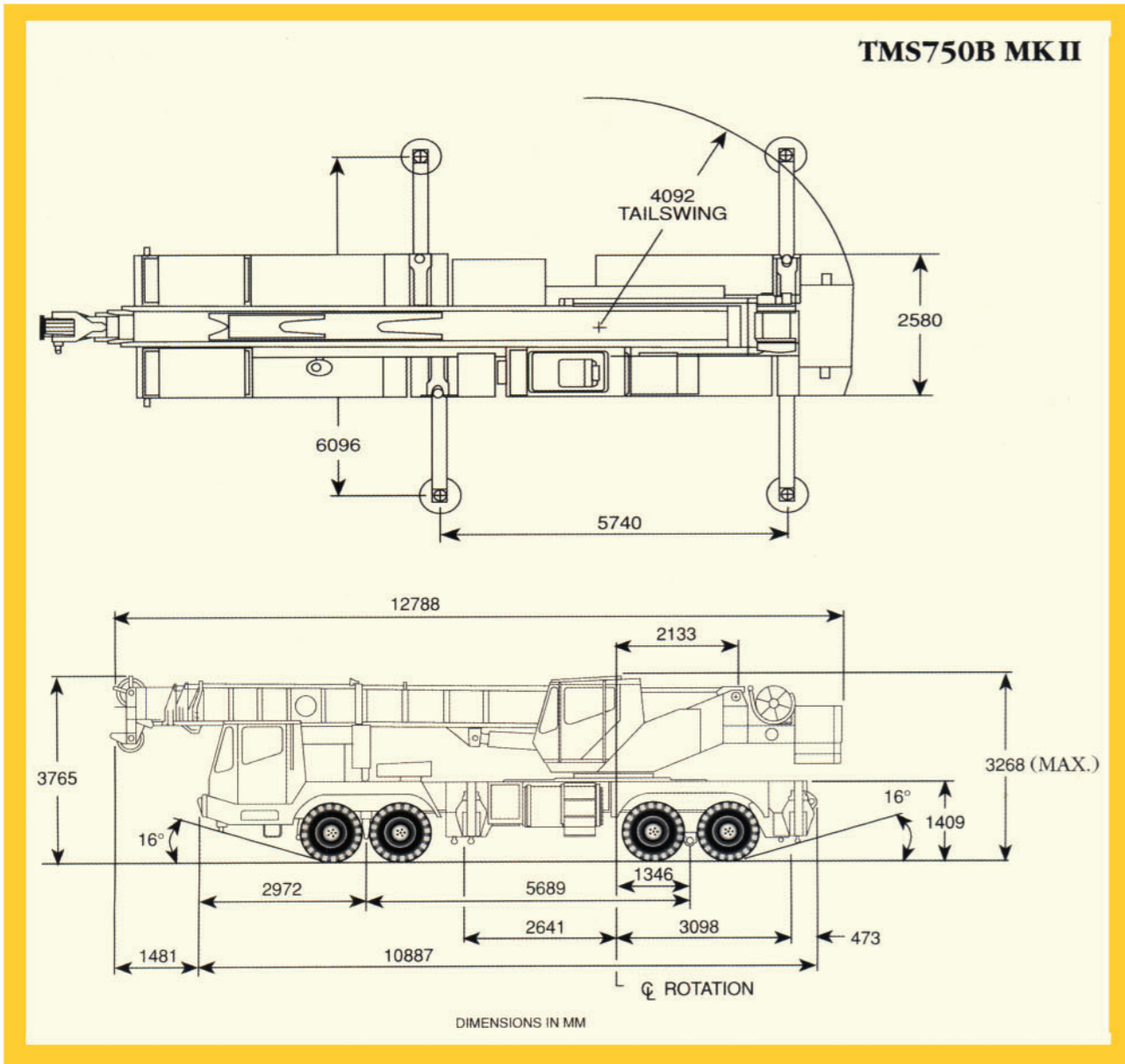


TMS750B MK II



- Maximum capacity (outriggers) – 40 tonnes at 3m radius (85% rating) 360° slew
- Boom – 4 section Trapezoidal 10.6M – 33.5M
- Maximum Road Speed – 50 km/hr
- Carrier – 8 × 4 drive



TIL Limited

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 Chennai - 600034, Tamil Nadu, India
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 Fax: 91-44-2827 9681
 Email: chennai.marketing@tilindia.com
 chennai.til@tilindia.com



Superstructure Frame

Fabricated from high tensile steel plates and sections.

Boom Derricking System

One double acting hydraulic cylinder with integral holding valve.

Boom Angle

Maximum 78°, Minimum -2.4°

Slew System

Ball bearing swing circle with 360° continuous rotation. Planetary "glide-swing" with foot applied multi-disc wet brake. Spring applied hydraulically released parking brake, mechanical house lock operated from cab.

Slew Speed

Maximum 2 RPM. (Unladen)

Hoist System

Power up and down, equal speed, planetary reduction with integral automatic brake 152.4m length of 19mm (3/4 in) dia non-rotating wire rope.

Line Speed

Top layer 90m/min (Unladen)

Max. Permissible Line Pull

5860 kgs.

Maximum Fall Hookblock

40 tonnes.

Operator's Cab

Full vision, all steel fabricated and toughened safety glass throughout. Deluxe seat, hydraulic controls. Other standard features include: sliding side and rear windows, electric windshield wiper, circulating air fan.

Load Moment & Anti-Two Block System

Standard load moment and anti-two block system with audio-

visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, relative load moment, maximum permissible load and load indication and warning of impending two-block condition.

Hydraulic System

Pumps : One Axial piston pump & one piggyback gear pump driven from power take-off mounted on gear box. Standard pump disconnect for travel.

