

FR40/60

STANDARD EQUIPMENT

DURABILITY

Impact-resistant main and side thrust rollers to reduce friction

Greaseable mast pivots constructed with wear-resistant bronze bushings and high-strength alloy steel pins

Corrosion resistant cylinder rods

Engine protection system

Heavy-duty isolated anti-vibration bolt-in drive line mounts

Tilt-lock counterbalance valve to prevent mast drift

12 volt electrical system

High torque heavy duty planetary wheels for high-capacity applications

Precision ground, heat-treated gears

Thick top plate on welded beam steer axle provides added strength

Dual-action bolt-on steer cylinder protected by heavy steel support beams

High-impact composite trunnions

Tapered roller bearings

Two-part rust-inhibiting polyurethane base coat & two-part polyurethane top coat for corrosion protection

Powder-coated components

SAFETY

Electrical horn

Asbestos free components

Bolt-on overhead guard

Seat with operator restraint system

Operator Presence Sensing System (OPSS)

Spring-applied/hydraulic release parking brake

Audible alarm used in conjunction with visual warnings

Anti-roll back programming feature

PERFORMANCE

PSI 2.4L 4-cylinder dual fuel engine (LP/Gas)

2-Speed hydrostatic transmission

Heavy-duty alternator with built-in regulator

2-function hydraulic control valve (lift and tilt)

Hydraulic power steering

Inboard muffler/catalyst

7" touch-screen multi-function display

- Fuel gauge (gasoline only)
- Hour meter
- Tachometer
- Water temperature gauge
- Engine oil pressure gauge
- Enhanced automated capacity calculator
- Lift Plan Tool
- Parking brake indicator
- Load weight indicator
- Fuse/relay diagnostics
- Onboard diagnostics
- Selectable normal/creep mode
- Service and operator's manuals

ERGONOMICS/CABIN

Left-hand operator/seat position

Rubber-mounted cab isolated from the frame to reduce noise and vibration

Low-height non-skid step

Adjustable vinyl semi-suspension seat

Compact low effort hydraulic levers w/electronic controls

Tilt steering column

Large dual operator assist grips

Bolt on lexan top panel on top of operator guard

Pushbutton panel with rotary encoder for RPM adjustment

SERVICEABILITY

Quick-Change Attachment System for quick connect/disconnect of forks and boom

Fork QD pin storage bracket on mast.

Pin type mechanical carriage w/pushers

Engine fault code diagnostic capability

O-ring face seal fittings

Easy-access oil filter and drain

Large clean-out cover on top of hydraulic tank and convenient drain plug on the bottom

Engine driven fan

Wires enclosed in split wire loom wrap

Deutsche connectors

Easy-access steer axle lubrication points

Hinged panels and hoods supported by gas shocks to reach entire drivetrain, hydraulics and filters

Emergency lowering override

Easy access removable LP tanks

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MAIN VEHICLE SPECIFICATIONS

1	Manufacturer			HOIST	
2	Model			FR40/60	
3	Load Capacity ¹	Retracted/Extended	lb (kg)	35,200 (15966.5) / 52,300 (23722.9)	
4	Load Center		in (mm)	48.00 (1219.2)	
5	Power Type			LP/Gas	
6	Operator Position			Seated Rider / LH Seat	
7	Tire Type	Front/Rear		Cushion / Cushion	
8	Wheels (x = driven)	Front/Rear		2x/2	
9	Maximum Fork Height (MFH) (Top of Forks) (FV Mast)		in (mm)	104.50 (2654.3)	
10	Maximum Boom Lifting Height ²		in (mm)	306.31 (7780.2)	
11	Maximum Boom Extension Length ²		in (mm)	120.00 (3048.0)	
12	Free Lift (Top of Forks)		in (mm)	31.00 (787.4)	
13	Fork Size	T x W x L	in (mm)	4.50 (114.3) x 10.00 (254.0) x 96.00 (2438.4)	
14	Fork Spread (Out-to-out Max / In-to-in Min)	Max / Min	in (mm)	64.58 (1640.3) / 9.50 (241.3)	
15	Tilt Range	Fwd/Bwd	deg	12/7	
16	Length to Fork Face	Retracted/Extended	in (mm)	156.81 (3982.9)/204.81 (5202.2)	
17	Overall Width		in (mm)	72.00 (1828.8)	
18	Mast Lowered Height		in (mm)	107.00 (2717.8)	
19	Mast Extended Height		in (mm)	175.75 (4464.0)	
20	Overhead Guard Height (top of strobe)		in (mm)	95.27 (2419.9)	
21	Turning Radius (Outside)	Retracted/Extended	in (mm)	136.87 (3492.5) / 189.64 (4816.9)	
22	Load Distance (Centerline of front axle to front face of forks)		in (mm)	31.30 (795.0)	
23	Basic Right Angle Stacking Aisle Width (Add load length and clearance)	Retracted/Extended	in (mm)	168.17 (4271.5) / 220.94 (5611.9)	
24	Travel, Max. (Forward / Reverse)	Full Load	mph (km/h)	3.0 (4.8)	
25		No Load	mph (km/h)	3.9 (6.3)	
25	Lifting	Full Load	fpm (mm/sec)	10.9 (55.4)	
26		No Load	fpm (mm/sec)	15.0 (76.2)	
26	Lowering	Full Load	fpm (mm/sec)	15.3 (77.7)	
27		No Load	fpm (mm/sec)	6.8 (34.5)	
27	Drawbar Pull, Max.	Full Load	lb (kg)	8,098 (3673.2)	
28		No Load	lb (kg)	8,698 (3945.3)	
28	Gradeability ³	1 MPH	lb (kg)	8,109 (3678.2)	
29		Full Load	%	7	
29	No Load	%		15	
30	Total Weight		lb (kg)	56,310 (25541.8)	
31	Weight Distribution (Counterweight collapsed, all slabs)	Loaded (40,000 lbs. @ 36" L.C)	Front	lb (kg)	88,198 (40005.9)
32		No Load	Rear	lb (kg)	7,922 (3593.4)
33	Number	Front / Rear	lb (kg)	20,520 (9307.7)	
34		Rear	lb (kg)	35,600 (16147.9)	
34	Tires	Front		4/2	
35		Rear		28 X 10 X 22	
36	Wheelbase	Front		28 X 10 X 22	
37		Retracted/Extended	in (mm)	96.40 (2448.6)/144.40 (3667.8)	
37	Track Width	Front	in (mm)	52.00 (1320.8)	
38		Rear	in (mm)	60.00 (1524.0)	
39	Underclearance (Full Load)	Min. with Load	in (mm)	4.38 (111.3)	
40		Center of Wheelbase	in (mm)	6.25 (158.8)	
41	Brake	Service (Foot)		Hydrostatic	
42		Parking		Mechanical	
43	Battery	Voltage	V	12	
44	Make / Model			PSI 2.4L	
45		Rated Horsepower @ r.p.m.	SAE HP	63.2 @ 2800	
46	Internal Combustion Engine		<kW>	<47.1 @ 2800>	
47		Rated Torque @ r.p.m.	SAE ft-lb	123.9 @ 1600	
47	Number of Cylinders		<N-m>	<168.0 @ 1600>	
48		Piston Displacement	cu-in (cc)	4	
48	Transmission	Fuel Tank Capacity	US gal (liter)	13.7 (51.86)	
49		Type		Hydrostatic	
49	Aux. Hydraulic Function (For Attachments)	Speeds	Forward / Reverse	2 / 2	
50		Max. Operating Pressure	psi (kg/cm2)	2900 (203.9)	
50	Max Flow Rate	<MPa>		<19.99>	
50		gpm (lpm)		24.20 (91.6)	

