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Grove GBT35 Product Guide

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Features

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Outriggers

Outrigger span of 7,52 m when fully extended; 5,33 m at mid-span.

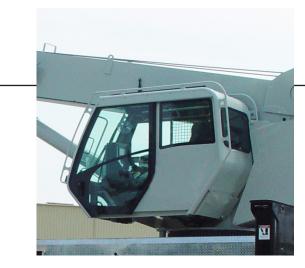
Equipped with both ground level and in-cab outrigger controls, the GBT35 outriggers allow quick and easy crane set-up and can be positioned at 0%, 50% and 100%.

Introducing the GBT35

- 35,0 t maximum capacity
- 41,15 m maximum tip height (main boom)
- 57,61 m maximum tip height (boom with jib)

Deluxe operator's cab

Rigid galvanized steel structure, well insulated, with tinted safety glass for operator visibility and comfort. Multi-position seat with arm rest mounted single axis controls, ventilation fans, diesel heater, dual cab mounted worklights and wipers. Optional air conditioning is available.





Overload protection

All Grove boom trucks are equipped with overload protection. A Load Moment Indicator (LMI) is standard on all GBT35 machines. The LCD display is visible in full or low light and displays all crane load lifting values simultaneously. Includes Work Area Definition System (WADS).

Five-section boom

At 38,71 m, the GBT35 five-section boom is the longest in its size range. The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency.



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Features

Grove is proud to introduce the GBT35 crane

Comfort:

- Easy Glide Boom wear pads reduces the vibration
- State the art control valves provides smoother operation

Versatility:

• Largest boom that allows to use the crane for multiple jobsites cranes

Transport:

- No road permit needed
- Turntable lock to secure superstructure for travel

Longevity:

- Rust reduced thanks to painting crane components before assembly
- Booms section are supported by one hydraulic extend cylinder, minimizing maintenance



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Specifications

Superstructure



Boom

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9,45m - 38,7m. Five-section, 5-section, 4-plate construction, full-power boom. Integral holding valve on the telescope cylinder. Three (3) quick reeve cast iron sheaves in the main boom nose.

Maximum tip height: 41,1 m



Swingaway extension

9.45m-16.76m Telescoping boom extension includes 7.32m manual pull-out to 16.76m. Stows

alongside base boom section.

Maximum tip height: 57,7 m

Boom elevation

One double acting hydraulic cylinder with integral holding valve.

Elevation from -10° to +80°



Load moment and anti-two block system

Graphical, LMI system with Audio-visual (light/buzzer) warning system and control lever lockout system with electronic display of boom angle and length, relative load moment indication, rated load, load, radius and boom tip height. The standard Work Area Definition System (WADS) allows the operator to pre-select and define safe working areas.



Cab

All steel construction with acoustical lining and tinted glass throughout, deluxe seat with armrest mounted single-axis hydraulic pilot controllers, windshield and sliding skylight with electric wipers, hot water cab heater with defroster which is diesel fired, circulating fan, fire extinguisher, dual cab mounted work lights. EET electronic throttles included. Unit is equipped with a signal horn switch and engine start/stop switches.



Slewing

360° continuous rotation, planetary "Glide swing" with foot actuated multi-disk brake, pinion guard.



Counterweight

Pinned to structure. 2495 kg.



Hydraulic system

Pressure compensated, load-sense, closed-center hydraulic system with (1) left-hand rotation, variable displacement piston pump; hydraulic reservoir, external sight level indicator, filter condition indicator; oil temperature indication and oil cooler with electric fan. Reservoir capacity 378l equipped with butterfly valve on the suction line to the pump.



Main hoist with grooved drum, two-speed power up and down with automatic multi-disc brake, electronic drum rotation indicator (DRI) & Last Layer Indicator and drum cable follower. Bare drum pull 6,804 kg low speed.

Maximum permissible line pull:

5,103 kg with7x35 class rope.

Planetary reduction with automatic spring applied multi-disc wet brake. Electronic hoist drum rotation indicators, and hoist drum cable followers.

Maximum single line pull:

1st layer: 5,280 kg 3rd layer: 4,323 kg 5th layer: 3,656 kg

Maximum permissible line pull:

5,280 kg with 6x37 class rope. 5,280 kg with 35x7 class rope.

