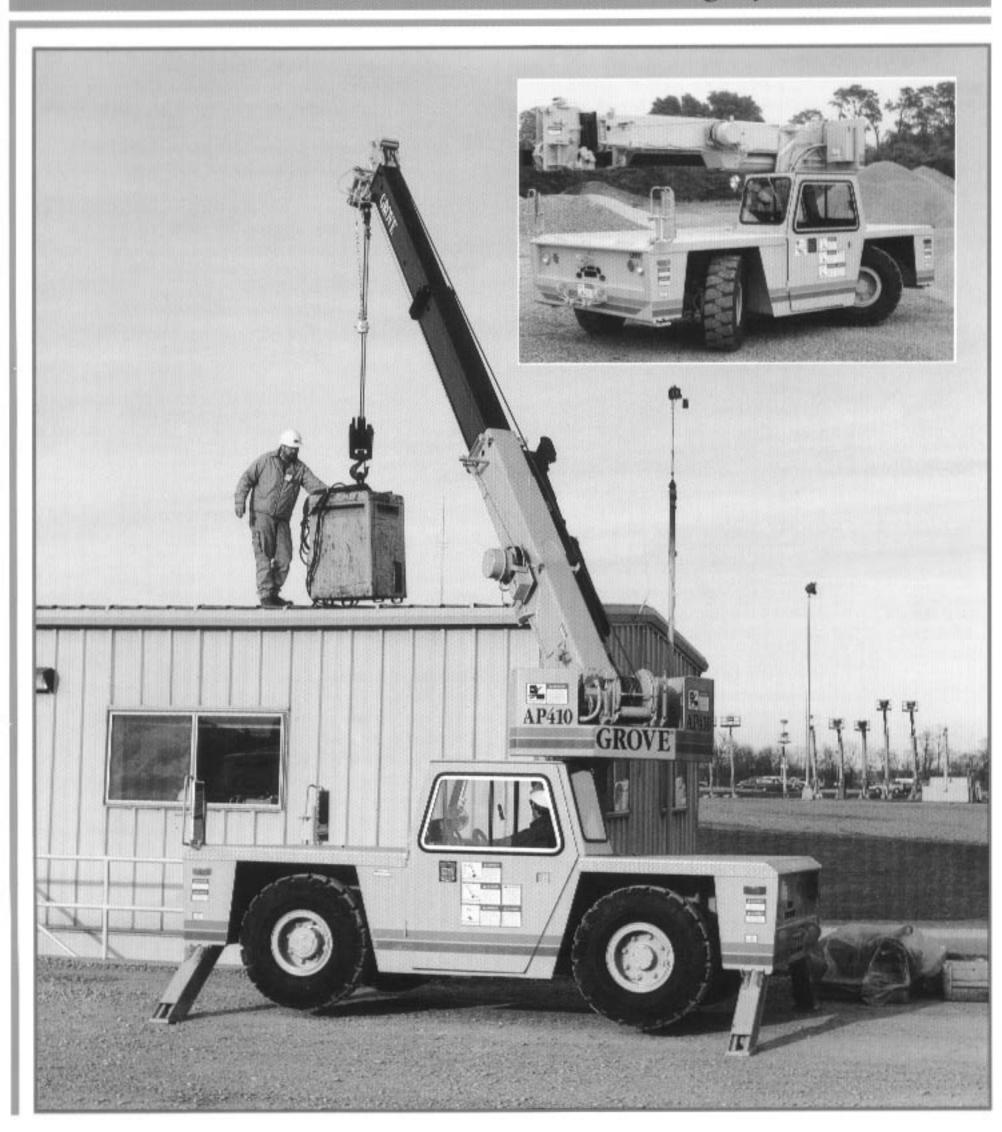


AP410

Material Handling Hydraulic Crane



Superstructure specifications

Boom	10.5 ft. to 24 ft. (3.2m - 7.3m) three section Trape-		
Doom.	zoidal full power boom. Telescoping is mechanically		
	synchronized with single lever control. Telescopic		
	sections slide on adjustable and replaceable low		
	friction wear pads.		
	Maximum Tip Height: 29 ft. (8.8m).		
*Optional	12.5 ft. to 30 ft. (3.8m - 9.1m) three section		
Boom	Trapezoidal full power boom. Telescoping is		
DATA III	mechanically synchronized with single lever control.		
	Telescopic sections slide on adjustable and		
	replaceable low friction wear pads.		
	Maximum Tip Height: 35 ft. (10.7m).		
Swingaway	10 ft. (3.05m) swingaway boom extension with		
Extension	offset links, stows alongside base boom section when		
	not in use. Offsettable at 0° or 45°.		
	Maximum Tip Height: 39 ft. (11.9m) with 24 ft.		
	(7.3m) boom; 45 ft. (13.7m) with 30 ft.		
	(9.1m) boom.		
"Optional	10 ft. to 15.7 ft. (3.05m to 4.8m) telescopic		
Telescopic	swingaway extension with offset links, offsettable at		
Swingaway	0° or 45°. Stows alongside base boom section when		
	not in use.		
	Maximum Tip Height: 44 ft. (13.4m) with 24 ft.		
	(7.3m) boom; 50 ft. (15.2m) with 30 ft.		
	(9.1m) boom.		
Room Nose	Two lower steel sheaves and one idler sheave mounted		
	on bronze bushing with removable pin-type rope		
	guards.		
*Optional	3,000 lbs. (1316 kg) capacity, boom nose mounted.		
Searcher Hook			
Boom Elevation	Single 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. These		
Block System	systems provide electronic display of boom angle,		
	length, radius, dp height, relative load moment,		
	maximum permissible load, load indication and		
	warning of impending two-block conditions.		
Cab	Standard frame mounted control station includes all		
	crane function and driving controls, engine		
	monitoring instrumentation and deluxe fabric seat		
	with seat belt. Standard full vision, all steel fabricated		
	enclosed cab with tinted safety glass throughout. Dash		
	panel incorporates gauges for all engine functions.		
	Other features include skylight, sliding left & right side		
	windows, electric windshield washer-wiper, circulat-		
	ing air fan and fire extinguisher. Also available:		
	"sound suppression kit, *hot water heater and forced		
	air defroster.		
Swing	Ball bearing swing circle with 360° continuous rota-		
	tion. Grove planetary glide-swing with automatic type		
	multi-disc brake. Maximum speed: 1.5 RPM.		
Counterweight	Integral with superstructure.		
o miner in engine	2,100 lbs. (952kg).		

HYDRAULIC SYSTEM					
Pumps	2 main gear pumps, combined capacity 54.4 G.P.M.				
	(205.7 LPM) driven by carrier engine through P.T.O.				
Valves	Precision four way double a				
	individual valve banks perm	it simultaneous control o			
	two crane functions.				
Filter	Return line type, full flow with bypass protection and service indicator. Three micron rated replaceable				
	cartridge.				
Reservoir	30 gallons (114 L) with spir				