Valves

Precision double acting pressure compensated load sensing & load sharing type control valves.

Filter

Return line type, full flow with by-pass protection and service indicator. Replaceable cartridge.

Reservoir

390 litres with filter, external sight gauge, clean out access, strap mounted to frame.

Oil Cooler

Remote mounted with thermostatically controlled electric motor driven fan.

Boom

10.6M - 33.5M four section trapezoidal full power boom. Telescoping is sequenced-synchronized with single lever control. Telescopic sections slide on adjustable and replaceable low friction wear pads.

Maximum Tip Height: 35.9M.

Boom Nose

Four steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards.

Optional Equipment Swingaway

9.7M Lattice extension.

Carrier

8 x 4 wheel right hand drive purpose built heavy duty frame of torsion box construction with integral outrigger housing and fabricated from high strength steel plates and sections.

Outrigger

Hydraulically operated outrigger system, comprising four independently controlled hydraulic telescopic horizontal beams with vertical hydraulic jacks for over side and over rear operation. Plus one vertical hydraulic jack mounted under front of carrier to permit full 360 deg. lifting duties. All vertical jacks are fitted with positive lock valves. Easy-fit outrigger feet are provided with stowage facility on carrier.

Engine

Heavy duty, water cooled, diesel engine of adequate horse power.

Clutch

Single dry plate hydraulically operated servo assisted.

Gear Box

Constantmesh, five forward and one reverse obtained via a single lever control. Plus four forward and one reverse with crawler arrangement.

Fuel Tank

Capacity 165 litres

Axles

Front Axle

(2) beam type steering axles, leaf spring mounted tandem.

Rear Bogie

Heavy duty, fully floating type with hub reduction mounted on specially designed rocker beam to allow maximum articulation on uneven ground. Air operated interaxle differential lock.

Steering

Front axles, mechanical with hydraulic power assist controlled by steering wheel.

Brakes

Service

Air operated on all wheels by means of foot operated pedal in operator's cab.

Parking & Emergency

By means of air operated spring actuator through control valve in operator's cab on rear bogie, fail safe.

Wheels & Tyres

Pneumatic 11.00 x 20- 16 PR tyres, single front and twins rear. Spare wheel provided.

Operator's Cab

Steel construction full width cab with electric fan, cab with interior light, opening window fitted with toughened glass. Two lockable doors, electric windscreen wiper to front of windscreen. Upholstered and adjustable operator's seat. Automotive controls include steering wheel, pedals for clutch, brake and accelerator.

Maximum Speed

50 KPH

Instrumentation

Air pressure gauge, engine oil pressure gauge, ammeter, water temperature gauge, speedometer, warning light for alternator.

Electrical Equipment

24 volt starting and lighting system includes two combined dipping head lamps, side, rear and stop lamp, flashing direction indicators.

Tool Box

Tool kit for normal maintenance.

