

GROVE®

TMS900E



product guide

features

- 90 ton (80 mton) capacity
- 37-142 ft (11.2 - 43.2 m) 5 section full power boom
- Patented TWIN-LOCK boom pinning system
- 33 - 56 ft (10 - 17m) bifold lattice swingaway extension
- Optional 33 - 56 ft (10 - 17 m) hydraulically offsettable bifold swingaway
- Optional lattice insert extensions for a 237 ft (72.2 m) maximum tip height
- Grove MEGAFORM boom
- Hydraulically tiltable cab up to 15°
- Up to 31,500 lbs hydraulically installed/removed counterweight
- Cummins 6 cylinder, turbo-charged after cooled diesel engine
- 65 mph (104 kph) travel speed



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Manitowoc
Crane Group

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Truck Mounted Crane

*Product may be shown with optional equipment.

features

2



A powerful superstructure on a powerful chassis makes this 90 US ton truck crane unbeatable on the road and on the jobsite.



The superstructure features a full power five section MEGAFORM boom that can reach to a maximum tip height of 150 ft. The TWIN-LOCK boom pinning system provides pre-selection of boom extension modes to efficiently pin boom sections automatically.



A bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport. The choice of a manual or optional hydraulically offsettable extension is available. To take

it even further, up to two additional extension inserts can be added to provide up to 237 ft. of tip height.



Two-stage inverted jack outriggers provide 3 position settings – 0%, 50% and 100%.



Front and rear air over walking beam suspension provides a smooth ride at 65 mph. Aluminum wheels, fenders and decking are also standard features.



Up to 31,500 lbs of counterweight can be power installed and removed from the superstructure cab, making transporting a breeze.



Crane functions are controlled by ECOS (Electronic Crane Operating System) with CAN-BUS. The EKS4 load moment indicator provides detailed feedback and control of the cranes operating functions. Electronically controlled ISM 450 diesel engine delivers plenty of power on and off the jobsite.



specifications

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Superstructure

Boom

37 ft. - 142 ft. (11.2 m - 43.2 m) five section, full power boom with patented TWIN-LOCK™ boom pinning system. Maximum tip height: 150 ft. (45.8 m). Trailing Boom float kit

Boom Nose

Six nylatron sheaves, mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve boom nose. Removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation

Single lift cylinder with safety valve provides boom angle from -3° to +82°.

Offsettable Lattice Extension

33 ft. - 56 ft. (10 m - 17 m) bifold lattice swingaway extension manual offsettable from 0°, 20°, 40°. Maximum tip height: 204 ft (62.3 m)

* Hydraulically Offsettable Lattice Extension

33 ft. - 56 ft. (10 m - 17 m) bifold lattice swingaway extension hydraulically offsettable and luffing under load from 5° - 40°. Controlled from the crane cab. Maximum tip height: 204 ft (62.3 m)

* Lattice Jib Extensions

Two 16 ft. (5 m) inserts for use with lattice swingaway extension to increase length up to 72 ft. (22 m) or 88 ft. (27 m). Maximum tip height: 237 ft (72.2 m)

Load Moment & Anti-Two Block System

Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

Cab

All aluminum construction cab with acoustical lining is hydraulically tilttable (- 5° to +15°) and includes tinted safety glass, adjustable operator's seat with hydraulic suspension, sliding windows in side and cab rear, hinged front window with wiper, sunvisor and window shade. Other features include diesel heater/defroster, armrest integrated crane controls, and ergonomically arranged instrumentation.

Crane Control System

Full electronic control of all crane movements using electrical control levers with automatic reset to zero. Controls are integrated with the LMI and engine management system by CAN-BUS. ECOS system with graphic display.

Swing

Axial piston fixed displacement motor and planetary gear box. Infinitely variable to 1.7 rpm. Holding brake and service brake.

Counterweight

12,900 lbs. (5 851 kg) consisting of various sections with hydraulic installation/removal system controlled from the superstructure cab. An optional heavy counterweight package is available consisting of an additional 7,600 lbs and 11,000 lbs for a total of 31,500 lbs of counterweight.

Hydraulic System

2 separate circuits, 1 axial piston variable displacement pump (load sensing) with electronic power limiting control and 1 gear pump for swing. Combined capacity is 122.2 gpm (462 l/min) Dual thermostatically controlled oil coolers keep oil at optimum operating temperature. Tank capacity: 134 gal. (508 l)

Hoist

Main and auxiliary hoist are powered by axial piston motor with planetary gear and brake. "Thumblumper" hoist drum rotation indicator alerts operator of hoist movement.

	Main	Auxiliary
Line length:	720 ft. (220 m)	720 ft. (220 m)
Rope diameter:	16 mm	16 mm
Line speed:	410 ft./min. (125 m/min)	410 ft./min. (125 m/min)
Line pull:	11,240 lbs. (50 kN)	11,240 lbs. (50 kN)

*Denotes optional equipment

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specifications

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Carrier

Chassis

Triple box section, four-axle carrier, fabricated from highstrength, low alloy steel with towing and tie-down lugs.

Outrigger System

Four hydraulic telescoping, two-stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type outrigger floats 24 in. (610 mm) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities. Maximum outrigger pad load: 100,000 lbs. (45 360 kg).

Outrigger Controls

Located in the superstructure cab and on either side of carrier. Requires two hand operation. Crane level indicator (sight bubble) on right side console.

Engine

Cummins ISM450 six cylinder, turbocharged and after cooled diesel engine, 661 cu. in. (10.8 L), 450 bhp (336 kW) (gross) @ 1800 RPM. Maximum torque 1,450 ft. lbs. (1966 Nm) @ 1200 RPM. Equipped with engine brake and audio-visual engine distress system, and ether cold start aid.

Fuel Tank Capacity

100 gallons (376 L).

Transmission

Roadranger 11 speeds forward, 3 reverse. Drive 8 x 4 x 4.

Steering

Front axle, single circuit, mechanical steering with hydraulic power assist. Turning radius: 45' 3".

Axles

Front: (2) beam-type steering axles, 84 in. (2.13 m) track. Rear: (2) single reduction drive axles, 75.06 in. (1.89 m) track. Inter-axle differential locks.

Brakes

S-cam, dual air split system operating on all wheels. Spring-applied, air released parking brake acting on rear axles. Air dryer.

Suspension

Front: Walking beam with air bags and shock absorbers. Rear: Walking beam with air bags and shock absorbers.

Tires

Front: 445/65R 22.5 Goodyear G286, tubeless, mounted on aluminum disc wheels.
Rear: 315/80R 22.5 Goodyear G286, tubeless, mounted on aluminum disc wheels.

*Optional Tires

Front: 445/65R 22.5 Bridgestone M844F, tubeless.
445/65R 22.5 Michelin XZY (WB), tubeless.
Rear: 315/80R 22.5 Bridgestone M843, tubeless.
315/80R 22.5 Michelin XZY-1 tubeless.

Lights

Full lighting package including turn indicators, head, tail, brake, and hazard warning lights.

Cab

One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered seat with air height adjustment. Complete driving controls and engine instrumentation including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, air pressure gauge with A/V warning and engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt, door lock.

Electrical System

Two 12 V - maintenance free batteries provides 24 V electrical system. Standard battery disconnect.

Maximum Speed

65 MPH (104 kph).

Gradeability (Theoretical)

70%.

Miscellaneous Standard Equipment

Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; sling/tool box; tire inflation kit; air cleaner restriction indicator; block and ball stowage; aluminum wheels.

* Optional Equipment

*Flashing Light Package (Includes amber strobe for superstructure and carrier cabs).
*Air conditioning.
*Hookblocks
*Rear headache ball stowage
*Pintle hook (rear).
*Cross axle differential locks.
*Trailing Boom Package
*Aluminum outrigger pads.
*Air horn
*Heavy Counterweight package
*Rear Chassis counterweight stowage bracket

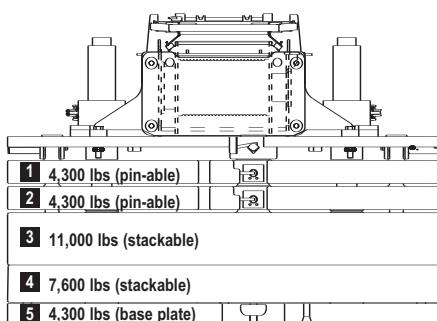
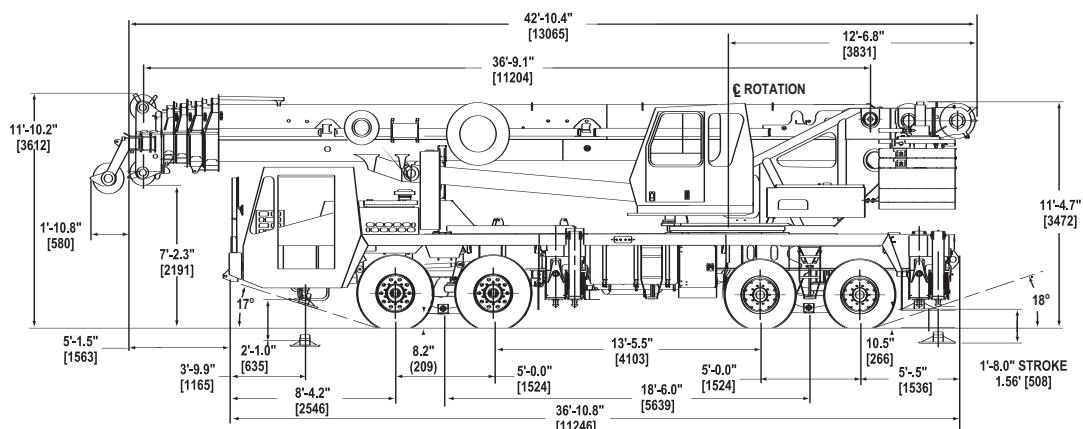
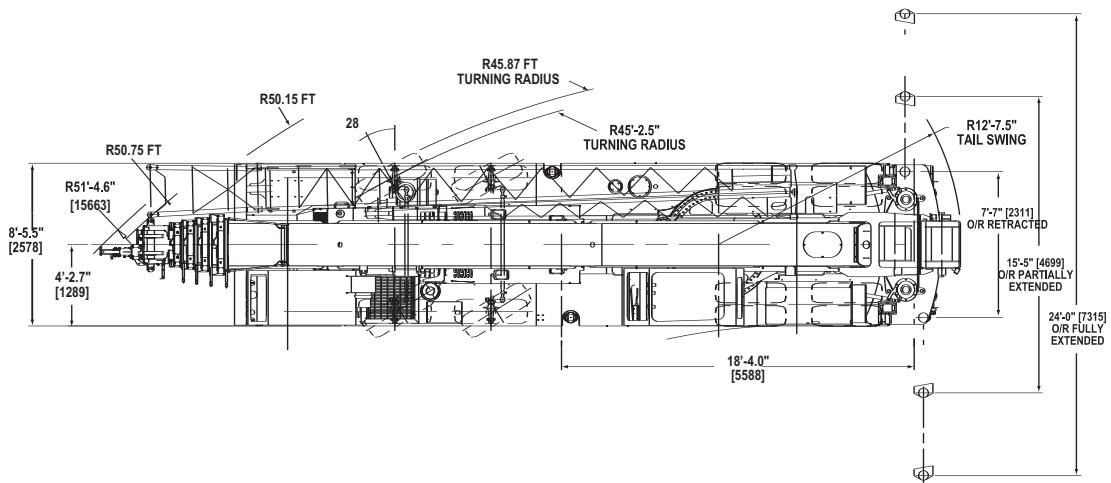
*Denotes optional equipment

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dimensions

5



	1	2	3	4	5
Zero					
4,300 lbs	●				
8,600 lbs	●				●
12,900 lbs	●	●			●
20,500 lbs	●	●		●	●
27,200 lbs	●	●	●	●	●
31,500 lbs	●	●	●	●	●

	Counterweight Configuration						
	31,500	27,200	20,500	12,900	8,600	4,300	0
Main Boom	×	■	×	■	×	■	●
33 ft. Swingaway	×	■	×	■	×	■	■
56 ft. Swingaway	×	■	×	■	×	■	■
72 ft. Swingaway	×	×	×	×			
88 ft. Swingaway	×	×	×	×			

Outrigger span- 100%: 50%: 0%:

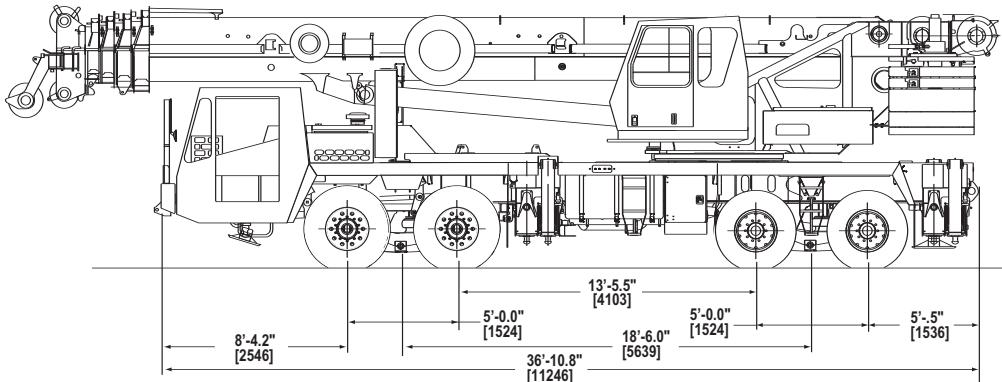
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travel proposals

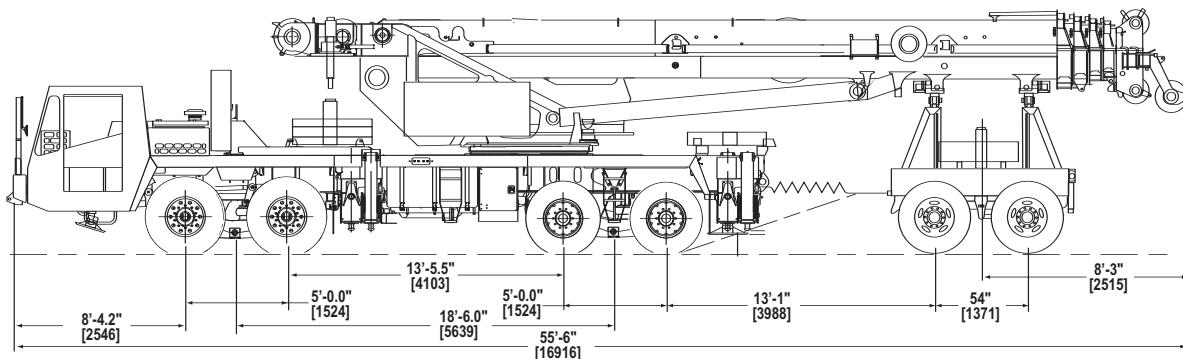
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Boom over front



Unit equipped with:	Gross (lb.)	Front (lb.)	Rear (lb.)
Basic machine including 142 ft. main boom, main and auxiliary hoists with rope, no removable counterweight and driver.	79,943	39,461	40,482
Add 4,300 lb. slab on superstructure.	4,300	-1,295	5,595
Add 4,300 lb. (baseplate) on carrier front deck.	4,300	3,232	1,068
Add 7,600 lb. slab on carrier front deck.	7,600	5,712	1,888
Add manual offset swingaway.	2,890	2,920	-30
Add hydraulic luffing swingaway.	3,070	3,077	-7
Add 6 ton headache ball (stowed in front trough).	315	464	-149
Add 6 ton headache ball (stowed on rear chassis mount), includes mount weight.	375	-166	541
Add 55 ton hookblock (stowed in front trough).	1,500	2,127	-627

