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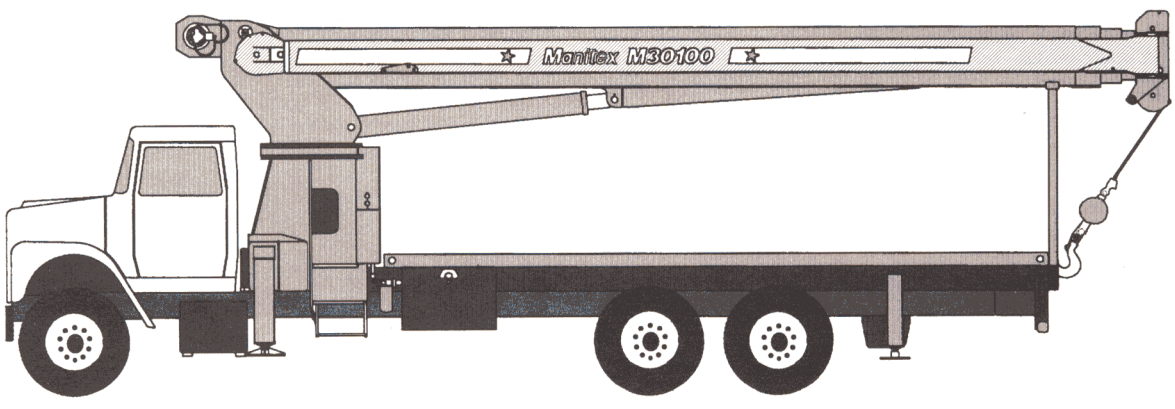
Millennium Series™ M3000 General Specifications



STANDARD EQUIPMENT

- **M30100** - 4-Section telescopic boom 30'6" to 100' (9.30m to 30.48m).
  M3077 - 3-Section telescopic boom 30'6" to 77' (9.30m to 23.47m).
- 2-Speed planetary hoist.
- 5-Ton (4.5-mt) hook and ball.
- 3-Sheave boom point.
- Anti-two-block shutoff.
- Boom hoist cylinder.
- System pressure gauge.
- 100-Gallon (379-liter) hydraulic reservoir.
- Removable boom rest.
- Finish paint in Manitex colors.
- Engine start/stop.
- Operator/service/parts manuals.
- 335' (102.11m) of 9/16" (14.3mm) EIPS IWRC wire rope.
- 372° Non-continuous rotation.
- Pedestal, turret, rotation bearing and swing system.
- Dual operator control stations.
- Load moment indicator - audio/visual warning.
- Audible outrigger/stabilizer motion alarm.
- Out-and-down rear stabilizers.
- Out-and-down front outriggers.
- 3-Section vane type hydraulic pump.
- 22' (6.71m) Subframe.
- Signal horn.

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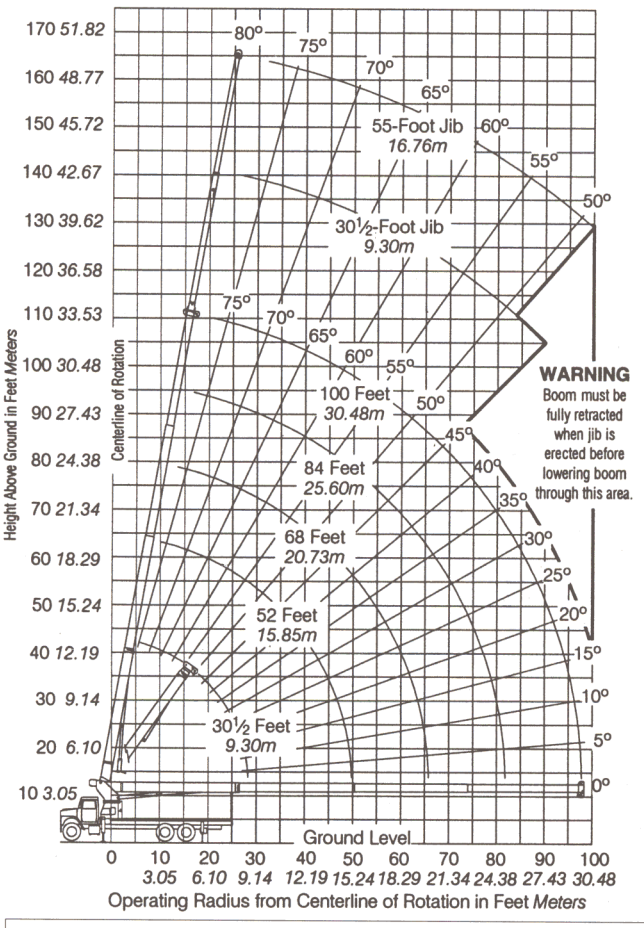
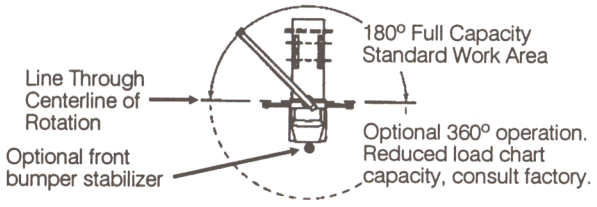
M30100 RANGE DIAGRAM