Optional Equipment

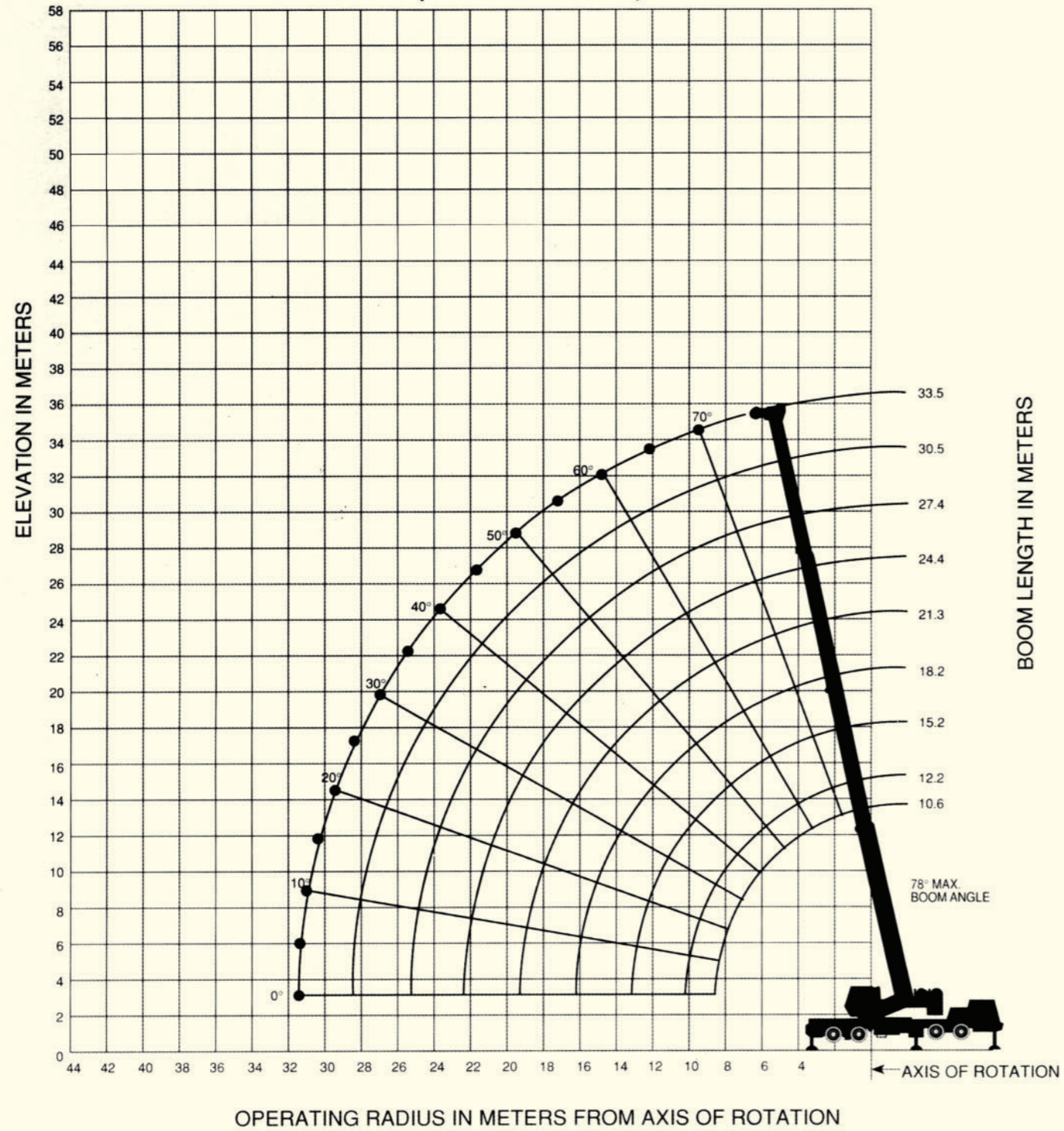
360° Beacon light

Cab spotlight

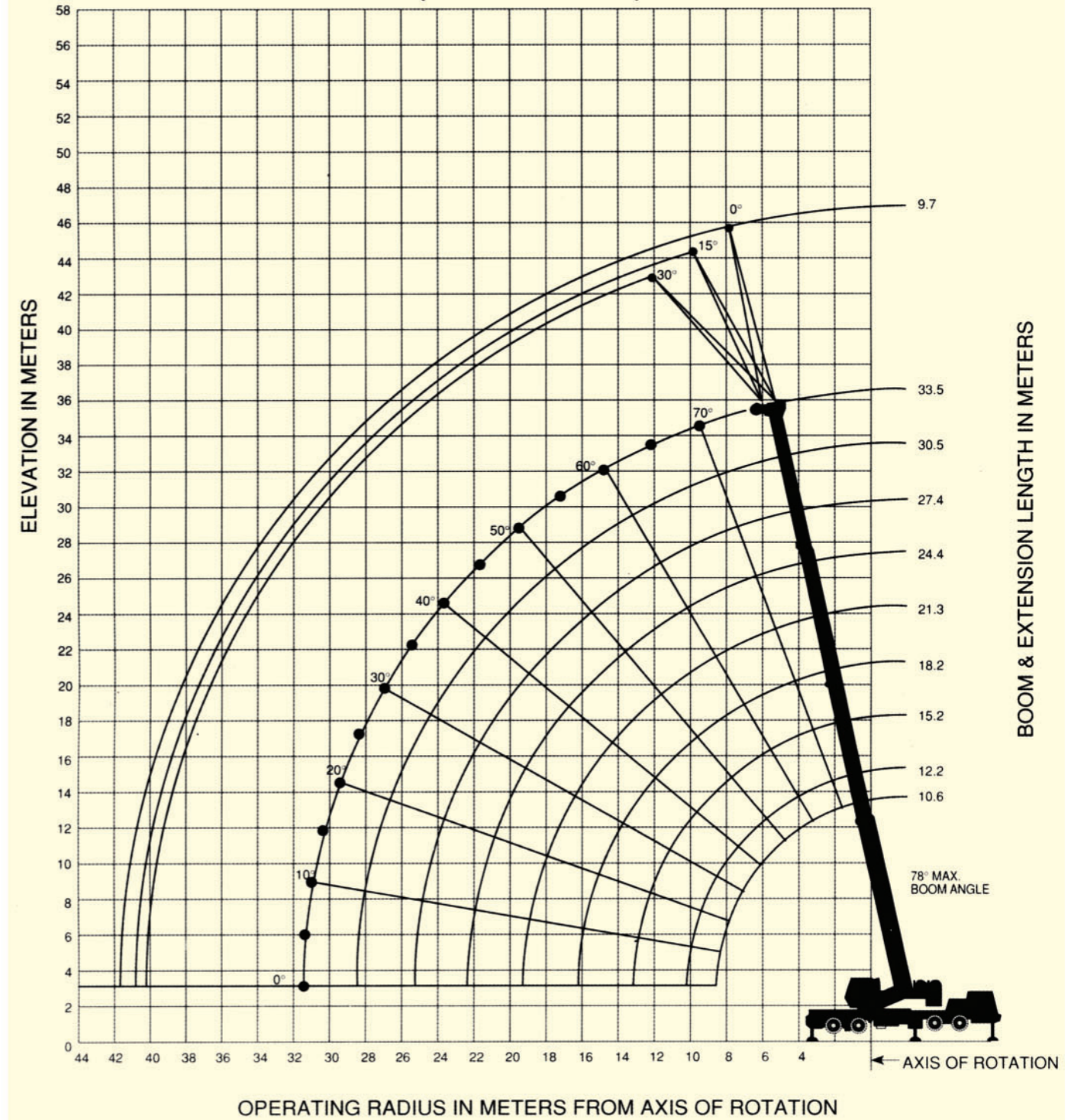
Work light



WORKING RANGE DIAGRAM
(UNLADEN BOOM)



WORKING RANGE DIAGRAM
(UNLADEN BOOM)