Trailing boom dolly



Unit equipped with:	Gross (lb.)	Front (lb.)	Rear (lb.)	Dolly (lb.)
Basic machine including 142 ft. main boom, main and auxiliary hoists with rope, hydraulic luffing bifold swingaway, no removable cwt, 6 ton headache ball (front chassis stowage), 55 ton hookblock (front chassis stowage), driver and 6,000 lb. split tower boom dolly.	90,858	37,321	31,232	22,306
Add (2) 4,300 lb. slabs to superstructure or front chassis storage, (1) 4,300 lb. slab on rear chassis storage, 7,600 lb. slab, 6 ton headache ball and 55 ton hookblock on dolly (20,500 lb. cwt).	111,358	39,899	39,738	31,721
Add (2) 4,300 lb. slabs to superstructure or front chassis storage, 7,600 lb. slab on rear chassis storage, (1) 4,300 lb. slab and 11,000 lb. slab on dolly. 6 ton headache ball and 55 ton hookblock on dolly (31,500 lb. cwt).	122,358	42,906	40,032	39,421

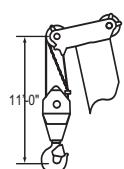
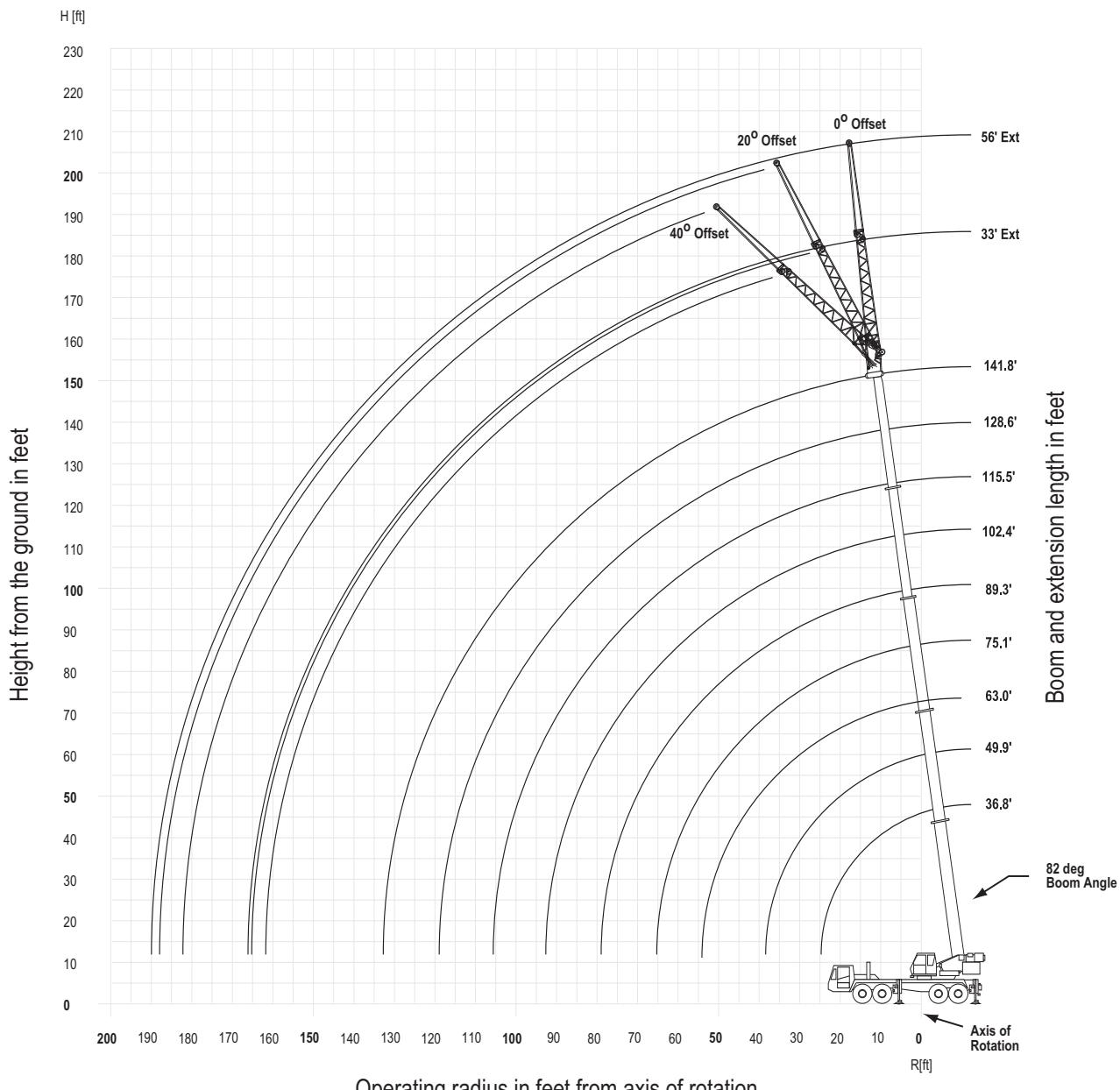
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working range

37-142' main boom + 33-56' lattice extension

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Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

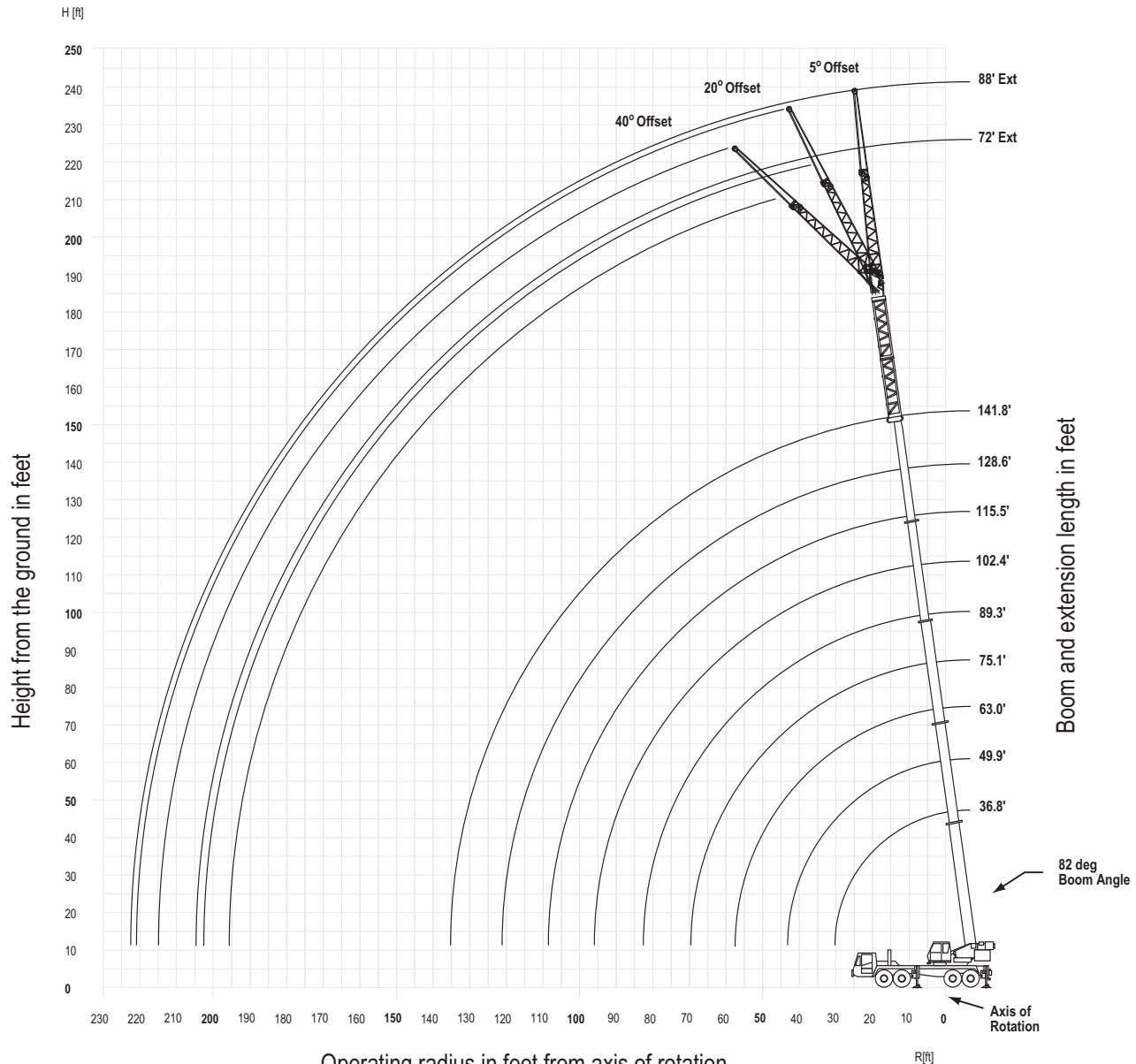
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working range

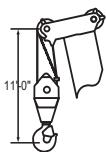
33-56' lattice extension with 16' inserts

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Operating radius in feet from axis of rotation

Dimensions are for largest Grove furnished hookblock
and headache ball, with anti-two block activated



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load charts

9

	37 - 142 ft Fixed lengths		31,500 lbs		100% 24'-0"		360		Pounds
Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
8	*180,000								
10	155,000	136,000	129,000	123,000	81,000				
15	116,000	112,000	105,000	99,000	81,000	59,000			
20	88,700	90,350	89,000	84,000	81,000	57,000	42,400	34,000	
25	69,950	72,200	72,400	71,150	71,000	51,000	42,400	34,000	26,600
30		56,350	57,000	58,150	56,950	46,000	39,600	33,800	26,600
35		46,600	47,550	47,400	46,200	41,600	35,800	32,000	26,600
40		39,750	39,600	38,450	38,200	32,200	29,400	26,600	
45		33,550	33,500	32,600	33,600	29,400	27,000	24,800	
50		28,300	28,300	29,400	28,600	26,600	24,800	22,800	
55			24,250	25,350	24,600	24,800	22,800	21,200	
60			22,000	22,150	21,450	21,750	20,300	19,800	
65			19,550	19,550	19,400	19,100	18,800	18,200	
70			17,300	17,600	16,900	16,750	16,200		
75			15,400	15,750	15,200	14,900	14,350		
80				14,100	13,750	13,350	12,750		
85				12,700	12,350	11,950	11,400		
90					11,500	11,150	10,850	10,300	
95						10,100	9,770	9,250	
100						9,140	8,810	8,290	
105							7,950	7,430	
110							7,180	6,670	
115							6,480	5,980	
120								5,340	
125								4,760	
130									4,230

* Requires special equipment

	37 - 142 ft Telescoping		31,500 lbs		100% 24'-0"		360		Pounds
Feet	36.8 - 49.9	49.9 - 63.0	63.0 - 76.1	76.1 - 89.3	89.3 - 102.4	102.4 - 115.5	115.5 - 128.6	128.6 - 141.8	
10	74,000	68,000	63,000	62,000					
15	72,000	65,000	60,000	57,000	54,000				
20	70,000	63,000	57,000	52,000	50,000	37,400	28,600		
25	67,000	59,000	55,000	50,000	46,000	37,400	28,600	22,400	
30	55,000	55,000	53,000	48,000	41,600	34,000	28,600	20,800	
35	45,000	46,000	47,400	46,000	37,800	31,000	27,400	18,800	
40	38,850	39,600	38,450	34,600	34,600	28,200	25,400	16,800	
45	33,200	33,500	32,600	31,800	26,000	23,200	15,200		
50		28,300	28,300	27,750	28,600	24,000	21,200	14,000	
55			24,250	23,750	24,600	22,600	19,800	12,800	
60			21,050	22,150	21,450	20,800	18,400	11,800	
65			18,600	19,550	18,800	19,100	17,000	10,800	
70			17,300	16,650	16,900	16,000	16,000	10,200	
75			15,400	15,550	15,050	14,900	9,600		
80				13,950	13,450	13,350	9,000		
85					12,700	12,100	11,950	8,400	
90					11,500	10,900	10,850	8,000	
95						9,850	9,770	7,600	
100						8,890	8,810	7,200	
105							7,950	6,800	
110							7,180	6,400	
115							6,480	5,980	
120								5,340	
125								4,760	
130									4,230

load charts

10



89-142 ft



33 ft



31,500 lbs



100%
24'-0"



360



Pounds

Feet	33' Hydraulic Bifold Swingaway 5 Deg Fixed Offset Angle					33' Hydraulic Bifold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
20	22,000									
25	22,000	22,000								
30	22,000	22,000	22,000	17,800						
35	22,000	22,000	21,800	17,800	13,800					
40	22,000	22,000	21,400	17,800	13,800	14,000	14,200			
45	21,600	22,000	21,000	17,800	13,800	13,600	13,800	13,800		
50	19,800	21,000	20,400	17,800	13,800	13,200	13,400	13,600	13,600	11,400
55	18,400	19,400	19,800	17,200	13,800	12,800	13,000	13,200	13,200	11,400
60	17,400	18,200	18,600	16,600	13,800	12,400	12,600	12,800	13,000	11,400
65	16,400	17,200	17,200	15,800	13,800	12,000	12,200	12,400	12,800	11,400
70	15,600	16,150	15,900	15,000	13,800	11,600	11,800	12,000	12,600	11,400
75	14,600	14,300	14,050	14,000	13,000	11,400	11,600	11,600	12,200	11,400
80	13,550	12,650	12,400	12,600	12,000	11,200	11,400	11,600	11,800	11,400
85	12,100	11,250	11,100	11,250	11,200	11,200	11,200	11,400	11,400	11,200
90	10,950	10,100	9,890	10,400	10,400	11,000	10,750	10,650	10,900	10,800
95	9,880	9,200	9,000	9,600	9,340		9,550	9,460	9,800	10,100
100	9,000	8,600	8,200	8,950	8,380		8,800	8,600	9,400	9,060
105	8,600	8,200	7,800	8,090	7,510			8,200	8,580	8,120
110	8,310	7,800	7,400	7,310	6,730			7,600	7,730	7,270
115		7,560	7,000	6,600	6,020				6,950	6,490
120		6,920	6,410	5,950	5,370				6,240	5,780
125			5,820	5,360	4,780					5,130
130			5,280	4,820	4,250					4,530
135			4,790	4,320	3,750					
140				3,870	3,300					
145				3,450	2,880					
150				3,070	2,490					
155					2,130					
160					1,800					



89-142 ft



56 ft



31,500 lbs



100%
24'-0"



360



Pounds

Feet	56' Hydraulic Bifold Swingaway 5 Deg Fixed Offset Angle					56' Hydraulic Bifold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000							
35	11,000	11,000	11,000	9,800						
40	11,000	11,000	11,000	9,800	8,200					
45	11,000	11,000	11,000	9,800	8,200					
50	11,000	11,000	11,000	9,800	8,200		7,000	7,000		
55	10,600	11,000	11,000	9,800	8,200		6,800	6,800	7,000	
60	10,200	10,600	10,800	9,800	8,200		6,800	6,800	6,800	
65	9,600	10,000	10,200	9,800	8,200		6,600	6,800	6,800	
70	9,200	9,600	9,800	9,600	8,200		6,400	6,600	6,600	6,600
75	8,800	9,200	9,400	9,600	8,200		6,400	6,400	6,400	6,400
80	8,400	8,800	9,000	9,200	8,200		6,200	6,200	6,400	6,400
85	8,000	8,400	8,800	8,800	8,200		6,000	6,200	6,200	6,200
90	7,600	8,200	8,400	8,600	8,200		6,000	6,200	6,200	6,200
95	7,400	7,800	8,200	8,200	8,200		6,000	6,000	6,000	6,000
100	7,200	7,400	7,800	8,000	8,000		5,800	6,000	6,000	6,000
105	6,800	7,200	7,600	7,800	7,800		5,800	6,000	6,000	6,000
110	6,600	7,000	7,120	7,200	7,400		5,800	5,800	5,800	5,800
115	6,400	6,700	6,410	7,000	6,680		5,800	5,800	5,800	5,800
120	6,200	6,200	6,200	6,590	6,030		5,800	5,800	5,800	5,800
125	6,000	6,000	5,800	5,990	5,420			5,800	5,800	5,800
130	5,690	5,600	5,400	5,440	4,870			5,800	5,800	5,720
135		5,400	5,200	4,930	4,370				5,520	5,120
140		5,200	4,800	4,460	3,900				4,960	4,560
145			4,500	4,030	3,470					4,040
150			4,090	3,630	3,070					3,560
155			3,720	3,250	2,690					
160				2,910	2,350					
165				2,590	2,030					
170				2,290	1,720					
175					1,440					
180					1,180					