WARNING
Boom must be fully retracted when jib is erected before lowering boom through this area.

MODEL M30100

AREA OF OPERATION



ALLOWABLE LINE PULL

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	
OVERHAUL BALL	SINGLE SHEAVE BLOCK	SINGLE SHEAVE BLOCK	TRIPLE SHEAVE BLOCK	TRIPLE SHEAVE AUX. BLOCK	TRIPLE SHEAVE AUX. BLOCK	
9600 lb 4354 kg	19200 lb 8709 kg	28800 lb 13063 kg	38400 lb 17418 kg	48000 lb 21772 kg	57600 lb 26127 kg	9/16" (14.3mm) 6x25 EIPS IWRC (3.5:1 SF). 33600 lb (15241 kg) Minimum breaking strength.
9080 lb 4119 kg	18160 lb 8237 kg	27240 lb 12356 kg	36320 lb 16474 kg	45400 lb 20593 kg	54480 lb 24712 kg	5/8 "(15.9mm) Rotation resistant (5.0:1 SF). 45400 lb (20593 kg) Minimum breaking strength.
10000 lb 4536 kg	20000 lb 9072 kg	30000 lb 13608 kg	40000 lb 18144 kg	50000 lb 22680 kg	60000 lb 27216 kg	5/8" (15.9mm) 6x25 EIPS IWRC (3.5:1 SF). 35000 lb (15876 kg) Minimum breaking strength.

WARNING

ANTI-TWO BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL.

KEEP AT LEAST 3 WRAPS OF LOAD LINE ON DRUM AT ALL TIMES.

WEIGHTS

Total crane, including hydraulic fluid	27,000 lb	12,247 kg
30'6" (9.30m) Fixed length jib	1,120 lb	508 kg
55' (16.76m) Telescopic jib	1,700 lb	771 kg
15-Ton (13.6-mt) single-sheave block	430 lb	195 kg
30-Ton (27.2-mt) triple-sheave block	450 lb	204 kg
Hanger sheave for 5- and 6-part line	50 lb	23 kg
22'4" (6.81m) Steel or wood bed	2,000 lb	907 kg

DEDUCTIONS

Hanger Sheave	50 lb	23 kg
Overhaul Ball	180 lb	82 kg
Single-Sheave Load Block	430 lb	195 kg
Triple-Sheave Load Block	450 lb	204 kg
Hose Reel	260 lb	118 kg
Swing-Around Jib	See Load Rating Chart	

WARNING Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

Outriggers and stabilizers fully extended and machine level.

M30100 LOAD RATING CHART

Meets ANSI B30.5 Requirements.

