

US

Material Handler | F-Series













TECHNICAL DATA

OPERATING WEIGHT WITHOUT ATTACHMENTS

1HL320 F 42,549–46,297 lbs

DIESEL ENGINE

DIESEL ENGINE				
	U.S. Tier 4 / EU Stage V	U.S. Tier 3 / EU Stage IIIA*		
Manufacturer and model	Deutz TCD 3.6 L04	Deutz TCD 3.6 L04 EDG		
Design	4-cylinder in-line engine	4-cylinder in-line engine		
Functionality	4-cycle diesel, common rail direct injection, turbocharged with intercooler, controlled exhaust gas recirculation, diesel particulate filter with continuous regeneration and SCR catalytic converter	4-cycle diesel, common rail direct injection, turbocharged with intercooler		
Engine power	127 hp (95 kW)	127 hp (95 kW)		
Rated speed	2000rpm	2000rpm		
Displacement	220 cui	220 cui		
Cooling system	Water and charge air cooling with temperature controlled fan speed	Water and charge air cooling with temperature controlled fan speed		
Exhaust emission standard	U.S. Tier 4 / EU Stage V	U.S. Tier 3 / EU Stage IIIA *		
Fuel tank	81 gal Diesel	81 gal Diesel		
DEF / Urea tank	5.3 gal AdBlue			

ELECTRIC MOTOR

Power	75 kW
Total connected load	100 kW
Motor start	Via soft start
Optional cable reel	Up to 164 ft (other lengths on request)

ELECTRICAL SYSTEM

Alternator	28V / 100 A
Operating voltage	24V
Battery	$2\times12V/110Ah/750A$ (according to EN)
Lighting system	$2\times \text{LED}$ headlamps, turn indicators and tail lights
Optional equipment	9kW or 11kW DC generator with controls and insulation monitoring

TRAVEL DRIVE

Hydrostatic travel drive via infinitely variable axial piston motor with directly mounted travel brake valve, two-speed manual gearshift, 4-wheel drive

Travel speed 1st gear	max. 3.1 mph
Travel speed 2nd gear	max. 11.8 mph
Gradeability	max. 40%
Turning radius	23'3"
Turning radius with all-wheel steering	14'8"

SLEWING DRIVE

Slewing ring	Internally geared, double-row ball turning ring
Drive	2-stage planetary gear with integrated multi-disc brake
Uppercarriage swing speed	0–8 rpm variable
Slewing lock	Electrically activated

UNDERCARRIAGE

Front axle	Planetary drive axle with integrated drum brake, rigidly mounted max. steering angle: 30°	
Rear axle	Oscillating planetary drive rear axle with integrated drum brake and selectable oscillating lock	
Outrigger	4-point stabilizers 2-point-stabilizers with support blade	
Tires	10.00-20 solid rubber with intermediate rings	

BRAKES

Service brake	Hydraulic single-circuit braking system acting on all four wheel pairs (drum brakes)
Parking brake	Electrically operated spring-loaded drum brake at transmission, acting on both front and rear axle

HYDRAULIC SYSTEM

Max. pump capacity	77 gpm
Max. operating pressure	4641 / 5221 psi
Hydraulic oil tank	73 gal

OPERATOR'S CA	AB			
Cab	Infinitely variable hydraulic height-adjustment with eye level up to 17'4" above ground			
	with pull-down sunblind, viewing	Sound-deadened, heat-insulated windows, windshield with pull-down sunblind, viewing window on cab roof, sliding window in cab door, sliding door		
Air conditioning	temperature control and 8-speed	Automatic air-conditioning. Hot water heating with variable temperature control and 8-speed fan, 10 adjustable air nozzles, including 4 in the roof lining, 3 defroster nozzles		
Operator's seat	Air-sprung comfort seat with integrated headrest, safety belt, and lower lumbar support, optional seat heating. Ilows comfortable working by offering universal adjustment possibilities of the seat position, the seat incline, and the position of the seat cushion in relation to the armrests and joysticks			
Monitoring	Ergonomic layout, anti-glare instrumentation. Multifunction display, automatic monitoring and recording of abnormal operating conditions (including all hydraulic oil filters, hydraulic oil temperature (cold/hot), coolant temperature and charge air temperature, diesel particulate filter load, visual and audible warning indication with shutdown of pilot controls/engine power reduction. Diagnosis of individual sensors possible via the multifunction display. Rear view camera and side view camera			
	U.S. Tier 4 / EU Stage V	U.S. Tier 3 / EU Stage IIIA*		
Noise level	Sound power level (ambience) L_{wA} 97.7 dB(A) (metered) acc. to directive 2000/14/EC L_{wA} 99 dB(A) (guaranteed) acc. to directive 2000/14/EC	Sound power level (ambience) L_{wa} 99.3 dB(A) (metered) acc. to directive 2000/14/EC L_{wa} 100 dB(A) (guaranteed) acc. to directive 2000/14/EC		
	Sound pressure level (inside the cabin) acc. to standard ISO 6396 L _{pA} 72dB(A)	Sound pressure level (inside the cabin) acc. to standard ISO 6396 $L_{\rm pA}$ 69 dB(A)		
Vibrations	Weighted r.m.s. value of accelera under 2.5 m/s² (98 in/s²)	tion of upper limbs		
	Weighted effective value of acceleration for the seat and feet under 0.5 m/s² (20 in/s²)			
Certified in accordance with C	E regulations			