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load charts

89'-142' ft
 72 ft (16'+56 ft)
 31,500 lbs
 100% 24'-0"
 360

Pounds

11

Feet	16' Insert + 56' Hydraulic Bi-Fold Swingaway Extension 5 Deg Fixed Offset Angle					16' Insert + 55.8' Hydraulic Bi-Fold Swingaway Extension 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
35	11,000									
40	11,000	10,800	9,800							
45	11,000	10,800	9,800	8,000						
50	11,000	10,600	9,800	8,000	6,600					
55	10,600	10,400	9,600	8,000	6,600					
60	10,200	10,200	9,600	8,000	6,600	6,800				
65	9,600	9,800	9,400	8,000	6,600	6,600				
70	9,200	9,400	9,200	8,000	6,600	6,600	6,600	6,600		
75	8,800	9,000	9,000	8,000	6,600	6,400	6,400	6,400	6,400	6,200
80	8,400	8,600	8,600	8,000	6,600	6,200	6,400	6,400	6,400	6,200
85	8,000	8,400	8,400	8,000	6,600	6,200	6,200	6,200	6,200	6,200
90	7,800	8,000	8,000	7,800	6,600	6,000	6,200	6,200	6,200	6,200
95	7,400	7,600	7,800	7,600	6,600	6,000	6,000	6,000	6,200	6,000
100	7,200	7,400	7,600	7,400	6,600	5,800	6,000	6,000	6,000	6,000
105	6,800	7,200	7,400	7,200	6,600	5,800	5,800	6,000	6,000	6,000
110	6,600	7,000	7,000	7,000	6,400	5,800	5,800	5,800	5,800	5,800
115	6,400	6,600	6,440	6,440	6,200	5,800	5,800	5,800	5,800	5,800
120	6,200	6,120	5,790	5,800	5,940	5,800	5,800	5,800	5,800	5,800
125	6,000	5,520	5,200	5,400	5,340	5,800	5,800	5,800	5,800	5,600
130	5,760	4,970	4,800	5,200	4,780	5,600	5,430	5,530	5,400	
135	5,240	4,600	4,600	4,830	4,270	4,970	5,000	5,200	5,150	
140	4,770	4,400	4,200	4,360	3,800	4,800	5,000	4,600		
145	4,340	4,200	4,000	3,920	3,360	4,400	4,500	4,080		
150	3,930	4,000	3,800	3,520	2,960		4,020	3,600		
155	3,800	3,600	3,140	2,580			3,560	3,150		
160	3,600	3,200	2,790	2,230				2,730		
165		2,940	2,470	1,910				2,330		
170		2,640	2,160	1,600						
175		2,350	1,880	1,320						
180				1,610	1,050					

Feet	32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension 5 Deg Fixed Offset Angle					32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
40	9,600	9,200								
45	9,200	9,000	7,800							
50	9,000	8,600	7,800	6,400	5,000					
55	8,600	8,400	7,800	6,400	5,000					
60	8,200	8,200	7,600	6,400	5,000					
65	7,800	7,800	7,400	6,400	5,000					
70	7,400	7,600	7,200	6,400	5,000	6,200	6,200			
75	7,200	7,200	7,000	6,400	5,000	6,000	6,000	6,000		
80	6,800	7,000	6,800	6,400	5,000	5,800	5,800	5,600	5,000	
85	6,600	6,600	6,600	6,200	5,000	5,600	5,600	5,600	5,000	
90	6,200	6,400	6,400	6,200	5,000	5,400	5,400	5,400	5,000	
95	6,000	6,200	6,200	6,000	5,000	5,200	5,400	5,400	5,200	5,000
100	5,800	6,000	6,000	5,800	5,000	5,200	5,200	5,200	5,200	5,000
105	5,600	5,800	5,800	5,800	5,000	5,000	5,200	5,200	5,000	5,000
110	5,200	5,400	5,600	5,600	5,000	4,800	5,000	5,000	4,800	
115	5,000	5,200	5,400	5,400	5,000	4,800	4,800	4,800	4,800	
120	4,800	5,000	5,200	5,200	4,800	4,600	4,800	4,800	4,600	
125	4,600	4,800	5,000	5,000	4,600	4,600	4,600	4,600	4,600	
130	4,400	4,800	4,720	4,670	4,400	4,400	4,600	4,600	4,400	
135	4,400	4,560	4,200	4,200	4,200	4,400	4,400	4,600	4,600	
140	4,200	4,080	3,800	4,000	3,780	4,200	4,400	4,400	4,400	4,200
145	4,000	3,640	3,600	3,800	3,340	4,160	3,950	4,000	4,000	
150	3,800	3,240	3,400	3,490	2,940	3,660	3,600	3,800	3,690	
155	3,620	3,000	3,200	3,110	2,560		3,400	3,600	3,240	
160	3,270	3,000	3,000	2,760	2,210		3,200	3,250	2,820	
165		2,800	2,600	2,430	1,880			2,850	2,430	
170		2,600	2,400	2,120	1,570			2,450	2,060	
175		2,400	2,310	1,830	1,280				1,710	
180		2,040	1,560	1,010					1,370	
185		1,780	1,310							
190		1,550	1,070							

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GROVE®

TMS900E

load charts

12



89-142 ft



33 ft



31,500 lbs



100%
24'-0"



360



Pounds

Feet	33' Manual Offset Bi-Fold Swingaway					33' Manual Offset Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
20	22,000										
25	22,000	22,000									
30	22,000	22,000	22,000	17,800							
35	22,000	22,000	21,800	17,800	13,600						
40	22,000	22,000	21,400	17,800	13,600	14,000	14,200				
45	21,600	22,000	21,000	17,800	13,600	13,600	13,800	13,800			
50	19,800	21,000	20,400	17,800	13,600	13,200	13,400	13,600	13,600		
55	18,400	19,400	19,800	17,200	13,600	12,800	13,000	13,200	13,200	11,400	
60	17,400	18,200	18,600	16,600	13,600	12,400	12,600	12,800	13,000	11,400	
65	16,400	17,200	17,200	15,800	13,600	12,000	12,200	12,400	12,800	11,400	
70	15,600	15,950	15,650	15,000	13,600	11,600	11,800	12,000	12,600	11,400	
75	14,600	14,100	13,800	14,000	13,000	11,400	11,600	11,600	12,200	11,400	
80	13,400	12,500	12,200	12,400	12,000	11,200	11,400	11,600	11,800	11,400	
85	12,000	11,200	10,900	11,200	11,200	11,200	11,200	11,400	11,400	11,200	
90	10,850	10,000	9,800	10,400	10,250	11,000	10,750	10,650	10,900	10,800	
95	9,790	9,200	9,000	9,600	9,190	9,550	9,460	9,800	10,100		
100	9,000	8,600	8,200	8,830	8,240	8,800	8,600	9,400	9,060		
105	8,600	8,200	7,800	7,980	7,390		8,200	8,580	8,120		
110	8,290	7,800	7,400	7,210	6,620		7,600	7,730	7,270		
115		7,520	6,990	6,510	5,910			6,950	6,490		
120		6,890	6,350	5,870	5,280			6,240	5,780		
125			5,770	5,290	4,700				5,130		
130			5,250	4,760	4,170				4,530		
135			4,770	4,270	3,680						
140				3,830	3,230						
145					3,420						
150					3,050						
155						2,100					
160						1,770					



89-142 ft



56 ft



31,500 lbs



100%
24'-0"



360



Pounds

Feet	56' Manual Offset Bi-Fold Swingaway Extension					56' Manual Offset Bi-Fold Swingaway Extension					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000								
35	11,000	11,000	11,000	9,800							
40	11,000	11,000	11,000	9,800	7,800						
45	11,000	11,000	11,000	9,800	7,800						
50	11,000	11,000	11,000	9,800	7,800						
55	10,600	11,000	11,000	9,800	7,800	7,000	7,000				
60	10,200	10,600	10,800	9,800	7,800	6,800	6,800	7,000			
65	9,600	10,000	10,200	9,800	7,800	6,600	6,800	6,800			
70	9,200	9,600	9,800	9,600	7,800	6,400	6,600	6,600	6,600		
75	8,800	9,200	9,400	9,600	7,800	6,400	6,400	6,400	6,400	6,400	
80	8,400	8,800	9,000	9,200	7,800	6,200	6,200	6,400	6,400	6,400	
85	8,000	8,400	8,800	8,800	7,800	6,000	6,200	6,200	6,200	6,200	
90	7,600	8,200	8,400	8,600	7,800	6,000	6,000	6,200	6,200	6,200	
95	7,400	7,800	8,200	8,200	7,800	6,000	6,000	6,000	6,000	6,000	
100	7,200	7,400	7,800	8,000	7,800	5,800	6,000	6,000	6,000	6,000	
105	6,800	7,200	7,600	7,730	7,800	5,800	5,800	6,000	6,000	6,000	
110	6,600	7,000	6,910	7,200	7,180	5,800	5,800	5,800	5,800	5,800	
115	6,400	6,540	6,400	7,000	6,480	5,800	5,800	5,800	5,800	5,800	
120	6,200	6,200	6,200	6,420	5,830	5,800	5,800	5,800	5,800	5,800	
125	6,000	6,000	5,800	5,830	5,240		5,800	5,800	5,800	5,800	
130	5,640	5,600	5,400	5,290	4,700		5,800	5,800	5,800	5,720	
135	5,400	5,200	4,800	4,800	4,210				5,520	5,120	
140	5,200	4,800	4,340	3,760				4,960	4,560		
145		4,420	3,920	3,340					4,040		
150		4,030	3,530	2,950					3,560		
155		3,680	3,170	2,590							
160			2,840	2,250							
165			2,530	1,940							
170			2,250	1,650							
175				1,380							
180				1,130							

TMS900E

GROVE®

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load charts

 89-142 ft
 72 ft
 31,500 lbs
 100%
 24'-0"
 360

 Pounds

13

Feet	16' Insert + 56' Manual Offset Bi-fold Swingaway 0 Deg Fixed Offset Angle					16' Insert + 56' Manual Offset Bi-fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000									
35	11,000	11,000								
40	11,000	10,800	9,400	8,000						
45	11,000	10,800	9,400	8,000						
50	11,000	10,600	9,400	8,000	6,400					
55	10,600	10,400	9,400	8,000	6,400					
60	10,200	10,200	9,400	8,000	6,400	6,800				
65	9,600	9,800	9,400	8,000	6,400	6,600				
70	9,200	9,400	9,200	8,000	6,400	6,600	6,600			
75	8,800	9,000	9,000	8,000	6,400	6,400	6,400	6,400	6,200	
80	8,400	8,600	8,600	8,000	6,400	6,200	6,400	6,400	6,200	
85	8,000	8,400	8,400	8,000	6,400	6,200	6,200	6,200	6,200	
90	7,800	8,000	8,000	7,800	6,400	6,000	6,200	6,200	6,200	
95	7,400	7,600	7,800	7,600	6,400	6,000	6,000	6,000	6,000	
100	7,200	7,400	7,600	7,400	6,400	5,800	6,000	6,000	6,000	
105	6,800	7,200	7,400	7,200	6,400	5,800	5,800	6,000	6,000	
110	6,600	7,000	6,940	6,920	6,400	5,800	5,800	5,800	5,800	
115	6,400	6,590	6,230	6,220	6,200	5,800	5,800	5,800	5,800	
120	6,200	5,950	5,590	5,800	5,730	5,800	5,800	5,800	5,800	
125	6,000	5,370	5,200	5,400	5,140	5,800	5,800	5,800	5,600	
130	5,650	4,820	4,800	5,180	4,590		5,600	5,430	5,530	5,400
135	5,150	4,600	4,600	4,680	4,100		4,970	5,000	5,200	5,150
140	4,700	4,400	4,200	4,220	3,640		4,800	5,000	4,600	
145	4,280	4,200	4,000	3,800	3,210		4,400	4,500	4,080	
150	3,900	4,000	3,800	3,400	2,820			4,020	3,600	
155	3,800	3,540	3,040	2,460				3,560	3,150	
160	3,600	3,200	2,700	2,120					2,730	
165		2,880	2,380	1,800					2,330	
170		2,590	2,090	1,510						
175		2,330	1,810	1,230						
180			1,560							

Feet	32' Insert + 56' Manual Offset Bi-Fold Swingaway Extension 0 Deg Fixed Offset Angle					32' Insert + 56' Manual Offset Bi-Fold Swingaway Extension 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
35	10,000									
40	9,600	9,000	7,800							
45	9,200	9,000	7,800	6,400						
50	9,000	8,600	7,800	6,400	4,800					
55	8,600	8,400	7,800	6,400	4,800					
60	8,200	8,200	7,600	6,400	4,800					
65	7,800	7,800	7,400	6,400	4,800					
70	7,400	7,600	7,200	6,400	4,800	6,200	6,200			
75	7,200	7,200	7,000	6,400	4,800	6,000	6,000	6,000		
80	6,800	7,000	6,800	6,400	4,800	5,800	5,800	5,800	5,600	5,000
85	6,600	6,600	6,600	6,200	4,800	5,600	5,600	5,600	5,600	5,000
90	6,200	6,400	6,400	6,200	4,800	5,400	5,400	5,400	5,400	5,000
95	6,000	6,200	6,000	6,000	4,800	5,200	5,400	5,400	5,200	5,000
100	5,800	6,000	6,000	5,800	4,800	5,200	5,200	5,200	5,200	5,000
105	5,600	5,800	5,800	5,800	4,800	5,000	5,000	5,200	5,000	5,000
110	5,200	5,400	5,600	5,600	4,800	4,800	5,000	5,000	4,800	
115	5,000	5,200	5,400	5,400	4,800	4,800	4,800	4,800	4,800	
120	4,800	5,000	5,200	5,200	4,800	4,600	4,800	4,800	4,800	4,600
125	4,600	4,800	5,000	5,000	4,600	4,600	4,600	4,600	4,600	
130	4,400	4,800	4,530	4,480	4,400	4,400	4,600	4,600	4,600	4,400
135	4,400	4,410	4,030	4,200	4,070	4,400	4,400	4,600	4,600	4,400
140	4,200	3,950	3,800	4,000	3,610	4,200	4,400	4,400	4,400	4,200
145	4,000	3,520	3,600	3,750	3,180		4,160	3,950	4,000	4,000
150	3,800	3,200	3,400	3,360	2,790		3,660	3,600	3,800	3,690
155	3,560	3,000	3,200	2,990	2,420			3,400	3,600	3,240
160	3,220	3,000	3,000	2,650	2,080			3,200	3,250	2,820
165		2,800	2,600	2,330	1,760				2,850	2,430
170		2,600	2,400	2,030	1,460				2,480	2,060
175		2,400	2,240	1,750	1,180					1,710
180			1,980	1,490						1,370
185			1,740	1,240						
190			1,520	1,010						

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GROVE

TMS900E

load charts

14

	37 - 142 ft Fixed lengths		27,200 lbs		100% 24'-0"		360		
Pounds									
Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
10	155,000	136,000	129,000	123,000	81,000				
15	115,000	112,000	105,000	99,000	81,000	59,000			
20	87,400	89,050	89,000	84,000	81,000	57,000	42,400		
25	67,350	69,800	70,000	68,750	70,400	51,000	42,400	34,000	
30	55,000	56,400	56,200	55,000	46,000	39,600	33,800	26,600	
35	45,000	45,950	45,750	44,500	41,600	35,800	32,000	26,600	
40		38,000	37,900	37,050	38,100	32,200	29,400	26,600	
45		31,450	31,400	32,000	31,700	29,400	27,000	24,800	
50		26,450	26,500	27,550	26,800	26,400	24,800	22,800	
55			23,850	23,750	22,950	23,250	21,900	21,200	
60			20,750	20,700	20,800	20,250	20,150	19,550	
65			18,200	18,200	18,500	17,750	17,650	17,050	
70				16,200	16,400	15,950	15,550	15,000	
75				14,450	14,600	14,200	13,800	13,250	
80					13,050	12,700	12,300	11,700	
85					11,750	11,350	11,000	10,450	
90					10,600	10,250	9,860	9,310	
95						9,220	8,840	8,290	
100						8,280	7,930	7,390	
105							7,120	6,580	
110							6,370	5,860	
115							5,700	5,200	
120								4,610	
125								4,050	
130								3,550	

