

LOADING MACHINES

MHL 434

Lifting Capacity
MHL 434 reach 9.5 m (31'1")
► Work equipment: box-type boom 7.3 m(23'9"), dipperstick 4.2 m (13'8").

Height in m	Undercarriage stabilizers	3	4.5	Reach in m 6	7.5	9
9	non supported			5.9	3.8*	
	1-blade supported			6.2* (6.2*)	3.8* (3.8*)	
	2-blade supported			6.2* (6.2*)	3.8* (3.8*)	
7.5	non supported			5.8	4.2	
	1-blade supported			6.3* (6.3*)	4.5 (5.3*)	
	2-blade supported			6.3* (6.3*)	5.3* (5.3*)	
6	non supported		7.5*	5.7	4.1	3.3
	1-blade supported		7.5* (7.5*)	6.2 (6.4*)	4.5 (5.6*)	3.4 (4.0*)
	2-blade supported		7.5* (7.5*)	6.4* (6.4*)	5.4 (5.6*)	4.0* (4.0*)
4.5	non supported	10.2*	8.0*	5.6	4.1	3.1
	1-blade supported	10.2* (10.2*)	8.0* (8.0*)	6.1 (6.6*)	4.4 (5.7*)	3.4 (4.2*)
	2-blade supported	10.2* (10.2*)	8.0* (8.0*)	6.6* (6.6*)	5.3 (5.7*)	4.1 (4.2*)
3	non supported	11.2*	8.0	5.4	3.1	
	1-blade supported	11.2* (11.2*)	8.4* (8.4*)	5.9 (6.8*)	4.3 (5.7*)	3.4 (4.8*)
	2-blade supported	11.2* (11.2*)	8.4* (8.4*)	6.8* (6.8*)	5.2 (5.7*)	4.1 (4.8*)
1.5	non supported	7.7*	7.7	5.2	3.9	3.0
	1-blade supported	7.7* (7.7*)	8.5 (8.6*)	5.7 (6.9*)	4.2 (5.7*)	3.3 (4.6*)
	2-blade supported	7.7* (7.7*)	8.6* (8.6*)	6.9* (6.9*)	5.2 (5.7*)	4.0 (4.6*)
0	non supported	6.5*	7.5	5.1	3.8	
	1-blade supported	6.5* (6.5*)	8.3* (8.3*)	5.6 (6.6*)	4.2 (5.4*)	
	2-blade supported	6.5* (6.5*)	8.3* (8.3*)	6.6* (6.6*)	5.1 (5.4*)	
-1.5	non supported		7.4	5.0		
	1-blade supported		7.5* (7.5*)	5.5 (6.1*)		
	2-blade supported		7.5* (7.5*)	6.1* (6.1*)		

Height in ft.	Undercarriage stabilizers	10	15	Reach in ft. 20	25	30
30	non supported			13,000	8,370*	
	1-blade supported			13,670* (13,670*)	8,370* (8,370*)	
	2-blade supported			13,670* (13,670*)	8,370* (8,370*)	
25	non supported			12,780	9,260	
	1-blade supported			13,890* (13,890*)	9,920 (11,680*)	
	2-blade supported			13,890* (13,890*)	11,680* (11,680*)	
20	non supported		16,530*	12,560	9,040	7,270
	1-blade supported		16,530* (16,530*)	13,670 (14,110*)	9,920 (12,340*)	7,490 (8,820*)
	2-blade supported		16,530* (16,530*)	14,110* (14,110*)	11,900 (12,340*)	8,820* (8,820*)
15	non supported	22,490*	17,640*	12,340	9,040	6,830
	1-blade supported	22,490* (22,490*)	17,640* (17,640*)	13,450 (14,550*)	9,700 (12,560*)	7,490 (9,260*)
	2-blade supported	22,490* (22,490*)	17,640* (17,640*)	14,550* (14,550*)	11,680 (12,560*)	9,040 (9,260*)
10	non supported	24,690*	17,640	11,900	8,820	6,830
	1-blade supported	24,690* (24,690*)	18,520* (18,520*)	13,000 (14,990*)	9,480 (12,560*)	7,490 (10,580*)
	2-blade supported	24,690* (24,690*)	18,520* (18,520*)	14,990* (14,990*)	11,460 (12,560*)	9,040 (10,580*)
5	non supported	16,970*	16,970	11,460	8,600	6,610
	1-blade supported	16,970* (16,970*)	18,740 (18,960*)	12,560 (15,210*)	9,260 (12,560*)	7,270 (10,140*)
	2-blade supported	16,970* (16,970*)	18,960* (18,960*)	15,210* (15,210*)	11,460 (12,560*)	8,820 (10,140*)
0	non supported	14,330*	16,530	11,240	8,370	
	1-blade supported	14,330* (14,330*)	18,300* (18,300*)	12,340 (14,550*)	9,260 (11,900*)	
	2-blade supported	14,330* (14,330*)	18,300* (18,300*)	14,550* (14,550*)	11,240 (11,900*)	
-5	non supported		16,310	11,020		
	1-blade supported		16,530* (16,530*)	12,120 (13,450*)		
	2-blade supported		16,530* (16,530*)	13,450* (13,450*)		