* for low-regulated markets

EQUIPMENT

CAB

Safety glass

Hydraulically adjustable cab

Sliding window in cab door

Reinforced glass P5A (windscreen and roof panel)
Windshield washer system (Windshield)

ENGINE	Standard	Option
Intercooler and coolant radiator	•	
Direct electronic fuel injection / common rail	•	
Advanced automatic idle incl. engine shut-off function	•	
Engine diagnostics interface	•	
Temperature-dependent fan drive	•	
UNDERCARRIAGE		
All-wheel drive	•	
Drum brake	•	
Rear axle oscillating lock	•	
2-speed powershift transmission		•
4-point stabilizers	•	
Dozer blade in addition to 4-point stabilizers		•
2-point stabilizers and support blade		•
Stabilizer cylinders with integrated two-way check valves	•	
Piston rod protection on stabilizer cylinders	•	
Tool box	•	
Special paint (customer paint work)		•
Solid rubber tires (10.00-20) with intermediate rings	•	
UPPERCARRIAGE Separate cooling system for engine and hydraulic oil cooler	•	
Cooling system with temperature-dependent fan drive	•	
Fan drive reversing function	•	
Automatic central lubrication system	•	
Rear view camera	•	
Side view camera	•	
Travel alarm		•
Electric refuelling pump		•
Lighting protection		•

CAB	Standard	Option
Roof washer system (roof panel)		•
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	•	
Seat heating		•
Joystick steering	•	
Steering column, height and tilt adjustable		•
Automatic air conditioning system	•	
Independent heating system		•
Multi-function display	•	
Document clip	•	
FOPS Guard		•
Front & FOPS Guard		•
12 V transformer		•
Radio USB & Bluetooth (EU & USA) Radio CD & USB (other countries)	•	
12V socket		•
Fire extinguisher, dry powder		•
Travel alarm w/ rotating beacon		•
OTHER EQUIPMENT 9kW DC generator with controls		•
11kW DC generator with controls		•
Close proximity range limiter for dipperstick	•	-
Coolant and hydraulic oil level monitoring system	•	
Overload and working range monitoring		•
Filter system for attachments		•
Hose rupture valves for boom cylinder		•
Hose rupture valves for stick cylinder		•
Overload warning device		•
Quick coupling on dipperstick	•	
Dipperstick impact protection		•
Active cyclone prefilter (TOP AIR)		•
Hydraulic oil preheating		•
Lubrication of the grab suspension by central lubrication system	•	
Light packages LED		•
LED front headlights	•	
LED working lights cabin roof front	•	
Boom cylinder damping system (piston accumulator)		•
Fuchs Telematics System, incl. 5 years contract	•	

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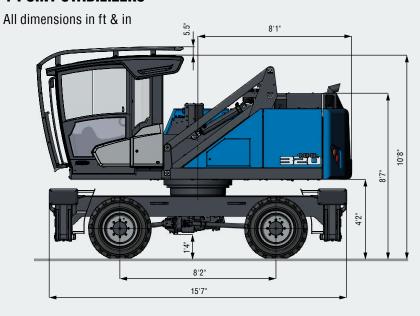