* Requires special equipment

	89-142 ft		33 ft		27,200 lbs		100% 24'-0"		360			
Pounds												
Feet	33' Hydraulic Bi-Fold Swingaway	5 Deg Fixed Offset Angle	102.4	115.5	128.6	141.8	33' Hydraulic Bi-Fold Swingaway	40 Deg Fixed Offset Angle	102.4	115.5	128.6	141.8
		5 Deg Fixed Offset Angle						40 Deg Fixed Offset Angle				
89.3	102.4	115.5	128.6	141.8			89.3	102.4	115.5	128.6	141.8	
20	22,000											
25	22,000	22,000										
30	22,000	22,000	22,000	17,800								
35	22,000	22,000	21,800	17,800	13,800							
40	22,000	22,000	21,400	17,800	13,800							
45	21,600	22,000	21,000	17,800	13,800							
50	19,800	21,000	20,400	17,800	13,800							
55	18,400	19,400	19,800	17,200	13,800							
60	17,400	18,200	18,600	16,600	13,800							
65	16,400	17,100	16,850	15,800	13,800							
70	15,600	14,950	14,700	14,900	13,800							
75	14,050	13,150	12,900	13,100	13,000							
80	12,500	11,600	11,400	12,000	11,900							
85	11,200	10,800	10,600	11,200	10,650							
90	10,200	10,000	9,800	10,050	9,490							
95	9,600	9,200	9,000	9,030	8,440							
100	9,000	8,600	8,200	8,090	7,500							
105	8,270	8,200	7,730	7,250	6,670							
110	7,520	7,480	6,970	6,500	5,920							
115		6,800	6,290	5,830	5,250							
120		6,190	5,680	5,210	4,640							
125			5,120	4,650	4,080							
130			4,610	4,140	3,570							
135				4,140	3,680	3,110						
140					3,250	2,680						
145					2,850	2,280						
150					2,490	1,910						
155						1,570						
160						1,260						

TMS900E

GROVE®

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load charts



89-142 ft



56 ft



27,200 lbs

100%
24'-0"

360



Pounds

15

Feet	56' Hydraulic Bifold Swingaway					56' Hydraulic Bifold Swingaway				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000							
35	11,000	11,000	11,000	9,800						
40	11,000	11,000	11,000	9,800	8,200					
45	11,000	11,000	11,000	9,800	8,200					
50	11,000	11,000	11,000	9,800	8,200					
55	10,600	11,000	11,000	9,800	8,200		7,000	7,000		
60	10,200	10,600	10,800	9,800	8,200		6,800	6,800	7,000	
65	9,600	10,000	10,200	9,800	8,200		6,600	6,800	6,800	
70	9,200	9,600	9,800	9,600	8,200		6,400	6,600	6,600	6,600
75	8,800	9,200	9,400	9,600	8,200		6,400	6,400	6,400	6,400
80	8,400	8,800	9,000	9,200	8,200		6,200	6,200	6,400	6,400
85	8,000	8,400	8,800	8,800	8,200		6,000	6,200	6,200	6,200
90	7,600	8,200	8,400	8,600	8,200		6,000	6,000	6,200	6,200
95	7,400	7,800	8,200	8,200	8,200		6,000	6,000	6,000	6,000
100	7,200	7,400	7,800	8,000	8,000		5,800	6,000	6,000	6,000
105	6,800	7,200	7,200	7,600	7,380		5,800	6,000	6,000	6,000
110	6,600	6,800	6,800	7,180	6,610		5,800	5,800	5,800	5,800
115	6,400	6,400	6,400	6,490	5,920		5,800	5,800	5,800	5,800
120	6,120	6,200	6,200	5,860	5,290		5,800	5,800	5,800	5,800
125	5,800	6,000	5,760	5,290	4,720			5,800	5,800	5,660
130	5,600	5,600	5,240	4,760	4,200			5,750	5,450	5,040
135	5,260	4,750	4,280	3,720					4,870	4,470
140	4,810	4,310	3,840	3,280					4,330	3,940
145		3,900	3,430	2,870						3,450
150		3,520	3,050	2,490						2,980
155		3,170	2,700	2,140						
160			2,370	1,810						
165			2,070	1,510						
170			1,780	1,220						



89-142 ft

72 ft
(16+56 ft)

27,200 lbs

100%
24'-0"

360



Pounds

Feet	16' Insert + 56' Hydraulic Bi-Fold Swingaway Extension					16' Insert + 56' Hydraulic Bi-Fold Swingaway Extension				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
35	11,000									
40	11,000	10,800	9,800							
45	11,000	10,800	9,800	8,000						
50	11,000	10,600	9,800	8,000	6,600					
55	10,600	10,400	9,600	8,000	6,600					
60	10,200	10,200	9,600	8,000	6,600		6,800			
65	9,600	9,800	9,400	8,000	6,600		6,600			
70	9,200	9,400	9,200	8,000	6,600		6,600	6,600	6,600	
75	8,800	9,000	9,000	8,000	6,600		6,400	6,400	6,400	6,200
80	8,400	8,600	8,600	8,000	6,600		6,200	6,400	6,400	6,200
85	8,000	8,400	8,400	8,000	6,600		6,200	6,200	6,200	6,200
90	7,800	8,000	8,000	7,800	6,600		6,000	6,200	6,200	6,200
95	7,400	7,600	7,800	7,600	6,600		6,000	6,000	6,200	6,000
100	7,200	7,400	7,600	7,400	6,600		5,800	6,000	6,000	6,000
105	6,800	7,200	7,160	6,600			5,800	5,800	6,000	6,000
110	6,600	6,730	6,390	6,380	6,400		5,800	5,800	5,800	5,800
115	6,400	6,030	5,800	6,000	5,840		5,800	5,800	5,800	5,800
120	6,190	5,400	5,400	5,780	5,210		5,800	5,800	5,800	5,800
125	5,610	5,000	5,200	5,200	4,630		5,800	5,570	5,390	5,490
130	5,080	4,800	4,800	4,670	4,110			4,930	5,200	5,200
135	4,600	4,600	4,600	4,190	3,620			4,800	5,000	4,920
140	4,150	4,400	4,200	3,740	3,180				4,730	4,390
145	4,000	4,200	3,800	3,330	2,770				4,230	3,900
150	3,800	3,930	3,420	2,940	2,380					3,440
155	3,570	3,060	2,590	2,030					3,010	2,600
160	3,240	2,730	2,260	1,700						2,190
165		2,420	1,950	1,390						1,810
170		2,130	1,660	1,100						
175		1,870	1,390							
180			1,140							

TMS900E

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GROVE®

load charts

16



89-142 ft



88 ft
(32 + 56 ft)



27,200 lbs



100%
24'-0"



360



Pounds

Feet	32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension 5 Deg Fixed Offset Angle					32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
40	9,600	9,200								
45	9,200	9,000	7,800							
50	9,000	8,600	7,800	6,400	5,000					
55	8,600	8,400	7,800	6,400	5,000					
60	8,200	8,200	7,600	6,400	5,000					
65	7,800	7,800	7,400	6,400	5,000					
70	7,400	7,600	7,200	6,400	5,000	6,200	6,200			
75	7,200	7,200	7,000	6,400	5,000	6,000	6,000	6,000		
80	6,800	7,000	6,800	6,400	5,000	5,800	5,800	5,800	5,600	5,000
85	6,600	6,600	6,600	6,200	5,000	5,600	5,600	5,600	5,600	5,000
90	6,200	6,400	6,400	6,200	5,000	5,400	5,400	5,400	5,400	5,000
95	6,000	6,200	6,200	6,000	5,000	5,200	5,400	5,400	5,200	5,000
100	5,800	6,000	6,000	5,800	5,000	5,200	5,200	5,200	5,200	5,000
105	5,600	5,800	5,800	5,800	5,000	5,000	5,000	5,200	5,000	5,000
110	5,200	5,400	5,600	5,600	5,000	4,800	5,000	5,000	5,000	4,800
115	5,000	5,200	5,400	5,400	5,000	4,800	4,800	4,800	4,800	4,800
120	4,800	5,000	5,150	5,110	4,800	4,600	4,800	4,800	4,800	4,600
125	4,600	4,800	4,570	4,600	4,600	4,600	4,600	4,600	4,800	4,600
130	4,400	4,400	4,200	4,400	4,100	4,400	4,600	4,600	4,600	4,400
135	4,400	3,910	4,000	4,170	3,610	4,400	4,400	4,390	4,430	4,400
140	4,200	3,800	3,720	3,160		4,200	4,070	4,000	4,000	4,060
145	3,810	3,400	3,600	3,300	2,750		3,600	3,800	3,990	3,570
150	3,430	3,200	3,390	2,910	2,360		3,400	3,600	3,540	3,110
155	3,070	3,000	3,030	2,560	2,000			3,400	3,110	2,680
160	2,740	3,000	2,700	2,220	1,670			3,050	2,710	2,280
165	2,800	2,390	1,910	1,360					2,330	1,910
170	2,600	2,090	1,620	1,070					1,980	1,550
175	2,330	1,820	1,350							1,220
180		1,560	1,090							
185			1,330							
190			1,100							



89-142 ft



33 ft



27,200 lbs



100%
24'-0"



360



Pounds

Feet	33' Manual Offset Bi-Fold Swingaway 0 Deg Fixed Offset Angle					33' Manual Offset Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
20	22,000	22,000								
25	22,000	22,000	22,000							
30	22,000	22,000	22,000	17,400	13,600					
35	22,000	22,000	21,800	17,400	13,600					
40	22,000	22,000	21,400	17,400	13,600	14,000	14,200			
45	21,600	22,000	21,000	17,400	13,600	13,600	13,800	13,800		
50	19,800	21,000	20,400	17,400	13,600	13,200	13,400	13,600	13,600	11,400
55	18,400	19,400	19,800	17,200	13,600	12,800	13,000	13,200	13,200	11,400
60	17,400	18,200	18,600	16,600	13,600	12,400	12,600	12,800	13,000	11,400
65	16,400	16,850	16,500	15,800	13,600	12,000	12,200	12,400	12,800	11,400
70	15,600	14,750	14,450	14,650	13,600	11,600	11,800	12,000	12,600	11,400
75	13,850	12,950	12,700	12,850	13,000	11,400	11,600	11,600	12,200	11,400
80	12,350	11,600	11,400	12,000	11,700	11,200	11,400	11,600	11,800	11,400
85	11,100	10,800	10,600	11,100	10,500	11,200	11,100	11,000	11,250	11,200
90	10,200	10,000	9,800	9,930	9,320	10,450	9,820	9,800	10,200	10,350
95	9,600	9,200	9,000	8,890	8,280		9,200	9,200	9,690	9,220
100	9,000	8,600	8,200	7,970	7,360		8,800	8,600	8,670	8,200
105	8,230	8,160	7,630	7,140	6,540			8,110	7,750	7,290
110	7,500	7,420	6,890	6,400	5,810			7,270	6,930	6,470
115	6,750	6,220	5,740	5,140					6,180	5,720
120	6,150	5,620	5,130	4,540					5,500	5,040
125		5,070	4,580	3,990						4,420
130		4,570	4,080	3,490						3,850
135		4,120	3,630	3,030						
140		3,210	2,610							
145		2,820	2,230							
150		2,480	1,870							
155			1,540							
160			1,240							

TMS900E

GROVE®

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load charts

89'-142' ft
 56 ft
 27,200 lbs
 100%
 24'-0"
 360

Pounds

17

Feet	56' Manual Offset Bi-Fold Swingaway Extension					56' Manual Offset Bi-Fold Swingaway Extension					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
25	11,000										
30	11,000	11,000	11,000	9,800							
35	11,000	11,000	11,000	9,800	7,800						
40	11,000	11,000	11,000	9,800	7,800						
45	11,000	11,000	11,000	9,800	7,800						
50	11,000	11,000	11,000	9,800	7,800						
55	10,600	11,000	11,000	9,800	7,800		7,000	7,000			
60	10,200	10,600	10,800	9,800	7,800		6,800	6,800	7,000		
65	9,600	10,000	10,200	9,800	7,800		6,600	6,800	6,800		
70	9,200	9,600	9,800	9,600	7,800		6,400	6,600	6,600	6,600	
75	8,800	9,200	9,400	9,600	7,800		6,400	6,400	6,400	6,400	6,400
80	8,400	8,800	9,000	9,200	7,800		6,200	6,200	6,400	6,400	6,400
85	8,000	8,400	8,800	8,800	7,800		6,000	6,200	6,200	6,200	6,200
90	7,600	8,200	8,400	8,600	7,800		6,000	6,000	6,200	6,200	6,200
95	7,400	7,800	8,200	8,200	7,800		6,000	6,000	6,000	6,000	6,000
100	7,200	7,400	7,600	7,800	7,800		5,800	6,000	6,000	6,000	6,000
105	6,800	7,190	7,200	7,600	7,130		5,800	5,800	6,000	6,000	6,000
110	6,600	6,800	6,800	6,980	6,380		5,800	5,800	5,800	5,800	5,800
115	6,400	6,400	6,400	6,300	5,710		5,800	5,800	5,800	5,800	5,800
120	6,010	6,200	6,190	5,690	5,100		5,800	5,800	5,800	5,800	5,800
125	5,800	6,000	5,630	5,130	4,540			5,800	5,800	5,660	
130	5,600	5,600	5,120	4,620	1,030			5,750	5,450	5,040	
135	5,190	4,650	4,150	3,560					4,870	4,470	
140	4,760	4,220	3,720	3,130					4,330	3,940	
145		3,820	3,320	2,740						3,450	
150		3,460	2,960	2,370						2,980	
155		3,120	2,620	2,030							
160			2,300	1,720							
165			2,010	1,420							
170			1,750	1,150							
175											
180											

Feet	16' Insert + 56' Manual Offset Bifold Swingaway					16' Insert + 56' Manual Offset Bifold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
30	11,000										
35	11,000	11,000									
40	11,000	10,800	9,400	8,000							
45	11,000	10,800	9,400	8,000	6,400						
50	11,000	10,600	9,400	8,000	6,400						
55	10,600	10,400	9,400	8,000	6,400						
60	10,200	10,200	9,400	8,000	6,400		6,800				
65	9,600	9,800	9,400	8,000	6,400		6,600				
70	9,200	9,400	9,200	8,000	6,400		6,600	6,600	6,600		
75	8,800	9,000	9,000	8,000	6,400		6,400	6,400	6,400	6,200	
80	8,400	8,600	8,600	8,000	6,400		6,200	6,400	6,400	6,200	
85	8,000	8,400	8,400	8,000	6,400		6,200	6,200	6,200	6,200	
90	7,800	8,000	8,000	7,800	6,400		6,000	6,200	6,200	6,200	
95	7,400	7,600	7,800	7,600	6,400		6,000	6,000	6,200	6,000	
100	7,200	7,400	7,600	7,400	6,400		5,800	6,000	6,000	6,000	
105	6,800	7,200	6,900	6,890	6,400		5,800	5,800	6,000	6,000	
110	6,600	6,520	6,150	6,200	6,290		5,800	5,800	5,800	5,800	
115	6,400	5,840	5,800	6,000	5,610		5,800	5,800	5,800	5,800	
120	6,050	5,220	5,400	5,590	5,000		5,800	5,800	5,800	5,800	
125	5,490	5,000	5,200	5,020	4,430		5,800	5,570	5,390	5,490	
130	4,980	4,800	4,800	4,510	3,920			4,930	5,200	5,200	
135	4,510	4,600	4,540	4,030	3,450			4,800	5,000	4,920	
140	4,080	4,400	4,100	3,600	3,020			4,730	4,390	3,970	
145	4,000	4,200	3,700	3,200	2,620			4,230	3,900	3,480	
150	3,800	3,860	3,330	2,830	2,240				3,440	3,020	
155		3,520	2,980	2,480	1,900					2,600	
160		3,210	2,660	2,160	1,580					2,190	
165			2,360	1,860	1,280					1,810	
170			2,090	1,590	1,000						
175			1,840	1,330							
180				1,090							