	external sight gauges, clean	out access, strap			
	mounted to frame.				
Oil Cooler	Remote mounted with therm	nostatically controlled			
	electric motor driven fan.				
Pressure	System pressure check panel permits easy verification				
Check Panel	of circuit pressures.				
HOIST SPECIFICATION					
	Power up and down equal speed, planetary reduction				
	with automatic spring applic	ed multi-disc brake and			
	hoist drum cable follower.				
	Mala	Voiet			
		Hoist HO12			
Maximum	Grove				
		Н012			
single line	Grove	HO12 120 FPM			
	Bottom layer Intermediate	120 FPM (37m/min)			
single line	Bottom layer Intermediate layer	120 FPM (37m/min) 132 FPM			
single line	Bottom layer Intermediate	120 FPM (37m/min) 132 FPM (40m/min)			
single line	Bottom layer Intermediate layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM			
single line speed Maximum	Grove Bottom layer Intermediate layer Top layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min)			
single line speed Maximum single line	Grove Bottom layer Intermediate layer Top layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs.			
single line speed Maximum	Bottom layer Intermediate layer Top layer Bottom layer Intermediate	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg)			
single line speed Maximum single line	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs.			
single line speed Maximum single line	Bottom layer Intermediate layer Top layer Bottom layer Intermediate	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg)			
single line speed Maximum single line pull	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Intermediate layer Top layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs.			
single line speed Maximum single line pull Maximum permissible	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Intermediate layer Top layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs.			
single line speed Maximum single line pull Maximum permissible single line pull	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Top layer Top layer Top layer	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs. (3608 kg)			
single line speed Maximum single line pull Maximum permissible	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Top layer Top layer 7,400 lbs. (3356 kg)	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs. (3608 kg)			
single line speed Maximum single line pull Maximum permissible single line pull 5:1 strength factor Maximum	Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Top layer Top layer * 7,400 lbs. (3356 kg) with 9/16 in. (14mm) 188	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs. (3608 kg)			
single line speed Maximum single line pull Maximum permissible single line pull 5:1 strength factor	Grove Bottom layer Intermediate layer Top layer Bottom layer Intermediate layer Top layer 7,400 lbs. (3356 kg) with 9/16 in. (14mm) 18: 181 ft. (55.2m)	120 FPM (37m/min) 132 FPM (40m/min) 145 FPM (44m/min) 9,580 lbs. (4345kg) 8,692 lbs. (3943 kg) 7,954 lbs. (3608 kg)			