Operating Radius		BOOM LOAD RATINGS															JIB LOAD RATINGS								
		30.5 Feet 9.30 Meters			52 Feet 15.85 Meters			68 Feet 20.73 Meters			84 Feet 25.60 Meters			100 Feet 30.48 Meters			30.5 Foot 9.30 Meters			30.5 Foot 9.30 Meters			55 Foot 16.76 Meters		
Feet	Meters	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg	ā	lb	kg
																	Fixed Jib			Telescopic Jib					
5.5	1.68	80°	60,000	27,216																					
8	2.44	75°	45,200	20,502																					
10	3.05	71°	38,700	17,554																					
12	3.66	67°	33,800	15,331	78°	27,100	12,292																		
15	4.58	61°	28,600	12,973	74°	25,200	11,431	79°	23,300	10,569															
20	6.10	48°	22,500	10,206	68°	19,800	8,981	74°	18,320	8,310	78°	17,040	7,729	80°	14,000	6,350									
25	7.62	32°	16,970	7,697	62°	16,220	7,357	70°	14,940	6,777	74°	13,940	6,323	78°	12,260	5,561									
30	9.14				55°	13,660	6,196	65°	12,580	5,706	71°	11,650	5,284	75°	10,680	4,844	79°	6,700	3,039	79°	6,400	2,903			
35	10.67				48°	11,140	5,053	60°	10,850	4,921	67°	10,050	4,559	72°	9,280	4,209	76°	6,200	2,812	76°	5,850	2,654	80°	4,000	1,814
40	12.19				39°	8,650	3,924	55°	8,790	3,987	63°	8,700	3,946	69°	8,110	3,679	74°	5,630	2,554	74°	5,250	2,381	78°	3,850	1,746
45	13.72				28°	6,750	3,062	49°	6,910	3,134	59°	7,030	3,189	65°	7,080	3,211	72°	5,060	2,295	72°	4,670	2,118	76°	3,700	1,678
50	15.24							43°	5,500	2,495	55°	5,630	2,554	62°	5,700	2,585	70°	4,560	2,068	70°	4,160	1,887	74°	3,550	1,610
55	16.76							36°	4,400	1,996	50°	4,530	2,055	59°	4,610	2,091	67°	4,130	1,873	67°	3,710	1,683	72°	3,310	1,501
60	18.29							27°	3,530	1,601	46°	3,650	1,656	55°	3,740	1,696	65°	3,730	1,692	65°	3,300	1,497	70°	3,020	1,370
65	19.81							12°	2,790	1,266	40°	2950	1,338	51°	3,030	1,374	63°	3,300	1,497	63°	2,860	1,297	68°	2,730	1,238
70	21.34										34°	2,350	1,066	47°	2,440	1,107	60°	2,710	1,229	60°	2,300	1,043	66°	2,480	1,125
75	22.86										27°	1,850	839	43°	1,940	880	57°	2,200	998	57°	1800	816	64°	2,240	1,016
80	24.38										15°	1,410	640	38°	1,510	685	55°	1,760	798	55°	1,370	621	62°	2,030	921
85	25.91													33°	1,130	513	52°	1,390	630	52°	990	449	60°	1,670	757
90	27.43													26°	800	363	49°	1,060	481	49°	660	299	57°	1,340	608
95	28.96																46°	770	349				55°	1,040	472
100	30.48																						53°	780	354
			600	272		350	159		270	122		220	100		180	82	Deduction for stowed fixed jib								
			900	408		530	240		400	181		330	150		290	132	Deduction for stowed telescopic jib								

This capacity chart is for reference only and must not be used for a specific serial number crane.

All load ratings above the heavy line are based on machine structural competence and do not exceed 85% of tipping. Load ratings below are stability limited and do not exceed 85% of tipping.

Do not operate a Manitex truck-mounted crane or accessories within 10' (3.05m) of live power lines.