► Values are valid for working diagram on page 2.

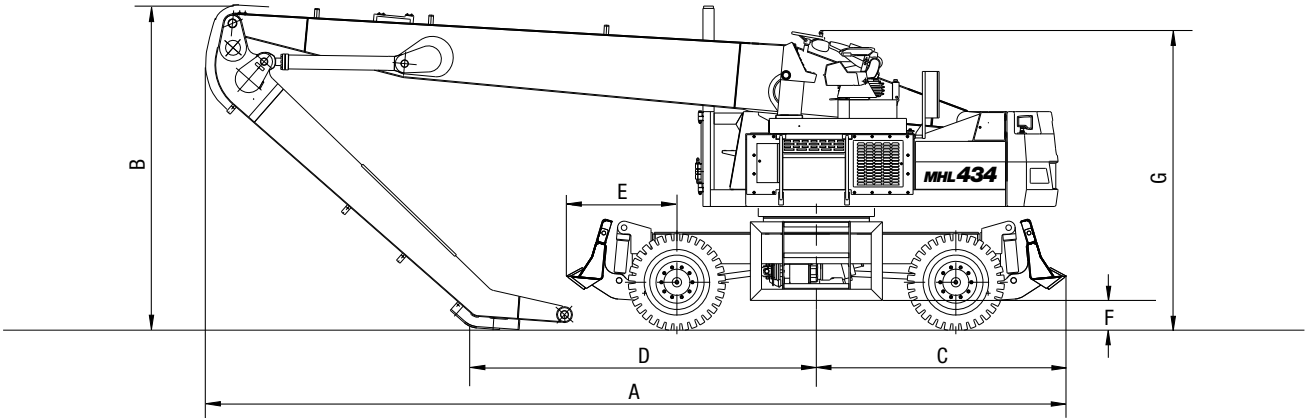
Remarks
The values are stated in tons (t) or lbs. The pump pressure for this table is 360 bar (5,220 psi). The values amount to 75 % of the static tipping load or 87 % of the hydraulic lifting force (marked *), in accordance with ISO 10567. When the machine is standing on solid and level ground, these values apply to slewing operations through 360°. The values in brackets

apply in the lengthwise direction of the undercarriage over the blade. The weight of the attached load hoisting implement (grab, load hook etc.) must be deducted from the carrying capacity values. In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and overload warning device are required for crane operations.

LOADING MACHINES

MHL 434

Transport dimensions on a flat-bed trailer



Transport Dimensions		
Dimensions	Reach	Reach
	9.5 m (31'1")	10.7 m (35'1")
A	8.310 mm (327")	9.300 mm (366")
B	3.275 mm (130")	3.500 mm (138")
C	2.690 mm (106")	2.690 mm (106")
D	3.250 mm (128")	3.734 mm (147")
E	1.190 mm (47")	1.190 mm (47")
F	300 mm (12")	300 mm (12")
G	3.210 mm (126")	3.210 mm (126")
	*3.550 mm (140")	*3.550 mm (140")
*Eye level 3.9 m (12'8")		

Logging Grabs
► Capacity up to 1.7 m² (2.2 yd²) optional, according to job-site conditions.

Safety Equipments
► Required when machine is used for load hook operations in compliance with EN 474-5. Protection of cab ensured by work equipment operating range limit.

