

**LIFTING CAPACITY**

MHL 320 (reach 9.5 m/31').  
 • Work equipment: box-type boom 5.2 m/17', dipperstick 4.0 m/13' or multi-purpose stick 3.7 m/12'.

Height in m	Undercarriage stabilizers	Reach in m				
		3	4.5	6	7.5	9
9	non supported		(6.4')			
	4-pt. supported		6.4* (6.4')			
	2-pt. blade-supported		6.4* (6.4')			
7.5	non supported		(6.3')	(4.2)		
	4-pt. supported		6.3* (6.3')	5.1* (5.1')		
	2-pt. blade-supported		6.3* (6.3')	5.1* (5.1')		
6	non supported		(6.3')	(4.1)	(3.0)	
	4-pt. supported		6.3* (6.3')	5.1* (5.1')	4.5* (4.5')	
	2-pt. blade-supported		6.3* (6.3')	5.1* (5.1')	3.7 (4.5')	
4.5	non supported		(6.3)	(4.0)	(2.9)	(2.2)
	4-pt. supported		6.7* (6.7')	5.4* (5.4')	4.5* (4.5')	3.4 (3.7')
	2-pt. blade-supported		6.7* (6.7')	5.2 (5.4')	3.7 (4.5')	2.8 (3.7')
3	non supported		(6.0)	(3.9)	(2.8)	(2.2)
	4-pt. supported		7.7* (7.7')	5.8* (5.8')	4.5 (4.6')	3.4 (3.7')
	2-pt. blade-supported		7.7* (7.7')	5.0 (5.8')	3.6 (4.6')	2.8 (3.7')
1.5	non supported		(5.6)	(3.7)	(2.7)	(2.1)
	4-pt. supported		8.5* (8.5')	6.0* (6.0')	4.4 (4.6')	3.4 (3.5')
	2-pt. blade-supported		7.4* (8.5')	4.9 (6.0')	3.5 (4.6')	2.7 (3.5')
0	non supported		(5.3)	(3.6)	(2.7)	(2.1)
	4-pt. supported		8.2* (8.2')	5.8* (5.8')	4.3* (4.3')	3.1* (3.1')
	2-pt. blade-supported		7.2 (8.2')	4.7 (5.8')	3.5 (4.3')	2.7 (3.1')
-1.5	non supported		(5.2)	(3.5)	(2.6)	
	4-pt. supported		6.9* (6.9')	5.0* (5.0')	3.6* (3.6')	
	2-pt. blade-supported		6.9* (6.9')	4.7 (5.0')	3.4* (3.6')	
-3	non supported		(4.6')	(3.4)		
	4-pt. supported		5.6* (5.6')	3.4* (3.4')		
	2-pt. blade-supported		5.6* (5.6')	3.4* (3.4')		

Height in ft.	Undercarriage stabilizers	Reach in ft.				
		10	15	20	25	30
30	non supported		(14,110")			
	4-pt. supported		14,110* (14,110")			
	2-pt. blade-supported		14,110* (14,110")			
25	non supported		(13,890")	(9,260)		
	4-pt. supported		13,890* (13,890")	11,240* (11,240")		
	2-pt. blade-supported		13,890* (13,890")	11,240* (11,240")		
20	non supported		(13,890")	(9,040)	(6,600)	
	4-pt. supported		13,890* (13,890")	11,240 (11,240")	9,900* (9,900)	
	2-pt. blade-supported		13,890* (13,890")	11,240* (11,240")	8,150 (9,900")	
15	non supported		(13,890")	(8,820)	(6,400)	(4,850)
	4-pt. supported		14,770* (14,770")	11,910* (11,910")	9,920* (9,920")	7,500 (8,157")
	2-pt. blade-supported		14,770* (14,770")	11,460* (11,910")	8,160 (9,920")	6,170 (8,157")
10	non supported		(13,230)	(8,600)	(6,170)	(4,850)
	4-pt. supported		16,980* (16,980")	12,790* (12,790")	9,920 (10,140")	7,500 (8,157")
	2-pt. blade-supported		16,980* (16,980")	11,020 (12,790")	7,930 (10,140")	6,170 (8,157")
5	non supported		(12,350)	(8,160)	(5,950)	(4,630)
	4-pt. supported		18,740* (18,740")	13,230* (13,230")	9,700 (10,140")	7,500 (7,710")
	2-pt. blade-supported		16,310* (18,740")	10,800 (13,230")	7,700 (10,140")	5,950 (7,710")
0	non supported		(11,690)	(7,900)	(5,950)	(4,630)
	4-pt. supported		18,080* (18,080")	12,790* (12,790")	9,480* (9,480")	6,830* (6,830")
	2-pt. blade-supported		15,870 (18,080")	10,360 (12,790")	7,710 (9,480")	5,950 (6,830")
-5	non supported		(11,460)	(7,700)	(5,730)	
	4-pt. supported		15,210* (15,210")	11,020* (11,020")	7,930* (7,930)	
	2-pt. blade-supported		15,210* (15,210")	10,360 (11,020")	7,500 (7,930")	
-10	non supported		(10,140")	(7,500)		
	4-pt. supported		12,340* (12,340")	7,500* (7,500")		
	2-pt. blade-supported		12,340* (12,340")	7,500* (7,500")		