Maximum single line speed: 136 m/min

Rope construction:

6X36 EIPS IWRC, Special Flexible 35x7 Flex-X, Rotation Resistant Rope diameter: 16 mm Rope length: Main hoist: 137 m Auxiliary hoist: 137 m Maximum rope stowage: 181 m Rope diameter: 16 mm Rope length: 137 m

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*Denotes optional equipment

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Specification

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Superstructure continued

Hookblock

18t, 149 kg single sheave, "quick reeve" type block with swivel hook and safety latch. (Maximum capacity 15,300 kgs).



Outrigger system

Hydraulic front and rear. 2 section extendable beams with integral check valves for 360° operation; 607 mm diameter aluminum outrigger floats.

3 Position settings: 0%, 50% and 100%.

Controls located in crane cab and on both sides of subframe.

Unit has outrigger in motion alarm system.

Single front stabilizer - folds for tilting truck hood (requires extended front truck chassis frame rails).

*Optional equipment

- Air Conditioning in Cab
- Manual applied lock on rotation bearing (360° positioning)
- Swing away extention
- Auxiliary winch
- Four function remote control. (Will not function auxiliary winch option)

Carrier

Chassis

FM 340HP 8*4 Rigid High, B ride

Electrical system

4

Two 12V-maintenance free batteries.

24V electrical system with 24V starting and 24V lights. Can-Bus diagnostic system.

Master battery disconnect for superstructure electrical system



Euro 3 Engine emission level Euro 3 Engine emission control Engine, 9 litre, 340 hp, 1600 Nm Gearbox 9 speed, 2000 Nm

Fuel tank

114 l

Cab interior

Grey mirrors, insteps and bumper; sunvisor, smoke colour; manual locking, internal remote to passenger door; roof hatch; electrical window lift; rubber floor mats; driver seat, comf, susp; pass seat, regular; storage on engine tunnel and rear cab wall; climate unit manual air condition; engine block heater (220 volt, 1.5 kW); ambient temperature meter; cruise control, standard; dual dash outlets, 24V + 12V; black safety belts, pass. and driver seats; back up alarm; fire extinguisher, 2 kg, French decal; first aid kit and two warning triangles; one day tachograph, EC approved; speed limiter setting 90 km/h, EC; Jack, 20 tonnes; toolkit, complete; tyre inflation hose (20 metre); rire pressure gauge.

Cab exterior

Front steel bumper; insect net in front of radiator; manual cab tilt pump; mechanical cab suspension; halogen H7 head lamps; headlamp adjustment; head lamp asymmetric, left hand drive; two auxiliary front driving lamps; front fog lights white; three identification lamps on cab roof; switch in cab for identification lamps; one cab roof pass through, passenger side; CB radio antenna preparation kit; emblem mounted; signal Yellow.

Tyres

Steel rims 315/80R22.5 K CONT HSC1 315/80R22.5 L CONT HDW Spare wheel&tyre equal to front wheel

*Auxiliary equipment

- Auxiliary lighting package (includes cab mounted amber flashing light, hoist mounted work light, and dual base boom mounted floodlights)
- LMI light bar (in cab)
- Air conditioning (28 500 BTU)
- 360° NYC style mechanical swing lock
- Rear Pintle hook
- Cab controlled cross axle differential locks, (front and rear)
- PAT data logger
- Rubber mat for storage trough

*Denotes optional equipment

3 part line

2 part line

S P

4 part line

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5 part line

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Specifications

6 part line

SOP

7 part line

1 DP

8 part line

S P

GBT35 hookblock data

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1 part line

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- All winch pulls and speeds are shown on the fourth layer.
- Winch line pulls would increase on the first, second, ar
- W de ar
- W lin 10 fa

35,7 t

40,8 t

decrease and third • Winch lin limited by	, e speed wo on the first,	second, be capacity				A Contraction of the second se	A Contraction of the second se		A CAR A CARE AND A CAR	
Standard planetary winch	Cable supplied	Average breaking strength	Max. pull	Max. pull	Max. pull	Max. pull	Max. pull	Max. pull	Max. pull	Max. pull
Low speed	16 mm diameter rotation resistant IWRC	25 583 kg	5103 kg 62 m/min	10 206 kg 31 m/min	15 309 kg 21 m/min	20 412 kg 16 m/min	25 515 kg 13 m/min	30 618 kg 10 m/min	35 721 kg 9 m/min	40 824 kg 8 m/min
High speed	16 mm diameter	25 583 kg	2268 kg	4536 kg	6804 kg	9072 kg	11 340 kg	13 608 kg	15 876 kg	18 144 kg