¹ Capacity for FR40/60 at 36"LC is 41,400 (18770) / 61,600 (27940)

² With standard mast and corresponding machinery boom

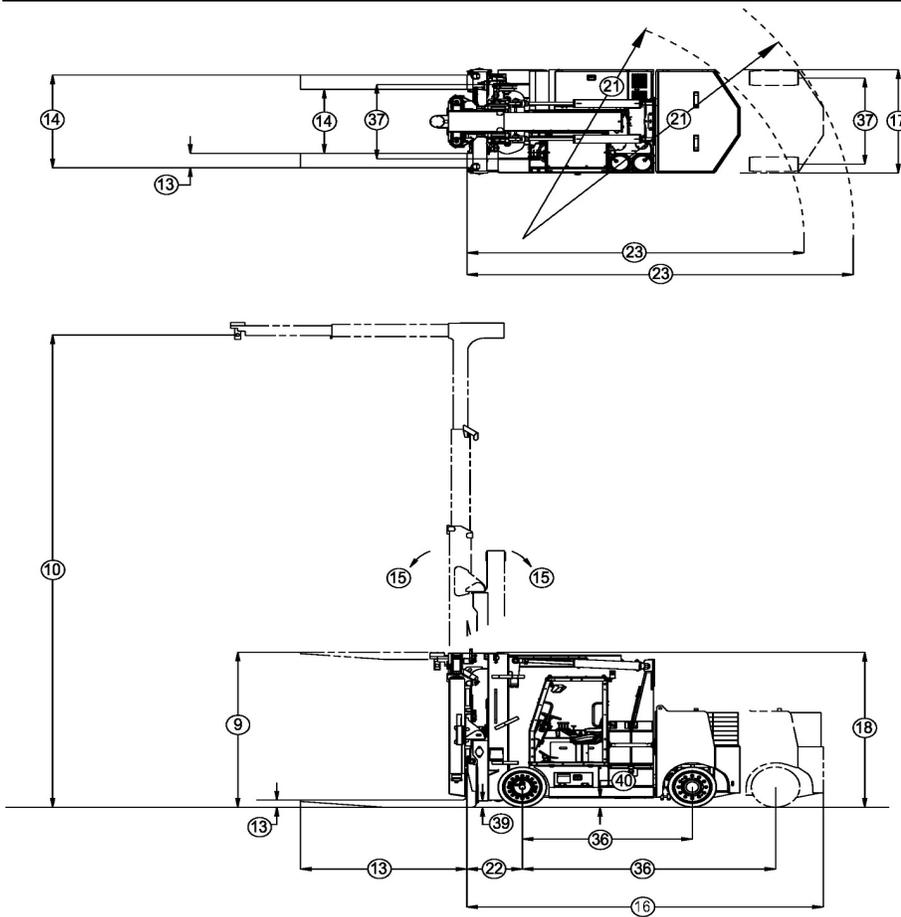
³ Gradability calculations based on tested hydrostatic system pressure and flow rates.

