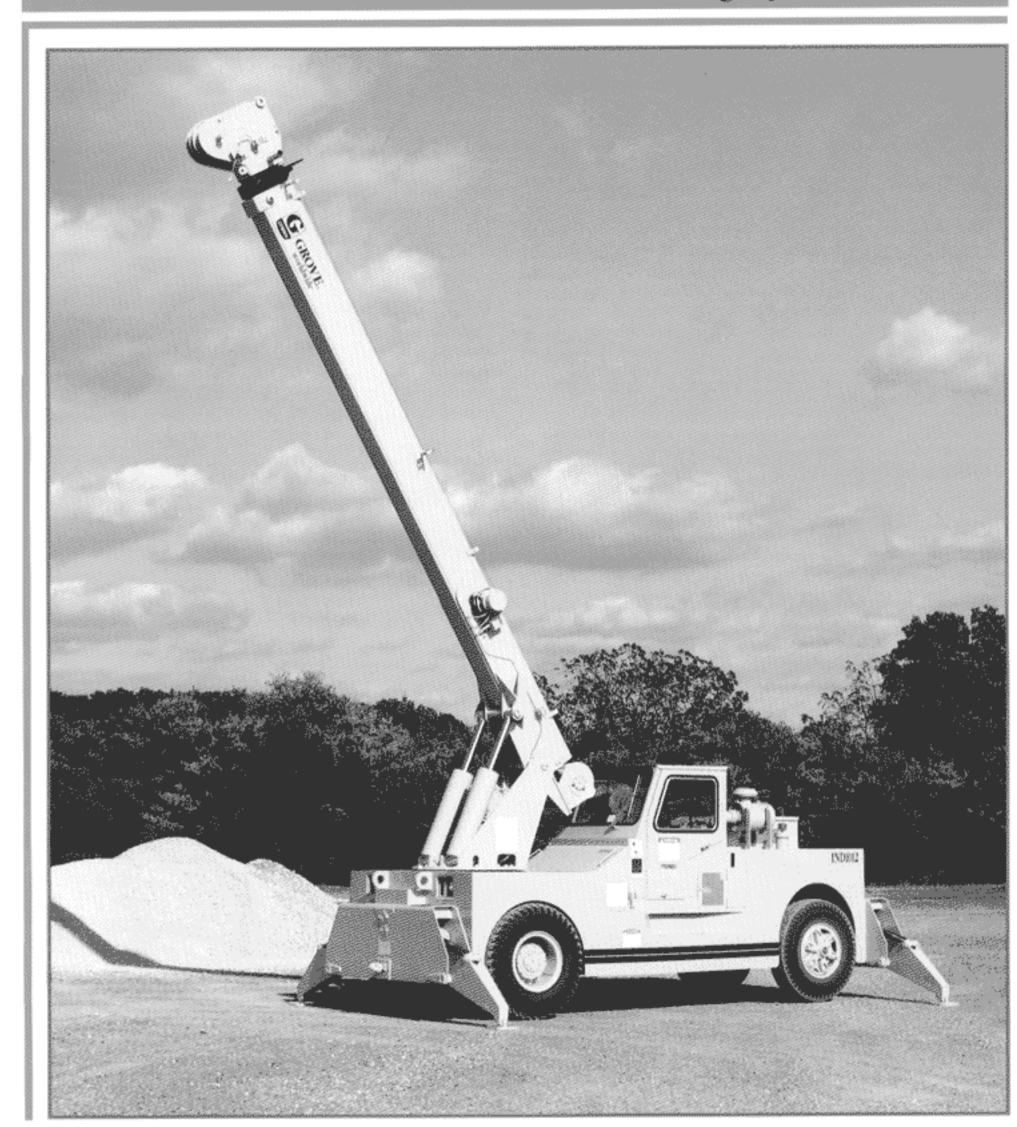


IND1012

Material Handling Hydraulic Crane



Superstructure specifications

Boom	14 ft 30 ft. (4.3m - 9.1m) three section full power boom, telescoping sections slide on adjustable and			
	replaceable Nylatron wear pads.			
	Maximum Tip Height: 36 ft. (10.9m).			
*Optional	18 ft 42 ft. (5.5m - 12.8m) three section full power			
Booms	boom. Maximum Tip Height: 48 ft. (14.6m). 24 ft			
	60 ft. (7.3m - 18.3m) 3 section full power boom.			
	Maximum Tip Height: 66 ft. (20.1m).			
*Optional Jib	20 ft. (6.0m) non-stowable jib by special order only,			
(30', 42', 60' Boom)	offsettable at 0° or 30°.			
	Maximum Tip Height: 83 ft. (25.3m).			
Boom Nose	Three steel sheaves with heavy duty tapered needle			
	bearings and removable pin-type rope guards.			
Boom Elevation	Two double acting hydraulic cylinders with integral			
	holding valve provides elevation from 0° to 70°.			
Load Moment	Standard load moment and anti-two block system with			
& Anti-Two	audio-visual warning and control lever lockout. The			
Block System	system provides a high-visibility readout that displays			
	boom length, boom angle, radius, tip height, relative			
	load moment, maximum permissible load, actual load			
	and warning of impending two-block condition.			
Swing	Ball bearing swing circle with 270° rotation. Grove			
	planetary drive with automatic type multi-disc swing			
	brake. *Optional 140° rotation with non-supply of			
	rear outriggers. *Optional 360° rotation.			
HYDRAULIC SYSTEM				
Pumps	Two main gear pumps. Combined capacity 54.4 GPM			
	(206 LPM) driven by carrier engine through P.T.O.			
Valves	Precision four way double acting control valves, four			
	individual valve sections for multiple crane functions.			
Filter	Return line type, full flow with bypass protection, 10			
Reservoir	micron rated replaceable cartridge. 60 gallons (227 L) with spin-on breather.			

HOIST SPECIFICATIONS

Hydraulic, Braden Model PD12C, power up and down equal speed.

Hoist Braden PD12C				
Bottom layer	138 FPM			
	(42.1m/min)			
Intermediate	168 FPM			
layer .	(51.2m/min)			
Top layer	198 FPM			
	(60.4m/min)			
Bottom layer	10,030 lbs.			
	(4550 kg)			
Intermediate	8,240 lbs.			
layer	(3738 kg)			