	W	inch	Fourth layer pull	Allowable cable pull		
	Standard planetary a	and auxiliary planetary	2268 kg high speed 5103 kg low speed	5117 kg 5117 kg		
Г		Loadline deduct				
		Loaume deduct				
		Aux boom head	45 kg			
	5,1 t	Downhaul weight	82 kg			
	15,3 t	1-sheave block	170 kg			
	25,5 t	2-sheave block	250 kg			

318 kg

409 kg

3-sheave block

4-sheave block

Grove GBT35

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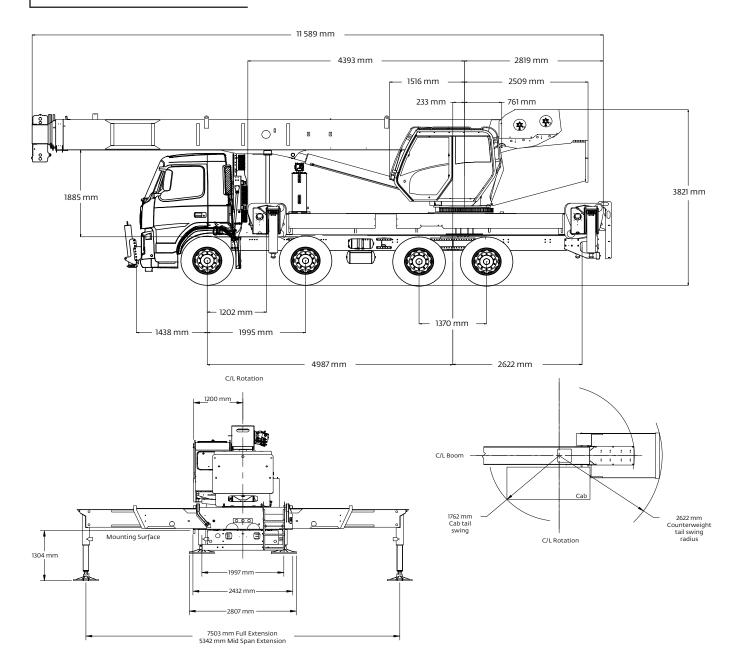
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Dimensions

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Weight/CG Data								
Series	Dimension G	Weight with oil	front axles	rear axles	GVW			
GBT35127	50"	38,179 lb	13040 kg	16400 kg	29440 kg			

No jib, no auxiliary hoist, with 2/3 hookblock.

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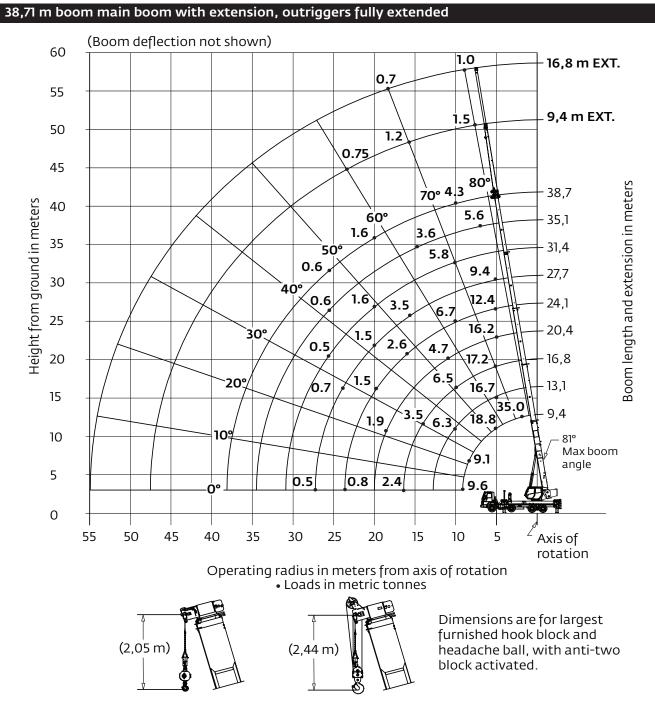
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Working range



*Drawing is to show the physical reach of the machine. Always refer to load chart to see what portions of this range are structurally and stability limited.