Variations in tire compound and operating surface condition will affect gradeability performance.

FR40/60

DIMENSIONAL DRAWING

RATED CAPACITY



An alternate Load Center may be obtained to accommodate longer forks or an alternate attachment.
If this is required, please contact TM.
(All stated capacities based on standard forks)

DIMENSIONS - for dimensions, please reference the line number listed on the Main Vehicle Specifications page

UNDERCLEARANCE

Mast	Full Load	4.38 (111.3)
Center of Wheelbase	Full Load	6.25 (158.8)
Drive Axle	Full Load	5.25 (133.9)
Steer Axle	No Load	4.70 (119.4)
Counterweight	No Load	9.35 (237.5)

Weights

Removeable Counterweight	16,240 (7366.3)
Boom	5,612(2545.6)
Standard Forks	3,100 (1406.1)
Total	56,310 (25541.8)

TIRES

Model	FR40/60	
Front Tire Size	28 X 10 X 22	
Rear Tire Size	28 X 10 X 22	
Overall Width	in (mm)	72.00 (1828.8)
Track, Front	in (mm)	52.00 (1320.8)
Track, Rear	in (mm)	60.00 (1524.0)

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OPTIONS AVAILABILITY CHART

Option Item	Option Code	Max Fork Height (top of forks)	Overall Height - Lowered	Free Lift	Tilt Range		Forks Only	Boom Only
					FWD	BWD	lb (kg)	lb (kg)
		(in/mm)	(in/mm)	(in/mm)	deg	deg		
MASTS**							See capacities listed on Pages IV-I-8 through IV-I-15	
Full-Free Lift	104FV*	104.50 (2654.3)	107.00 (2717.8)	31.00 (787.4)	12	7		
Two-Stage Mast (FV)	122FV	122.00 (3098.8)	118.00 (2997.2)	32.50 (825.5)	12	7		
	157FV	157.00 (3987.8)	133.00 (3378.2)	32.50 (825.5)	12	7		

*Standard Mast

**Masts come with boom

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OPTIONS AVAILABILITY CHART

○ Option Available

Option Item	Option Code	FR40/60
FORKS		
Less Forks	3 LFRK	See Pricebook
Standard Forks	2 MA**	
Fully Tapered Forks	2 MF**	
CARRIAGE OPTIONS		
Pin Type Mechanical Carriage w/Pushers	1,15 A35S	Standard
Pin Carriage, Mechanical Fork-on-pin	1,16 A35M	○
Integral Side Shifting Fork Positioner (Dependent)	1,17 E711B	○
Integral Fork Positioner (Independent)	1,18 E621A	○
BOOM OPTIONS		
Less Machinery Boom & Stand	4 LMBS	○
Lifting Ring Assembly (2nd Position Lift Point)	5 M08L	○
Boom Shackle	5 M08B	○
Boom Shackle and Hook	5 M08H	○
Longer Horizontal Inner Boom, 6" (manual)	5 IHB16	○
Longer Horizontal Inner Boom, 12" (manual)	5 IHB112	○
Longer Horizontal Inner Boom 18" (manual)	5 IHB118	○
Hydraulically Powered Horizontal Boom	5 IHB2	○
SEATS & SEATBELTS		
Air Ride Seat	Z75B	○
LIGHTING OPTIONS		
Amber Strobe Light	J19G	○
Forward Facing Blue LED Spot Light (Key Switch Activated)	6 J44F	○
Rear Facing Blue LED Spot Light (Key Switch Activated)	7 J44R	○
Safety Spot, Blue (Forward and Reverse, Key Switch Activated)	8 J44B	○
Forward Facing Red LED Spot Light(Key Switch Activated)	9 J45F	○
Rear Facing Red LED Safety Spot Light (Key Switch Activated)	10 J45R	○
Safety Spot, Red (Forward and Reverse, Key Switch Activated)	11 J45B	○
Extra Work Lights- LED Forward Facing (pair)	12 J25Z	○
Forward Facing Programmable Work Lights, Pair	13 J25P	○
INDICATORS & MISC.		
Backup Alarm	K21D	○
Rear Camera System Visibility Aid	K40Y	○
Fire Extinguisher (5 lb)	S10A	○
Pre-Operation Checklist		HSDR
Remote Control	E45R	○
CHASSIS		
Special Paint (One Color)	14 R00A	○
Grooved Poly Drive Tires	F05G	○