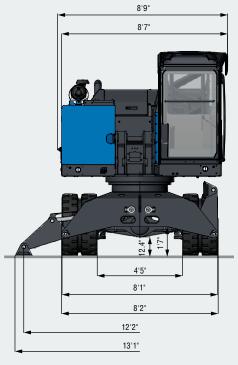




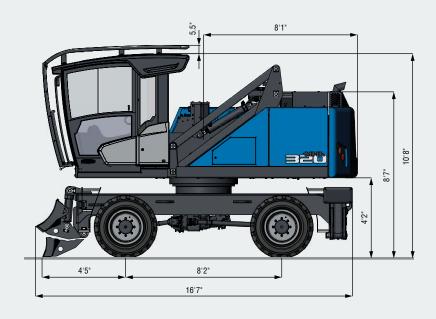
DIMENSIONS

4-POINT STABILIZERS

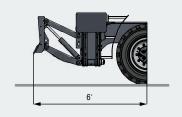




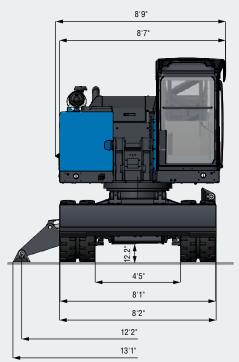
2-POINT STABILIZERS AND SUPPORT BLADE



DOZER BLADE IN ADDITION TO 4-POINT STABILIZERS

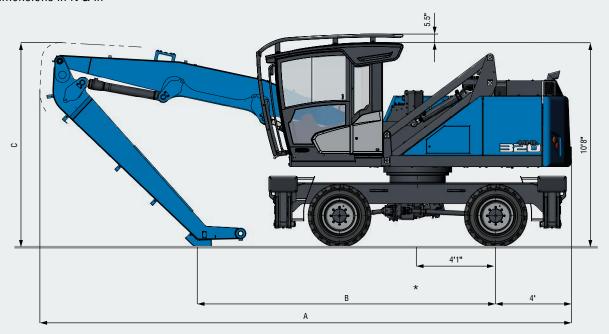




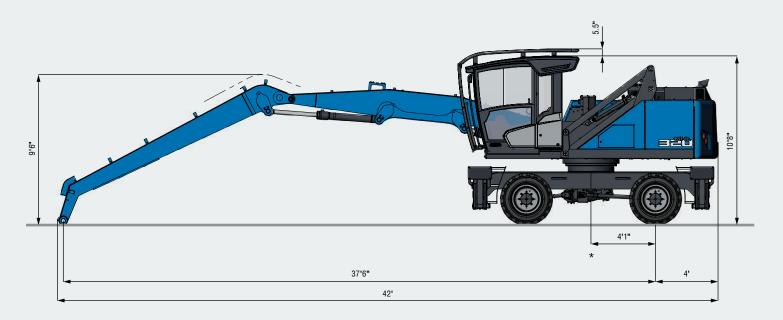


TRANSPORT DIMENSIONS

All dimensions in ft & in



* Average center of gravity in transport position



	26'8" **	30'2" **	31'2"	34'1"
A	24'7	28'3"	28'	26'5"
В	11'4"	13'6"	15'6"	13'2"
С	10'3"	9'4"	10'7"	15'8"

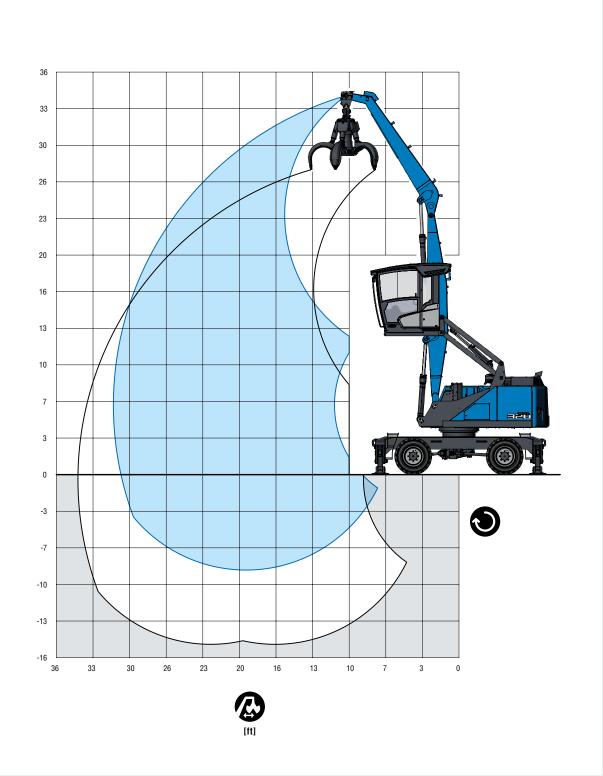
** Multi-purpose stick

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31'2" WITH DIPPER STICK



LOADING EQUIPMENT	
Boom	17'1"
Dipper stick	13'1"
Cactus grab (open shells)	0.52 yd ³

