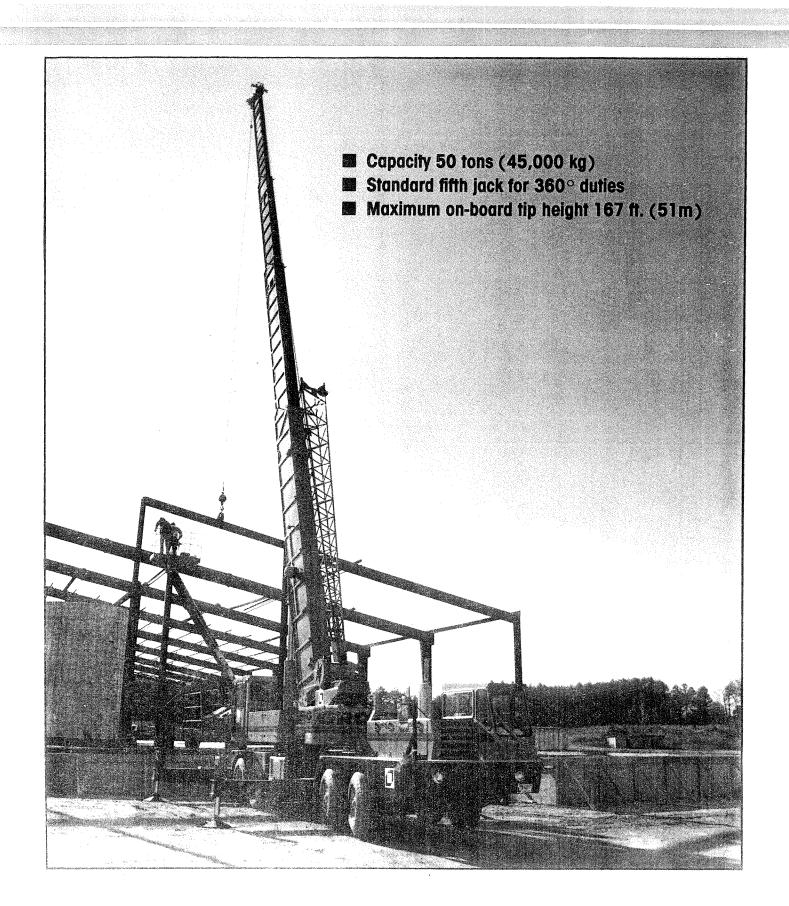


# TMS475

Truck-mounted hydraulic crane



### Carrier specifications

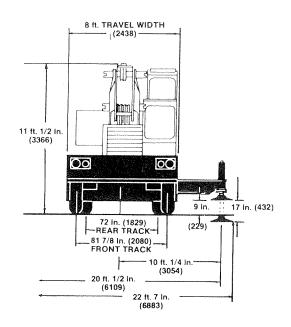
Frame	constru	High strength alloy steel all welded box-type construction with integral outrigger boxes and front/rear lifting, towing and tie down lugs.					
Outrigger System	beam a valves. / outrigge	Hydraulic double stage double box telescopic beam and jack outriggers with integral holding valves. All steel fabricated quick release type outrigger floats 30" (762mm) diameter.  Standard fifth front stabilizer for 360° duties.					
Outrigger Controls	controls safety. C	Located in superstructure cab. Push button controls requiring two-handed operation for safety. Crane level indicator (sight bubble) adjacent to controls.					
Engine	cooled o	6-71N six cylinder, naturally aspirated water cooled diesel, 426 cu. in. (7 L) 230 bhp (172 kw) (Gross) @ 2100 RPM. Maximum torque 611 ft. lbs. (84.5 kg/m) @ 1600 RPM.					
Fuel Tank Capacity	(1) 90 (	(1) 90 gallon (341 L)					
Electrical System		Four 12 volt - maintenance free batteries, 24 volt starting.					
Drive	8 x 4	8 x 4					
Steering		Front axle steering, cam and lever type with hydraulic assist.					
Transmission	Manual v	Manual with 13 speeds forward and 3 reverse.					
Axies	Front: Rear:	Rockwell beam type steer axles. Rockwell SSHD drive tandem, with inter-axle differential and dash mounted control.					
Suspension	Rear axle	Front axles (1 & 2) spring mounted tandem. Rear axles (3 & 4) solid mount tandem with equalizing beam and solid steel saddles.					
Tires	Front: Rear:	15.00x22.5-16PR duplex highway tread tubeless singles. 11:00x20-14PR highway tread tube type duals.					
Optional Tires	Front: Rear:	16.5x22.5-16PR duplex highway fread tubeless and 12:00x20-18PR Michelin radial tube type. 11:00x20-14PR highway fread SRL-1 or HCT tube type radial and 12.00x20-18PR radial tube type.					
Brakes	clude mo	n all wheels. Air dryer provided to pre- isture accumulation. Spring set emer- iste on both rear axles with emergency					