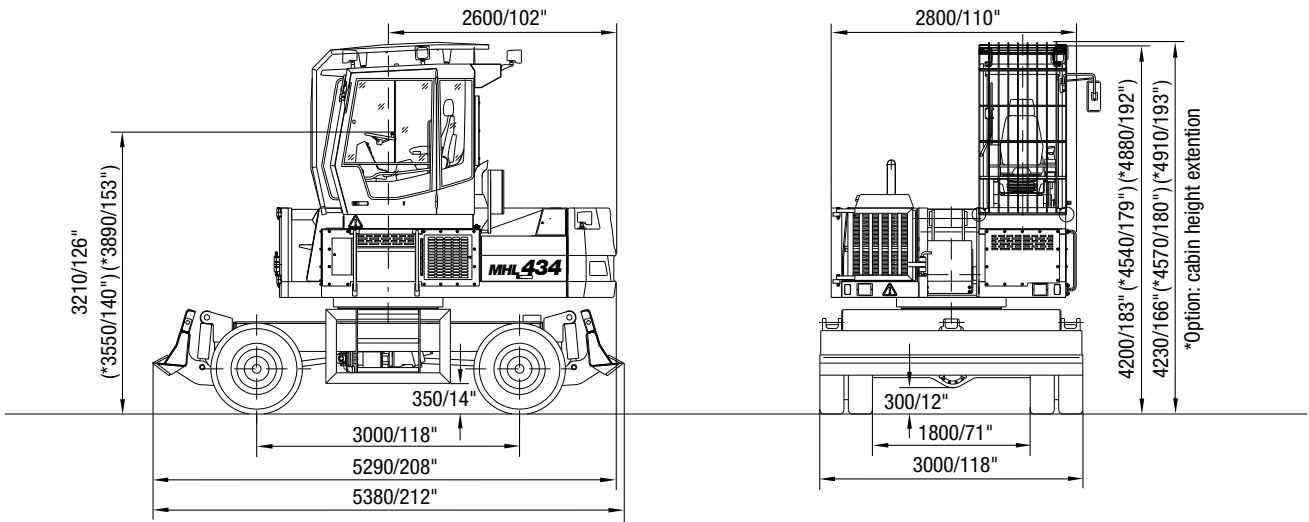
Cab
► Cab: ergonomically shaped driver's cab with functional design and excellent all-round visibility, rigid mounted with standard eye level of 3.55 m (11'6"), optional 3.9 m (12'8")/ 4.23 m (13'9").
► Driver's seat: air-cushioned comfort seat with pneumatically adjustable lumbar support, safety belt and integrated headrest, seat heating available on request. Seat position, seat inclination and seat cushion multi-adjustable in line with position of armrests and pilot control units, allowing fatigue-free operations. Joy-Stick steering, automatic steering reversal as standard.
► Infinitely variable hotwater heating with 3-speed fan, 4 adjustable defroster nozzles.
► Air conditioning as standard.
► Up and over type front windshield with pull-down sunblind, lift-up skylight on cab roof.
► Option: cab with bullet-proofed glass or LEXAN glass, windshield screen, auxiliary heating, stereo cassette radio, steering wheel.
► Acoustic power level (guaranteed) L _{WA} = 104 dB(A).

Official Homologation
► Certification according to CE-regulations.

TEREX | FUCHS

MHL 434

Loading Machines



Diesel Engine	
Manufacturer and type	Deutz-BF4M 1013 FC
Design	4-cylinder turbocharged and charge air cooler.
Engine output	112 kW (150 HP)
Nominal speed	2,000 rpm
Displacement	4.8 l (293 cb in)
Cooling system	Water and charge air cooling.
Emission standards	COM II und EPA TIER II
Air filter design	Two-stage filter with safety valve.
Fuel tank	300 l (79 US gal)

Electrical System	
Operating voltage	24 V
Batteries	2 x 12 V / 100 Ah / 760 A (accord. to EN)
Lighting set	2 Xenon-driving lights on upper carriage/ rear of chassis, 2 Xenon-dipperstick-mounted working floodlights, 3-Xenon-cabin-mounted working floodlights, rear side-marker and turn signal lamps.