7300034-003

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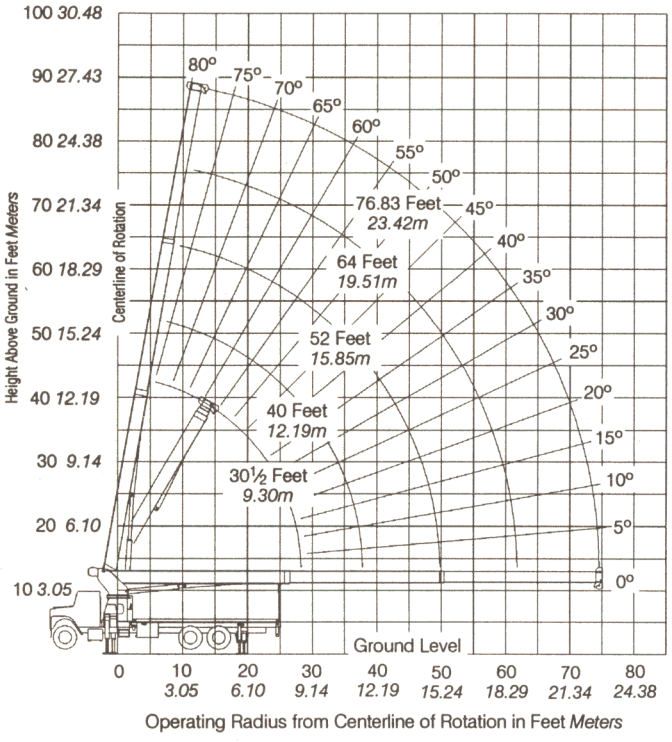
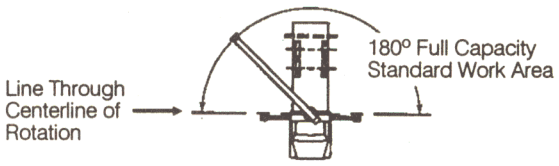
M3077 RANGE DIAGRAM



MODEL M3077

AREA OF OPERATION



ALLOWABLE LINE PULL

1 PART LINE (OVERHAUL BALL)	2 PART LINE (SINGLE SHEAVE BLOCK)	3 PART LINE (SINGLE SHEAVE BLOCK)	4 PART LINE (TRIPLE SHEAVE BLOCK)	5 PART LINE (TRIPLE SHEAVE BLOCK, AUX. BLOCK)	6 PART LINE (TRIPLE SHEAVE BLOCK, AUX. BLOCK)	
9600 lb 4354 kg	19200 lb 8709 kg	28800 lb 13063 kg	38400 lb 17418 kg	48000 lb 21772 kg	57600 lb 26127 kg	9/16" (14.3mm) 6x25 EIPS IWRC (3.5:1 SF). 33600 lb (15241 kg) Minimum breaking strength.
9080 lb 4119 kg	18160 lb 8237 kg	27240 lb 12356 kg	36320 lb 16474 kg	45400 lb 20593 kg	54480 lb 24712 kg	5/8 "(15.9mm) Rotation resistant (5.0:1 SF). 45400 lb (20593 kg) Minimum breaking strength.
10000 lb 4536 kg	20000 lb 9072 kg	30000 lb 13608 kg	40000 lb 18144 kg	50000 lb 22680 kg	60000 lb 27216 kg	5/8" (15.9mm) 6x25 EIPS IWRC (3.5:1 SF). 35000 lb (15876 kg) Minimum breaking strength.

WARNING

ANTI-TWO BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL.

KEEP AT LEAST 3 WRAPS OF LOAD LINE ON DRUM AT ALL TIMES.

WEIGHTS

Total crane, including hydraulic fluid.....24,097 lb... 10,930 kg
15-Ton (13.6-mt) single-sheave block.....430 lb..... 195 kg
30-Ton (27.2-mt) triple-sheave block .....450 lb..... 204 kg
Hanger sheave for 5- and 6-part line ..... 50 lb..... 23 kg
22'4" (6.81m) Steel or wood bed..... 2,000 lb..... 907 kg

DEDUCTIONS

Hanger Sheave ..... 50 lb. ..... 23 kg
Overhaul Ball ..... 180 lb. ..... 82 kg
Single-Sheave Load Block..... 430 lb. ..... 195 kg
Triple-Sheave Load Block..... 450 lb. ..... 204 kg
Hose Reel.....260 lb.....118 kg

WARNING Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

M3077 LOAD RATING CHART

Outriggers and stabilizers fully extended and machine level.

Meets ANSI B30.5 Requirements.