1 Only one carriage option can be ordered per truck.

2 Only one fork option can be ordered per truck. Additional forks available through HSDR.

3 Requires Z01A (HSDR)

4 Not available with M08L, M08B, IHB16, IHB112, IHB118, IHB2

5 Not available with LMBS

6 Not available with J44R, J44B, J45R, J45B

7 Not available with J44F, J44B, J45F, J45B

8 Not available with J44F, J44R, J45F, J45R, J45B

9 Not available with J45R, J45B, J44R, J44B

10 Not available with J45F, J45B, J44F, J44B

11 Not available with J45F, J45R, J44F, J44R, J44B

12 Not available with J25P

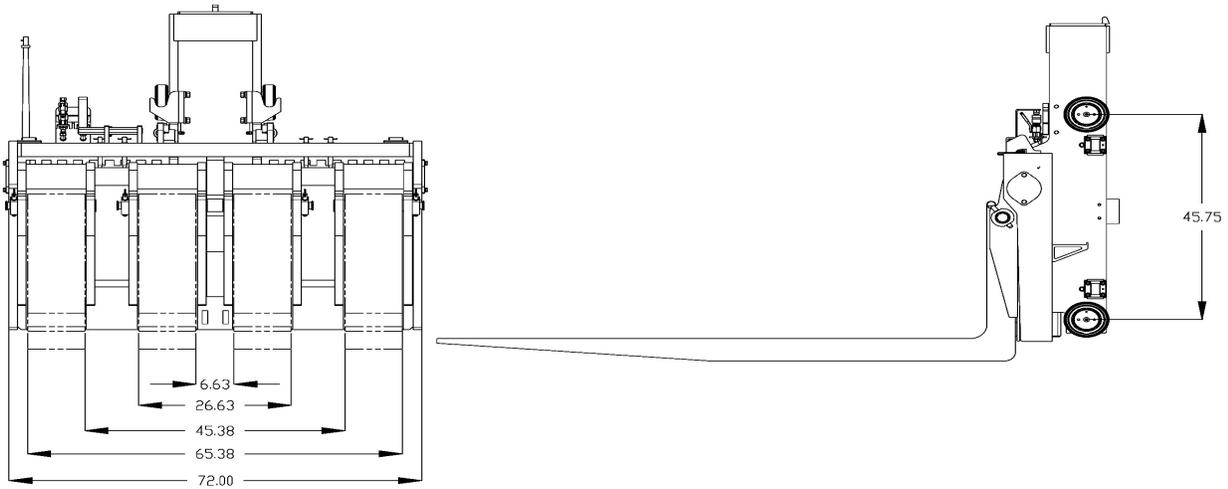
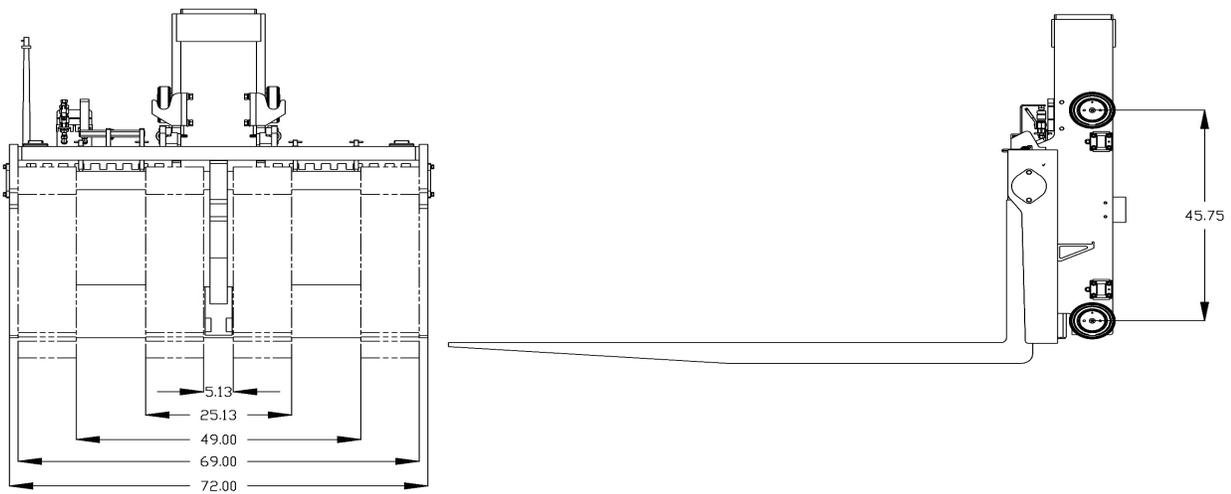
13 Not available with J25Z

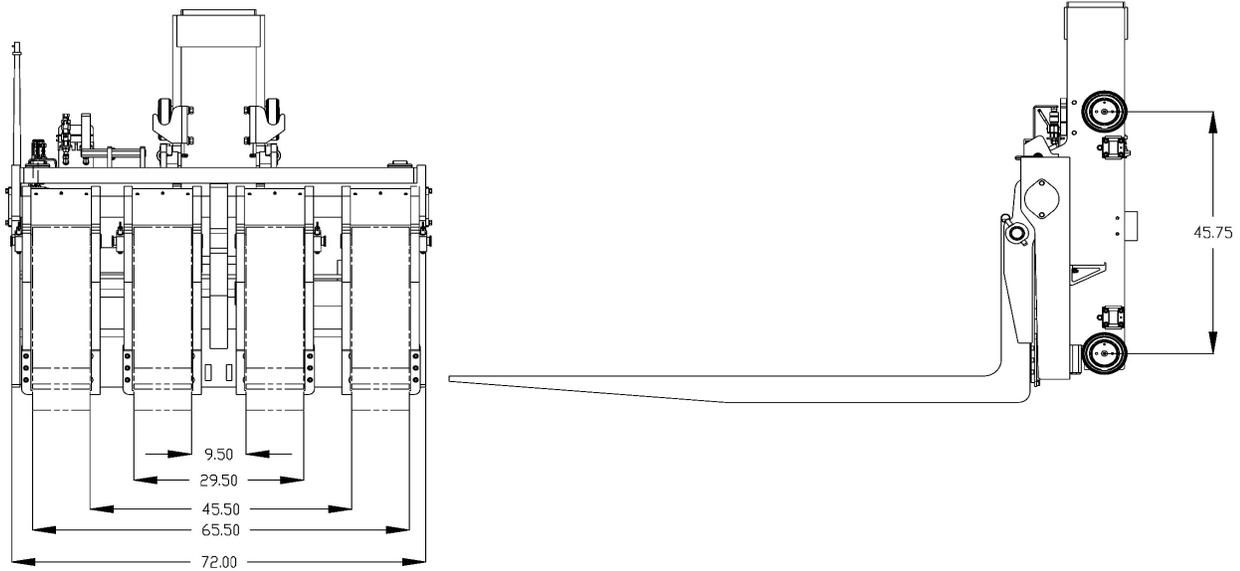
14 HSDR with filled out paint map and RAL code required

