

#### CAPACITY 5.5-6.8 metri <del>S</del>

- LOW PROFILE ... only 8' (2.44m) high, the Grove Model 36 is ideal for close quarter operation, in plant or outside storage yard. Counterweight swing is only 4' (1.22m) and entirely within machine perimeter.
  POWER-TELESCOPING BOOMS ... 3-boom lengths available 20', 30' and 42' (6.1m, 9.14m and 12.8m) providing up to 40' (12.2m) of horizontal reach and a maximum tip height of 49' (14.93m).
- SWING . . . 140°, 260°, or 360° available. continuous swing
- over the front. PICK & CARRY CAPACITY . . . 12,000 lbs. (5 443kg)
- **CARRY DECK** . . . 65 sq. ft. (6.04m²) front and side carry deck will accommodate many hard-to-handle shapes.







# SUPERSTRUCTURE SPECIFICATIONS

### STANDARD EQUIPMENT

BOOM - 14 ft. - 22 ft. (4.27m - 6.71m), 2-section, full power telescoping.
BOOM HEAD - Single sheave; root diameter 9%" (251mm); flange diameter 12" (305mm).

BOOM ELEVATION – Twin double-action cylinders (power up, power down) 7" diameter (178mm); integral holding valves; boom angle range: 0° to 75°; pendulum-type angle indicator.

WINCH – Braden Model PD10-77, power up and down, equal speed both directions; Planetary Drive with integral automatic brake; 125 ft. (38.1m) of ½ in. (13mm) cable; 6 x 25 EIPS, Type W construction. Drum: 9½ in. (241mm) diameter, 12¾ in. (324mm) wide, 16 in. (406mm) flange

SINGLE LINE SPEEDS Bare Drum FULL LOAD 100 FPM (30.48MPM) 120 FPM (36.58MPM) 160 FPM (48.77MPM) NO LOAD 135 FPM (41.15MPM) 165 FPM (50.29MPM) 220 FPM (67.06MPM)

SINGLE LINE PULL

Bare Drum – 9,000 lbs. (4 062kg)
Mean Drum – 7,499 lbs. (3 402kg)
Full Drum – 5,625 lbs. (2 552kg)

DRUM CAPACITY – 490 ft. of ½ in. cable (149.35m of 13mm).

BOOM SPEEDS – Out, 16 seconds; in, 13 seconds; up, 22 seconds; down, 20 seconds.

SWING - 140° rotation, ball bearing swing circle, hydraulic motor powered; speed: 3¾ RPM. Non-free swing, automatic swing brake.

HYDRAULIC PUMP - 2-section; volumes calculated at 2400 RPM and 500 PSI (35.2 kg/cm<sup>5</sup>). Main section for craning functions: 44.5 GPM (168 LPM); second section for steering: 16 GPM (61 LPM). Total capacity: 60.5 GPM (229 LPM).

CRANE CONTROLS - Four-way double acting hydraulic valves; integral main by-pass for system relief; individual by-pass for circuit relief.

OPERATING PRESSURE - 2250 PSI (158 kg/cm²), crane functions; 1250 PSI (87.9 kg/cm²), steering.

HYDRAULIC OIL RESERVOIR - 50-gallon (189 liters) capacity with return line filter.

SUPERSTRUCTURE - Optional equipment BOOMS - 14 ft. - 30 ft. (4.27m - 9.1

BOOMS - 14 ft. - 30 ft. (4.27m - 9.14m), 3-section, full power; 18 ft. - 42 ft. (5.49m - 12.8m), 3-section, full power.

JIB - 14 ft. (4.27m) non-stowable.

HOOK BLOCK – 8-ton (7.2tm) single sheave with ball bearing swivel hook. 3-ton (2.7tm) overhaul ball and swivel hook.

ROTATION – 260° swing – similar to 140° swing with stops placed to permit 260° rotation. Standard option is 130° right and left from center over front, but requires optional outriggers. 360° continuous swing – includes hydraulic swivel to permit continuous rotation in either direction, also requires 4 outriggers.

FLOODLIGHT, boom-mounted – Unit swivel-mounted on base section of boom; off-on switch controlled from cab. 12V, 1000 candlepower.

## CHASSIS SPECIFICATIONS

## STANDARD EQUIPMENT

FRAME – High-strength steel, all-welded reinforced construction.

CARRY-DECK – Steel "Tread-Plate" welded to frame. Load area: 65 sq. ft. (6.04m²), Maximum loading: 125 lbs./sq. ft. (610 kg/m²). Combined hook and deck load not to exceed 12,000 lbs. (5 443kg).