Travel Drive	
► Hydrostatic drive through infinitely variable axial piston motor and directly mounted travel brake valves, two-speed switch gear, 4-wheel drive.	
Travel speed 1st gear	0 - 6 km/h (0 - 3.7 mph)
Travel speed 2nd gear	0 - 20 km/h (0 - 12.4 mph)
Turning radius	5.7 m (18'7")

Operating Weights		
Basic machine includ. one supporting blade and work attachment		
Reach 9.5 m (31'1")	22,100 kg (47,722 lbs)	
Reach 10.7 m (35'1")	23,100 kg (50,926 lbs)	

Swing System	
Ring gear	Internally toothed ring gear.
Drive	Multi-stage planetary gear with integrated multi-disc brake.
Upper carriage swing speed	0 - 6 rpm

Superstructure	
Front axle: Rigid mounted steering axle with integrated drum brake, max. steering angle 29°.	
Rear axle: Oscillating rear axle with oscillating axle lock and integrated drum brake, max. steering angle 29°.	
Stabilizers	Front-mounted supporting blade, optional: rear-mounted supporting blade.
Tires	Pneumatic tires 8-fold, 10.00-20
► 4-wheel steering	

Brake System	
Service brake	Hydraulic single-circuit braking system acting on all four wheel pairs.
Parking brake	Electro-hydraulic spring-loaded accumulator brake on gear box acting on both front and rear axle.

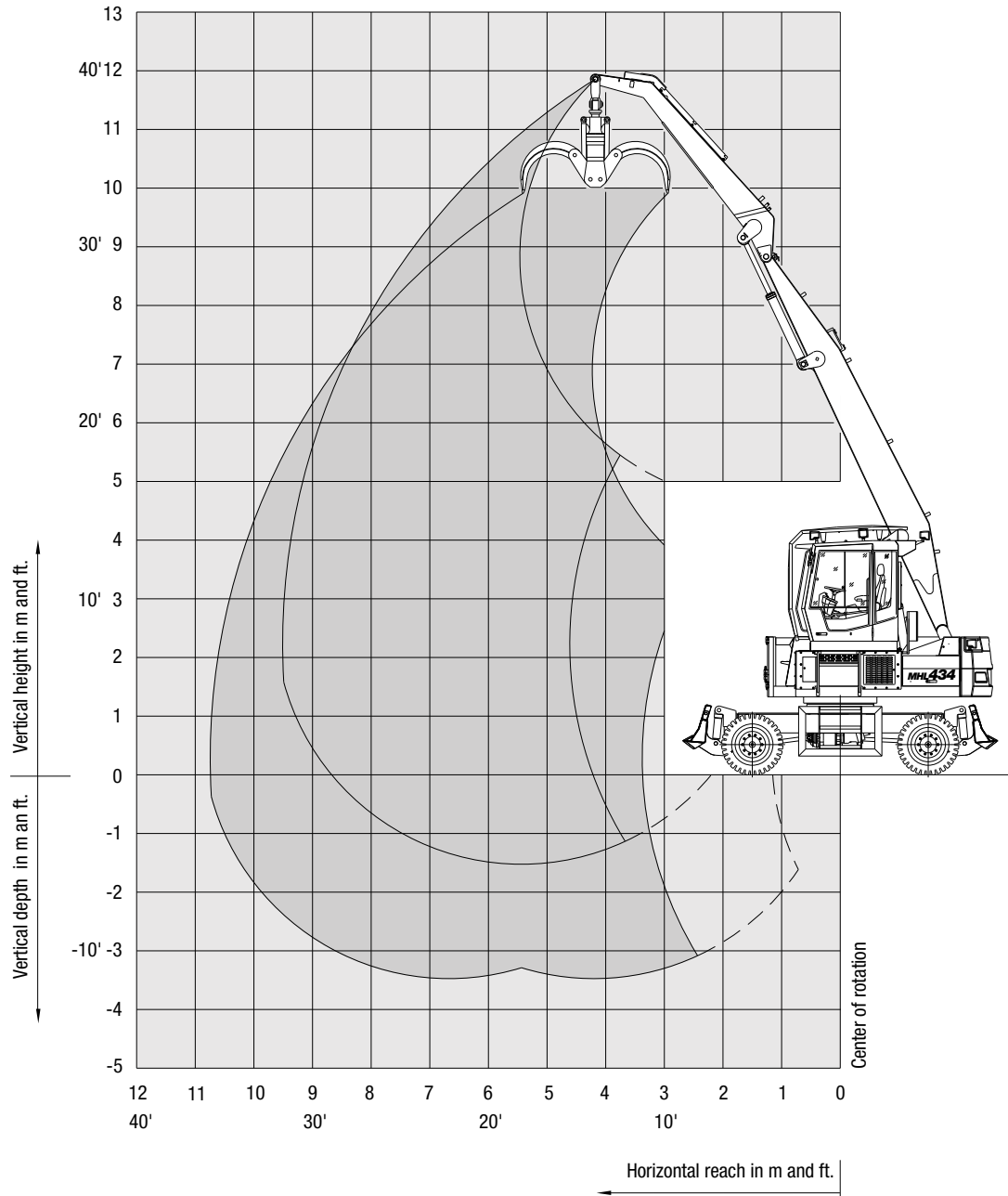
Hydraulic System	
► Single circuit hydraulic system with flow-on-demand control for optimal use of the available engine output.	
► Sperate oil cooler with large cooling surface, temperature controlled fan speed.	
► Hydraulic oil filter integrated in the oil tank.	
► Central lubricating system as standard.	
Max. pump capacity	320 l/min (85 US gal/min) at 2,000 rpm
Max. operating pressure	360 bar (5,221 psi)
Hydraulic oil tank	320 l (85 US gal)