Values are valid for working diagram on page 2.   only reachable with dipperstick   only reachable with multi-purpose stick

**REMARKS**

The values are stated in tons (t) or lbs. The pump pressure for this table is 360 bar (5220 psi). The values amount to 75 % of the static tipping load or 87 % of the hydraulic lifting force (marked \*). 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. The values specified "non-supported" only apply when the load is hoisted above the front or rear axle.

The weight of the attached load hoisting implement (grab, magnet, load hook, linkage, bucket cylinder, etc.) must be deducted from the carrying capacity values. The weight for the linkage and bucket cylinder is 200 kg (440 lbs).

In accordance with EC guidelines, hose-rupture safety valves on the lift cylinders and an overload warning device are required for crane operations.

**CAB**

- Cab: ergonomically shaped driver's cab with functional design and good all-round visibility; infinitely variable, hydraulically height-adjustable cab with max. eye level of 4.8 m (15' 9")
- Driver's seat: mechanically cushioned comfort seat with safety belt, multi-adjustable to suit any driver.
- Heating: infinitely variable hotwater heating with 3-speed fan.
- Air conditioning as standard.
- Option: air cushioned comfort seat with integrated headrest..
- Sound power level (guaranteed) LW(A) = 102 dB(A).

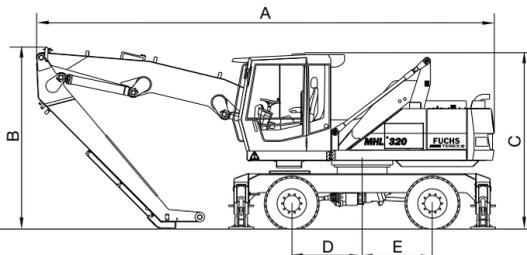
**OFFICIAL HOMOLOGATION**

- Certification according to CE-regulations.

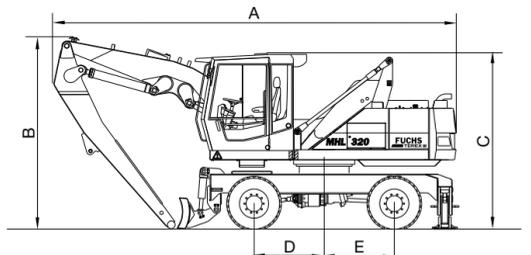
**TRANSPORT DIMENSIONS**

Dimension	4-pt. stabilizers	2-pt. stabilizers with support blade
	(box-type boom 5.2 m/17')	(box-type boom 4.2 m/14')
mm/in.		
A	8130/320"	7170/282"
B	3300/130"	3500/138"
C	3145/124"	3145/124"
D	1250/49"	1250/49"
E	1250/49"	1250/49"

Transport dimensions on a flat-bed trailer  
 4-pt. stabilizers (box-type boom 5.2 m/17')



Transport dimensions on a flat-bed trailer  
 2-pt. stabilizers with support blade (box-type boom 4.2 m/14')