RECOMMENDED ATTACHMENTS

Recommended attachments upon request

LIFTING CAPACITY

		15 ft	20 ft	25 ft	30 ft	
	™o™o™	(14,500°)				
30 ft	to <u>_</u> or	14,500° (14,500°)				
	/ତ ୍ ଦ୍ରୀ	14,500° (14,500°)				
	"o " o"		(10,100)			
25 ft	lo <u>≖</u> oı		12,600° (12,600°)			
	/ତ " ତୀ		12,600° (12,600°)			
	"o " o"		(10,100)	(7,100)		
20 ft	ro ≖ on		12,700° (12,700°)	10,800° (10,800°)		
	/ତ " ତୀ		12,600 (12,700°)	8,900 (10,800°)		
	™o ™ o™	(15,300)	(9,800)	(7,000)	(5,300)	
15 ft	ro ≖ oı	16,600° (16,600°)	13,300° (13,300°)	11,000° (11,000°)	8,500 (8,900°)	
	/o = o1	16,600° (16,600°)	12,400 (13,300°)	8,800 (11,000°)	6,600 (8,900°)	
	™o™o™	(14,500)	(9,400)	(6,800)	(5,200)	
10 ft	ro ≖ oı	18,900° (18,900°)	14,100° (14,100°)	11,000 (11,100°)	8,400 (8,800°)	
	/ତ " ତୀ	18,700 (18,900°)	11,900 (14,100°)	8,600 (11,100°)	6,500 (8,800°)	
	™o™o™	(13,600)	(9,000)	(6,600)	(5,100°)	
5 ft	to <u>−</u> oı	20,300° (20,300°)	14,400° (14,400°)	10,800 (11,000°)	8,200° (8,200°)	
	/o = o1	17,700 (20,300°)	11,500 (14,400°)	8,400 (11,000°)	6,500 (8,200°)	
	™o™o™	(13,000)	(8,700)	(6,500)	(5,100)	
0 ft	to <u>≖</u> oı	19,100° (19,100°)	13,600° (13,600°)	10,100° (10,100°)	6,900° (6,900°)	
	/ତ " ତୀ	17,000 (19,100°)	11,200 (13,600°)	8,200 (10,100°)	6,400 (6,900°)	
	™o™o™	(12,800)	(8,600)	(6,400)	. ,	
−5 ft	to <u>−</u> oı	15,200° (15,200°)	11,200° (11,200°)	8,000° (8,000°)		
	/ତ " ତୀ	15,200° (15,200°)	11,000 (11,200°)	8,000° (8,000°)		
					max. reach 3	
	™o™o™				(4,800)	
6,2 ft	ro ≖ oı				7,500° (7,500°)	
	/o = o1				6,100 (7,500°)	



Important notes regarding the load capacities

The lift capacity values are stated in imperial pounds (lbs). The pump pressure is 5,221 psi. In accordance with ISO 10567 the lift capacity values represents 75% of the static tipping loads or 87% of the hydraulic lifting force (marked °). On solid and level ground the values apply to a swing range of 360°. The (...) values apply in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed. In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. For object handling application the machine has to be supported on a level ground.