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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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Load chart

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38,71 m main boom, full span outriggers, 360°, without stowed extension

Radius	#01									
in meters		Main boom length in meters								
meters	9,4 13,1-A 16,8-B 20,4-C 24,1-D 27,7-E 31,4-F 35,1-G								38.7	
2,5	35 000 (70,9)									
3	31 950 (67,7)									
3,5	27 500 (64,4)	18 550 (71,7)								
4	23 950 (61)	18 250 (69,4)	18 350 (74,1)	17 750 (77)						
4,5	20 950 (57,4)	17 750 (67,1)	18 350 (72,3)	17 000 (75,5)						
5	18 800 (53,7)	16 950 (64,6)	17 450 (70,5)	16 400 (74,1)	12 550 (76,5)	9550 (78,4)				
6	15 150 (45,7)	15 200 (59,7)	15 400 (66,8)	15 250 (71,1)	11 450 (74,1)	8850 (76,2)				
7	12 200 (36,3)	12 550 (54,4)	12 700 (63)	12 800 (68,1)	10 600 (71,6)	8200 (74,1)	7000 (76)	5750 (77,5)		
8	9500 (23,9)	9800 (48,8)	10 000 (59,1)	10 050 (65,1)	9800 (69,1)	7600 (71,9)	6600 (74,1)	5600 (75,8)	4500 (77,1)	
9		7950 (42,6)	8100 (55)	8200 (61,9)	8250 (66,5)	7150 (69,7)	6250 (72,2)	5350 (74,1)	4450 (75,6)	
10		6550 (35,5)	6700 (50,6)	6800 (58,7)	6850 (63,8)	6750 (67,5)	5900 (70,3)	5100 (72,4)	4350 (74,1)	
12		4600 (13,9)	4800 (41)	4900 (51,8)	4950 (58,4)	4950 (62,9)	4950 (66,3)	4700 (68,9)	4100 (70,9)	
14			3550 (28,9)	3600 (44,2)	3700 (52,6)	3700 (58,2)	3750 (62,3)	3750 (65,4)	3700 (67,8)	
16			2600 (1,6)	2750 (35,3)	2800 (46,3)	2850 (53,2)	2850 (58)	2850 (61,7)	2850 (64,5)	
18				2050 (23,7)	2150 (39,2)	2150 (47,8)	2200 (53,6)	2200 (57,9)	2200 (61,2)	
20					1650 (30,8)	1650 (41,9)	1700 (48,9)	1700 (53,9)	1700 (57,7)	
22					1200 (19,4)	1250 (35,2)	1250 (43,8)	1300 (49,8)	1300 (54,1)	
24						900 (27,1)	950 (38,2)	950 (45,3)	950 (50,3)	
26						650 (15,6)	650 (31,8)	700 (40,5)	700 (46,3)	
	oom angle	-	_					0	15	
	boom lengt		-	e (no load)				35	5,1	
NOTE: () I #LMI oper	Boom angl rating code	e. Refer to	LMI manu	al for opera						
		Li	ting capa	cities at ze	ero degree		gle			

	Lifting capacities at zero degree boom angle									
Boom		Main boom length in meters								
angle	9,4	9,4 13,1-A 16,8-B 20,4-C 24,1-D 27,7-E								
0°	7950 (8,7)	4300 (12,3)	2600 (16)	1600 (19,7)	1000 (23,3)	500 (27)				
NOTE:()	NOTE: () Reference radii in meters. 80028653								8002865 3	
Rated Load Reductions from main boom capacity when lifting over main boom nose with ext. erected (retracted):										
(in kg)	1,045	975	910	885	865	840	820	795	775	

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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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Load chart