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Working Diagram

MHL 434 reach 9.5 m (31'1")

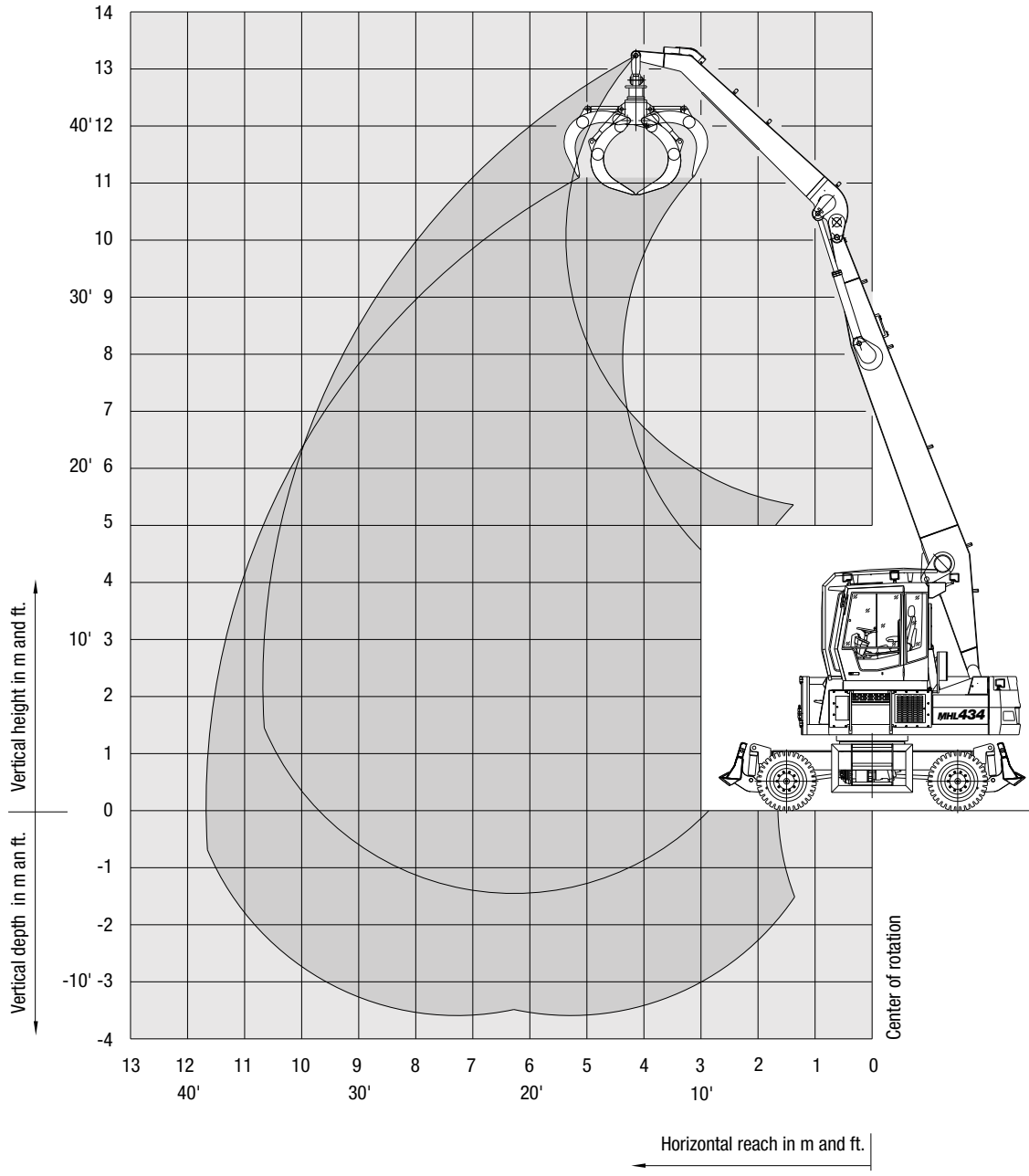
► Work equipment: box-type boom 7.3 m(23'9"), dipperstick 4.2 m (13'8").