**SAFETY EQUIPMENT**

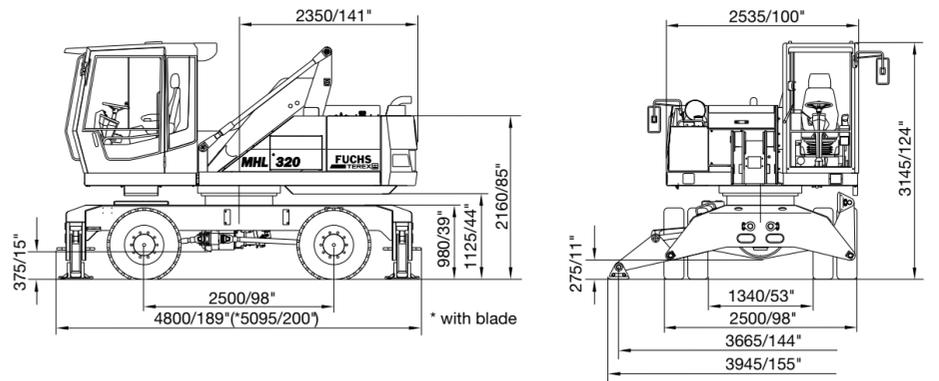
- Required when machine is used for load hook operations in compliance with EN 474-5. Protection of cab ensured by work equipment operating range limiter.

**GRABS**

- 0.4 m³ (0.52 yd³) - 0.6 m³ (0.8 yd³) cactus grabs with cast central case and enclosed swing drive, grab jaws with wear-resistant grab liners and tips.

**OPTION: REVERSABLE FAN**

- Reversible intake direction; advantage: longer machine operating time in dusty environments.



**DIESEL ENGINE**

Manufacturer & type	Deutz-BF4M 2012 C
Design	4-cylinder, turbocharged
Engine output	84 kW (112 HP)
Nominal speed	2,000 rpm
Displacement	4 l (244 cb in)
Cooling system	Water and charge air cooling (temperature controlled fan speed)
Emission standards	COM II/TIER II
Air filter design	Two-stage filter with safety valve.
Fuel tank	300 l (79 US gal)

**SWING SYSTEM**

Ring gear	Internally toothed ring gear.
Drive	2-stage planetary gear with integrated multi-disc brake.
Uppercarriage swing speed	0 - 8 rpm

**UNDERCARRIAGE**

- Front axle: Planetary axle with integrated drum brake, rigidly mounted. Max. steering angle 30°.
- Rear axle: Planetary axle with integrated drum brake, oscillating, with oscillating axle lock to be engaged if required.

Stabilizers	4-point stabilizers and 2-point stabilizers with support blade.
Twin tires	Solid rubber, elastic tires 9.00 - 20

**BRAKES**

Service brake	Hydraulic single-circuit braking system acting on all four wheel pairs.
Parking brake	Hydraulic disc brake on transmission.

**ELECTRICAL SYSTEM**

Operating voltage	24 V
Batteries	2 x 12 V / 100 Ah/760 A (to EN)
Lighting	2 uppercarriage-mounted headlamps, 1 dipperstick-mounted working floodlight.
Option	Magnet system 9 kW

**TRAVEL DRIVE**

- Hydrostatic transmission through variable displacement motor with directly mounted travel brake valve. 2-speed transmission.
- |                                  |                              |
|----------------------------------|------------------------------|
| Travel speed / max. gradeability | 0-20 km/h (12.4 mp/h) / 55 % |
| Turning radius                   | 7.0 m (23')                  |

**OPERATING WEIGHTS**

Basic machine including work equipment and 4-pt. stabilizers (including 0.4 m³/0.52 yd³ cactus grab)	
Reach 9,5 m (31')	19.000 kg (41,900 lbs)
Basic machine including work equipment and 2-pt. stabilizers with support blade (including 0.4 m³/0.52 yd³ cactus grab)	
Reach 8,2 m (27')	19.000 kg (41,900 lbs)

**HYDRAULIC SYSTEM**

- Single circuit hydraulic system with load-sensing function and torque control valve for torque-controlled swing drive – independent from other consumers.
- Separate oil cooler with large cooling surface, temperature controlled revolutions of fan.
- Hydraulic filter element incorporated in oil tank.
- Central lubrication system as standard.