Operating Radius		BOOM LOAD RATINGS														
		30.5 Feet 9.30 Meters			40 Feet 12.19 Meters			52 Feet 15.85 Meters			64 Feet 19.51 Meters			76.83 Feet 23.42 Meters		
Feet	Meters	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg	∠	lb	kg
5.5	1.68	80°	60,000	27,216												
8	2.44	75°	46,360	21,024	79°	43,960	19,940									
10	3.05	71°	39,810	18,058	76°	37,550	17,032	80°	35,150	15,944						
12	3.66	67°	34,930	15,844	73°	32,800	14,878	78°	30,650	13,903	80°	28,910	13,113			
15	4.58	61°	29,690	13,467	69°	27,740	12,583	74°	25,940	11,766	78°	24,250	11,000	80°	22,440	10,179
20	6.10	48°	23,400	10,614	60°	22,080	10,015	68°	20,500	9,299	73°	19,250	8,732	77°	18,080	8,201
25	7.62	32°	17,930	8,133	51°	18,170	8,242	62°	17,040	7,729	68°	15,890	7,208	73°	14,900	6,759
30	9.14				40°	14,500	6,577	55°	14,500	6,577	63°	13,510	6,128	69°	12,640	5,733
35	10.67				26°	11,020	4,999	48°	11,170	5,067	58°	11,260	5,107	65°	10,950	4,967
40	12.19							39°	8,680	3,937	52°	8,760	3,973	60°	8,820	4,001
45	13.72							28°	6,920	3139	46°	7,000	3,175	56°	7,040	3,193
50	15.24										39°	5,680	2,576	51°	5,720	2,595
55	16.76										30°	4,660	2,114	45°	4,700	2,132
60	18.29										17°	3,850	1,746	39°	3,890	1,764
65	19.81													32°	3,220	1,461
70	21.34													23°	2,670	1,211

This capacity chart is for reference only and must not be used for a specific serial number cranes.

All load ratings above the heavy line are based on machine structural competence and do not exceed 85% of tipping. Load ratings below are stability limited and do not exceed 85% of tipping.

7300034-014

Do not operate a Manitex truck-mounted crane or accessories within 10' (3.05m) of live power lines.