38,71 m main boom, full span outriggers, 360°, with stowed extension

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in Hain Use the second secon	Radius		#02								
9,413,1-A16,8-B20,4-C24,1-D27,7-E31,4-F35,1-C38,72.5 $35,000$ (70,9)(in				Main bo	om length	n in meter	s			
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3 (67,7) (77) (78) (77) (78) (77) (78) (77) (78) (77) (78) (77) (74) (76) (77) (77) (74) (74) (74) (74) (74) (74) (74) (74) (74) (75) (77) (77) (74) (74) (74) (75) (77) (75) (77) (75) (77) (74) <th< td=""><td>2,5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	2,5										
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4 (6i) (69,4) (74,1) (77) Image for the state s	3,5										
4.5 (57,4) (67,1) (72,3) (75,5) (70 (70 (73,3) (75,5) (74,1) (73,5) (74,1) (76,5) (73,4) (75,2) (74,1) (76,5) (78,4) (76,2) (77,5)	4										
5 (53,7) (64,6) (70,5) (74,1) (76,5) (78,4)	4,5										
6 (45,7) (59,7) (66,8) (71,1) (74,1) (76,2) (68,0) (71,1) 7 11835 12,255 12,495 12,615 10,415 8040 6860 5635 (77,5) 8 9135 9,505 9795 9,865 9615 7440 6460 5485 4405 9 7655 7895 8015 8065 6990 610 5235 4355 10 6255 7895 8015 8065 6990 610 5235 4355 10 6255 6495 6615 6665 6590 5760 4985 4255 112 4305 4595 4715 4765 4790 4810 4585 4005 12 4305 (1,9) (41,2) (51,8) 3515 3540 3610 3635 3605 16 2395 2565 2615 2690 2710 2735 (61,2) (61,2) (64,3) </td <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5										
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o (23,9) (48,8) (59,1) (69,1) (71,9) (74,1) (75,8) (77,1) 9 7655 7895 8015 8065 6990 6110 5235 4355 10 6255 6495 6615 6665 6590 5760 4985 4255 10 4305 4595 (5,1) (58,7) (63,8) (67,5) (70,3) 4585 4005 12 4305 4595 4715 4765 4790 4810 4585 4005 14 3345 3415 3515 3540 3610 3635 3605 16 2395 2565 2615 2690 2710 2735 2755 18 1865 1990 2060 2085 2105 20 1465 1490 1560 1585 1605 123 1015 1090	7						(74,1)				
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18 Image: Im	16						(53,2)	(58)			
20	18					(39,2)	(47,8)	(53,6)	(57,9)	(61,2)	
22 Image: Constraint of the sector of th	20					(30,8)	(41,9)	(48,9)	(53,9)	(57,7)	
24	22										
26 (15,6) (31,8) (40,5) (46,3) Ainimum boom angle (°) for indicated length (no load) 0 15	24						(27,1)	(38,2)		(50,3)	
Aaximum boom length (m) at 0° boom angle (no load) 35,1		-		-							
NOTE: () Boom angles are in degrees.		5		5	e (no load)				35	5,1	

NOTE: () Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for operating instructions.

Boom	-								
angle	9.4	13,1-A	16,8-B	20,4-C	24,1-D	27,7-Е			
0°	7585 (8,7)	4005 (12,3)	2395 (16)	1415 (19,7)	815 (23,3)	340 (27)			

NOTE: () Reference radii in meters.

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Grove GBT35

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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Boom extension capacity notes:

rating of the next lower angle.

extension.

service

set.

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1. All capacities above the bold line are based on structural strength of boom

2. 9,4 m and 16,8 m extension lengths may be used for single line lifting

3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. For boom angles not shown, use the

Warning: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom

4. Boom angle is the angle above or below horizontal of the longitudinal

6. When lifting over the main boom nose with 9,4 m or 16,8 m extension erected, the outriggers must be fully extended or 50% extended.

5. Capacities listed are with outriggers properly extended and vertical jacks

extension occurs rapidly and without advance warning.

axis of the boom base section after lifting rated load.

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Load chart

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38,71 m main boom, full span outrigger, 360°, with telescopic jib

Radius in	9,4 m LENGTH				
meters	#03				
9,1	1525 (80)				
14,0	1450 (75)				
18,2	1200 (70)				
22,2	950 (65)				
25,9	750 (60)				
29,2	525 (55)				
32,3	275 (50)				
Min. boom angle for indicated length (no load)	45°				
Max. boom length at 0° boom angle (no load)	27,7 m				

Radius in	16,8 m LENGTH
meters	#04
10,9	1000 (80)
16,4	1000 (75)
21,3	700 (70)
25,9	450 (65)
Min. boom angle for indicated length (no load)	50°
Max. boom length at 0° boom angle (no load)	24,1 m

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NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating instructions.

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Notes

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