Main Boom – 360°

Radius in Meters	Main Boom Length in Meters								
	10.6	12.2	15.2	*18.2	21.3	24.4	27.4	30.5	33.5
3	40,000 (66)	30,975 (69.5)	26,475 (74)						
3.5	31,875 (63)	29,400 (67)	25,450 (72)	20,250 (75.5)					
4	28,725 (60)	27,550 (64.5)	24,300 (70)	19,825 (73.5)					
4.5	26,600 (56.5)	25,400 (61.5)	23,400 (68)	19,250 (72)	16,150 (75)	14,950 (77)			
5	24,525 (53)	23,500 (58.5)	22,500 (66)	17,975 (70.5)	15,700 (73.5)	14,300 (76)			
6	21,500 (45)	21,100 (52.5)	21,000 (61.5)	15,475 (67)	13,975 (70.5)	12,825 (73.5)	11,550 (75.5)	10,550 (77.5)	
6.5	20,500 (41)	20,500 (49.5)	20,500 (59.5)	14,425 (65)	13,125 (69)	12,125 (72.5)	11,075 (74.5)	10,150 (76.5)	
7	18,000 (36)	18,000 (46)	18,000 (57)	13,550 (63.5)	12,350 (67.5)	11,500 (71)	10,600 (73.5)	9,755 (75.5)	8,390 (77.5)
8	13,950 (23)	15,000 (38.5)	15,000 (52)	12,025 (59.5)	10,900 (64.5)	10,375 (68.5)	9,650 (71.5)	8,910 (73.5)	8,060 (75.5)
9		13,375 (29)	13,000 (47)	10,750 (56)	9,740 (61.5)	9,380 (66)	8,860 (69)	8,070 (71.5)	7,265 (73.5)
10		8,385 (11.5)	10,950 (41)	9,690 (51.5)	8,765 (58.5)	8,465 (63)	7,985 (66.5)	7,340 (69.5)	6,595 (72)
12			8,045 (26)	7,875 (42.5)	7,235 (51.5)	6,965 (57.5)	6,545 (62)	6,140 (65.5)	5,530 (68)
14				5,820 (31.5)	6,030 (44)	5,845 (51.5)	5,470 (57)	5,115 (61)	4,720 (64.5)
16				3,650 (11)	4,705 (35)	4,970 (45)	4,640 (51.5)	4,320 (56.5)	4,080 (60.5)
18					3,650 (22.5)	3,900 (37.5)	3,975 (46)	3,685 (51.5)	3,480 (56)
20						3,060 (28)	3,260 (39)	3,165 (46.5)	2,980 (51.5)
22						2,400 (11.5)	2,610 (31.5)	2,735 (40.5)	2,565 (47)
24							2,080 (21)	2,230 (34)	2,210 (42)
26								1,800 (25.5)	1,910 (36)
28								1,435 (12)	1,545 (29)
30									1,230 (19.5)
Minimum boom angle (deg.) for indicated length (no load) 0									
Minimum boom length (m) 0 deg. boom angle (no load) 33.5									

Note : () Boom angles are in degrees.

Boom Angle	Lifting Capacities On Outriggers Fully Extended -360° At Zero Degree Boom Angle								
	Main Boom Length in Meters								
	10.6	12.2	15.2	*18.2	21.3	24.4	27.4	30.5	33.5
0°	7,030 (8.5)	5,555 (10.1)	3,565 (13.1)	2,250 (16.1)	1,665 (19.2)	1,225 (22.3)	885 (25.3)	615 (28.3)	400 (31.3)

Note : () Reference radii in meters.

* 18.2 m boom length is with inner-mid extended and outer-mid & fly retracted

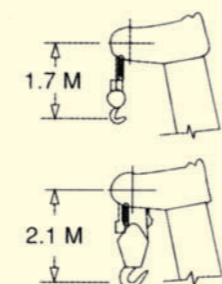
Notes for Lifting Capacities

WARNING: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

- All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OCT80 Crane Stability Test Code.
- The weight of hookblock, slings and all similarly used load handling devices must be added to the weight of the load.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tyres to spread the load to a larger bearing surface.
- When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- For outrigger operation, ALL outriggers shall be fully extended with tyres raised free of ground before raising the boom or lifting loads.

WARNING - Outrigger beams must be fully extended and stabilisers properly set when rotating superstructure over the side. Do not rotate superstructure over the side while on rubber.

Weight Reduction (Approx) for Load Handling Devices	
Hook Block	
40 Tonne	583 Kg



Dimensions are for largest furnished hook block and headache ball, with anti-two block activated.

Main Boom – Rear

Radius in Meters	10.6 M Boom	
	Boom Over Rear only	
	Static	Up to 2 Kmph
3	10000	7000
4	9000	6500
5	8000	6000
5.5	7500	5500
6	7000	5000
6.5	6000	4500
7	5500	3000
8	4500	2000

Notes for Lifting Capacities

WARNING: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

- All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers (85% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
- The weight of hookblock, slings and all similarly used load handling devices must be added to the weight of the load.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tyres to spread the load to a larger bearing surface.
- When radius is between values listed, the smallest load shown at the next larger radius shall be used.
- Tyres shall be inflated to the correct pressure before lifting on rubber. Capacities must be reduced for lower tyre inflation. Damaged tyres are hazardous to safe operation of crane.
- For Pick & Carry operation, boom must be centered over rear of machine, mechanical swing lock engaged and load restrained from swinging.
- Lifting overside on rubber is not permitted.

WARNING - Outrigger beams must be fully extended and stabilisers properly set when rotating superstructure over the side. Do not rotate superstructure over the side while on rubber.

No Load Stability Data		Main Boom 33.5M
Rear	Min. Boom angle (Deg.) for indicated length	31°
(No Load)	Max. Boom length (M) at 0 deg. boom angle	27.4 M

TMS 750B MK II

Product Guide



HYDRAULIC TRUCK CRANE

Features

- MAX. CAPACITY (Outriggers) - 40 Tonnes at 3m Radius (85% Rating) 360° Slew
- BOOM - 4 SECTION Trapezoidal 10.6m - 33.5m
- MAX. ROAD SPEED - 49 km/hr
- CARRIER - 8 x 4 Drive

Superstructure Specifications

BOOM

4-section, telescopic, trapezoidal, full power, sequenced-synchronized boom. Fabricated from high strength low alloy steel plates. Telescopic sections slide on adjustable and replaceable low friction wear resistance pads.