Working Diagram

MHL 434 reach 10.7 m (35'1")

► Work equipment: box-type boom 8.2 m (26'9"), dipperstick 4.75 m (15'6").



Lifting Capacity

MHL 434 reach 10.7 m (35'1")

► Work equipment: box-type boom 8.2 m (26'9"), dipperstick 4.75 m (15'6").

Height in m	Undercarriage stabilizers	Reach in m					
		3	4.5	6	7.5	9	10.5
10.5	non-supported			5.3*	2.9*		
	1-blade supported			5.3* (5.3*)	2.9* (2.9*)		
	2-blade supported			5.3* (5.3*)	2.9* (2.9*)		
9	non-supported			6.1	4.3		
	1-blade supported			6.6* (6.6*)	4.6 (5.0*)		
	2-blade supported			6.6* (6.6*)	5.0* (5.0*)		
7.5	non-supported		8.0*	5.9	4.2	3.1	
	1-blade supported		8.0* (8.0*)	6.5 (7.0*)	4.6 (6.1*)	3.4 (3.9*)	
	2-blade supported		8.0* (8.0*)	7.0* (7.0*)	5.3 (6.1*)	3.9* (3.9*)	
6	non-supported	10.7*	8.6*	5.7	4.1	3.1	
	1-blade supported	10.7* (10.7*)	8.6* (8.6*)	6.2 (7.2*)	4.5 (6.2*)	3.4 (5.3*)	
	2-blade supported	10.7* (10.7*)	8.6* (8.6*)	7.2* (7.2*)	5.1 (6.2*)	3.9 (5.3*)	
4.5	non-supported	11.9*	8.2	5.4	4.0	3.0	2.4
	1-blade supported	11.9* (11.9*)	9.1 (9.2*)	6.0 (7.5*)	4.3 (6.3*)	3.3 (5.4*)	2.5 (4.0*)
	2-blade supported	11.9* (11.9*)	9.2* (9.2*)	6.9 (7.5*)	5.0 (6.3*)	3.8 (5.4*)	3.0 (4.0*)
3	non-supported	11.2*	7.7	5.2	3.8	2.9	2.3
	1-blade supported	11.2* (11.2*)	8.5 (9.6*)	5.7 (7.7*)	4.2 (6.4*)	3.2 (5.4*)	2.6 (4.5*)
	2-blade supported	11.2* (11.2*)	9.6* (9.6*)	6.6 (7.7*)	4.8 (6.4*)	3.7 (5.4*)	3.0 (4.5*)
1.5	non-supported	5.5*	7.3	4.9	3.7	2.8	2.3
	1-blade supported	5.5* (5.5*)	8.1 (9.6*)	5.4 (7.7*)	4.0 (6.4*)	3.1 (5.3*)	2.6 (4.3*)
	2-blade supported	5.5* (5.5*)	9.6* (9.6*)	6.1 (7.7*)	4.7 (6.4*)	3.6 (5.3*)	2.9 (4.3*)
0	non-supported	5.0*	7.0	4.8	3.5	2.8	
	1-blade supported	5.0* (5.0*)	7.8 (9.2*)	5.3 (7.4*)	3.9 (6.1*)	3.1 (5.0*)	
	2-blade supported	5.0* (5.0*)	9.2* (9.2*)	6.2 (7.4*)	4.6 (6.1*)	3.6 (5.0*)	
-1.5	non-supported			4.7	3.6		
	1-blade supported			5.2 (6.8*)	3.9 (5.7*)		
	2-blade supported			6.1 (6.8*)	4.6 (5.7*)		