Designation of the state of the		ALTERNATOR	ELECTRICAL SYSTEM	FUEL CAPACITY 50 gal. (189 liters) w/Protecto Cap	COOLING SYSTEM	GOVERNED RPM	NET TORQUE 222 lbs. ft. @ 2800 RPM	NET H.P	DISPLACEMENT	BORE & STROKE	CYLINDERS	TYPE 4-cycle gasoline	MAKE	INGINE DATA
formed and A roughly bolioglappe	'	30 amp	12 volt	50 gal. (189 liters) w/Protecto Cap	Liquid, 26 qt. (24 liters) capacity	2800	222 lbs. ft. @ 2800 RPM	118 @ 2800 RPM		4.00 x 3.98 in. (102mm x 101mm)	6	4-cycle gasoline	Ford 300	STANDARD

TRANSMISSION - Manual shift, 4 speeds forward and 4 reverse, netical gear, synchronized in top 3 speeds; spur gear provided in low. Dry type disc

DRIVE SHAFT - Heavy-duty industrial type with double universal joints.

AXLES - FRONT DRIVE AXLE, Hypoid single reduction, REAR STEER AXLE, wide-track; axle oscillation 0 to 10 in. (0 to 254mm).

OSCILLATION LOCKOUTS - Automatic on rear axle.

STEERING - Hydraulic, full power on rear wheels. Fallsafe feature when power source is lost.

BRAKES - Service: power-assist hydraulic on front wheels. Drum and Shoe type, 156 sq. in. (1006cm²) lining. Drum diameter 16.5 in. x 5 in. (419mm x 127mm).

Parking: Mechanical, mounted on drive shaft. Hand lever controlled. Adjustment on hand lever.

TIRES - Front: (4) 10:00 x 20 - 12 ply Rear: (2) 10:00 x 20 - 12 ply

CHASSIS CONTROLS - All basic controls with engine instruments, including hourmeter and electric fuel gauge.

WEIGHT – Basic machine: 22,510 lbs. (10 210kg)

14 ft. – 30 ft. (4,27m – 9.14m) boom add 1,100 lbs. (499kg)

18 ft. – 42 ft. (5,49m – 12,8m) boom add 2,300 lbs. (1 043kg)

18 ft. – 42 ft. (5,49m – 12,8m) boom add 2,300 lbs. (1 043kg)

Enclosed cab add 300 lbs. (136kg)

Front outriggers add 1,850 lbs. (839kg)

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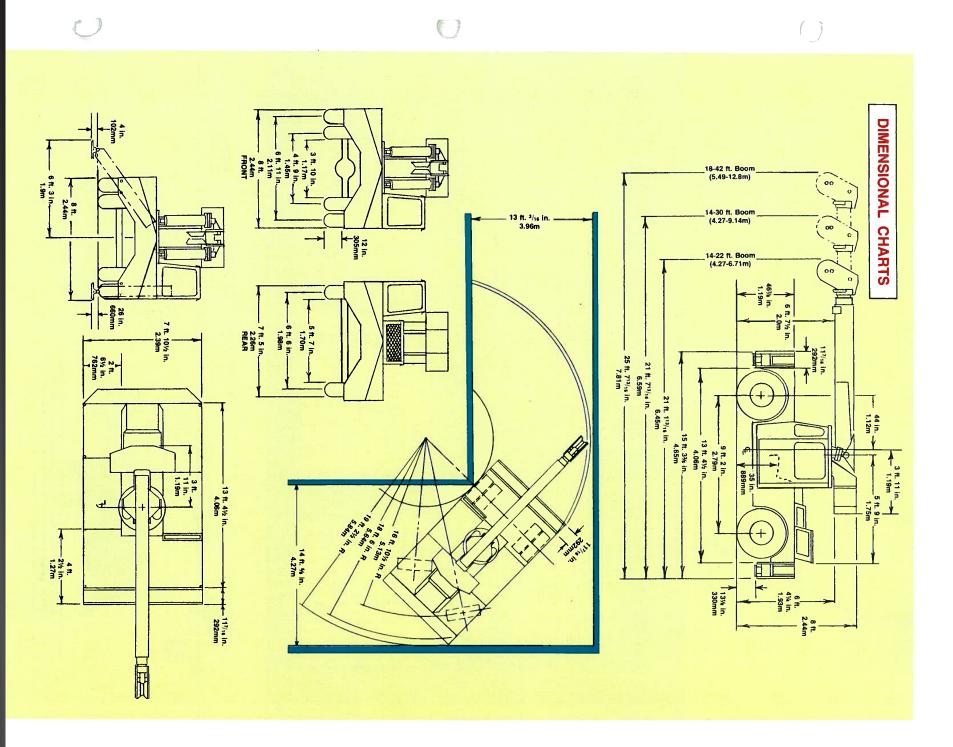
Front and rear outriggers add 1,900 lbs. (862kg)

