elevation	FOR 31m + 8m	
80°	3000	3000
78°	2800	2800
76°	2700	2700
74°	2600	2600
72°	2500	2500
70°	2350	2300
68°	2200	1900
66°	2000	1550
64°	1900	1250
62°	1800	950
60°	1650	750
58°	1500	550
56°	1200	400
54°	1000	
52°	800	
50°	600	
45°	400	

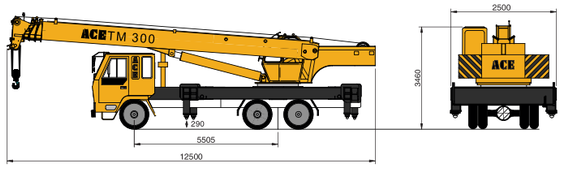
Rated Lifting Capacity (in Kgs.) 85% Rating TM300 - 30 Tons

Radius	360° BLOCKED			
	Jib Closed 10.2 M	Jib Extended 10.2-17.5 M	Jib Extended 17.5 - 24.8 M	Jib Extended 24.8- 32.1M
Meter	Kgs.	Kgs.	Kgs.	Kgs.
2.75	30000			
3.0	28000			
3.5	26500			
4.0	24200	13500		
4.5	21500	12500		
5.0	19500	12000		
5.5	17500	11000	8800	
6.0	15500	10500	8100	
6.5	13500	10000	7500	
7.0	12000	9000	7000	6300
8.0	10000	8000	6500	6000
9.0		7000	5500	5500
10.0		6000	5000	5000
12.0		4500	4000	3500
14.0		3500	3200	3100
16.0		2500	2500	2400
18.0			2000	2000
20.0			1500	1500
22.0			1200	1200
24.0				1000
26.0				800
28.0				600
30.0				400

1. The above capacities are in accordance with Indian Standard Code - IS:4573
2. Rated loads are 85% of tipping loads. The loads shown are gross loads and the weight of the hook block, lifting tackle etc. must be considered as part of the lifted load.

Elevation of Boom	Main Boom + Jib 32.1m+7.9m		
	Installation angle of jib		
	0°	15°	30°
80°	3000	2000	900
78°	2500	1800	850
75°	1800	1600	800
72°	1500	1300	750
70°	1250	1100	700
65°	1000	800	600
60°	800	600	
55°	700		

Overall Dimensions



ALL DIMENSIONS ARE IN mm

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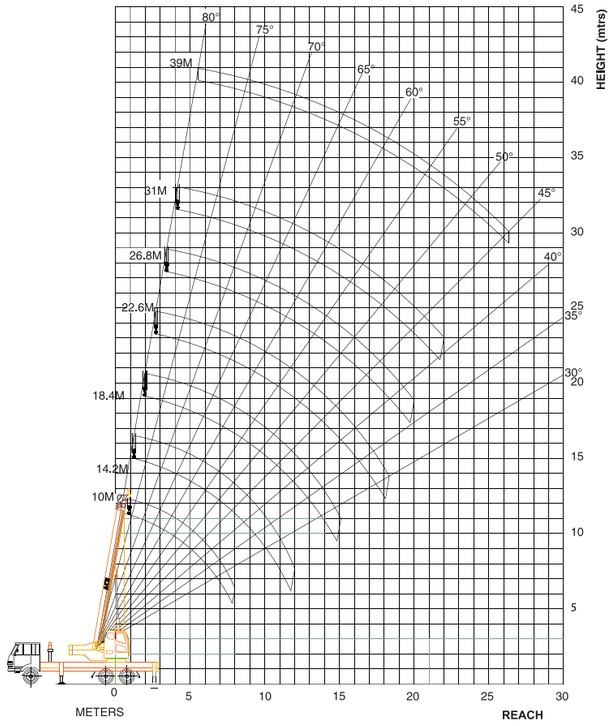
TM 250 25 Tons

Lifting dimensions



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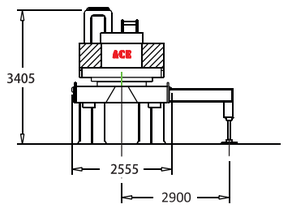
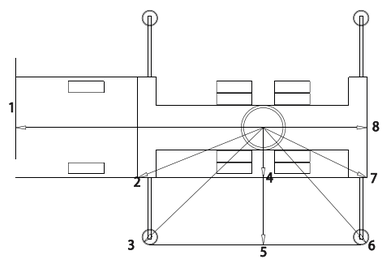


Jib Position	Deduction
X	Meter
1	6.34
2	3.46
3	4.22
4	1.27
5	2.98
6	3.95
7	2.95
8	2.65



Specifications — TM 250

Truck Chassis	The crane is mounted on modified & adequately reinforced truck chassis
Engine	Water cooled diesel engine
Clutch	Dry, Single Plate (380mm), hydraulically actuated diaphragm type.
Transmission	Six Speed Synchromesh Gear box.
Top Speed	60 Kmph.
Brakes	Air pressurized, diaphragm operated with dual Line arrangement. Flick Valves operated pneumatic hand brake on rear wheels only.
Tyres Size	10.00 X 20-16 PLY Rating (10+1)
Out riggers	Four hydraulically operated outrigger beams with vertical hydraulic jacks fitted with lock valves. Outrigger blocks are removable & stowable.
Hydraulic System	Gear type hydraulic pump driven by Transmission PTO,
Super Structure	Fabricated with high tensile steel plates and is capable of unlimited slewing in either direction. Super structure is mounted on a sealed, internal teeth slewing ring.
Boom Derricking	Double acting hydraulic cylinder with counter balance safety valve.
Slewing	Piston type hydraulic motor drives a pinion through reduction gear unit. Double counter balance valve is provided for smooth control and operations.
Telescopic Boom	Double acting hydraulic cylinder is provided for boom telescoping. Four part boom is fabricated from high tensile steel and is extendable from 10 mtrs to 31 mtrs.

Hoist System	Hoist winch is provided with piston type hydraulic motor driving grooved hoist barrel via reduction gear unit. The system is fitted with counter balance valve to control the speed of lowering
Hook Block	4 sheaves block is provided
Hoist Rope	16 mm Diameter
Capacities	
Hydraulic Tank	400 ltrs.
Fuel Tank	335 ltrs.
Operator's Cabin (Crane)	Cabin with maximum all round vision is fitted with lockable door. All controls for crane motions & electrical controls are provided in the cabin. Cabin light & fan is also fitted.
Safety Equipment	• Safe load indicator which provides radius & hook indication with visual indication of approach to overload & audible indication of overload condition. • Over load and over hoist cut off. • Pressure relief in main circuit. • Pilot operated check valve provided in all the cylinders.
Performance Data	
• Derrick Angle	-2^0 to 80^0
• Derricking time	50-60 secs
• Telescoping time	80-90 secs
• Slew	0-2 RPM
• Hoist Main:	Single line speed 90 m/min.
• Outriggers	
Out	12 secs
In	10 secs
Down	17 secs
UP	12 secs
Axle Loads	
Front Axle	5950 kgs
Rear Axle	18950 kgs
Total weight	24900 kgs
Optional Equipment	Side folding lattice Jib - 8 mtrs.