Top layer	6,980 lbs.			
	(3166 kg)			
7,400 lbs.				
(3356 kg)				
with 9/16 in. (14mm) 18x19 c	lass			
398 ft. (121m)				
9/16 in. (14mm)				
Note: 300 ft. (91m) length of 9/1	6 in.(14mm) wire			
rope supplied with basic standar	d unit.			
	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Top layer 7,400 lbs. (3356 kg) with 9/16 in. (14mm) 18x19 cm 398 ft. (121m) 9/16 in. (14mm) Note: 300 ft. (91m) length of 9/1			

*Denotes optional equipment

Carrier specifications

Frame	High strength steel, all welded reinforced construction.				
Counterweight	Integral with frame.				
Outriggers	Hydraulic cantilever arm type at all four corners with				
	integral check valves on each extension cylinder.				
	Integral are steel outrigger float pads - 10 in. x 12 in.				
	(254mmx305mm). Maximum outrigger pad load				
	55,565 lbs. (25204 kg).				
Outrigger	Individual controlled from the operator cab, activation				
Controls	requires two hand operation to prevent accidental				
	retraction				
Engine	GM4-53N diesel, 127 hp (95 kw) @ 2,400 RPM.				
	Maximum torque 270 ft. lbs. (373 kg/m) @				
	2,400 RPM.				
Optional	Caterpillar 3208 diesel, 150 hp (130 kw) @ 2,800				
Engine	RPM. Maximum torque 329 ft. lbs. (574 kg/m) @				
	1,300 RPM.				
Fuel Tank	43 gallons (163 L)				
Capacity					
Electrical	One 12 volt, 975 CCA @ 0°F.				
System					
Drive	4 x 2				
Steering	Rear: Full hydraulic power controlled by				
	steering wheel.				
Transmission	Fully automatic transmission with torque converter,				
	4 speeds forward and 1 reverse.				
Optional	Powershift transmission with torque converter drive,				
Transmission	4 speeds forward and reverse.				
Axles	Front: Double reduction drive axle (rigid				
	mounted to the chassis).				
	Rear: Wide track steer axle oscillates up to				
	10 in. (254mm).				
Oscillation	On rear axle, controlled from operator cab.				
Lockouts	The state of the s				
Tires	Front: (4) 12x20-16PR (tube type - NHS-E-3).				
	Rear: (2) 12x20-16PR (tube type - SRF).				
Brakes	Service - air on front axle. Drum and shoe type.				
	Spring applied parking brake on front wheels.				
Lights	Full lighting package, including turn indicators, head,				
3	tail, brake and hazard warning lights.				