Engine power



Service weight without attachments



Center of rotation





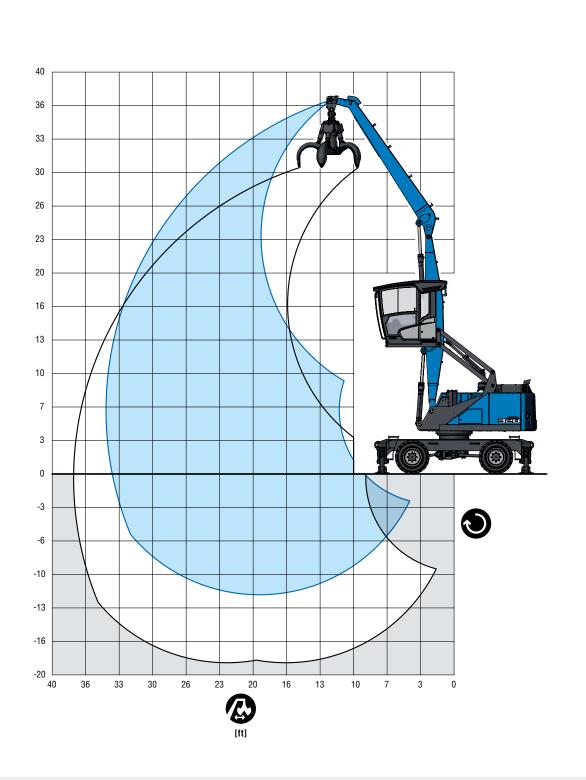


4-point supported





34'1" WITH DIPPER STICK



LOADING EQUIPMENT

Boom 17'1" Dipper stick 16'4" Cactus grab (open shells) $0.52\,yd^3$

RECOMMENDED ATTACHMENTS

Recommended attachments upon request

LIFTING CAPACITY

		15 ft	20 ft	25 ft	30 ft
	™o™o™	(11,500°)			
35 ft	ro ≖ oı	11,500° (11,500°)			
	/o = o1	11,500° (11,500°)			
	™o™o*		(10,400)		
30 ft	ro ≖ oı		10,900° (10,900°)		
	/o = o1		10,900° (10,900°)		
	™o™o™		(10,500)	(7,300)	
25 ft	to <u>−</u> oı		11,100° (11,100°)	10,000° (10,000°)	
	/ତ " ତୀ		11,100° (11,100°)	9,100 (10,000°)	
	™o ™ o*		(10,400)	(7,300)	(5,400)
20 ft	ro − oı		11,300° (11,300°)	10,000° (10,000°)	8,600° (8,600°)
	/o = o1		11,300° (11,300°)	9,100 (10,000°)	6,800 (8,600°)
	™o™o*		(10,200)	(7,200)	(5,400)
15 ft	to <u>−</u> or		12,000° (12,000°)	10,300° (10,300°)	8,600 (8,900°)
	/ତ " ତୀ		12,000° (12,000°)	9,000 (10,300°)	6,700 (8,900°)
	™o [™] o*	(15,100)	(9,700)	(7,000)	(5,300)
10 ft	to <u>−</u> oı	16,700° (16,700°)	13,100° (13,100°)	10,700° (10,700°)	8,400 (8,900°)
	/o = o1	16,700° (16,700°)	12,200 (13,100°)	8,700 (10,700°)	6,600 (8,900°)
	™o™o™	(14,000)	(9,200)	(6,700)	(5,100)
5 ft	ro − oı	19,300° (19,300°)	14,000° (14,000°)	11,000° (11,000°)	8,300 (8,700°)
	/o = o1	18,200 (19,300°)	11,700 (14,000°)	8,400 (11,000°)	6,500 (8,700°)
	™o™o™	(13,200)	(8,800)	(6,500)	(5,000)
0 ft	to <u>−</u> oı	20,000° (20,000°)	14,100° (14,100°)	10,700° (10,700°)	8,100° (8,100°)
	/ତ " ତୀ	17,200 (20,000°)	11,200 (14,100°)	8,200 (10,700°)	6,300 (8,100°)
	™o™o™	(12,700)	(8,500)	(6,300)	(4,900)
−5 ft	to <u>−</u> oı	17,900° (17,900°)	12,800° (12,800°)	9,500° (9,500°)	6,600° (6,600°)
	/ତ " ତୀ	16,700 (17,900°)	10,900 (12,800°)	8,000 (9,500°)	6,300 (6,600°)
	™o™o™	(12,600)	(8,400)	(6,300)	. ,
-10 ft	ro ≖ oı	13,300° (13,300°)	9,800° (9,800°)	6,900° (6,900°)	
	/o - o1	13,300° (13,300°)	9,800° (9,800°)	6,900° (6,900°)	
					max. reach
	™o™o™				(4,200)
6,2 ft	to <u>−</u> oı				6,700° (6,700°)



Important notes regarding the load capacities

The lift capacity values are stated in imperial pounds (lbs). The pump pressure is 5,221 psi. In accordance with ISO 10567 the lift capacity values represents 75% of the static tipping loads or 87% of the hydraulic lifting force (marked °). On solid and level ground the values apply to a swing range of 360°. The (...) values apply in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed. In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. For object handling application the machine has to be supported on a level ground.