Telescoping Range: 10.6m - 33.5m

Maximum tip height: 35.9m

BOOM NOSE

Four nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guard.

BOOM DERRICKING

Single double acting hydraulic cylinder with integral holding valve.

BOOM ANGLE

Maximum 78°, Minimum -2.4°.

SUPERSTRUCTURE FRAME

Fabricated from high tensile steel plates and sections.

SLEW SYSTEM

Ball bearing swing circle with 360° continuous rotation. Planetary "Glide-Swing" with foot applied multi-disc wet brake. Spring applied hydraulically released parking brake. Mechanical house lock operated from cab. Free slew facility provided.

SLEW SPEED

Limited to 2 rev./min. (Unladen) for controlled operation.

HOIST SYSTEM

Power up and down, equal speed, planetary reduction with integral automatic spring applied multidisc brake on grooved hoist barrel. Hoist drum fitted with third wrap indicator.

Non Spin Hoist Rope: 19mm (3/4") dia & length 152m.

Max. Permissible Line Pull: 5860kg.

Line Speed: 75m/min. (Unladen)- Top layer.

HOOK BLOCK

45 MT, 4 sheaves.

COUNTERWEIGHT

Bolted to Superstructure.

Weight - 6113Kg.

CRANE CONTROLS

Joystick controls are in operator's cab for slewing, telescoping, hoisting and derricking with independent or simultaneous operation of crane motions.

HYDRAULIC SYSTEM

Pump – 3 Sec. gear pump driven through gearbox PTO Engine driven steering pump.

Valves – 3 nos. Over centre control valves with built-in pressure relief.

Filter – Return line type, full flow with bypass protection and service indicator. Replaceable cartridge.

Reservoir – 390 liters capacity fitted with filter, external sight gauge, clean out access, strap mounted to frame.

Oil Cooler – Remote mounted, thermostatically controlled electric motor driven fan.

LOAD MOMENT INDICATOR & ANTI-TWO BLOCK SYSTEM

Electronic load moment indicator system with audio-visual warning & control lever lockout indicates electronic display of boom angle, length, radius, relative load moment, permissible load, load indication & warning of impending two block condition. Motion cut off to ensure the safe operation with load for tele, derrick & hoist motions.

SAFETY SYSTEM

Pendent Limit Switch on boom head for over hoist. Third wrap indicator on hoist barrel to ensure 3 turns of rope on hoist drum. Hydraulic relief valves protect pumps and structures from excessive pressure. Lock and counterbalance valves fitted on derrick, telescopic and outrigger cylinders to sustain rams in the event of hydraulic failure.

OPERATOR'S CAB

Totally enclosed steel construction, full vision type, windows fitted with toughened safety glass including front windscreen. Adjustable operator's seat, cab interior light, electric fan, electric horn, electric windshield wiper and lockable sliding door. Ergonomically designed cab and controller layout to give fatigue free operator's comfort.