WEIGHT DISTRIBUTION – 12,400 lbs. (5 625kg) on front axie: 10,100 lbs. (4 581kg) on rear axie. (Boom and front outrigger weights affect front axie loading. If equipped with rear outriggers, rear counterweight is

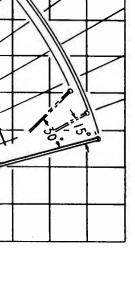
PERFORMANCE – STANDARD ENGINE & TRANSMISSION Axle ratio: 6.167:1 Auxiliary Gear Box: 2.41:1

	4th		3rd		2nd		1st	Range	Gear	
	1.000:1		1.686:1		3.092:1		6.324:1	Ratio		
								Range Ratio (MPH)		
(566kg)	1,248	(1 094kg)	2,413	(2 178kg)	4,802	(3 152kg)	6,950	Pull (lbs.)	Drawbar	
	4.4		8.8		17.8		26.0	Gradeability	%	

NOTE: Speed and gradeability performance measured on concrete. Maximum drawbar pull and gradeability limited by torque required to slip wheels.











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18 ft. 118 (18 30 HOOM)

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**5**00 v, 50

10

55

60

65

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ລ	40°	45°	50°	55°	60°	65°	70°	75°	Minimum Boom Angle	
1 990	2,200	2,400	2,600	3,300	3,700	4,300	5,000	6,200	No Offset	
1 200	1,460	1,500	1,650	2,100	2,150	2,300	2,400	2,600	Maximum Offset (30°)	

HOOK ELEVATION IN FEET

18 - 42 18 . 800 M E+ TENOEO 14.

36 18 (12.30 BOOM)

74.30 st. 800 mg + rehoes

Jibs may be used with single part line only. Capacities are based on structural strength of Jibs. Actual loads must not exceed capacities given in main boom chart for same working radius.

5

0° 5°

-

15

100

12 · 20 ft.

18

150

2 · 20 ft. 800m. 1 · 42 ft. 800m. AETA ACTE

14 - 30 ft. 800M AE TARCA

HOOM RET PACTED

BOOM EXTENDED

**20**0 25°

## AXIS OF ROTATION

OPERATING RADIUS FROM AXIS OF ROTATION IN FEET

ENGINE DATA	CHASSIS - Optiona
	Equipment

BATTERY	ELECTRICAL SYSTEM	FUEL CAPACITY	GOVERNED RPM	NET TORQUE	DISPLACEMENT	m	CYLINDERS		MAKE
ALTERNATOR55 amp BATTERY	12 volt	COOLING SYSTEM	2800	NET TORQUE 156 lbs. ft. @ 2800 RPM	DISPLACEMENT159 cu. in. (2606cm³) NET H P 83 @ 2800 RPM	3.875 x 4.50 in. (98mm x 114mm)	CYLINDERS3	TYPE 2-cycle diesel	Detroit Diesel 3-53N

**TRANSMISSION** - Power shift, forward-reverse with Torque Converter, manual speed selection; 4 speeds forward and 4 speeds reverse.

**LIMITED SLIP DIFFERENTIAL** - Same as standard except for limited slip feature.

LP (Liquid Propane) GAS SYSTEM - Liquid withdrawal

OPTIONAL

TIRES - 9.00 x 20 - Michelin
CAB - Steel construction, fully-enclosed; weatherstripped, safety glass windows, windshield, skylight and left-hand door; electric windshield wiper and cab heater.

DEFROSTER - Electric fan.

LIGHTS - Group 1 - Head, tail, stop and back-up. Group 2 - Head, tail, stop back-up, 4-way flasher and turn signal.

PINTLE HOOK (Front) - Flush-mounted.

PINTLE HOOK (Rear) - Flush-mounted.

TOWING WINCH - Front-mounted; 9,000 lbs. (4 082kg) capacity.

**OUTRIGGERS** - Hydraulic with integral safety holding valves. Oblique and vertical operation positions. Individually-controlled from Operator's

position.

(1) Front outriggers only – 140° swing
(2) Front and rear outriggers – 260° swing
(3) Front and rear outriggers – 360° swing
CARRY-DECK POSTS – Set of five.

ELECTRONIC AUDIO BACK-JP ALARM



Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice.