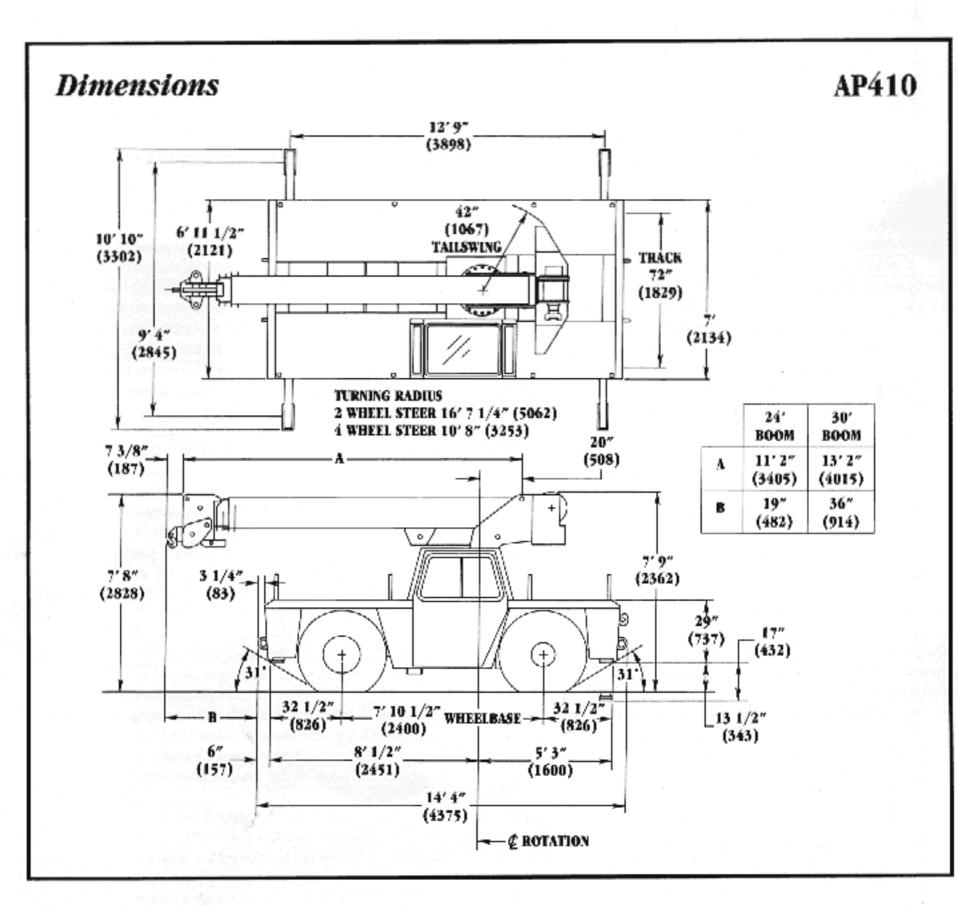
*Denotes optional equipment

Carrier specifications

Frame	High strength alloy steel construction with integral outrigger housings and from/rear lifting, towing and		
	tie down lugs. Carry deck with surface area of		
	69.4 sq. ft. (6.44m²).		
Outrigger	Front and rear oblique type telescoping beams at all		
System	four corners with integral holding valves. Outrigger		
,	pads are an integral part of the beam and have a		
	surface area of 72 sq. in. (464 cm²).		
	Maximum outrigger pad load 16,400 lbs. (7439 kg).		
Outrigger	Located in cab on left side of seat and on right side of		
Controls	dash requires two hand operation. Crane level		
00000	indicator located in cab.		
Engine	Cummins 4B3.9L four cylinder water cooled diesel -		
ang	3.9 liters, 76 bhp (57 kw) (Gross) @ 2,500 RPM.		
	Maximum torque 184 ft. lbs. (23 kg/m) @		
	1,200 RPM.		
*Optional	Continental TM2.7L four cylinder water cooled gas -		
Engine	2.7 liters, 66 bhp (49 kw) (Gross) @ 2,800 RPM.		
Linguite	Maximum torque 144 ft. lbs. (19 kg/m) @		
	1,800 RPM.		
Fuel Tank	30 gallons (114 L)		
Capacity	,70 Branch (** * * *)		
Electrical	One 12 volt maintenance free battery,		
System	815 CCA @ 0° F. 12 volt starting.		
Drive	4 x 2		
Steering	Full hydraulic power, controlled by steering wheel.		
	Three modes: Front only, all wheel coordinated and		
	crab, available by switching to desired function.		
Transmission	Automatic with 3 speeds forward and 1 reverse with		
	torque converter.		
*Optional	4 forward and 4 reverse speeds with torque converter		
Transmission	drive and forward/reverse shuttle control.		
Axles	Front: Drive steer-type with no-spin differential		