Height in ft.	Undercarriage stabilizers	Reach in ft.					
		10	15	20	25	30	10.5
35	non-supported			11,680*	6,390*		
	1-blade supported			11,680* (11,680*)	6,390* (6,390*)		
	2-blade supported			11,680* (11,680*)	6,390* (6,390*)		
30	non-supported			13,450	9,480		
	1-blade supported			14,550* (14,550*)	10,140 (11,020*)		
	2-blade supported			14,550* (14,550*)	11,020* (11,020*)		
25	non-supported		17,640*	13,000	9,260	6,830	
	1-blade supported		17,640* (17,640*)	14,330 (15,430*)	10,140 (13,450*)	7,490 (8,600*)	
	2-blade supported		17,640* (17,640*)	15,430* (15,430*)	11,680 (13,450*)	8,600* (8,600*)	
20	non-supported	23,590*	18,960*	12,560	9,040	6,830	
	1-blade supported	23,590* (23,590*)	18,960* (18,960*)	13,670 (15,870*)	9,920 (13,670*)	7,490 (11,680*)	
	2-blade supported	23,590* (23,590*)	18,960* (18,960*)	15,870* (15,870*)	11,240 (13,670*)	8,600 (11,680*)	
15	non-supported	26,230*	18,080	11,900	8,820	6,610	5,290
	1-blade supported	26,230* (26,230*)	20,060 (20,280*)	13,230 (16,530*)	9,480 (13,890*)	7,270 (11,900*)	5,510 (8,820*)
	2-blade supported	26,230* (26,230*)	20,280* (20,280*)	15,210 (16,530*)	11,020 (13,890*)	8,370 (11,900*)	6,610 (8,820*)
10	non-supported	24,690*	16,970	11,460	8,380	6,390	5,070
	1-blade supported	24,690* (24,690*)	18,740 (21,160*)	12,560 (16,970*)	9,260 (14,110*)	7,050 (11,900*)	5,730 (9,920*)
	2-blade supported	24,690* (24,690*)	21,160* (21,160*)	14,550 (16,970*)	10,580 (14,110*)	8,150 (11,900*)	6,610 (9,920*)
5	non-supported	12,120*	16,090	10,800	8,150	6,170	5,070
	1-blade supported	12,120* (12,120*)	17,860 (21,160*)	11,900 (16,970*)	8,820 (14,110*)	6,830 (11,680*)	5,730 (9,480*)
	2-blade supported	12,120* (12,120*)	21,160* (21,160*)	13,450 (16,970*)	10,360 (14,110*)	7,930 (11,680*)	6,390 (9,480*)
0	non-supported	11,020*	15,430	10,580	7,710	6,170	
	1-blade supported	11,020* (11,020*)	17,200 (20,280*)	11,680 (16,310*)	8,600 (13,450*)	6,830 (11,020*)	
	2-blade supported	11,020* (11,020*)	20,280* (20,280*)	13,670 (16,310*)	10,140 (13,450*)	7,930 (11,020*)	
-5	non-supported			10,360	7,930		
	1-blade supported			11,460 (14,990*)	8,590 (12,560*)		
	2-blade supported			13,450 (14,990*)	10,140 (12,560*)		

► Values are valid for working diagram on page 3.

Remarks

The values are stated in tons (t) or lbs. The pump pressure for this table is 360 bar (5,220 psi). The values amount to 75 % of the static tipping load or 87 % of the hydraulic lifting force (marked *), in accordance with ISO 10567. When the machine is standing on solid and level ground, these values apply to slewing operations through 360°. The values in brackets apply in the lengthwise direction of the undercarriage over the blade. The weight of the attached load hoisting implement (grab, load hook etc.) must be deducted from the carrying capacity values. In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and overload warning device are required for crane operations.