TMS900E

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GROVE®

load charts

18



89-142 ft



88 ft
(32 + 56 ft)



27,200 lbs



100%
24'-0"



360



Pounds

Feet	32' Insert + 56' Manual Offset Bi-Fold Swingaway Extension 0 Deg Fixed Offset Angle					32' Insert + 56' Manual Offset Bi-Fold Swingaway Extension 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
35	10,000									
40	9,600	9,000	7,800							
45	9,200	9,000	7,800	6,400						
50	9,000	8,600	7,800	6,400	4,800					
55	8,600	8,400	7,800	6,400	4,800					
60	8,200	8,200	7,600	6,400	4,800					
65	7,800	7,800	7,400	6,400	4,800					
70	7,400	7,600	7,200	6,400	4,800	6,200	6,200			
75	7,200	7,200	7,000	6,400	4,800	6,000	6,000	6,000		
80	6,800	7,000	6,800	6,400	4,800	5,800	5,800	5,800	5,600	5,000
85	6,600	6,600	6,600	6,200	4,800	5,600	5,600	5,600	5,600	5,000
90	6,200	6,400	6,400	6,200	4,800	5,400	5,400	5,400	5,400	5,000
95	6,000	6,200	6,200	6,000	4,800	5,200	5,400	5,400	5,200	5,000
100	5,800	6,000	6,000	5,800	4,800	5,200	5,200	5,200	5,200	5,000
105	5,600	5,800	5,800	5,800	4,800	5,000	5,000	5,200	5,000	5,000
110	5,200	5,400	5,600	5,600	4,800	4,800	5,000	5,000	4,800	
115	5,000	5,200	5,400	5,400	4,800	4,800	4,800	4,800	4,800	
120	4,800	5,000	4,940	4,880	4,800	4,600	4,800	4,800	4,800	4,600
125	4,600	4,760	4,400	4,600	4,420	4,600	4,600	4,600	4,800	4,600
130	4,400	4,240	4,200	4,400	3,900	4,400	4,600	4,600	4,600	4,400
135	4,400	3,800	4,000	4,000	3,430	4,400	4,400	4,390	4,430	4,400
140	4,120	3,600	3,800	3,560	2,990	4,200	4,070	4,000	4,000	4,060
145	3,720	3,400	3,600	3,160	2,580	3,600	3,800	3,990	3,570	
150	3,350	3,200	3,280	2,780	2,210	3,400	3,600	3,540	3,110	
155	3,000	3,000	2,930	2,430	1,860		3,400	3,400	3,110	2,680
160	2,690	3,000	2,600	2,110	1,540		3,050	2,710	2,280	
165	2,800	2,300	1,810	1,240				2,330	1,910	
170	2,550	2,020	1,530					1,980	1,550	
175	2,290	1,760	1,260						1,220	
180		1,510	1,010							
185		1,280								
190			1,070							

TMS900E

GROVE®

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load charts

 37 - 142 ft
 20,500 lbs

 100%
24'-0"

360

 Pounds

Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
10	155,000	136,000	129,000	123,000	81,000				
15	112,500	112,000	105,000	99,000	81,000	59,000			
20	85,400	87,050	87,250	84,000	81,000	57,000	42,400	34,000	
25	62,750	64,950	65,150	66,850	65,600	51,000	42,400	34,000	26,600
30	50,550	52,500	52,350	51,100	46,000	39,600	33,800	33,800	26,600
35	40,450	42,650	42,500	41,300	41,600	35,800	32,000	32,000	26,600
40		34,200	34,100	35,000	34,400	32,200	29,400	29,400	26,600
45		28,200	28,600	29,250	28,450	28,600	27,000	27,000	24,800
50		23,800	24,900	24,750	24,200	24,250	23,200	23,200	22,800
55			21,350	21,250	21,550	20,800	20,700	20,700	20,100
60			18,500	18,600	18,750	18,300	17,850	17,850	17,250
65			16,150	16,250	16,350	15,900	15,450	14,900	
70				14,250	14,400	13,950	13,500	13,500	12,950
75				12,600	12,700	12,300	11,850	11,850	11,300
80					11,300	10,950	10,550	10,550	9,990
85						10,100	9,730	9,330	8,780
90							9,040	8,670	8,280
95								7,720	7,350
100									6,880
105									5,790
110									5,110
115									4,500
120									3,460
125									2,960
130									2,510

 89-142 ft
 33 ft
 20,500 lbs

 100%
24'-0"

 Pounds

Feet	33' Hydraulic Bi-Fold Swingaway					33' Hydraulic Bi-Fold Swingaway				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8	
20	22,000									
25	22,000	22,000								
30	22,000	22,000	22,000							
35	22,000	22,000	21,800	17,800	13,800	14,000	14,200			
40	22,000	22,000	21,400	17,800	13,800	13,600	13,800	13,800		
45	21,600	22,000	21,000	17,800	13,800	13,200	13,400	13,600	13,600	11,400
50	19,800	21,000	20,400	17,800	13,800	13,600	13,800	13,800	13,800	
55	18,400	19,400	19,800	17,200	13,800	12,800	13,000	13,200	13,200	11,400
60	17,400	17,350	17,100	16,600	13,800	12,400	12,600	12,800	13,000	11,400
65	15,900	15,000	14,700	14,900	13,800	12,000	12,200	12,400	12,800	11,400
70	13,850	13,200	13,200	13,600	13,250	11,600	11,800	12,000	12,600	11,400
75	12,400	12,400	12,400	12,200	11,550	11,400	11,600	11,600	12,200	11,400
80	11,800	11,600	11,250	10,850	10,250	11,200	10,800	10,800	11,000	11,250
85	10,600	10,600	10,050	9,590	9,000	10,200	10,200	10,200	10,450	9,980
90	9,530	9,500	8,990	8,500	7,910	9,800	9,800	9,630	9,260	8,790
95	8,560	8,530	8,020	7,540	6,950	8,930	8,930	8,570	8,200	7,730
100	7,700	7,670	7,160	6,680	6,100	7,980	7,620	7,260	7,260	6,790
105	6,940	6,900	6,400	5,920	5,340		6,780	6,420	5,960	
110	6,260	6,210	5,710	5,240	4,660		6,010	5,670	5,200	
115		5,600	5,090	4,620	4,050			4,980	4,520	
120		5,040	4,530	4,070	3,490				4,350	3,900
125			4,020	3,560	2,990					3,330
130				3,560	3,100	2,520				2,800
135				3,140	2,670	2,100				
140					2,280	1,710				
145						1,920	1,350			
150						1,600	1,020			
155										
160										

TMS900E

load charts

20



Pounds

Feet	56' Hydraulic Bi-Fold Swingaway					56' Hydraulic Bi-Fold Swingaway					
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000								
35	11,000	11,000	11,000	9,800							
40	11,000	11,000	11,000	9,800	8,200						
45	11,000	11,000	11,000	9,800	8,200						
50	11,000	11,000	11,000	9,800	8,200						
55	10,600	11,000	11,000	9,800	8,200	7,000	7,000				
60	10,200	10,600	10,800	9,800	8,200	6,800	6,800	7,000			
65	9,600	10,000	10,200	9,800	8,200	6,600	6,800	6,800			
70	9,200	9,600	9,800	9,600	8,200	6,400	6,600	6,600	6,600		
75	8,800	9,200	9,400	9,600	8,200	6,400	6,400	6,400	6,400	6,400	
80	8,400	8,800	9,000	9,200	8,200	6,200	6,200	6,400	6,400	6,400	
85	8,000	8,400	8,800	8,800	8,200	6,000	6,200	6,200	6,200	6,200	
90	7,600	8,200	8,390	8,450	8,200	6,000	6,000	6,200	6,200	6,200	
95	7,400	7,720	7,800	8,200	7,700	6,000	6,000	6,000	6,000	6,000	
100	7,200	7,400	7,600	7,400	6,820	5,800	6,000	6,000	6,000	6,000	
105	6,800	7,000	7,110	6,620	6,050	5,800	5,800	6,000	6,000	6,000	
110	6,600	6,800	6,400	5,920	5,350	5,800	5,800	5,800	5,800	5,800	
115	6,200	6,280	5,770	5,290	4,720		5,800	5,800	5,800	5,800	
120	5,830	5,700	5,190	4,710	4,150		5,800	5,800	5,590	5,190	
125	5,300	5,170	4,670	4,190	3,630		5,280	4,970	4,570		
130	4,820	4,690	4,190	3,710	3,150		4,700	4,400	3,990		
135	4,250	3,750	3,280	2,710				3,860	3,460		
140	3,850	3,340	2,870	2,310				3,370	2,970		
145		2,970	2,500	1,940					2,510		
150		2,620	2,150	1,590					2,080		
155		2,300	1,830	1,270							
160			1,540								
165			1,260								
170			1,000								



Pounds

Feet	16' Insert + 56' Hydraulic Bi-Fold Swingaway Extension					16' Insert + 56' Hydraulic Bi-Fold Swingaway Extension					
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
35	11,000										
40	11,000	10,800	9,800								
45	11,000	10,800	9,800	8,000							
50	11,000	10,600	9,800	8,000	6,600						
55	10,600	10,400	9,600	8,000	6,600						
60	10,200	10,200	9,600	8,000	6,600	6,800					
65	9,600	9,800	9,400	8,000	6,600	6,600					
70	9,200	9,400	9,200	8,000	6,600	6,600	6,600	6,600	6,600		
75	8,800	9,000	9,000	8,000	6,600	6,400	6,400	6,400	6,400	6,200	
80	8,400	8,600	8,600	8,000	6,600	6,200	6,400	6,400	6,400	6,200	
85	8,000	8,400	8,400	8,000	6,600	6,200	6,200	6,200	6,200	6,200	
90	7,800	8,000	8,000	7,800	6,600	6,000	6,200	6,200	6,200	6,200	
95	7,400	7,600	7,490	7,490	6,600	6,000	6,000	6,000	6,200	6,000	
100	7,200	6,960	6,610	6,800	6,600	5,800	6,000	6,000	6,000	6,000	
105	6,800	6,170	6,200	6,400	5,980	5,800	5,800	6,000	6,000	6,000	
110	6,270	5,800	6,000	5,850	5,280	5,800	5,800	5,800	5,800	5,800	
115	5,630	5,400	5,700	5,210	4,640	5,800	5,800	5,630	5,800	5,800	
120	5,050	5,200	5,120	4,630	4,060	5,680	5,200	5,400	5,600	5,220	
125	4,800	5,000	4,590	4,100	3,540	5,030	5,000	5,200	5,020	4,600	
130	4,400	4,610	4,110	3,620	3,060	4,800	4,790	4,450	4,030		
135	4,200	4,170	3,660	3,180	2,620	4,600	4,260	3,920	3,500		
140	3,940	3,760	3,250	2,770	2,210		3,760	3,430	3,010		
145	3,560	3,380	2,870	2,390	1,830		3,300	2,970	2,550		
150	3,210	3,030	2,520	2,050	1,490			2,540	2,130		
155	2,710	2,200	1,720	1,160				2,140	1,730		
160	2,410		1,890	1,420					1,350		
165		1,610	1,140						1,000		
170		1,350									
175		1,110									
180											

TMS900E

GROVE®

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load charts

89'-142' ft
 88 ft (32'+56' ft)
 20,500 lbs
 100%
 360

Pounds

21

Feet	32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension					32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension					
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
40	9,600	9,200									
45	9,200	9,000	7,800								
50	9,000	8,600	7,800	6,400	5,000						
55	8,600	8,400	7,800	6,400	5,000						
60	8,200	8,200	7,600	6,400	5,000						
65	7,800	7,800	7,400	6,400	5,000						
70	7,400	7,600	7,200	6,400	5,000	6,200	6,200				
75	7,200	7,200	7,000	6,400	5,000	6,000	6,000	6,000			
80	6,800	7,000	6,800	6,400	5,000	5,800	5,800	5,800	5,600	5,000	
85	6,600	6,600	6,600	6,200	5,000	5,600	5,600	5,600	5,600	5,000	
90	6,200	6,400	6,400	6,200	5,000	5,400	5,400	5,400	5,400	5,000	
95	6,000	6,200	6,200	6,000	5,000	5,200	5,400	5,400	5,200	5,000	
100	5,800	6,000	6,000	5,800	5,000	5,200	5,200	5,200	5,200	5,000	
105	5,600	5,800	5,800	5,800	5,000	5,000	5,000	5,200	5,000	5,000	
110	5,200	5,400	5,230	5,200	5,000	4,800	5,000	5,000	5,000	4,800	
115	5,000	4,950	4,800	5,000	4,650	4,800	4,800	4,800	4,800	4,800	
120	4,800	4,400	4,600	4,620	4,060	4,600	4,800	4,800	4,800	4,600	
125	4,600	4,200	4,400	4,090	3,530	4,600	4,600	4,400	4,600	4,600	
130	4,120	4,000	4,090	3,610	3,050	4,400	4,150	4,200	4,400	4,110	
135	3,670	3,800	3,640	3,160	2,600	4,180	3,800	4,000	4,010	3,580	
140	3,400	3,600	3,230	2,750	2,190	3,670	3,800	3,880	3,520	3,090	
145	3,200	3,350	2,850	2,370	1,820	3,600	3,420	3,060	2,640		
150	3,000	3,000	2,500	2,020	1,460	3,350	2,990	2,640	2,210		
155	2,800	2,670	2,170	1,690	1,140			2,590	2,250	1,820	
160	2,570	2,360	1,860	1,390				2,220	1,870	1,450	
165	2,080	1,580	1,100						1,520	1,100	
170	1,820	1,310							1,190		
175	1,570	1,060									
180											

Feet	33' Manual Bi-Fold Swingaway					33' Manual Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
20	22,000	22,000									
25	22,000	22,000	22,000								
30	22,000	22,000	22,000	17,400	13,600						
35	22,000	22,000	21,800	17,400	13,600						
40	22,000	22,000	21,400	17,400	13,600	14,000	14,200				
45	21,600	22,000	21,000	17,400	13,600	13,600	13,800	13,800			
50	19,800	21,000	20,400	17,400	13,600	13,200	13,400	13,600	13,600	11,400	
55	18,400	19,400	19,600	17,200	13,600	12,800	13,000	13,200	13,200	11,400	
60	17,400	17,050	16,800	16,600	13,600	12,400	12,600	12,800	13,000	11,400	
65	15,650	14,700	14,450	14,600	13,600	12,000	12,200	12,400	12,800	11,400	
70	13,700	13,200	13,200	13,600	13,000	11,600	11,800	12,000	12,600	11,400	
75	12,400	12,400	12,400	12,000	11,350	11,400	11,600	11,600	12,200	11,400	
80	11,700	11,600	11,150	10,650	10,000	11,200	10,800	10,800	11,000	11,250	
85	10,500	10,450	9,940	9,430	8,810	10,200	10,200	10,450	9,980		
90	9,440	9,380	8,850	8,350	7,740	9,800	9,800	9,630	9,260	8,790	
95	8,480	8,430	7,900	7,400	6,790		8,930	8,570	8,200	7,730	
100	7,640	7,580	7,050	6,560	5,960		7,980	7,620	7,260	6,790	
105	6,890	6,830	6,300	5,810	5,210			6,780	6,420	5,960	
110	6,230	6,150	5,630	5,140	4,540			6,010	5,670	5,200	
115	5,550	5,020	4,530	3,940					4,980	4,520	
120	5,010	4,470	3,990	3,390					4,350	3,900	
125		3,970	3,490	2,900						3,330	
130		3,520	3,040	2,440						2,800	
135		3,120	2,620	2,030							
140			2,240	1,650							
145			1,890	1,300							
150			1,580								
155											
160											