Reach



Service weight without attachments



Center of rotation



Height





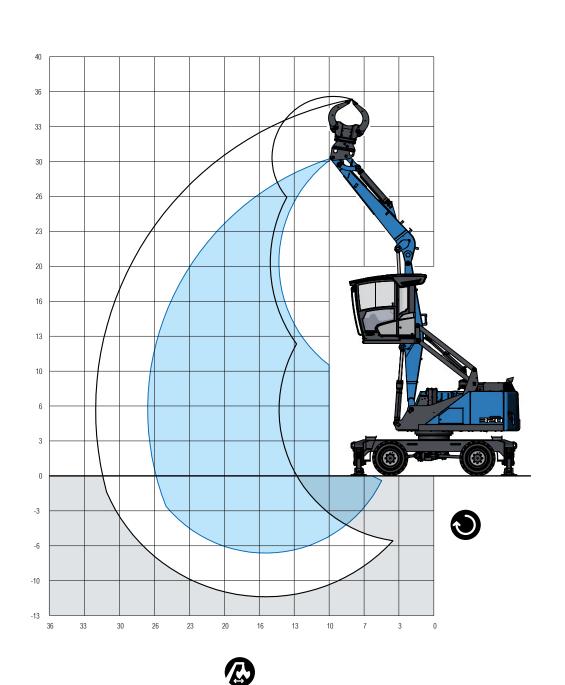
5,300 (6,700°)

4-point supported





26'8" WITH MULTI-PURPOSE STICK



LOADING EQUIPMENT

Boom 13'7"

Dipper stick 12'1"

Cactus grab (open shells) 0.59yd³

RECOMMENDED ATTACHMENTS

Recommended attachments upon request

LIFTING CAPACITY

_		10 ft	15 ft	20 ft	25 ft
	™o™o™		(15,000°)		
25 ft	to <u>≖</u> oı		15,000° (15,000°)		
	/o = o1		15,000° (15,000°)		
	™o™o™		(15,000°)	(9,600)	
20 ft	ro ≖ oı		15,000° (15,000°)	13,000° (13,000°)	
	/o = o1		15,000° (15,000°)	12,200 (13,000°)	
	"o " o"		(15,100)	(9,500)	(6,600)
15 ft	to <u>≖</u> oı		15,900° (15,900°)	13,200° (13,200°)	10,700° (10,700°)
	/ତ ୍ ଟ୍ରୀ		15,900° (15,900°)	12,000 (13,200°)	8,400 (10,700°)
	"σ"σ"	(20,900°)	(14,500)	(9,200)	(6,500)
10 ft	lo <u>≖</u> oJ	20,900° (20,900°)	18,100° (18,100°)	13,900° (13,900°)	10,700 (10,900°)
	/o [—] o1	20,900° (20,900°)	18,100° (18,100°)	11,700 (13,900°)	8,300 (10,900°)
	"o [™] o"	(23,100)	(13,700)	(8,900)	(6,400)
5 ft	to <u>_</u> or	23,100 (23,100)	20,100° (20,100°)	14,300° (14,300°)	10,400° (10,400°)
	/ତ <mark>=</mark> ତୀ	23,100 (23,100)	17,800 (20,100°)	11,400 (14,300°)	8,100 (10,400°)
	"o [™] o"	(16,400°)	(13,100)	(8,600)	(6,300)
0 ft	to <u>_</u> or	16,400° (16,400°)	19,500° (19,500°)	13,300° (13,300°)	8,800° (8,800°)
	/ତ <mark>=</mark> ତୀ	16,400° (16,400°)	17,200 (19,500°)	11,100 (13,300°)	8,000 (8,800°)
	"o [™] o"	(17,700°)	(12,900)	(8,500)	
−5 ft	lo <u>⊸</u> or	17,700° (17,700°)	15,200° (15,200°)	10,100° (10,100°)	
	/ତ " ତୀ	17,700° (17,700°)	15,200° (15,200°)	10,100° (10,100°)	
					max. reach 26'
	"o [™] o"				(5,600)
6 ft	to <u>≖</u> oı				8,800° (8,800°)
	/o = o1				7,200 (8,800°)

(i)