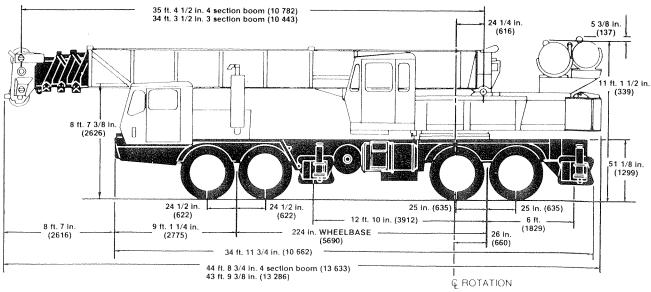
Lights	Full lighting inc reversing, dir lights.	Full lighting including head, tail, braking, reversing, directional and hazard warning lights.						
Cab	One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls and engine instrumentation including tachometer, speedometer, voltmeter, water temp. oil pressure, fuel level, air pressure gauge. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door and window locks.							
Maximum Speed	51.5 MPH (82.9 kph)							
Gross Vehicle Weight & Axle Loads	BASIC STANDAR Front Tandem: Rear Tandem: G.V.W.:	D MACHINE 32,830 lbs. (14,892 kgs) 44,170 lbs. (20,098 kgs) 77,000 lbs. (34,927 kgs) (includes 32 ft. swingaway)						
Miscellaneous Standard Equipment	Dual rear view mirrors, hookblock fiedown sling, electronic back-up alarm, light package.							
Optional Equipment	Immersion engine block heater, engine low oil pressure/high water temperature, audio visual warning. Jacobs engine brake, tire inflation kit.							

†Patented Grove feature or patent pending.
\*Denotes optional equipment.

## Superstructure specifications

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Boom	34 ft. to 84 ft. (10.4m - 25.6m) three section Trapezoidal† full power boom. Telescopic sec- tions slide on adjustable and replaceable nyla- tron pads. Maximum tip height: 90 ft. (27.4m).			Four main gear pumps powered by carrier engine. Manual pump disconnect. Combined capacity 146 GPM (553 LPM).			
Optional Boom	35 ft. to 110 ft. (10.7m - 33.5m) four section Trapezoidal† power pinned boom. Telescopic sections slide on adjustable and replaceable nylatron pads. Maximum tip height: 115 ft.	Valves		Precision four way double acting control valves 4 individual valve banks permit simultaneous control of multiple crane functions.			
Culpagua	(35m).	Filter	Return line type, full flow with by-pass protec- tion and filter by-pass indicator, replaceable				
Swingaway Extension	32 ft. (9.8m) lattice swingaway boom extension stows alongside base boom section when not in use. Maximum tip height: 120 ft. (36.5m).	Reservoir	Reservoir 127 gallons (4		/30/38 filtration rating.  (481 L) with spin-on breather filight gauge, clean out access,		
Optional	24 ft. (7.3m) "A" Frame Jib used with			strap mounted to frame.			
Jib	standard 32 ft. (9.8m) swingaway extension. Stowable on deck for travel purposes.	Oil Cooler HOIST SPEC	Oil Cooler Full flow, fin and tube, oil to air.				
Boom Nose	Four sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. *Optional removable auxiliary boom nose with removable pin type rope guard.		Series parallel circuitry and two motors provide both high line pull and speed ranges. Power u and down, equal speed, planetary reduction with integral automatic brake and electronic hoist drum rotation indicator.				
Boom Elevation	Two double acting hydraulic cylinders with integral holding valve provides elevation from -6° to 76°.		Main Hoist or *Auxiliary Hoist H030B-16(H)				
Load Moment	Standard load moment and anti-two block sys-	Make/Mode	el .	High Range	Low Range		
& Anti-Two Block System	tem with audio-visual warning and control lever lockout to alert operator of impending two-block condition. Electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and actual load indication is provided.	Maximum single line speed	Bottom layer Intermediate layer Top layer	396 FPM (121m/min) 460 FPM (140m/min) 526 FPM (160m/min)	198 FPM (60.5m/min) 230 FPM (70m/min) 263 FPM (80m/min)		
Cab	Full vision, all steel fabricated with accoustical lining and tinted safety glass throughout. Dash panel incorporates gauges for all engine functions. Other standard features include: hinged skylight, sliding left side door and sliding right side window, electric winshield wash-wipe, circulation air for barter suitable and fire paties.	Maximum single line pull	Bottom layer Intermediate layer Top layer	8,161 lbs. (3702 kg) 7,028 lbs. (3188 kg) 6,172 lbs. (2799 kg)	16,322 lbs. (7404 kg) 14,056 lbs. (6376 kg) 12,344 lbs. (5599 kg)		
	culating air fan, heater, swing horn, fire exting- uisher, seat belt. *Optional items: electric sky- light wiper and air conditioning.(Special Order).	Maximum permissible line puli		12,92 (586 W/std. v	1 kg)		
Swing	Ball bearing swing circle with 360° continuous rotation. Grove "glide swing" with foot actuated disc brake, spring applied hydraulically released park brake and 360° positive turntable lock. Combination controls provided for hand or foot operation. Swing speed 2.6 RPM.	w/5:1 Streng Maximum rope stowage	Main/Aux. 508 ft. of 3/4" dia. rope (155m of 19mm) Note: 500 ft. (152m of 19mm) supplied with basic				
Counterweight	Turntable mounted power installed and removed, hydraulically extended to working position and retracted to travel position. Weight varies depending on hoist configuration.		+Patented Grove feature or patent pending.  Denotes optional equipment.				





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

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