	and planetary reduction hubs (rigid		
	mounted to the chassis).		
	Rear: Steer-type rigid mounted to the frame.		
Tires	Standard 10.00 x 15-16PR tube type, deep mine lug.		
Brakes	Enclosed hydraulic wet disc type acting on front drive		
	differential. Mechanically actuated parking brake		
	acting on front differential. *Optional are hydraulic		
	dry disc type brakes acting on rear wheels.		
Lights	Full lighting package including turn indicators, head,		
	tail, brake and hazard warning lights.		
	mani namana mana manana namana albana		

Maximum Speed	17 MPH (27 kph) with automatic transmission. 29 MPH (46.7 kph) with manual transmission.				
Maximum	65.6% (Theoretical based on 16,371 lbs.				
Gradeability	[7425 kg] GVW).				
	BASIC STANDARD MACHINE (3 Section Boom)				
Gross Vehicle	Front: 6,423 lbs. (2913 kgs)				
Weight & Axle	Rear: 9,948 lbs. (4512 kgs)				
Loads	G.V.W.: 16,371 lbs. (7/425 kgs)				
Miscellaneous	Dual rear view mirrors, front hookblock tiedown				
Standard	sling, electronic back-up alarm, light package and				
Equipment	stowage well.				
*Optional	* Worklights				
Equipment	 360° Flashing light 				
	* Cab spotlight				
	* Tachometer				
	* Cold start aid (less canister)				
	* Engine block heater				
	* Maintenance platform, 500 lbs. (227 kg) evenly				
	distributed				
	* Hookblocks				
	* Tow winch				
	* Tool kit				
	* Pintle hook front/rear				
	* Carry deck posts				
	* LP gas conversion kit (less bottle)				
	 Engine low oil pressure/high water temperature A/V 				
	warning system				
	* Spark arrestor muffler				
	 360° positive swing lock 				

*Denotes optional equipment.





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