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GROVE®

TMS900E

load charts

22

89'-142' ft
 56 ft
 20,500 lbs
 100%
 24'-0"
 360

Feet	56' Manual Bi-Fold Swingaway					56' Manual Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
25	11,000										
30	11,000	11,000	11,000	9,800							
35	11,000	11,000	11,000	9,800	7,800						
40	11,000	11,000	11,000	9,800	7,800						
45	11,000	11,000	11,000	9,800	7,800						
50	11,000	11,000	11,000	9,800	7,800						
55	10,600	11,000	11,000	9,800	7,800	7,000	7,000				
60	10,200	10,600	10,800	9,800	7,800	6,800	6,800	7,000			
65	9,600	10,000	10,200	9,800	7,800	6,600	6,800	6,800			
70	9,200	9,600	9,800	9,600	7,800	6,400	6,600	6,600	6,600		
75	8,800	9,200	9,400	9,600	7,800	6,400	6,400	6,400	6,400	6,400	
80	8,400	8,800	9,000	9,200	7,800	6,200	6,200	6,400	6,400	6,400	
85	8,000	8,400	8,800	8,800	7,800	6,000	6,200	6,200	6,200	6,200	
90	7,600	8,200	8,200	8,400	7,800	6,000	6,000	6,200	6,200	6,200	
95	7,400	7,600	7,800	8,010	7,400	6,000	6,000	6,000	6,000	6,000	
100	7,200	7,400	7,600	7,160	6,550	5,800	6,000	6,000	6,000	6,000	
105	6,800	7,000	6,910	6,400	5,800	5,800	5,800	6,000	6,000	6,000	
110	6,600	6,760	6,230	5,720	5,120	5,800	5,800	5,800	5,800	5,800	
115	6,200	6,140	5,610	5,100	4,500	5,800	5,800	5,800	5,800	5,800	
120	5,740	5,580	5,050	4,540	3,950	5,800	5,800	5,590	5,190		
125	5,230	5,070	4,530	4,030	3,440			5,280	4,970	4,570	
130	4,770	4,600	4,070	3,570	2,980			4,700	4,400	3,990	
135	4,180	3,640	3,150	2,560					3,860	3,460	
140		3,790	3,250	2,750	2,170				3,370	2,970	
145			2,890	2,390	1,810					2,510	
150			2,560	2,060	1,470					2,080	
155			2,260	1,750	1,170						
160				1,470							
165				1,200							
170											

89'-142' ft
 72 ft
 (16 + 56 ft)
 20,500 lbs
 100%
 24'-0"
 360

Feet	16' Insert + 56' Manual Bi-Fold Swingaway Extension					16' Insert + 56' Manual Bi-Fold Swingaway Extension					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
30	11,000										
35	11,000	11,000									
40	11,000	10,800	9,400	8,000							
45	11,000	10,800	9,400	8,000	6,400						
50	11,000	10,600	9,400	8,000	6,400						
55	10,600	10,400	9,400	8,000	6,400						
60	10,200	10,200	9,400	8,000	6,400	6,800					
65	9,600	9,800	9,400	8,000	6,400	6,600					
70	9,200	9,400	9,200	8,000	6,400	6,600	6,600	6,600			
75	8,800	9,000	9,000	8,000	6,400	6,400	6,400	6,400	6,400	6,200	
80	8,400	8,600	8,600	8,000	6,400	6,200	6,400	6,400	6,400	6,200	
85	8,000	8,400	8,400	8,000	6,400	6,200	6,200	6,200	6,200	6,200	
90	7,800	8,000	8,000	7,800	6,400	6,000	6,200	6,200	6,200	6,200	
95	7,400	7,560	7,190	7,180	6,400	6,000	6,000	6,000	6,000	6,000	
100	7,200	6,700	6,600	6,800	6,400	5,800	6,000	6,000	6,000	6,000	
105	6,780	6,000	6,200	6,320	5,720	5,800	5,800	6,000	6,000	6,000	
110	6,090	5,800	6,000	5,630	5,030	5,800	5,800	5,800	5,800	5,800	
115	5,470	5,400	5,520	5,000	4,410	5,800	5,800	5,630	5,800	5,800	
120	5,000	5,200	4,950	4,440	3,850	5,680	5,200	5,400	5,600	5,220	
125	4,800	4,970	4,440	3,930	3,340	5,030	5,000	5,200	5,020	4,600	
130	4,400	4,500	3,960	3,460	2,870		4,800	4,790	4,450	4,030	
135	4,200	4,060	3,530	3,030	2,440		4,600	4,260	3,920	3,500	
140	3,870	3,670	3,130	2,630	2,050			3,760	3,430	3,010	
145	3,510	3,300	2,770	2,270	1,680			3,300	2,970	2,550	
150	3,190	2,960	2,430	1,930	1,350				2,540	2,130	
155	2,650	2,120	1,620	1,040					2,140	1,730	
160	2,370	1,820	1,320							1,350	
165		1,560	1,050							1,000	
170		1,310									
175		1,080									
180											

TMS900E

GROVE®

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load charts

 89'-142' ft

 88' ft
(32' + 56' ft)

 20,500 lbs

 100%
24'-0"

 360

 Pounds

23

Feet	32' insert + 56' Manual Bifold Swingaway					32' insert + 56' Manual Bifold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
35	10,000										
40	9,600	9,000	7,800								
45	9,200	9,000	7,800	6,400							
50	9,000	8,600	7,800	6,400	4,800						
55	8,600	8,400	7,800	6,400	4,800						
60	8,200	8,200	7,600	6,400	4,800						
65	7,800	7,800	7,400	6,400	4,800						
70	7,400	7,600	7,200	6,400	4,800	6,200	6,200				
75	7,200	7,200	7,000	6,400	4,800	6,000	6,000	6,000			
80	6,800	7,000	6,800	6,400	4,800	5,800	5,800	5,800	5,600	5,000	
85	6,600	6,600	6,600	6,200	4,800	5,600	5,600	5,600	5,600	5,000	
90	6,200	6,400	6,400	6,200	4,800	5,400	5,400	5,400	5,400	5,000	
95	6,000	6,200	6,200	6,000	4,800	5,200	5,400	5,400	5,200	5,000	
100	5,800	6,000	6,000	5,800	4,800	5,200	5,200	5,200	5,200	5,000	
105	5,600	5,800	5,570	5,560	4,800	5,000	5,000	5,200	5,000	5,000	
110	5,200	5,250	5,000	5,200	4,800	4,800	5,000	5,000	5,000	4,800	
115	5,000	4,640	4,800	5,000	4,410	4,800	4,800	4,800	4,800	4,800	
120	4,800	4,400	4,600	4,440	3,850	4,600	4,800	4,800	4,800	4,600	
125	4,390	4,200	4,400	3,930	3,340	4,600	4,600	4,400	4,600	4,600	
130	3,930	4,000	3,960	3,460	2,870	4,400	4,150	4,200	4,400	4,110	
135	3,500	3,800	3,530	3,030	2,440	4,180	3,800	4,000	4,010	3,580	
140	3,400	3,600	3,130	2,630	2,050	3,670	3,800	3,880	3,520	3,090	
145	3,200	3,300	2,770	2,270	1,680	3,600	3,420	3,060	2,640		
150	3,000	2,960	2,430	1,930	1,350	3,350	2,990	2,990	2,640	2,210	
155		2,650	2,120	1,620	1,040		2,590	2,250	1,820		
160		2,370	1,820	1,320			2,220	1,870	1,450		
165		2,120	1,560	1,050				1,520	1,100		
170			1,310					1,190			
175			1,080								
180											

TMS900E

load charts

24



37' - 142 ft
Fixed lengths



12,900 lbs



100%
24'-0"



360



Pounds

Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
10	155,000	136,000	129,000	123,000	81,000				
15	109,500	111,000	105,000	99,000	81,000	59,000			
20	79,450	81,850	82,100	80,800	81,000	57,000	42,400	34,000	
25	57,750	61,000	62,050	61,900	60,600	51,000	42,400	34,000	26,600
30		47,500	48,500	48,300	47,100	46,000	39,600	33,800	26,600
35		36,300	37,450	37,350	38,600	37,700	35,700	32,000	26,600
40			29,950	31,200	31,000	30,200	30,500	28,900	26,600
45			24,700	25,750	25,600	25,900	25,100	24,950	24,300
50			20,500	21,550	21,600	21,700	21,250	20,750	20,150
55				18,250	18,300	18,450	17,950	17,500	16,900
60				15,650	15,700	15,800	15,350	14,900	14,300
65				13,500	13,600	13,700	13,250	12,800	12,250
70				11,850	11,950	11,500	11,150	10,600	
75				10,400	10,550	10,100	9,730	9,160	
80					9,310	8,890	8,480	7,920	
85					8,200	7,810	7,410	6,860	
90						7,240	6,870	6,480	5,920
95							6,030	5,660	5,110
100							5,280	4,930	4,380
105								4,280	3,740
110								3,680	3,160
115								3,140	2,640
120									2,160
125									1,720
130									1,320



89-142 ft



33 ft



12,900 lbs



100%
24'-0"



360

Pounds

Feet	33' Hydraulic Bi-Fold Swingaway 5 Deg Fixed Offset Angle					33' Hydraulic Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
20	22,000									
25	22,000	22,000								
30	22,000	22,000	22,000	17,800						
35	22,000	22,000	21,800	17,800	13,800					
40	22,000	22,000	21,400	17,800	13,800	14,000	14,200			
45	21,600	22,000	21,000	17,800	13,800	13,600	13,800	13,800		
50	19,800	20,500	20,200	17,800	13,800	13,200	13,400	13,600	13,600	11,400
55	18,100	17,150	16,850	17,050	13,800	12,800	13,000	13,200	13,200	11,400
60	15,450	15,200	15,200	15,400	13,800	12,400	12,600	12,800	13,000	11,400
65	14,000	14,000	13,800	13,300	12,650	12,000	12,200	12,400	12,800	11,400
70	12,600	12,550	12,000	11,450	10,950	11,600	11,800	11,800	11,900	11,400
75	11,100	11,100	10,550	10,050	9,470	11,000	11,200	11,400	11,150	10,700
80	9,840	9,810	9,290	8,790	8,180	10,400	10,500	10,100	9,760	9,290
85	8,710	8,680	8,160	7,670	7,070	9,180	9,280	8,910	8,530	8,060
90	7,730	7,700	7,190	6,700	6,110	8,090	8,200	7,830	7,460	6,990
95	6,870	6,830	6,330	5,840	5,260		7,240	6,870	6,510	6,040
100	6,110	6,070	5,560	5,090	4,500		6,380	6,030	5,670	5,200
105	5,430	5,390	4,890	4,410	3,830			5,270	4,910	4,450
110	4,830	4,780	4,280	3,810	3,230			4,580	4,230	3,770
115		4,230	3,730	3,260	2,680				3,620	3,160
120		3,740	3,230	2,770	2,190				3,050	2,600
125			2,780	2,320	1,740					2,080
130			2,370	1,910	1,330					1,610
135			2,000	1,530						
140				1,180						
145										

TMS900E

GROVE®

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

load charts

89'-142' ft
 56 ft
 12,900 lbs
 100%
 24'-0" 360

25

Feet	56' Hydraulic Bi-Fold Swingaway					56' Hydraulic Bi-Fold Swingaway				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000	9,800						
35	11,000	11,000	11,000	9,800						
40	11,000	11,000	11,000	9,800	8,200					
45	11,000	11,000	11,000	9,800	8,200					
50	11,000	11,000	11,000	9,800	8,200					
55	10,600	11,000	11,000	9,800	8,200	7,000	7,000			
60	10,200	10,600	10,800	9,800	8,200	6,800	6,800	7,000		
65	9,600	10,000	10,200	9,800	8,200	6,600	6,800	6,800		
70	9,200	9,600	9,800	9,600	8,200	6,400	6,600	6,600	6,600	
75	8,800	9,200	9,400	9,600	8,200	6,400	6,400	6,400	6,400	6,400
80	8,400	8,800	8,800	9,000	8,200	6,200	6,200	6,400	6,400	6,400
85	8,000	8,200	8,400	8,460	7,880	6,000	6,200	6,200	6,200	6,200
90	7,600	7,800	7,970	7,460	6,880	6,000	6,000	6,200	6,200	6,200
95	7,200	7,600	7,080	6,580	6,000	6,000	6,000	6,000	6,000	6,000
100	6,940	6,810	6,300	5,810	5,230	5,800	6,000	6,000	6,000	6,000
105	6,240	6,110	5,600	5,110	4,540	5,800	5,800	5,800	6,000	5,930
110	5,610	5,480	4,970	4,490	3,920	5,800	5,800	5,800	5,580	5,180
115	5,040	4,910	4,410	3,920	3,350		5,550	5,230	4,910	4,500
120	4,530	4,400	3,890	3,410	2,850		4,920	4,610	4,290	3,890
125	4,060	3,930	3,420	2,950	2,380			4,040	3,730	3,320
130	3,630	3,500	3,000	2,520	1,960			3,510	3,210	2,800
135	3,110	2,610	2,130	1,570					2,720	2,320
140	2,750	2,240	1,770	1,210					2,270	1,880
145		1,910	1,440							1,460
150		1,600	1,140							1,070
155			1,320							
160										

89'-142' ft
 72 ft
 12,900 lbs
 100%
 24'-0" 360

Feet	16' Insert+56' Hydraulic Bi-Fold Swingaway Extension					16' Insert+56' Hydraulic Bi-Fold Swingaway Extension				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
35	11,000									
40	11,000	10,800	9,800							
45	11,000	10,800	9,800	8,000						
50	11,000	10,600	9,800	8,000	6,600					
55	10,600	10,400	9,600	8,000	6,600					
60	10,200	10,200	9,600	8,000	6,600	6,800				
65	9,600	9,800	9,400	8,000	6,600	6,600				
70	9,200	9,400	9,200	8,000	6,600	6,600	6,600	6,600	6,600	
75	8,800	9,000	9,000	8,000	6,600	6,400	6,400	6,400	6,400	6,200
80	8,400	8,600	8,600	8,000	6,600	6,200	6,400	6,400	6,400	6,200
85	8,000	8,040	7,680	7,680	6,600	6,200	6,200	6,200	6,200	6,200
90	7,800	7,030	7,200	7,200	6,600	6,000	6,200	6,200	6,200	6,200
95	6,960	6,600	6,800	6,530	5,960	6,000	6,000	6,000	6,200	6,000
100	6,170	6,400	6,250	5,750	5,170	5,800	6,000	6,000	6,000	6,000
105	5,800	6,000	5,550	5,050	4,470	5,800	5,800	5,800	6,000	5,970
110	5,400	5,430	4,910	4,420	3,840	5,720	5,800	5,800	5,640	5,220
115	5,030	4,850	4,340	3,850	3,280	5,200	5,400	5,310	4,960	4,540
120	4,510	4,330	3,820	3,330	2,760	5,000	5,040	4,690	4,340	3,920
125	4,030	3,860	3,350	2,860	2,300	4,490	4,470	4,120	3,780	3,360
130	3,600	3,420	2,920	2,430	1,870		3,950	3,600	3,260	2,840
135	3,200	3,030	2,520	2,040	1,480		3,450	3,120	2,780	2,360
140	2,840	2,660	2,150	1,670	1,110			2,660	2,330	1,910
145	2,500	2,320	1,820	1,340				2,240	1,910	1,500
150	2,200	2,010	1,500	1,030					1,530	1,110
155		1,720	1,220						1,160	
160		1,460								
165										

load charts

26



89-142 ft



88 ft
(32 + 56 ft)



12,900 lbs



100%
24'-0"