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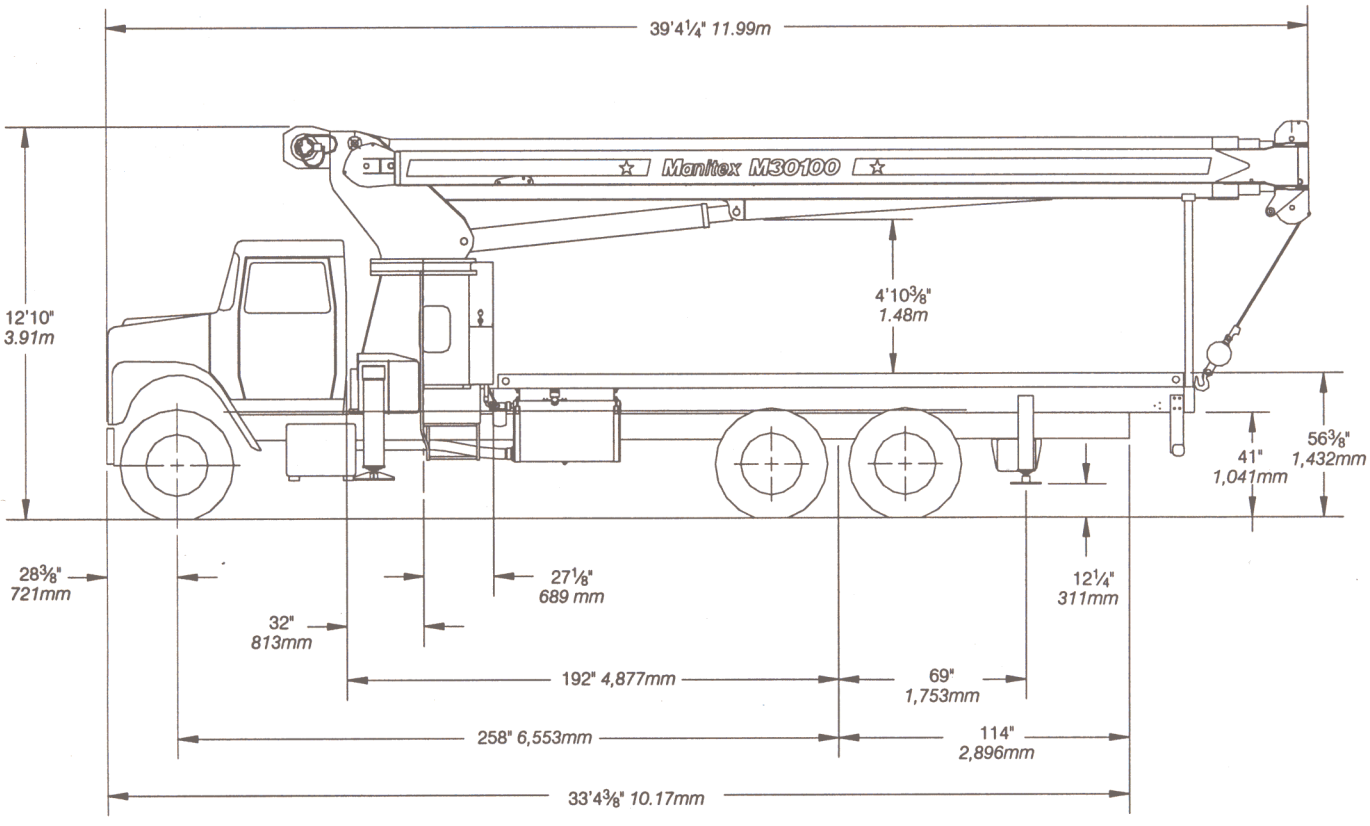
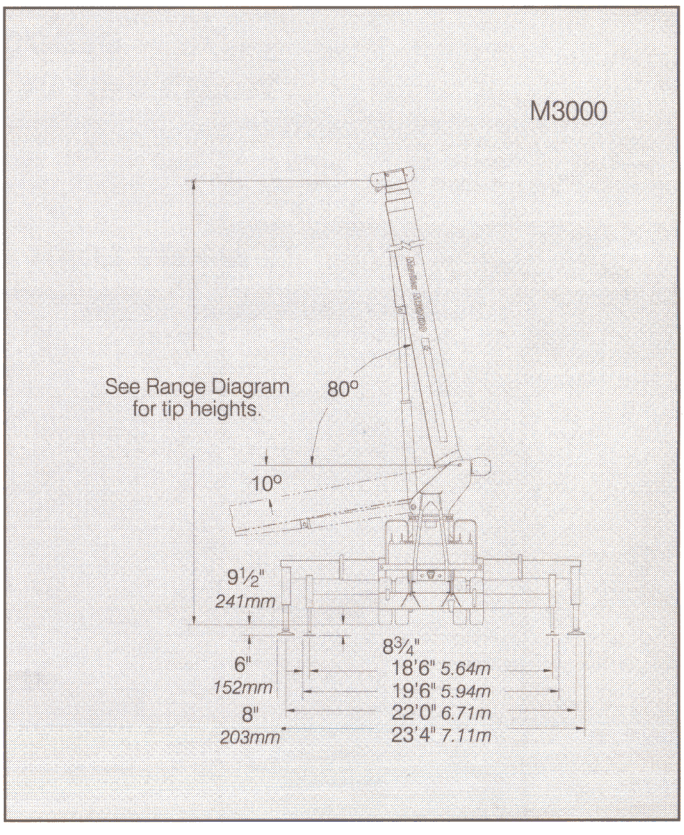
M3000 OUTLINE DIMENSIONS



These dimensions are general, not for Engineering. Some dimensions depend on truck selection. Dimensions shown on this page apply to both the M30100 and the M3077 models.

TRUCK CHASSIS DATA

Minimum Requirements for M3000 Series.
Some configurations and options may increase requirements.

Wheelbase	258 In.	6,553mm
Cab to Axle	192 In.	4,877mm
Frame Section Modulus	110,000 psi	758,450 kPa
	25.0 In^3	410cc
Nominal Frame Width	34 In.	864mm
Front Axle Gross Weight Rating	18,000 lb	8,165 kg
Rear Axle Gross Weight Rating	38,000 lb	17,237 kg