OPTIONAL EQUIPMENT

9.7m Fixed Swingaway Extension

Auxiliary Hoist

Single Sheave Hookblock - 15 MT

Fire Extinguisher

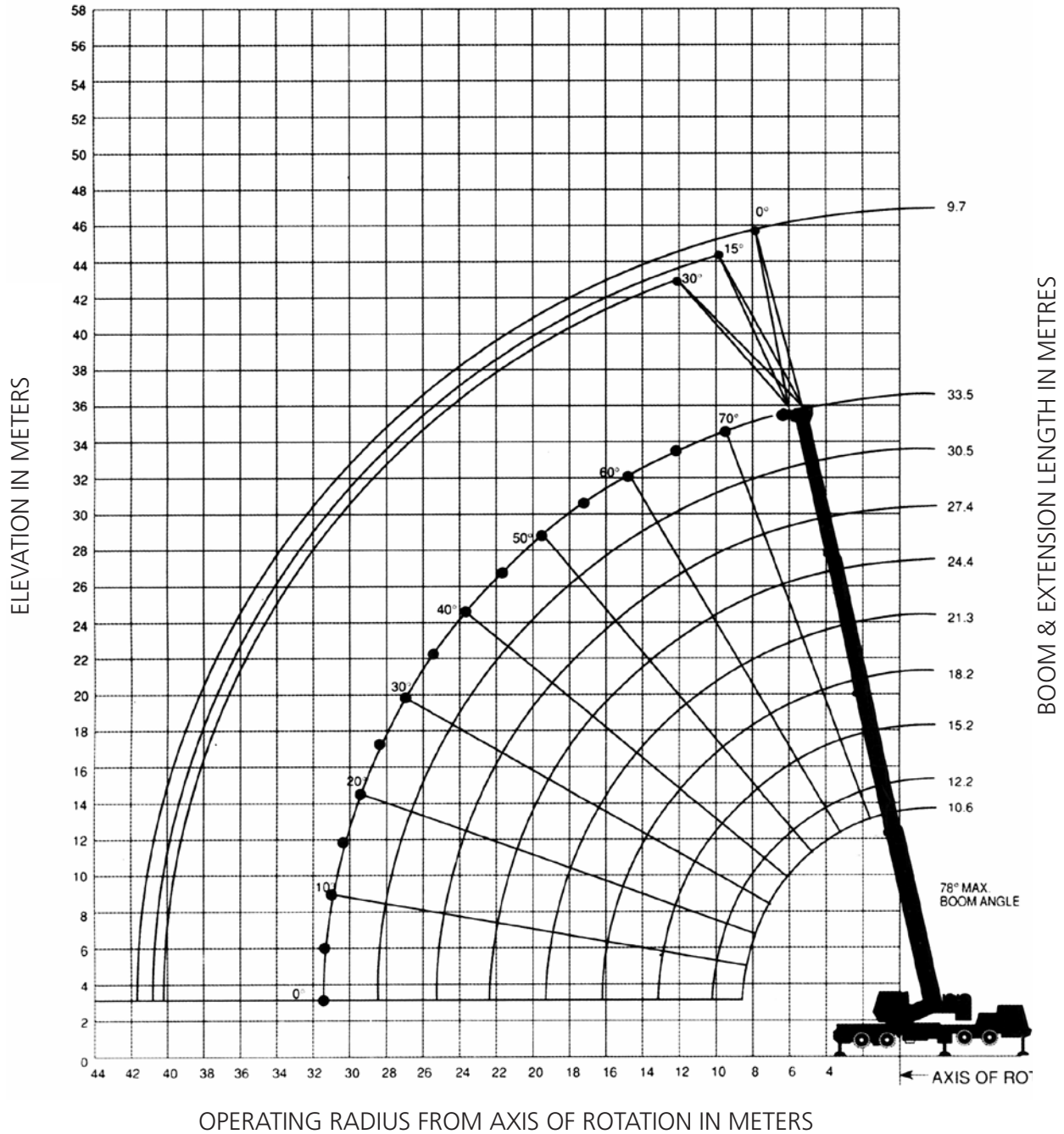
Rotating Beacon Lamp

Spark Arrestor

Headache Ball - 10 MT

Height of Lift: 4 Section 10.6m - 33.5m Full Power Boom

WORKING RANGE DIAGRAM
(BOOM DEFLECTION NOT SHOWN)



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.

Metric 85% Lifting Capacities (Kilograms) on Outriggers Fully Extended

Main Boom - On Outriggers Fully Extended - 360°

Radius in Meters (m)	Main Boom Length in Meters								
	10.6	12.2	15.2	*18.2	21.3	24.4	27.4	30.5	33.5
3	40,000 (66)	30,975 (69.5)	26,475 (74)						
3.5	31,875 (63)	29,400 (67)	25,450 (72)	20,250 (75.5)					
4	28,725 (60)	27,550 (64.5)	24,300 (70)	19,825 (73.5)					
4.5	26,600 (56.5)	25,400 (61.5)	23,400 (68)	19,250 (72)	16,150 (75)	14,950 (77)			
5	24,525 (53)	23,500 (58.5)	22,500 (66)	17,975 (70.5)	15,700 (73.5)	14,300 (76)			
6	21,500 (45)	21,100 (52.5)	21,000 (61.5)	15,475 (67)	13,975 (70.5)	12,825 (73.5)	11,550 (75.5)	10,550 (77.5)	
6.5	20,500 (41)	20,500 (49.5)	20,500 (59.5)	14,425 (65)	13,125 (69)	12,125 (72.5)	11,075 (74.5)	10,150 (76.5)	
7	18,000 (36)	18,000 (46)	18,000 (57)	13,550 (63.5)	12,350 (67.5)	11,500 (71)	10,600 (73.5)	9,755 (75.5)	8,390 (77.5)
8	13,950 (23)	15,000 (38.5)	15,000 (52)	12,025 (59.5)	10,900 (64.5)	10,375 (68.5)	9,650 (71.5)	8,910 (73.5)	8,060 (75.5)
9		13,375 (29)	13,000 (47)	10,750 (56)	9,740 (61.5)	9,380 (66)	8,860 (69)	8,070 (71.5)	7,265 (73.5)
10		8,385 (11.5)	10,950 (41)	9,690 (51.5)	8,765 (58.5)	8,465 (63)	7,985 (66.5)	7,340 (69.5)	6,595 (72)
12			8,045 (26)	7,875 (42.5)	7,235 (51.5)	6,965 (57.5)	6,545 (62)	6,140 (65.5)	5,530 (68)
14				5,820 (31.5)	6,030 (44)	5,845 (51.5)	5,470 (57)	5,115 (61)	4,720 (64.5)
16				3,650 (11)	4,705 (35)	4,970 (45)	4,640 (51.5)	4,320 (56.5)	4,080 (60.5)
18					3,650 (22.5)	3,900 (37.5)	3,975 (46)	3,685 (51.5)	3,480 (56)
20						3,060 (28)	3,260 (39)	3,165 (46.5)	2,980 (51.5)
22						2,400 (11.5)	2,610 (31.5)	2,735 (40.5)	2,565 (47)
24							2,080 (21)	2,230 (34)	2,210 (42)
26								1,800 (25.5)	1,910 (36)
28								1,435 (12)	1,545 (29)
30									1,230 (19.5)
Minimum boom angle (deg.) for indicated length (no load)									0
Maximum boom length (m) at 0 deg. boom angle (no load)									33.5

Note : () Boom angles are in degrees.