15 Requires LMBS. Not available with A35M, E711B, E621A

16 Requires LMBS. Not available with A35S, E711B, E621A

17 Not available with A35S, A35M, E621A.
Can be used with LMBS18 Not available with A35S, A35M, E711B
Can be used with LMBS

FR40/60**Standard Mechanical Carriage w/Pushers - Option A35S****Optional Mechanical Carriage - Fork on Pin - Option A35M**

FR40/60**SS/FP Carriage & Integral Fork Position (Independent) Carriage w/Pushers
Options E711B & E621A**

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DERATE CAPACITIES

Capacity with Q Counterweight Slabs

Forks Only

Load Center	Counterweight Extension										
	in (mm)										
	0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)		
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	36 (914)	22,000	(9970)	24,700	(11200)	27,300	(12380)	30,000	(13600)	32,700	(14800)
	48 (1220)	18,700	(8480)	20,900	(9480)	23,200	(10520)	25,500	(11560)	27,700	(12560)
	60 (1524)	16,200	(7340)	18,200	(8260)	20,100	(9110)	22,100	(10020)	24,100	(10930)
	72 (1830)	14,300	(6480)	16,100	(7300)	17,800	(8070)	19,500	(8840)	21,300	(9660)
	84 (2133)	12,800	(5800)	14,400	(6530)	15,900	(7210)	17,500	(7930)	19,100	(8660)

Boom Only

Load Center	Counterweight Extension										
	in (mm)										
	0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)		
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	24 (610)	21,300	(9660)	23,900	(10840)	26,400	(11970)	29,000	(13150)	31,600	(14300)
	36 (914)	17,900	(8120)	20,000	(9070)	22,200	(10070)	24,400	(11060)	26,600	(12060)
	48 (1220)	15,300	(6940)	17,200	(7800)	19,100	(8660)	21,000	(9520)	22,900	(10380)
	60 (1524)	13,400	(6080)	15,100	(6840)	16,800	(7620)	18,400	(8800)	20,100	(9110)
	72 (1830)	12,000	(5440)	13,500	(6120)	15,000	(6800)	16,500	(7480)	18,000	(8160)
	78 (1981)	11,300	(5130)	12,800	(5800)	14,200	(6440)	15,600	(7070)	17,000	(7710)
	84 (2133)	10,800	(4890)	12,100	(5490)	13,500	(6120)	14,900	(6750)	16,200	(7340)
	90 (2286)	10,300	(4670)	11,600	(5260)	12,900	(5850)	14,200	(6440)	15,500	(7030)
	96 (2440)	9,800	(4450)	11,000	(4990)	12,300	(5580)	13,500	(6120)	14,800	(6710)
	102 (2590)	9,400	(4260)	10,600	(4800)	11,800	(5350)	12,900	(5850)	14,100	(6390)
	108 (2743)	9,000	(4080)	10,100	(4580)	11,300	(5120)	12,400	(5620)	13,600	(6160)
	114 (2895)	8,600	(3900)	9,700	(4400)	10,800	(4890)	11,900	(5390)	13,000	(5890)
	120 (3048)	8,300	(3760)	9,300	(4220)	10,400	(4710)	11,500	(5210)	12,500	(5700)

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DERATE CAPACITIES

Capacity with 1 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	36 (914)	24,800	(11240)	27,800	(12600)	30,800	(13970)	33,800	(15330)	36,800	(16690)
	48 (1220)	21,000	(9520)	23,600	(10700)	26,100	(11830)	28,700	(13010)	31,200	(14150)
	60 (1524)	18,200	(8250)	20,500	(9290)	22,700	(10290)	24,900	(11290)	27,100	(12290)
	72 (1830)	16,100	(7300)	18,100	(8210)	20,000	(9070)	22,000	(9970)	24,000	(10880)
	84 (2133)	14,400	(6530)	16,200	(7340)	18,000	(8160)	19,700	(8930)	21,500	(9750)