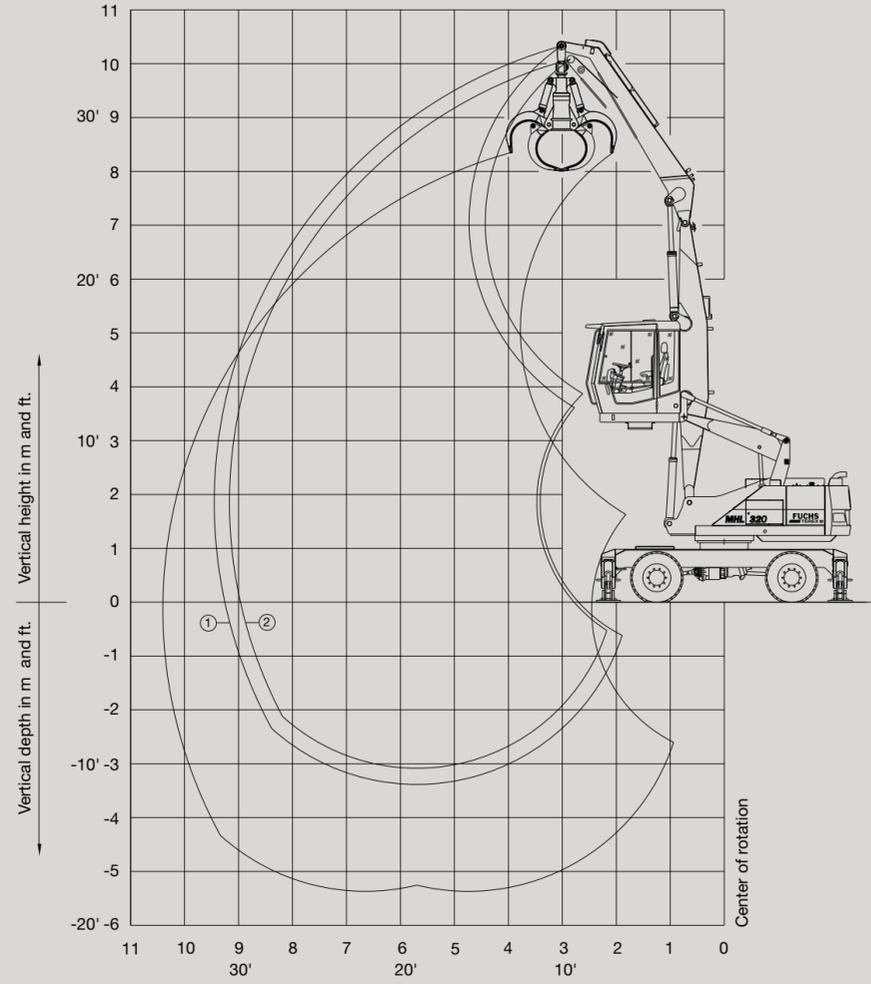
Max. pump capacity	290 l/min. (at 2,000 rpm) (77 US gal/min)
Max. operating pressure	360 bar (5220 psi)
Hydraulic oil tank	275 l (72.6 US gal)

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**WORKING DIAGRAM**

MHL 320 (reach 9.5 m/31').  
 • Work equipment: box-type boom 5.2 m/17', dipperstick 4.0 m/13' or multi-purpose stick 3.7 m/12'.