Lifting Capacities on Outriggers Fully Extended - 360° At Zero Degree Boom Angle

Boom Angle	Main Boom Length (in Meters)								
	10.6	12.2	15.2	*18.2	21.3	24.4	27.4	30.5	33.5
0°	7,030 (8.5)	5,555 (10.1)	3,565 (13.1)	2,250 (16.1)	1,665 (19.2)	1,225 (22.3)	885 (25.3)	615 (28.3)	400 (31.3)

Note: () Reference radii in meters

*18.2 m boom length is with inner-mid extended and outer-mid & fly retracted

Notes for Lifting Capacities

WARNING: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

- All rated loads have been tested to and meet minimum requirements of IS: 4573-1982 Specification for Power Driven Mobile Cranes, and do not exceed (85% of the tipping load on outriggers as well as on rubber) as determined by SAE J765 OCT 80 Crane Stability Test Code.
- The weight of hook-block, slings and all similarly used load handling devices must be added to the weight of the load. When more than minimum required reeving is used the additional rope weight shall be considered part of the load.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- All capacities are, for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
- When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- For outrigger operation, all outriggers shall be fully stretched & jacks extended to raise tires free of the ground & the slew plinth becomes horizontal before raising the boom or lifting loads.
- The machine is equipped with front jack, the front jack cylinder shall be set along with the four outriggers.
- Tires shall be inflated to the recommended pressure before lifting on rubber. Capacities must be reduced for lower tyre inflation. Damaged tyres are hazardous for safe operation of crane.
- For Pick & Carry operation, boom must be centered over rear of machine, mechanical swing lock engaged and load restrained from swinging.
- Lifting over-side on rubber is not permitted. Outrigger beams must be fully extended and stabilizers properly set when rotating superstructure over the side.
- Do not travel with crane boom extension or, jib erected.
- Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
- Handling of other equipment with the boom is not authorized except with equipment furnished and installed by TIL Ltd.
- 9.7m Fixed offsetable boom extension warning. For main boom length greater than 27.4 m with 9.7 m fixed boom extension in working position, the boom angle must not be less than 31°, since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 27.4 m. This warning also applies for boom extension erection purposes.

Lifting Capacities (Kilograms)

9.7 m Fixed Length Lattice Extension on Outriggers Fully Extended-360°

Radius (in Meters)	0° Offset	15° Offset	30° Offset
9	*4,475 (78)		
10	4,275 (77)	*3,570 (78)	
12	3,835 (74)	3,395 (76)	*2,800 (78)
14	3,445 (71.5)	3,210 (73)	2,730 (75.5)
16	3,100 (68.5)	3,040 (70.5)	2,580 (72.5)
18	2,720 (65.5)	2,895 (67.5)	2,455 (69.5)
20	2,335 (62.5)	2,525 (64)	2,345 (66.5)
22	1,995 (59)	2,175 (61)	2,235 (63.5)
24	1,700 (55.5)	1,860 (58)	1,990 (60)
26	1,430 (52)	1,570 (54.5)	1,690 (56.5)
28	1,195 (48.5)	1,320 (50.5)	1,420 (53)
30	980 (44.5)	1,090 (47)	1,175 (49)
32	790 (40.5)	885 (42.5)	955 (45)
34	610 (36)	690 (38)	745 (40)

NOTE: () Boom angles are in degree.

*The capacity is based upon the maximum boom angle.

Weight Reductions for Load Handling Devices (Approx.)

Hookblocks and Headache Ball	
4 Sheave Hook block - 45T	500 kg
Single Sheave Hook block - 15 MT	418 kg
Headache ball - 10 MT	227 kg
9.7m Fixed Extension	
*Stowed	122 kg
*Erected	1,928 kg

*Reduction of main boom capacities

Hookblock Capacities and Weights – Tonnes

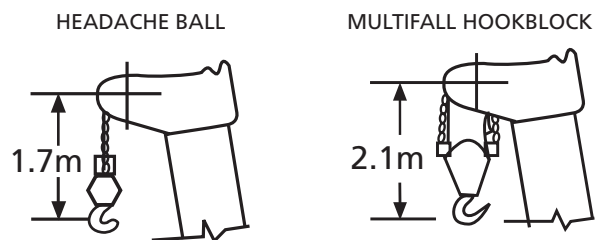
No of Falls	8	7	6	5	4	3	2	1
Permissible Load	40.0	34.5	29.7	25.0	20.1	15.2	10.3	5.0
Weight of Hookblock	0.5	0.5	0.5	0.5	0.5	0.5	0.418	0.22

Main Boom (On Rubber) – Rear

Radius (in Meters)	10.6 m Boom	
	Boom Over Rear only	
	Static	Up to 2 km/hr
3	10000	7000
4	9000	6500
5	8000	6000
5.5	7500	5500
6	7000	5000
6.5	6000	4500
7	5500	3000
8	4500	2000

Recommended Tyre Pressure – Front - 8.1 kg/cm²
Rear - 7.0 kg/cm²

	No Load Stability Data	Main Boom 33.5m
Rear	Min. boom angle (deg.) for indicated length	31°
No Load	Max. boom length (m) at 0° boom angle	27.4m



Dimensions are for largest furnished hook block and headache ball with anti-two block activated.

Carrier Specification

CARRIER

8 x4 wheel right hand drive, purpose built heavy duty carrier frame of torsion box section with integral front & rear outrigger housing fabricated from high strength steel plates and sections.

OUTRIGGERS

Hydraulically operated outrigger system, comprising four independently controlled hydraulic telescopic horizontal beams with vertical jacks for over side & over rear operation. Plus one vertical hydraulic jack mounted under front of carrier to permit 360° lifting duties. Outrigger hydraulic jacks are fitted with positive lock valves. Easy fit outrigger feet are provided with stowage facility on carrier.

OUTRIGGER CONTROLS

Located in the superstructure cab on front dash panel, requires two hand operation. Crane level indicator adjacent to controls.

ENGINE

Ashok Leyland H6 Series,
165 kW @ 2500 RPM,
Max. Torque : 800 Nm @ 1700 - 1900 RPM
Emission : BS III CEV

CLUTCH

Dry single plate hydraulically operated servo assisted.

GEAR BOX

Synchromesh, 9 forward & 1 reverse speed obtained via a single lever control.

DRIVE CONFIGURATION

8 x 4

AXLES

Front Axle – 2 beam type non-drive steer axles, leaf spring mounted in tandem.

Rear Axle – 2 Heavy duty, fully floating type with hub reduction, twin axle. Air operated inter axle differential lock. Mounted on specially designed rocker beam to allow maximum articulation on uneven ground.