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	24 (610)	24,000	(10880)	26,900	(12200)	29,800	(13500)	32,700	(14830)	35,600	(16100)
	36 (914)	20,100	(9110)	22,600	(10200)	25,000	(11330)	27,500	(12470)	30,000	(13600)
	48 (1220)	17,300	(7840)	19,500	(8840)	21,600	(9790)	23,700	(10750)	25,900	(11740)
	60 (1524)	15,200	(6890)	17,000	(7710)	18,900	(8570)	20,800	(9430)	22,700	(10290)
	72 (1830)	13,500	(6120)	15,200	(6890)	16,900	(7660)	18,600	(8430)	20,300	(9200)
	78 (1981)	12,800	(5800)	14,400	(6530)	16,000	(7250)	17,600	(7980)	19,200	(8700)
	84 (2133)	12,200	(5530)	13,700	(6210)	15,300	(6940)	16,800	(7620)	18,300	(8300)
	90 (2286)	11,600	(5260)	13,100	(5940)	14,500	(6570)	16,000	(7250)	17,500	(7930)
	96 (2440)	11,100	(5030)	12,500	(5670)	13,900	(6300)	15,300	(6940)	16,700	(7570)
	102 (2590)	10,600	(4800)	12,000	(5440)	13,300	(6030)	14,600	(6620)	16,000	(7250)
	108 (2743)	10,200	(4620)	11,500	(5210)	12,700	(5760)	14,000	(6350)	15,300	(6940)
	114 (2895)	9,800	(4440)	11,000	(4990)	12,200	(5530)	13,500	(6120)	14,700	(6660)
	120 (3048)	9,400	(4260)	10,600	(4800)	11,800	(5350)	13,000	(5890)	14,100	(6390)

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DERATE CAPACITIES

Capacity with 2 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	36 (914)	27,500	(12470)	30,900	(14010)	34,200	(15510)	37,600	(17050)	40,900	(18550)
	48 (1220)	23,400	(10600)	26,200	(11880)	29,100	(13200)	31,900	(14470)	34,700	(15740)
	60 (1524)	20,300	(9200)	22,800	(10340)	25,200	(11430)	27,700	(12560)	30,200	(13690)
	72 (1830)	17,900	(8110)	20,100	(9110)	22,300	(10110)	24,500	(11110)	26,700	(12110)
	84 (2133)	16,100	(7300)	18,000	(8160)	20,000	(9070)	21,900	(9930)	23,900	(10840)

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	24 (610)	26,600	(12060)	29,900	(13560)	33,100	(15010)	36,300	(16460)	39,500	(17910)
	36 (914)	22,400	(10160)	25,100	(11380)	27,900	(12650)	30,600	(13870)	33,300	(15100)
	48 (1220)	19,300	(8750)	21,700	(9840)	24,000	(10880)	26,400	(11970)	28,800	(13060)
	60 (1524)	16,900	(7660)	19,000	(8610)	21,100	(9520)	23,200	(10520)	25,300	(11470)
	72 (1830)	15,100	(6850)	17,000	(7710)	18,800	(8520)	20,700	(9380)	22,600	(10250)
	78 (1981)	14,300	(6480)	16,100	(7300)	17,900	(8120)	19,700	(8930)	21,400	(9700)
	84 (2133)	13,600	(6160)	15,300	(6940)	17,000	(7710)	18,700	(8480)	20,400	(9250)
	90 (2286)	13,000	(5890)	14,600	(6620)	16,200	(7340)	17,800	(8070)	19,500	(8840)
	96 (2440)	12,400	(5620)	13,900	(6300)	15,500	(7030)	17,000	(7710)	18,600	(8430)
	102 (2590)	18,900	(8570)	13,300	(6030)	14,800	(6710)	16,300	(7390)	17,800	(8070)
	108 (2743)	11,400	(5170)	12,800	(5800)	14,200	(6440)	15,600	(7070)	17,100	(7750)
	114 (2895)	10,900	(4940)	12,300	(5580)	13,700	(6210)	15,000	(6800)	16,400	(7430)
	120 (3048)	10,500	(4760)	11,800	(5350)	13,100	(5940)	14,500	(6570)	15,800	(7160)

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DERATE CAPACITIES

Capacity with 3 Counterweight Slabs

Forks Only

Load Center	Counterweight Extension									
	in (mm)									
	0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
36 (914)	30,300	(13740)	34,000	(15420)	37,700	(17100)	41,400	(18780)	45,100	(20450)
48 (1220)	25,700	(11650)	28,900	(13100)	32,000	(14510)	35,100	(15920)	38,200	(17320)
60 (1524)	22,300	(10110)	25,100	(11380)	27,800	(12600)	30,500	(13830)	33,200	(15060)
72 (1830)	19,700	(8930)	22,100	(10020)	24,500	(11110)	27,000	(12240)	29,400	(13330)
84 (2133)	17,700	(8020)	19,800	(8980)	22,000	(9980)	24,100	(10930)	26,300	(11930)

Boom Only

Load Center	Counterweight Extension									
	in (mm)									
	0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
24 (610)	29,300	(13290)	32,900	(14920)	36,400	(16510)	39,900	(18090)	43,500	(19730)
36 (914)	24,700	(11200)	27,700	(12560)	30,700	(13920)	33,700	(15280)	36,700	(16640)
48 (1220)	21,300	(9660)	23,900	(10840)	26,500	(12020)	29,100	(13200)	31,700	(14370)
60 (1524)	18,600	(8430)	20,900	(9480)	23,300	(10560)	25,600	(11610)	27,900	(12650)
72 (1830)	16,600	(7530)	18,700	(8480)	20,800	(9430)	22,800	(10340)	24,900	(11290)
78 (1981)	15,800	(7160)	17,800	(8070)	19,700	(8930)	21,700	(9840)	23,600	(10700)
84 (2133)	15,000	(6800)	16,900	(7660)	18,800	(8520)	20,600	(9340)	22,500	(10200)
90 (2286)	14,300	(6480)	16,100	(7300)	17,900	(8120)	19,700	(8930)	21,500	(9750)
96 (2440)	13,700	(6210)	15,400	(6980)	17,100	(7750)	18,800	(8520)	20,500	(9290)
102 (2590)	13,100	(5940)	14,700	(6660)	16,400	(7430)	18,000	(8160)	19,600	(8890)
108 (2743)	12,500	(5670)	14,100	(6390)	15,700	(7120)	17,300	(7840)	18,800	(8520)
114 (2895)	12,000	(5440)	13,600	(6160)	15,100	(6850)	16,600	(7530)	18,100	(8210)
120 (3048)	11,600	(5260)	13,000	(5890)	14,500	(6570)	16,000	(7250)	17,400	(7890)