360



Pounds

Feet

32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension

5 Deg Fixed Offset Angle

32' Insert + 56' Hydraulic Bi-Fold Swingaway Extension

40 Deg Fixed Offset Angle

	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
40	9,600	9,200									
45	9,200	9,000	7,800								
50	9,000	8,600	7,800	6,400	5,000						
55	8,600	8,400	7,800	6,400	5,000						
60	8,200	8,200	7,600	6,400	5,000						
65	7,800	7,800	7,400	6,400	5,000						
70	7,400	7,600	7,200	6,400	5,000		6,200	6,200			
75	7,200	7,200	7,000	6,400	5,000		6,000	6,000	6,000		
80	6,800	7,000	6,800	6,400	5,000		5,800	5,800	5,800	5,600	5,000
85	6,600	6,600	6,600	6,200	5,000		5,600	5,600	5,600	5,600	5,000
90	6,200	6,400	6,400	6,200	5,000		5,400	5,400	5,400	5,400	5,000
95	6,000	6,200	5,920	5,870	5,000		5,200	5,400	5,400	5,200	5,000
100	5,800	5,500	5,600	5,600	5,000		5,200	5,200	5,200	5,200	5,000
105	5,580	5,000	5,200	5,050	4,490		5,000	5,000	5,200	5,000	5,000
110	4,940	4,800	4,920	4,420	3,850		4,800	5,000	5,000	5,000	4,800
115	4,400	4,600	4,340	3,840	3,280		4,800	4,700	4,800	4,800	4,630
120	4,200	4,320	3,820	3,320	2,760		4,600	4,400	4,600	4,430	4,010
125	3,800	3,850	3,340	2,850	2,290		4,070	4,200	4,230	3,860	3,440
130	3,600	3,410	2,900	2,420	1,860		3,800	4,000	3,710	3,340	2,920
135	3,210	3,010	2,500	2,020	1,460		3,600	3,590	3,220	2,860	2,440
140	2,840	2,640	2,130	1,650	1,100		3,210	3,140	2,780	2,420	1,990
145	2,500	2,300	1,790	1,310			2,730	2,360	2,010	1,580	
150	2,190	1,980	1,480	1,000			2,330	1,980	1,620	1,260	
155	1,900	1,690	1,190					1,610	1,260		
160	1,630	1,420						1,270			
165		1,160									
170											



89-142 ft



33 ft



12,900 lbs



100%
24'-0"



360



Pounds

Feet

33' Manual Offset Bi-Fold Swingaway

0 Deg Fixed Offset Angle

33' Manual Offset Bi-Fold Swingaway

40 Deg Fixed Offset Angle

	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
20	22,000	22,000									
25	22,000	22,000	22,000								
30	22,000	22,000	22,000	17,400	13,600						
35	22,000	22,000	21,800	17,400	13,600						
40	22,000	22,000	21,400	17,400	13,600		14,000	14,200			
45	21,600	22,000	21,000	17,400	13,600		13,600	13,800	13,800		
50	19,800	20,100	19,800	17,400	13,600		13,200	13,400	13,600	13,600	11,400
55	17,800	16,800	16,500	16,700	13,600		12,800	13,000	13,200	13,200	11,400
60	15,150	15,200	15,200	15,150	13,600		12,400	12,600	12,800	13,000	11,400
65	14,000	14,000	13,600	13,000	12,350		12,000	12,200	12,400	12,800	11,400
70	12,400	12,350	11,800	11,250	10,700		11,600	11,800	11,800	11,900	11,400
75	10,950	10,950	10,400	9,870	9,240		11,000	11,200	11,400	11,50	10,700
80	9,710	9,660	9,120	8,600	7,980		10,400	10,500	10,100	9,760	9,290
85	8,600	8,550	8,020	7,500	6,890		9,180	9,280	8,910	8,530	8,060
90	7,640	7,580	7,050	6,550	5,940		8,090	8,200	7,830	7,460	6,990
95	6,790	6,740	6,210	5,710	5,100			7,240	6,870	6,510	6,040
100	6,040	5,990	5,460	4,960	4,360			6,380	6,030	5,670	5,200
105	5,380	5,320	4,790	4,300	3,700				5,270	4,910	4,450
110	4,800	4,720	4,190	3,710	3,110				4,580	4,230	3,770
115		4,190	3,660	3,170	2,580					3,620	3,160
120		3,710	3,170	2,690	2,090					3,050	2,600
125			2,730	2,250	1,650						2,080
130			2,330	1,850	1,250						1,610
135			1,970	1,480							
140				1,140							

TMS900E

GROVE®

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load charts

89'-142' ft
 56 ft
 12,900 lbs
 100%
 360

Pounds

27

Feet	56' Manual Bi-Fold Swingaway					56' Manual Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
25	11,000										
30	11,000	11,000	11,000								
35	11,000	11,000	11,000	9,800							
40	11,000	11,000	11,000	9,800	7,800						
45	11,000	11,000	11,000	9,800	7,800						
50	11,000	11,000	11,000	9,800	7,800						
55	10,600	11,000	11,000	9,800	7,800	7,000	7,000				
60	10,200	10,600	10,800	9,800	7,800	6,800	6,800	7,000			
65	9,600	10,000	10,200	9,800	7,800	6,600	6,800	6,800			
70	9,200	9,600	9,800	9,600	7,800	6,400	6,600	6,600	6,600		
75	8,800	9,200	9,400	9,600	7,800	6,400	6,400	6,400	6,400	6,400	
80	8,400	8,690	8,800	8,800	7,800	6,200	6,200	6,400	6,400	6,400	
85	8,000	8,200	8,400	8,150	7,530	6,000	6,200	6,200	6,200	6,200	
90	7,600	7,800	7,710	7,180	6,560	6,000	6,000	6,200	6,200	6,200	
95	7,200	7,390	6,850	6,320	5,710	6,000	6,000	6,000	6,000	6,000	
100	6,770	6,620	6,080	5,560	4,960	5,800	6,000	6,000	6,000	6,000	
105	6,090	5,940	5,400	4,890	4,290	5,800	5,800	5,800	6,000	5,930	
110	5,480	5,330	4,790	4,280	3,680	5,800	5,800	5,800	5,580	5,180	
115	4,930	4,780	4,240	3,740	3,140	5,550	5,230	4,910	4,500		
120	4,440	4,280	3,740	3,240	2,650	4,920	4,610	4,290	3,890		
125	3,990	3,830	3,290	2,790	2,200		4,040	3,730	3,320		
130	3,580	3,410	2,880	2,380	1,790		3,510	3,210	2,800		
135		3,040	2,500	2,000	1,420			2,720	2,320		
140		2,690	2,150	1,660	1,070			2,270	1,880		
145			1,830	1,340					1,460		
150			1,540	1,040					1,070		
155			1,270								

Feet	16' Insert + 56' Manual Offset Bi-Fold Swingaway					16' Insert + 56' Manual Offset Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
30	11,000										
35	11,000	11,000									
40	11,000	10,800	9,400	8,000							
45	11,000	10,800	9,400	8,000	6,400						
50	11,000	10,600	9,400	8,000	6,400						
55	10,600	10,400	9,400	8,000	6,400						
60	10,200	10,200	9,400	8,000	6,400	6,800					
65	9,600	9,800	9,400	8,000	6,400	6,600					
70	9,200	9,400	9,200	8,000	6,400	6,600	6,600	6,600			
75	8,800	9,000	9,000	8,000	6,400	6,400	6,400	6,400	6,200		
80	8,400	8,600	8,450	8,000	6,400	6,200	6,400	6,400	6,200		
85	8,000	7,710	7,600	7,320	6,400	6,200	6,200	6,200	6,200		
90	7,590	7,000	7,200	7,000	6,400	6,000	6,200	6,200	6,200		
95	6,720	6,600	6,790	6,260	5,650	6,000	6,000	6,000	6,000		
100	6,000	6,400	6,020	5,490	4,890	5,800	6,000	6,000	6,000	6,000	
105	5,800	5,870	5,330	4,810	4,210	5,800	5,800	5,800	6,000	5,970	
110	5,400	5,250	4,710	4,190	3,600	5,720	5,800	5,800	5,640	5,220	
115	4,890	4,690	4,160	3,640	3,050	5,200	5,400	5,310	4,960	4,540	
120	4,380	4,190	3,650	3,140	2,550	5,000	5,040	4,690	4,340	3,920	
125	3,930	3,730	3,190	2,680	2,100	4,490	4,470	4,120	3,780	3,360	
130	3,510	3,310	2,770	2,270	1,680		3,950	3,600	3,260	2,840	
135	3,120	2,920	2,390	1,890	1,300		3,450	3,120	2,780	2,360	
140	2,780	2,570	2,040	1,540				2,660	2,330	1,910	
145	2,460	2,250	1,710	1,210				2,240	1,910	1,500	
150	2,170	1,950	1,410						1,530	1,110	
155		1,670	1,130							1,160	
160		1,420									

load charts

28



89-142 ft



88 ft
(32 + 56 ft)



12,900 lbs



100%
24'-0"



360



Pounds

Feet	32' Insert +56' Manual Offset Bi-Fold Swingaway					32' Insert +56' Manual Offset Bi-Fold Swingaway					
	0 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
35	10,000										
40	9,600	9,000	7,800								
45	9,200	9,000	7,800	6,400							
50	9,000	8,600	7,800	6,400	4,800						
55	8,600	8,400	7,800	6,400	4,800						
60	8,200	8,200	7,600	6,400	4,800						
65	7,800	7,800	7,400	6,400	4,800						
70	7,400	7,600	7,200	6,400	4,800	6,200	6,200				
75	7,200	7,200	7,000	6,400	4,800	6,000	6,000	6,000			
80	6,800	7,000	6,800	6,400	4,800	5,800	5,800	5,800	5,600	5,000	
85	6,600	6,600	6,600	6,200	4,800	5,600	5,600	5,600	5,600	5,000	
90	6,200	6,400	6,400	6,200	4,800	5,400	5,400	5,400	5,400	5,000	
95	6,000	6,010	5,800	5,600	4,800	5,200	5,400	5,400	5,200	5,000	
100	5,800	5,400	5,600	5,490	4,800	5,200	5,200	5,200	5,200	5,000	
105	5,370	5,000	5,200	4,800	4,210	5,000	5,000	5,000	5,000	5,000	
110	4,750	4,800	4,700	4,180	3,600	4,800	5,000	5,000	5,000	4,800	
115	4,400	4,600	4,140	3,630	3,040	4,800	4,700	4,800	4,800	4,630	
120	4,200	4,160	3,630	3,120	2,540	4,600	4,400	4,600	4,430	4,010	
125	3,800	3,700	3,170	2,660	2,080	4,070	4,200	4,230	3,860	3,440	
130	3,500	3,270	2,750	2,240	1,660	3,800	4,000	3,710	3,340	2,920	
135	3,110	2,880	2,360	1,850	1,280	3,600	3,590	3,220	2,860	2,440	
140	2,750	2,520	2,000	1,500		3,210	3,140	2,780	2,420	1,990	
145	2,420	2,190	1,670	1,170			2,730	2,360	2,010	1,580	
150	2,120	1,890	1,360				2,330	1,980	1,620	1,200	
155	1,840	1,610	1,080					1,610	1,260		
160	1,580	1,350						1,270			
165		1,100									
170											

TMS900E

GROVE®

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load charts

37'-142' ft
 Fixed lengths
 8,600 lbs
 100%
 360°

Pounds

29

Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
10	154,000	136,000	129,000	123,000	81,000				
15	107,500	109,500	105,000	99,000	81,000	59,000			
20	75,750	78,150	78,400	78,000	78,850	57,000	42,400	32,800	
25	54,900	58,200	59,250	59,050	57,750	51,000	42,400	32,800	26,600
30	44,000	45,150	45,000	44,350	45,400	39,600	33,800	26,600	
35		33,400	34,550	35,000	35,700	34,750	34,000	32,000	26,600
40			27,650	28,750	28,600	28,950	28,050	27,800	26,600
45			22,400	23,400	23,400	23,550	23,050	22,550	21,950
50			18,400	19,450	19,500	19,650	19,150	18,700	18,050
55				16,400	16,450	16,600	16,100	15,650	15,050
60				14,000	14,050	14,150	13,700	13,250	12,650
65				12,000	12,100	12,200	11,750	11,350	10,800
70					10,500	10,650	10,200	9,820	9,240
75					9,140	9,300	8,880	8,470	7,900
80						8,140	7,720	7,320	6,750
85						7,110	6,720	6,320	5,770
90						6,220	5,850	5,460	4,910
95							5,080	4,700	4,150
100							4,380	4,030	3,480
105								3,420	2,880
110								2,870	2,350
115								2,370	1,870
120									1,420
125									1,010

89-142 ft
 33 ft
 8,600 lbs
 100%
 360°

Pounds

Feet	33' Hydraulic Bi-Fold Swingaway					33' Hydraulic Bi-Fold Swingaway					
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle					
	89.3	102.4	115.5	128.6	141.8		89.3	102.4	115.5	128.6	141.8
20	22,000										
25	22,000	22,000									
30	22,000	22,000	22,000	17,800							
35	22,000	22,000	21,800	17,800	13,800						
40	22,000	22,000	21,400	17,800	13,800	14,000	14,200				
45	21,600	22,000	21,000	17,800	13,800	13,600	13,800	13,800			
50	19,400	18,400	18,150	17,800	13,800	13,200	13,400	13,600	13,600	11,400	
55	16,250	16,200	16,400	16,200	13,800	12,800	13,000	13,200	13,200	11,400	
60	14,950	14,900	14,350	13,800	13,250	12,400	12,600	12,800	13,000	11,400	
65	12,900	12,850	12,300	11,800	11,250	12,000	12,200	12,200	12,350	11,400	
70	11,200	11,250	10,750	10,200	9,610	11,600	11,600	11,750	11,350	11,000	
75	9,880	9,850	9,330	8,820	8,210	10,600	10,650	10,300	9,920	9,450	
80	8,670	8,640	8,120	7,620	7,010	9,270	9,350	8,980	8,590	8,120	
85	7,620	7,590	7,080	6,580	5,980	8,100	8,190	7,820	7,440	6,970	
90	6,710	6,680	6,170	5,680	5,090	7,070	7,180	6,810	6,440	5,970	
95	5,910	5,880	5,370	4,890	4,300		6,280	5,920	5,550	5,080	
100	5,200	5,170	4,660	4,180	3,600		5,480	5,120	4,760	4,300	
105	4,580	4,540	4,030	3,560	2,980		4,410	4,060	3,590		
110	4,020	3,970	3,470	3,000	2,420		3,770	3,420	2,960		
115	3,460	3,460	2,960	2,490	1,910			2,850	2,380		
120	3,000	3,000	2,500	2,030	1,460			2,320	1,860		
125		2,080		1,610	1,040				1,380		
130		1,700		1,230							
135		1,350									
140											

TMS900E

load charts

30



89-142 ft



56 ft



8,600 lbs



100%
24'-0"



360



Pounds

Feet	56' Hydraulic Bi-Fold Swingaway 5 Deg Fixed Offset Angle					56' Hydraulic Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000							
35	11,000	11,000	11,000	9,800						
40	11,000	11,000	11,000	9,800	8,200					
45	11,000	11,000	11,000	9,800	8,200					
50	11,000	11,000	11,000	9,800	8,200					
55	10,600	11,000	11,000	9,800	8,200	7,000	7,000			
60	10,200	10,600	10,800	9,800	8,200	6,800	6,800	7,000		
65	9,600	10,000	10,200	9,800	8,200	6,600	6,800	6,800		
70	9,200	9,600	9,800	9,600	8,200	6,400	6,600	6,600	6,600	
75	8,800	9,100	9,200	9,000	8,200	6,400	6,400	6,400	6,400	6,400
80	8,400	8,600	8,800	8,440	7,850	6,200	6,200	6,400	6,400	6,400
85	7,800	8,200	7,880	7,370	6,790	6,000	6,200	6,200	6,200	6,200
90	7,600	7,460	6,950	6,440	5,860	6,000	6,000	6,200	6,200	6,200
95	6,770	6,640	6,120	5,630	5,050	6,000	6,000	6,000	6,000	6,000
100	6,040	5,910	5,390	4,900	4,330	5,800	5,800	6,000	6,000	5,850
105	5,380	5,250	4,740	4,260	3,680	5,800	5,800	5,800	5,470	5,070
110	4,800	4,670	4,160	3,680	3,100	5,370	5,420	5,100	4,770	4,370
115	4,270	4,140	3,630	3,150	2,580	4,780	4,460	4,140	3,730	
120	3,790	3,660	3,160	2,680	2,110	4,190	3,870	3,560	3,150	
125	3,360	3,230	2,720	2,250	1,680		3,340	3,020	2,620	
130	2,960	2,830	2,320	1,850	1,290		2,830	2,530	2,130	
135	2,460	1,960	1,490					2,080	1,680	
140		2,130	1,620	1,150				1,650	1,260	
145			1,310							
150			1,030							
155										