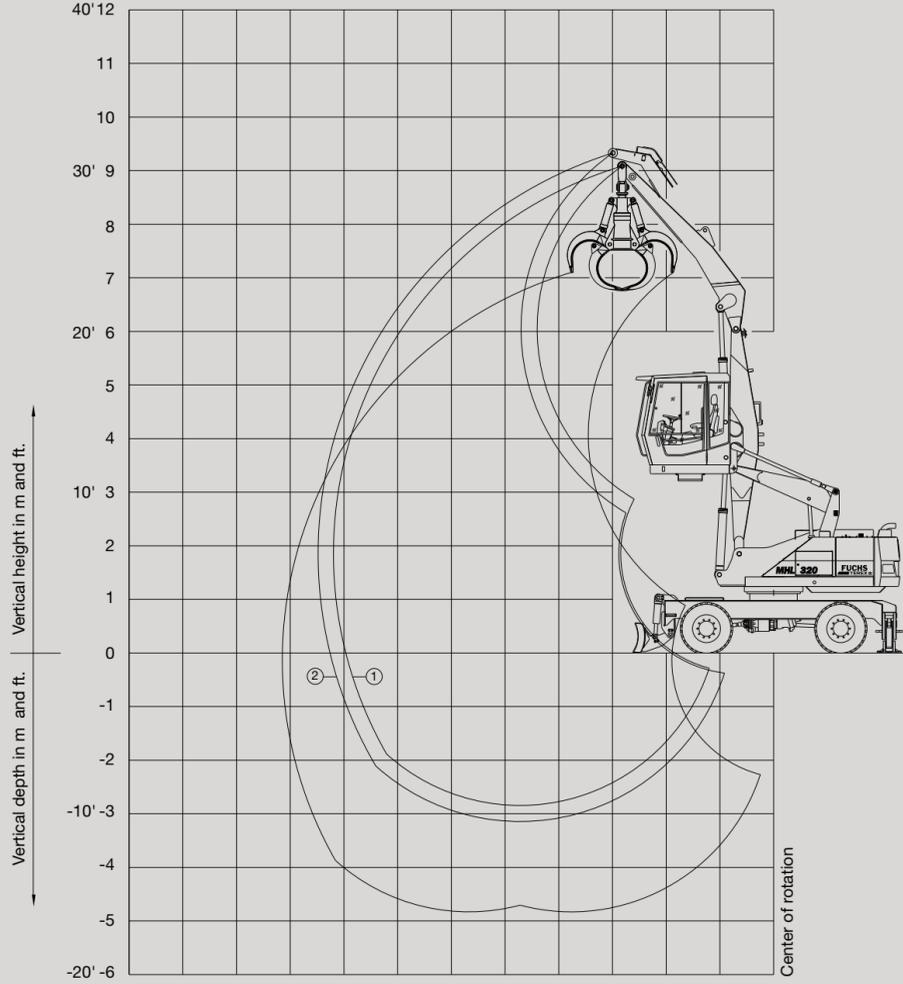


- ① mit dipperstick 4,0 m (13')
- ② with multi-purpose stick 3,7 m (12')

Horizontal reach in m and ft.

**WORKING DIAGRAM**

MHL 320 (reach 8.2 m/27').  
 • Work equipment: box-type boom 4.2 m/14', multi-purpose stick 3.7 m/12' or dipperstick 4.0 m/13'.



- ① with multi-purpose stick 3,7 m (12')
- ② mit dipperstick 4,0 m (13')

Horizontal reach in m and ft.

**LIFTING CAPACITY**

MHL 320 (reach 8.2 m/27').  
 • Work equipment: box-type boom 4.2 m/14', multi-purpose stick 3.7 m/12' or dipperstick 4.0 m/13'.