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DERATE CAPACITIES

Capacity with 4 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	36 (914)	33,000	(14960)	37,100	(16820)	41,100	(18640)	45,200	(20500)	49,200	(22310)
	48 (1220)	28,100	(12740)	31,500	(14280)	34,900	(15830)	38,300	(17370)	41,700	(18910)
	60 (1524)	24,400	(11060)	27,400	(12420)	30,300	(13740)	33,300	(15100)	36,300	(16460)
	72 (1830)	21,600	(9790)	24,200	(10970)	26,800	(12150)	29,400	(13330)	32,000	(14510)
	84 (2133)	19,300	(8750)	21,700	(9840)	24,000	(10880)	26,400	(11970)	28,700	(13010)

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	24 (610)	32,000	(14510)	35,900	(16280)	39,700	(18000)	43,600	(19770)	47,500	(21540)
	36 (914)	26,900	(12200)	30,200	(13690)	33,500	(15190)	36,800	(16690)	40,100	(18190)
	48 (1220)	23,200	(10520)	26,100	(11830)	28,900	(13100)	31,800	(14420)	34,600	(15960)
	60 (1524)	20,400	(9250)	22,900	(10380)	25,400	(11520)	27,900	(12650)	30,500	(13830)
	72 (1830)	18,200	(8250)	20,500	(9290)	22,700	(10290)	25,000	(11340)	27,200	(12330)
	78 (1981)	17,300	(7840)	19,400	(8800)	21,600	(9790)	23,700	(10750)	25,800	(11700)
	84 (2133)	16,400	(7430)	18,500	(8390)	20,500	(9290)	22,600	(10250)	24,600	(11150)
	90 (2286)	15,700	(7120)	17,600	(7980)	19,600	(8890)	21,500	(9750)	23,500	(10660)
	96 (2440)	15,000	(6800)	16,800	(7620)	18,700	(8480)	20,600	(9340)	22,400	(10160)
	102 (2590)	14,300	(6480)	16,100	(7300)	17,900	(8120)	19,700	(8930)	21,500	(9750)
	108 (2743)	13,700	(6210)	15,400	(6980)	17,200	(7800)	18,900	(8570)	20,600	(9340)
	114 (2895)	13,200	(5980)	14,800	(6710)	16,500	(7480)	18,100	(8210)	19,800	(8980)
	120 (3048)	12,700	(5760)	14,300	(6480)	15,900	(7210)	17,500	(7930)	19,000	(8620)

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DERATE CAPACITIES

Capacity with 5 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	36 (914)	35,900	(16280)	40,200	(18230)	44,600	(20230)	49,000	(22220)	53,300	(24170)
	48 (1220)	30,400	(13780)	34,100	(15460)	37,800	(17140)	41,500	(18820)	45,300	(20540)
	60 (1524)	26,400	(11970)	29,700	(13470)	32,900	(14920)	36,100	(16370)	39,300	(17820)
	72 (1830)	23,400	(10610)	26,200	(11880)	29,000	(13150)	31,900	(14470)	34,700	(15740)
	84 (2133)	20,900	(9480)	23,500	(10660)	26,000	(11790)	28,600	(12970)	31,100	(14100)

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	
Capacity lb (kg)	24 (610)	34,700	(15730)	38,900	(17640)	43,000	(19500)	47,200	(21400)	51,400	(23310)
	36 (914)	29,200	(13240)	32,800	(14870)	36,300	(16460)	39,900	(18090)	43,400	(19680)
	48 (1220)	25,200	(11430)	28,300	(12830)	31,400	(14240)	34,500	(15640)	37,600	(17050)
	60 (1524)	22,100	(10020)	24,800	(11250)	27,600	(12520)	30,300	(13740)	33,000	(14970)
	72 (1830)	19,800	(8980)	22,200	(10070)	24,600	(11150)	27,100	(12290)	29,500	(13380)
	78 (1981)	18,700	(8480)	21,100	(9570)	23,400	(10610)	25,700	(11650)	28,000	(12700)
	84 (2133)	17,800	(8070)	20,100	(9110)	22,300	(10110)	24,500	(11110)	26,700	(12110)
	90 (2286)	17,000	(7710)	19,100	(8660)	21,200	(9610)	23,400	(10610)	25,500	(11560)
	96 (2440)	16,300	(7390)	18,300	(8300)	20,300	(9200)	22,300	(10110)	24,300	(11150)
	102 (2590)	15,600	(7070)	17,500	(7930)	19,400	(8800)	21,400	(9700)	23,300	(10560)
	108 (2743)	14,900	(6750)	16,800	(7620)	18,600	(8430)	20,500	(9290)	22,400	(10160)
	114 (2895)	14,300	(6480)	16,100	(7300)	17,900	(8120)	19,700	(8930)	21,500	(9750)
	120 (3048)	13,800	(6260)	15,500	(7030)	17,200	(7800)	19,000	(8610)	20,700	(9390)