89-142 ft



33 ft



8,600 lbs



100%
24'-0"



360



Pounds

Feet	33' Manual Bi-Fold Swingaway 0 Deg Fixed Offset Angle					33' Manual Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
20	22,000	22,000								
25	22,000	22,000	22,000							
30	22,000	22,000	22,000	17,400	13,600					
35	22,000	22,000	21,800	17,400	13,600					
40	22,000	22,000	21,400	17,400	13,600	14,000	14,200			
45	21,600	22,000	21,000	17,400	13,600	13,600	13,800	13,800		
50	19,050	18,000	17,700	17,400	13,600	13,200	13,400	13,600	13,600	11,400
55	16,000	16,200	16,400	15,950	13,600	12,800	13,000	13,200	13,200	11,400
60	14,750	14,650	14,100	13,500	12,850	12,400	12,600	12,800	13,000	11,400
65	12,700	12,650	12,100	11,500	10,950	12,000	12,200	12,200	12,350	11,400
70	11,100	11,050	10,500	10,000	9,360	11,600	11,600	11,750	11,350	11,000
75	9,730	9,690	9,140	8,610	7,980	10,600	10,650	10,300	9,920	9,450
80	8,540	8,490	7,950	7,430	6,810	9,270	9,350	8,980	8,590	8,120
85	7,510	7,460	6,930	6,410	5,800	8,100	8,190	7,820	7,440	6,970
90	6,620	6,570	6,030	5,530	4,920	7,070	7,180	6,810	6,440	5,970
95	5,830	5,780	5,250	4,750	4,140		6,280	5,920	5,550	5,080
100	5,140	5,080	4,560	4,060	3,460		5,480	5,120	4,760	4,300
105	4,530	4,460	3,940	3,450	2,850		4,410	4,060	3,590	
110	3,990	3,910	3,380	2,900	2,300		3,770	3,420	2,960	
115		3,420	2,890	2,400	1,800			2,850	2,380	
120		2,970	2,440	1,950	1,360			2,320	1,860	
125			2,030	1,540					1,380	
130			1,660	1,170						
135			1,330							
140										

TMS900E

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GROVE®

load charts



89'-142' ft



56 ft



8,600 lbs

100%
24'-0"

360



Pounds

31

Feet	56' Manual Bi-Fold Swingaway 0 Deg Fixed Offset Angle					56' Manual Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
25	11,000									
30	11,000	11,000	11,000	9,800						
35	11,000	11,000	11,000	9,800	7,800					
40	11,000	11,000	11,000	9,800	7,800					
45	11,000	11,000	11,000	9,800	7,800					
50	11,000	11,000	11,000	9,800	7,800					
55	10,600	11,000	11,000	9,800	7,800	7,000	7,000			
60	10,200	10,600	10,800	9,800	7,800	6,800	6,800	7,000		
65	9,600	10,000	10,200	9,800	7,800	6,600	6,800	6,800		
70	9,200	9,600	9,760	9,600	7,800	6,400	6,600	6,600	6,600	
75	8,800	8,800	9,200	8,800	7,800	6,400	6,400	6,400	6,400	6,400
80	8,400	8,600	8,650	8,100	7,470	6,200	6,200	6,400	6,400	6,400
85	7,800	8,150	7,600	7,060	6,440	6,000	6,200	6,200	6,200	6,200
90	7,390	7,240	6,690	6,160	5,540	6,000	6,000	6,200	6,200	6,200
95	6,580	6,430	5,890	5,370	4,760	6,000	6,000	6,000	6,000	6,000
100	5,870	5,720	5,180	4,660	4,060	5,800	5,800	6,000	6,000	5,850
105	5,240	5,090	4,550	4,030	3,430	5,800	5,800	5,800	5,470	5,070
110	4,670	4,520	3,980	3,470	2,870	5,370	5,420	5,100	4,770	4,370
115	4,160	4,010	3,470	2,970	2,370	4,780	4,460	4,140	3,730	
120	3,700	3,540	3,010	2,510	1,910	4,190	3,870	3,560	3,150	
125	3,280	3,120	2,590	2,090	1,500			3,340	3,020	2,620
130	2,910	2,740	2,210	1,710	1,120			2,830	2,530	2,130
135		2,390	1,850	1,360					2,080	1,680
140			2,070	1,530	1,040				1,650	1,260
145				1,240						
150										

TMS900E

load charts

32

 37'-142' ft
 4,300 lbs
 100%
24'-0"

 360

Feet	36.8	49.9	63.0	76.1	89.3	102.4	115.5	128.6	141.8
10	152,000	136,000	129,000	123,000	81,000				
15	106,000	108,000	105,000	99,000	81,000	59,000			
20	72,050	74,450	75,000	76,550	75,150	57,000	42,400	34,000	
25	52,100	55,400	56,400	56,250	54,950	51,000	42,400	34,000	26,600
30	40,350	41,500	41,400	42,750	41,800	39,600	33,800	26,600	
35	30,400	31,800	33,000	32,800	32,000	32,300	30,450	26,600	
40	24,850	25,950	25,750	26,100	25,600	25,050	24,350		
45	19,950	21,000	21,050	21,200	20,750	20,200	19,550		
50	16,350	17,350	17,400	17,550	17,100	16,600	15,950		
55		14,550	14,600	14,750	14,300	13,800	13,200		
60		12,350	12,400	12,500	12,050	11,600	11,100		
65		10,500	10,600	10,750	10,350	9,930	9,340		
70			9,150	9,290	8,870	8,450	7,870		
75			7,880	8,040	7,620	7,210	6,640		
80				6,970	6,550	6,150	5,590		
85				6,020	5,630	5,230	4,680		
90					5,200	4,830	4,440	3,890	
95						4,120	3,740	3,190	
100						3,480	3,120	2,580	
105							2,570	2,030	
110							2,060	1,540	
115							1,600	1,100	
120									

 37'-142' ft
 33 ft
 4,300 lbs
 100%
24'-0"

Feet	33' Hydraulic Bi-Fold Swingaway					33' Hydraulic Bi-Fold Swingaway				
	5 Deg Fixed Offset Angle					40 Deg Fixed Offset Angle				
89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8	
20	22,000									
25	22,000	22,000								
30	22,000	22,000	22,000	17,800	13,800					
35	22,000	22,000	21,800	17,800	13,800	14,000	14,200			
40	22,000	22,000	21,400	17,800	13,800	13,600	13,800	13,800		
45	21,100	20,100	19,800	17,800	13,800	13,200	13,400	13,600	13,600	11,400
50	17,300	17,400	17,400	16,250	13,800	12,800	13,000	13,200	13,200	11,400
55	15,650	15,600	15,000	14,450	13,800	12,800	13,000	13,200	13,200	11,400
60	13,300	13,250	12,700	12,150	11,500	12,400	12,600	12,700	12,950	11,400
65	11,400	11,350	10,900	10,400	9,780	12,000	12,000	12,100	11,700	11,250
70	9,940	9,910	9,380	8,860	8,240	10,800	10,850	10,500	10,100	9,640
75	8,620	8,590	8,070	7,560	6,950	9,350	9,430	9,050	8,660	8,190
80	7,500	7,470	6,950	6,450	5,850	8,100	8,190	7,810	7,430	6,950
85	6,530	6,500	5,990	5,490	4,900	7,010	7,110	6,730	6,360	5,880
90	5,690	5,660	5,150	4,660	4,070	6,050	6,160	5,790	5,420	4,950
95	4,950	4,920	4,410	3,930	3,340	5,330	4,960	4,590	4,120	
100	4,300	4,270	3,760	3,280	2,700	4,580	4,220	3,860	3,390	
105	3,720	3,680	3,180	2,700	2,120		3,560	3,200	2,740	
110	3,210	3,160	2,660	2,190	1,610		2,960	2,610	2,150	
115	2,690	2,190	1,720	1,140			2,070	1,610		
120	2,270		1,760	1,300			1,580	1,130		

135

TMS900E

GROVE®

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load charts

89'-142' ft
 56 ft
 4,300 lbs
 100%
 24'-0"
 360

Pounds

33

Feet	56' Hydraulic Bi-Fold Swingaway 5 Deg Fixed Offset Angle					56' Hydraulic Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
30	11,000	11,000	11,000	9,800						
35	11,000	11,000	11,000	9,800	8,200					
40	11,000	11,000	11,000	9,800	8,200					
45	11,000	11,000	11,000	9,800	8,200					
50	11,000	11,000	11,000	9,800	8,200					
55	10,600	11,000	11,000	9,800	8,200	7,000	7,000			
60	10,200	10,600	10,800	9,800	8,200	6,800	6,800	7,000		
65	9,600	10,000	10,200	9,800	8,200	6,600	6,800	6,800		
70	9,200	9,200	9,600	9,000	8,200	6,400	6,600	6,600	6,600	
75	8,690	8,800	8,940	8,420	7,820	6,400	6,400	6,400	6,400	6,400
80	8,200	8,310	7,790	7,270	6,680	6,200	6,200	6,400	6,400	6,400
85	7,450	7,320	6,800	6,290	5,700	6,000	6,200	6,200	6,200	6,200
90	6,580	6,450	5,930	5,430	4,840	6,000	6,000	6,200	6,200	6,200
95	5,810	5,680	5,170	4,670	4,090	6,000	6,000	6,000	6,000	5,770
100	5,130	5,000	4,490	4,000	3,420	5,800	5,800	5,680	5,350	4,950
105	4,530	4,400	3,890	3,400	2,830	5,240	5,280	4,950	4,620	4,220
110	3,990	3,860	3,350	2,870	2,290	4,560	4,610	4,290	3,960	3,560
115	3,500	3,370	2,860	2,380	1,810		4,010	3,690	3,370	2,960
120	3,050	2,930	2,420	1,940	1,380		3,450	3,140	2,820	2,420
125	2,650	2,520	2,020	1,540				2,630	2,320	1,920
130	2,290	2,160	1,650	1,180				2,160	1,860	1,460
135		1,820	1,310						1,430	1,030
140		1,510	1,000							1,030
145										

89'-142' ft
 33 ft
 4,300 lbs
 100%
 24'-0"
 360

Pounds

Feet	33' Manual Bi-Fold Swingaway 0 Deg Fixed Offset Angle					33' Manual Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
20	22,000	22,000								
25	22,000	22,000	22,000							
30	22,000	22,000	22,000	17,400	13,600					
35	22,000	22,000	21,800	17,400	13,600					
40	22,000	22,000	21,400	17,400	13,600	14,000	14,200			
45	20,700	19,600	19,300	17,400	13,600	13,600	13,800	13,800		
50	17,200	17,400	17,400	16,000	13,600	13,200	13,400	13,600	13,600	11,400
55	15,350	15,300	14,700	14,100	13,400	12,800	13,000	13,200	13,200	11,400
60	13,050	13,000	12,450	11,850	11,300	12,400	12,600	12,700	12,950	11,400
65	11,300	11,250	10,700	10,150	9,490	12,000	12,000	12,100	11,700	11,250
70	9,760	9,720	9,170	8,630	7,990	10,800	10,850	10,500	10,100	9,640
75	8,470	8,430	7,880	7,350	6,720	9,350	9,430	9,050	8,660	8,190
80	7,370	7,320	6,780	6,260	5,640	8,100	8,190	7,810	7,430	6,950
85	6,420	6,370	5,840	5,330	4,710	7,010	7,110	6,730	6,360	5,880
90	5,600	5,550	5,020	4,510	3,900	6,050	6,160	5,790	5,420	4,950
95	4,880	4,820	4,290	3,790	3,190		5,330	4,960	4,590	4,120
100	4,240	4,180	3,650	3,160	2,550		4,580	4,220	3,860	3,390
105	3,680	3,610	3,080	2,590	1,990			3,560	3,200	2,740
110	3,180	3,100	2,570	2,080	1,490			2,960	2,610	2,150
115		2,640	2,110	1,630	1,030			2,070	1,610	
120		2,240	1,700	1,220				1,580	1,130	
125			1,330							
130										

TMS900E

load charts

34



89-142 ft



56 ft



4,300 lbs



100%
24'-0"



360



Pounds

Feet	56' Manual Bi-Fold Swingaway 0 Deg Fixed Offset Angle					56' Manual Bi-Fold Swingaway 40 Deg Fixed Offset Angle				
	89.3	102.4	115.5	128.6	141.8	89.3	102.4	115.5	128.6	141.8
25	11,000									
30	11,000	11,000	11,000	9,800						
35	11,000	11,000	11,000	9,800	7,800					
40	11,000	11,000	11,000	9,800	7,800					
45	11,000	11,000	11,000	9,800	7,800					
50	11,000	11,000	11,000	9,800	7,800					
55	10,600	11,000	11,000	9,800	7,800	7,000	7,000			
60	10,200	10,600	10,800	9,800	7,800	6,800	6,800	7,000		
65	9,600	10,000	9,920	9,800	7,800	6,600	6,800	6,800		
70	9,200	9,200	9,600	8,800	7,800	6,400	6,600	6,600	6,600	
75	8,600	8,800	8,600	8,040	7,410	6,400	6,400	6,400	6,400	6,400
80	8,190	8,040	7,480	6,930	6,300	6,200	6,200	6,400	6,400	6,400
85	7,220	7,070	6,510	5,970	5,350	6,000	6,200	6,200	6,200	6,200
90	6,370	6,220	5,670	5,140	4,530	6,000	6,000	6,200	6,200	6,200
95	5,630	5,480	4,930	4,410	3,800	6,000	6,000	6,000	6,000	5,770
100	4,970	4,820	4,280	3,760	3,150	5,800	5,680	5,350	4,950	
105	4,380	4,230	3,690	3,180	2,580	5,240	5,280	4,950	4,620	4,220
110	3,860	3,710	3,170	2,660	2,060	4,560	4,610	4,290	3,960	3,560
115	3,390	3,240	2,700	2,190	1,600	4,010	3,690	3,370	2,960	
120	2,960	2,810	2,270	1,770	1,180	3,450	3,140	2,820	2,420	
125	2,580	2,420	1,890	1,390			2,630	2,320	1,920	
130	2,230	2,070	1,530	1,030			2,160	1,860	1,460	
135		1,750	1,210					1,430	1,030	
140		1,450							1,030	
145										

Feet	36.8					49.9				
	36.8	49.9	63.0	76.1	89.3	36.8	49.9	63.0	76.1	89.3
10	149,500	136,000	129,000	123,000	81,000					
15	104,500	106,000	105,000	99,000	81,000	59,000				
20	68,350	70,750	73,050	72,850	71,450	57,000	42,400	34,000		
25	48,800	51,800	53,150	53,000	52,150	51,000	42,400	34,000	26,600	
30		36,700	37,850	39,300	39,100	38,100	37,550	33,800	26,600	
35		26,950	28,400	29,600	29,650	29,800	29,250	28,650	26,600	
40			22,050	23,100	23,150	23,300	22,750	22,300	21,600	
45				17,550	18,600	18,650	18,800	18,300	17,800	17,150
50					14,250	15,300	15,300	15,450	15,000	14,500
55						12,700	12,750	12,900	12,450	11,950
60						10,700	10,750	10,900	10,500	10,050
65						9,040	9,140	9,280	8,850	8,430
70							7,780	7,920	7,500	7,080
75							6,620	6,780	6,350	5,940
80								5,800	5,380	4,980
85								4,940	4,540	4,150
90								4,180	3,810	3,420
95									3,160	2,780
100									2,570	2,220
105										1,710
110										1,180
115										1,240

TMS900E

GROVE®

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

Symbols glossary

	Axle load		Lattice extension
	Boom elevation		Lights
	Boom telescoping		Luffing jib
	Brakes		Main boom
	Cab		Off road
	Counterweight		Oil
	Crane functions		Outriggers
	Crane travel		Outrigger controls
	Electrical Systems		Radius
	Engine		Rotation
	Fixed swingaway		Speed
	Frame		Steering
	Fuel tank capacity		Suspension
	Gear		Swing
	Gradeability		Tele-swingaway
	Heavy duty jib		Tires
	Main hoist		Transmission
	Auxiliary hoist		Travel speed
	Hook height		



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Saris

U.S.A.

Manitowoc

Port Washington

Shady Grove

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.