Height in m	Undercarriage stabilizers	Reach in m				
		3	4.5	6	7.5	9
9	non supported					
	4-pt. supported					
	2-pt. blade-supported					
7.5	non supported		(6.2')	(4.1)		
	4-pt. supported		6.2* (6.2')	4.5* (4.5')		
	2-pt. blade-supported		6.2* (6.2')	4.5* (4.5')		
6	non supported		(6.2')	(4.1)		
	4-pt. supported		6.2* (6.2')	5.4* (5.4')		
	2-pt. blade-supported		6.2* (6.2')	5.4* (5.4')		
4.5	non supported		(6.2')	(4.1)	(2.9)	
	4-pt. supported		6.2* (6.2')	5.5* (5.5')	4.6 (4.8')	
	2-pt. blade-supported		6.2* (6.2')	5.4* (5.5')	3.7 (4.8')	
3	non supported	(9.2')	(6.2)	(4.0)	(2.9)	
	4-pt. supported	9.2* (9.2')	7.2* (7.2')	5.8* (5.8')	4.5 (4.8')	
	2-pt. blade-supported	9.2* (9.2')	7.2* (7.2')	5.2 (5.8')	3.7 (4.8')	
1.5	non supported	(11.0)	(5.9)	(3.9)	(2.8)	
	4-pt. supported	13.5* (13.5')	8.4* (8.4')	6.2* (6.2')	4.5 (4.7')	
	2-pt. blade-supported	13.5* (13.5')	7.8 (8.4')	5.0 (6.2')	3.6 (4.7')	
0	non supported	(5.0)	(5.6)	(3.8)	(2.8)	
	4-pt. supported	8.5* (8.5')	8.7* (8.7')	6.1* (6.1')	4.4* (4.4')	
	2-pt. blade-supported	8.5* (8.5')	7.5 (8.7')	4.9 (6.1')	3.6 (4.4')	
-1.5	non supported	(8.0')	(5.5)	(3.7)	(2.8)	
	4-pt. supported	8.0* (8.0')	7.6* (7.6')	5.2* (5.2')	3.2* (3.2')	
	2-pt. blade-supported	8.0* (8.0')	7.4* (7.6')	4.9 (5.2')	3.2* (3.2')	
-3	non supported		(4.8')			
	4-pt. supported		4.8* (4.8')			
	2-pt. blade-supported		4.8* (4.8')			

Height in ft.	Undercarriage stabilizers	Reach in ft.				
		10	15	20	25	30
30	non supported					
	4-pt. supported					
	2-pt. blade-supported					
25	non supported		(13,670')	(9,000)		
	4-pt. supported		13,670* (13,670')	9,920* (9,920')		
	2-pt. blade-supported		13,670* (13,670')	9,920* (9,920')		
20	non supported		(13,670')	(9,000)		
	4-pt. supported		13,670* (13,670')	11,900* (11,905')		
	2-pt. blade-supported		13,670* (13,670')	11,900* (11,905')		
15	non supported		(9,000)		(6,400)	
	4-pt. supported		13,670* (13,670')	12,120* (12,125')	10,140 (10,580')	
	2-pt. blade-supported		13,670* (13,670')	11,900* (12,125')	8,160 (10,580')	
10	non supported	(20,280')	(13,670)	(8,820)	(6,400)	
	4-pt. supported	20,280* (20,280')	15,870* (15,870')	12,790* (12,787')	9,920 (10,580')	
	2-pt. blade-supported	20,280* (20,280')	15,870* (15,870')	11,470 (12,787')	8,160 (10,580')	
5	non supported	(24,250)	(13,000)	(8,600)	(6,170)	
	4-pt. supported	29,760* (29,760')	18,520* (18,520')	13,670* (13,670')	9,920 (10,360')	
	2-pt. blade-supported	29,760* (29,760')	17,200* (18,520')	11,000 (13,670')	7,940 (10,360')	
0	non supported	(11,000)	(12,350)	(8,380)	(6,170)	
	4-pt. supported	18,740* (18,740')	19,200* (19,200')	13,450* (13,450')	9,700* (9,700')	
	2-pt. blade-supported	18,740* (18,740')	16,535 (19,180')	10,800 (13,450')	7,940 (9,700')	
-5	non supported	(17,640')	(12,125)	(8,160)	(6,170)	
	4-pt. supported	17,640* (17,640')	16,755* (16,755')	11,460* (11,470')	7,050* (7,050')	
	2-pt. blade-supported	17,640* (17,640')	16,314* (16,755')	10,800 (11,470')	7,050* (7,050')	
-10	non supported		(10,582')			
	4-pt. supported		10,582* (17,196')			
	2-pt. blade-supported		10,582* (10,582')			

Values are valid for working diagram on page 3.   only reachable with multi-purpose stick   only reachable with dipperstick

**REMARKS**

The values are stated in tons (t) or lbs. The pump pressure for this table is 360 bar (5220 psi). The values amount to 75 % of the static tipping load or 87 % of the hydraulic lifting force (marked \*). 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. The values specified "non-supported" only apply when the load is hoisted above the front or rear axle.

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