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DERATE CAPACITIES

Capacity with 6 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	36 (914)	38,700	(17550)	43,400	(19680)	48,000	(21770)	52,700	(23900)	57,400	(26030)
	48 (1220)	32,800	(14870)	36,800	(16690)	40,800	(18500)	44,800	(20320)	48,800	(22130)
	60 (1524)	28,500	(12920)	32,000	(14510)	35,400	(16050)	38,900	(17640)	42,300	(19180)
	72 (1830)	25,200	(11430)	28,200	(12790)	31,300	(14190)	34,400	(15600)	37,400	(16960)
	84 (2133)	22,600	(10250)	25,300	(11470)	28,000	(12700)	30,800	(13970)	33,500	(15190)

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	24 (610)	37,300	(16910)	41,900	(19000)	46,400	(21040)	50,900	(23080)	55,400	(25130)
	36 (914)	31,500	(14280)	35,300	(16010)	39,100	(17730)	43,000	(19500)	46,800	(21220)
	48 (1220)	27,200	(12330)	30,500	(13830)	33,800	(15330)	37,200	(16870)	40,500	(18370)
	60 (1524)	23,900	(10840)	26,800	(12150)	29,700	(13470)	32,700	(14830)	35,600	(1640)
	72 (1830)	21,300	(9660)	23,900	(10840)	26,600	(12060)	29,200	(13240)	31,800	(14420)
	78 (1981)	20,200	(9160)	22,700	(10290)	25,200	(11430)	27,700	(12560)	30,200	(13690)
	84 (2133)	19,200	(8700)	21,600	(9790)	24,000	(10880)	26,400	(11970)	28,800	(13060)
	90 (2286)	18,400	(8340)	20,600	(9340)	22,900	(10380)	25,200	(11430)	27,500	(12470)
	96 (2440)	17,500	(7930)	19,700	(8930)	21,900	(9930)	24,100	(10930)	26,300	(11930)
	102 (2590)	16,800	(7620)	18,900	(8570)	21,000	(9520)	23,100	(10470)	25,100	(11380)
	108 (2743)	16,100	(7300)	18,100	(8210)	20,100	(9110)	22,100	(10020)	24,100	(10930)
	114 (2895)	15,500	(7030)	17,400	(7890)	19,300	(8750)	21,300	(9660)	23,200	(10520)
	120 (3048)	14,900	(6750)	16,700	(7570)	18,600	(8430)	20,500	(9290)	22,300	(10110)

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DERATE CAPACITIES

Capacity with 7 Counterweight Slabs

Forks Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	36* (914)	41,400	(18770)	46,500	(21090)	51,500	(23360)	56,500	(25620)	61,600	(27940)
	48 (1220)	35,200	(15960)	39,400	(17870)	43,700	(19820)	48,000	(21770)	52,300	(23720)
	60 (1524)	30,500	(13830)	34,300	(15550)	38,000	(17230)	41,700	(18910)	45,400	(20590)
	72 (1830)	27,000	(12240)	30,300	(13740)	33,600	(15240)	36,800	(16690)	40,100	(18190)
	84 (2133)	24,000	(10880)	27,100	(12290)	30,100	(13650)	33,000	(14960)	35,900	(16280)

*Shaded box notes base capacity

Boom Only

	Load Center	Counterweight Extension									
		in (mm)									
		0 (0)		12 (305)		24 (610)		36 (914)		48 (1220)	
	in (mm)	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Capacity lb (kg)	24 (610)	40,000	(18140)	44,800	(20320)	49,700	(22540)	54,500	(24720)	59,400	(26940)
	36 (914)	33,700	(15280)	37,900	(17190)	42,000	(19050)	46,100	(20910)	50,200	(22770)
	48 (1220)	29,100	(13200)	32,700	(14830)	36,300	(16460)	39,800	(18050)	43,400	(19680)
	60 (1524)	25,600	(11610)	28,800	(13060)	31,900	(14470)	35,100	(15920)	38,200	(17320)
	72 (1830)	22,900	(10380)	25,700	(11650)	28,500	(12920)	31,300	(14190)	34,200	(15510)
	78 (1981)	21,700	(9840)	24,400	(11060)	27,100	(12290)	29,800	(13510)	32,400	(14690)
	84 (2133)	20,700	(9390)	23,200	(10520)	25,800	(11700)	28,300	(12830)	30,900	(14010)
	90 (2286)	19,700	(8930)	22,100	(10020)	24,600	(11150)	27,000	(12240)	29,500	(13380)
	96 (2440)	18,800	(8520)	21,200	(9610)	23,500	(10660)	25,800	(11700)	28,200	(12790)
	102 (2590)	18,000	(8160)	20,300	(9200)	22,500	(10200)	24,700	(11200)	27,000	(12240)
	108 (2743)	17,300	(7840)	19,400	(8800)	21,600	(9790)	23,700	(10750)	25,900	(11740)
	114 (2895)	16,600	(7520)	18,700	(8480)	20,700	(9390)	22,800	(10340)	24,900	(11290)
	120 (3048)	16,000	(7250)	18,000	(8160)	20,000	(9070)	22,000	(9980)	23,900	(10840)