Cab	Standard frame mounted fully enclosed cab; full								
	vision, all steel fabricated with tinted safety glass								
	throughout, skylight, right and left doors, sliding left and right side windows, electric windshield wiper and circulating air fan, includes all crane function and driving controls, engine monitoring instrumentation,								
						fire extinguisher and deluxe vinyl seat with seat belt.			
						Maximum Speed	15.5 MPH (24.9 kph).		
						Maximum	48% (Theoretical based on 56,100 lbs.		
	Gradeability	[25,447 kg] GVW).							
	BASIC STANDARD MACHINE								
Gross Vehicle	Front: 31,000 lbs. (14062 kg)								
Weight & Axle	Rear: 25,100 lbs. (11385 kg)								
Loads	G.V.W.: 56,100 lbs. (25447 kg)								
Miscellaneous	Fenders and decking, back-up alarm, light package,								
Standard	lifting lugs.								
Equipment									
Optional	* No spin front axle								
Equipment	* Front/rear pintle hook								
	 High water temp./low oil pressure A/V 								
	warning system								
	* Hookblocks								
	* Tool kit								
	* Low profile boom nose								
	* Cold start aid								
	* Spare tire assembly								
	* 360° flashing light								
	* Engine block heater								
	* Tow winch, 9,000 lbs. (4082 kg) line pull								
	* Spark arrester muffler								
	* Hot water heater								
	*Denotes obtional equipment								

Dimensions IND 1012 14' (4267)98 9/16" (2503)70 3/8" (1788)TRACK REAR WHEELS) 13'0" воом (3962)14' - 30' 28' 514" 8' 101/4" 73 1/2" (1867) 3 SEC. (8668)(2699)TRACK 18' - 42' 32'514" 12' 101/4" (FRONT WHEELS) (9887)3 SEC. (3918)38' 514" 18' 1014" 24' - 60' 18'8" 3 SEC. (11716) (5747) (5690)TURNING RADIUS-16'7"(5055) 25 3/8" (645)10' 2" 10' 2 7/8" (3099)(3121)14 1/8" (359) 36 1/2" 12' 9" (3886) WHEELBASE -5 1/2" 34 1/2 5 1/2"_ (927)(140)(140)



Grove Worldwide - World Headquarters 1565 Buchanan Trail East Shady Grove, Pennsylvania 17256 Phone: (717) 597-8121 Fax: (717) 597-4062

Grove North America P. O. Box 21, Shady Grove, Pennsylvania 17256

Western Hemisphere, Asia/Pacific Phone: (717) 597-8121 Fax: (717) 597-4062

Grove Europe*

Sunderland, England SR4 6TT Europe, Africa, Middle East, Near East

Phone: (0191) 565-6281Fax: (0191)564-0442

* Grove Europe Limited, Registered in England, Number 1845128, Registered office, Crown Works, Pallion, Sunderland, Tyne & Wear, England SR4 6TT. Constant improvement and engineering progress make 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.

(5969)

Distributed By:				

Form No: SBIND1012

Part No: 3-040 495-5M

Printed in U.S.A.