STEERING

Front axles, mechanical with hydraulic power assist controlled by steering wheel from driver's cab.

BRAKES

Service – Air operated on all wheels by means of foot operated pedal in driver's cab.

Parking – Flick-valve operated, spring actuated pneumatically released brake on trailing front axle and leading rear axle.

FUEL TANK

Capacity – 300 liters

WHEELS & TYRES

Tyres 11.00 x 20-16PR or 11.00R20-16PR single on front axles and twins on rear axles.

Spare wheel (one) provided for front axle.

DRIVER'S CAB

Two man design, steel construction full width cab with electric fan, interior light, horn, operating windows fitted with toughened glass. Two lockable doors, electric windscreen wiper in front of windscreen.

Upholstered and adjustable operator's seat. Automotive controls which include steering wheel, pedals for clutch, brake and accelerator.

INSTRUMENTATION

Air pressure gauge, engine oil pressure gauge, fuel gauge, water temperature gauge, speedometer, voltmeter, tacho-hourmeter, warning lights and switches for control.

ELECTRICAL EQUIPMENT

24-Volt starting and lighting system includes two combined dipping head lamps, side, rear and stop lamp, flashing direction indicator.

TOOL BOX

Tool kit for normal maintenance.

MAXIMUM SPEED

49 km/hr.

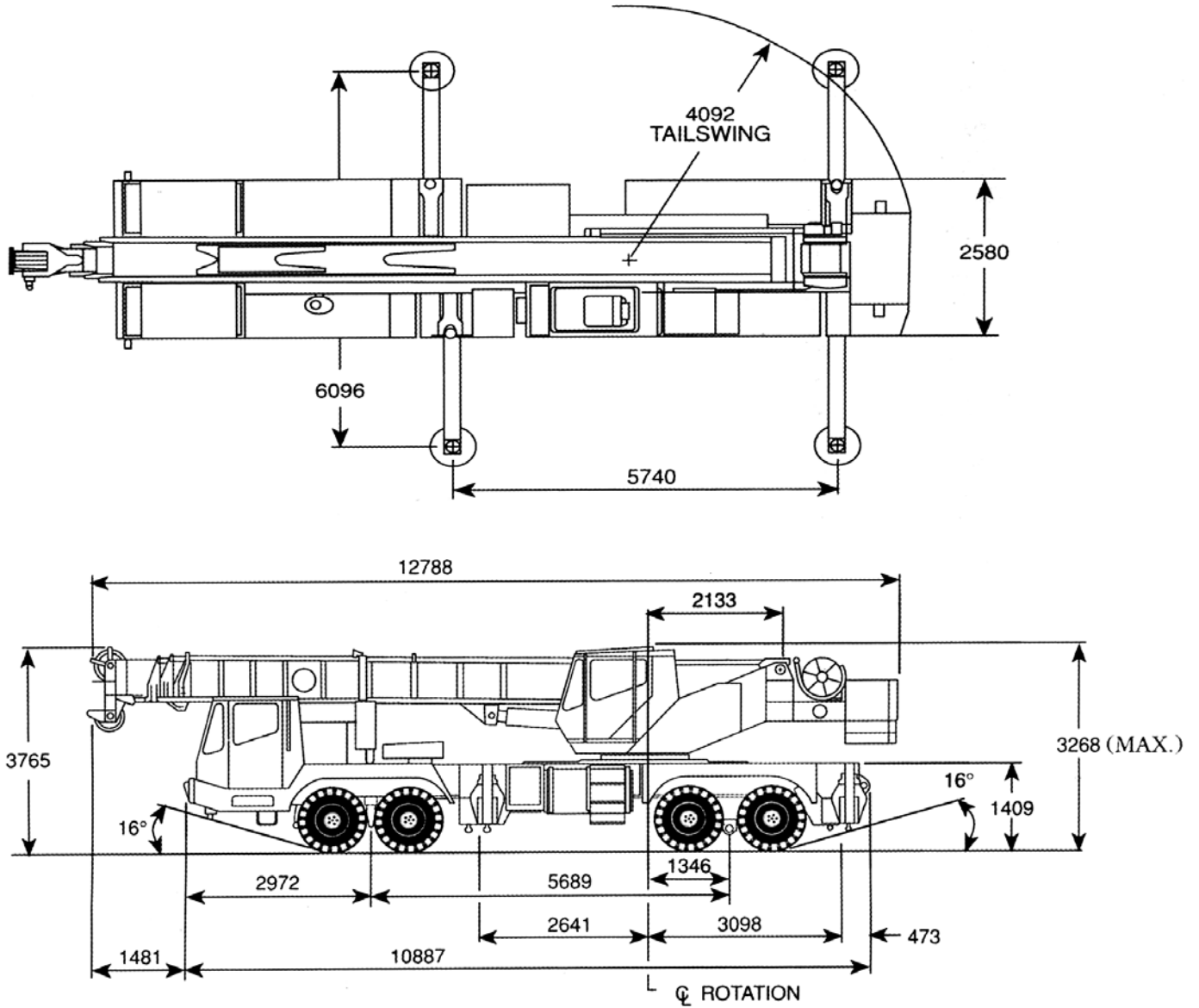
GROSS VEHICLE WEIGHT AND AXLE LOADS (approx)

Front Axles	- 11,110 kg
Rear Axles	- 22,910 kg
GVW	- 34,020 kg

Optional Weights (approx.)

Fixed Lattice : 1000 kg
Auxiliary Hoist : 700 kg

G.A Drawing



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. The photographs/drawings in this document are just for illustrative purpose which may include optional equipment and accessories, which can be provided at an additional cost on request.

TMS 750B MK II