#### RATED LIFTING CAPACITIES MODEL 36

## 14 ft. - 22 ft. BOOM

FRONT OUTRIGGERS
FULLY SPREAD
140° SWING

ON RUBBER 140° SWING

Radius	With O	With Outriggers
Feet	Front	Side 70°
10	15,000	15,000
12	14,000	12,300
15	12,750	8,400
19	9,600	5,750

Radius in Feet

Front

Side 70°

On Rubber

10 12 15 19

12,000 10,250 6,650 4,450

8,750 6,300 4,200 3,050

	12 72 5
6 TON CAPACITY (5.5 metric tons)	PICK & CARRY

7½ TON CAPACITY (6.8 metric tons)

WITH OUTRIGGERS

#### ON RUBBER 140° SWING

Radius in Feet

Front

Side\*\*

On Rubber

10 12 15 20 25 28

12,000 9,200 6,600 4,250 3,000 2,500

8,100 5,800 4,000 2,500 1,650 1,350

FRONT OUTRIGGERS
FULLY SPREAD
140° SWING 14 ft. - 30 ft. BOOM

-	_		_				
2	25	20	5	12	10	Feet	Radius
7 100	6,200	9,000	12,750	14,000	15,000	Front	With Ou
3 300	3,800	5,400	8,400	12,000	15,000	Side 70° *	With Outriggers

## FRONT & REAR OUTRIGGERS FULLY SPREAD 260° & 360° SWING

	-	3112					
28	25	20	5	12	10	Feet	Radius
5.100	6,200	000,6	12,750	14,000	15,000	Front	With Outriggers
4.000	4,800	7,000	12,750	14,000	15,000	360°*	itriggers

### ON RUBBER 140° SWING

FRONT OUTRIGGERS
FULLY SPREAD
140° SWING 18 ft. - 42 ft. BOOM

40	35	30	25	20	15	12	10	Feet	Radius
2,300	3,200	4,450	6,200	9,000	12,000 <sup>3</sup>	14,0002	15,000¹	Front	With C
1,000	1,500	2,100	2,800	3,700	5,100	8,650	12,000 <sup>3</sup>	Side 70°	Outriggers

## FRONT & REAR OUTRIGGERS FULLY SPREAD 260° & 360° SWING

40	35	30	25	20	5	12	10	Feet	Radius
2,300	3,200	4,450	6,200	000, 6	12,0003	14,0002	15,000 <sup>1</sup>	Front	With Ou
1,900		3,500	4,800	7,000	12,0003	14,0002	15,000¹	360°*	Outriggers

 _		_	2	20 3,650	 6	12 9,200	10 12,000 <sup>3</sup>	Feet Front	Radius On Rubber
3 60	650	1,200	65	50	,75	20	,25	Side**	ıbber

With O	Outriggers
Front	Side 70°
15,000¹	12,000 <sup>3</sup>
14,000 <sup>2</sup>	8,650
12,000 <sup>3</sup>	5,100
9,000	3,700
6,200	2,800
4,450	2,100
3,200	1,500
2,300	1,000
	With ,000 ,000 ,000 ,000 ,200 ,200 ,450 ,450

(1) For 15,000 lbs. lifting capacity - maximum boom length 30 ft. (2) For 14,000 lbs. lifting capacity - maximum boom length 34 ft. (3) For 12,000 lbs. lifting capacity - maximum boom length 38 ft.

## NOTES TO LIFTING CAPACITIES Applies to All Above Load Charts

\*Outriggers required in spread position.

\*\*Capacities also applicable when outriggers are used vertically.

Capacities appearing above bold line are based on machinery strength and tipping should not be relied upon as a capacity limitation.

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G.O.A.



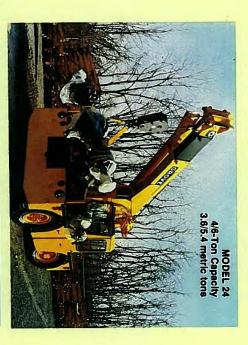
Rated lifting capacities, with our without outriggers, are the maximum loads covered by the manufacturer's warranty with the machine standing on a firm, level and uniform surface. Capacities do not exceed 85% of tinning.

Capacities do not controlled by machinery strength.
Machine tipping must not be relied upon as the capacity limitation.
The weights of all load-handling devices are considered part of the load lifted and suitable allowances for them should be made.

**EXCLUSIVE DUAL POSITION OUTRIGGERS** permit the oblique spread position for maximum stability or the vertical position for use where space is limited.

## THE WORLD'S MOST COMPLETE LINE OF **IYDRAULIC INDUSTRIAL CRANES**

Capacities from
2 through
35 tons
(1.8-31.8 metric tons)













GROVE MANUFACTURING COMPANY A DIVISION OF WALTER KIDDE & COMPANY, INC. P. O. BOX 160/GREENCASTLE, PENNSYLVANIA 17225

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