Important notes regarding the load capacities

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Reach



Engine power



Service weight without attachments



Center of rotation



Height





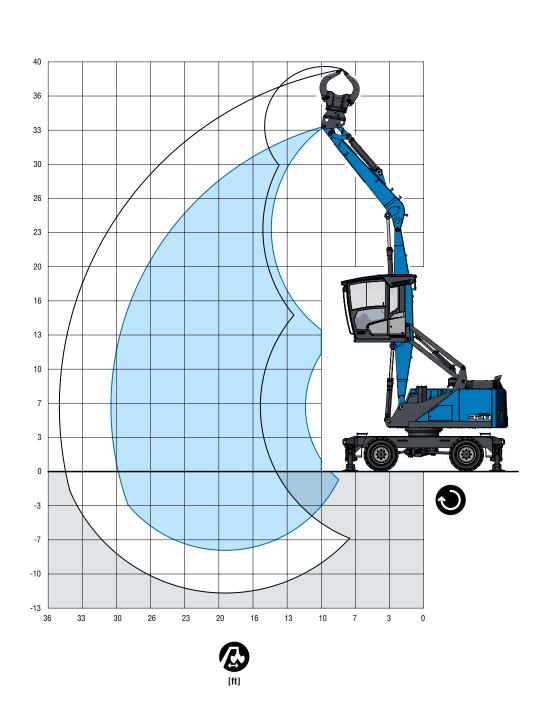
4-point supported

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30'2" WITH MULTI-PURPOSE STICK



LOADING EQUIPMENT	
Boom	17'1"
Universal stick	12'1"
Sorting grapple	0.59 yd^3

RECOMMENDED ATTACHMENTS

Recommended attachments upon request

LIFTING CAPACITY

		15 ft	20 ft	25 ft	30 ft
	™o™o™	(14,300°)			
30 ft	ro _ oı	14,300° (14,300°)			
	/ତ " ତୀ	14,300° (14,300°)			
	ਾਰ " ਰਾ	(15,000°)	(9,600)		
25 ft	ro ≖ oı	15,000° (15,000°)	12,400° (12,400°)		
	/ତ " ତୀ	15,000° (15,000°)	12,200 (12,400°)		
	"σ " σ"	(15,200°)	(9,600)	(6,600)	
20 ft	ro − oı	15,200° (15,200°)	12,400° (12,400°)	10,400° (10,400°)	
	/ତ " ତୀ	15,200° (15,200°)	12,100 (12,400°)	8,400 (10,400°)	
	"o " o"	(14,700)	(9,300)	(6,500)	
15 ft	ro ≖ oı	16,700° (16,700°)	12,900° (12,900°)	10,500° (10,500°)	
	/ତ " ତୀ	16,700° (16,700°)	11,800 (12,900°)	8,300 (10,500°)	
	™ο [™] ο1	(13,800)	(8,900)	(6,300)	(4,700)
10 ft	ro ≖ oı	18,700° (18,700°)	13,600° (13,600°)	10,500° (10,500°)	7,900° (7,900°)
	/ତ " ତୀ	18,000 (18,700)	11,400 (13,600°)	8,100 (10,500°)	6,100 (7,900°)
	"o " o"	(12,900)	(8,500)	(6,100)	(4,600)
5 ft	ro ≖ oı	19,600° (19,600°)	13,700° (13,700°)	10,200° (10,200°)	7,200° (7,200°)
	/ତ " ତୀ	17,000 (19,600°)	10,900 (13,700°)	7,800 (10,200°)	6,000 (7,200°)
	™o™o™	(12,300)	(8,200)	(6,000)	
0 ft	ro ≖ oı	17,700° (17,700°)	12,600° (12,600°)	9,100° (9,100°)	
	/ତ " ତୀ	16,400 (17,700°)	10,600 (12,600°)	7,700 (9,100°)	
	"o [™] o"	(12,200)	(8,000)	(5,900)	
−5 ft	ro ≖ oı	13,300° (13,300°)	9,900° (9,900°)	6,600° (6,600°)	
	/ଚ <mark>=</mark> ତୀ	13,300° (13,300°)	9,900° (9,900°)	6,600° (6,600°)	
					max. reach 30'
	"o""o"				(4,500)
6,2 ft	ro − oı				7,100° (7,100°)
	/o = o1				5,800 (7,100°)

Important notes regarding the load capacities

The lift capacity values are stated in imperial pounds (Ibs). The pump pressure is 5,221 psi. In accordance with ISO 10567 the lift capacity values represents 75% of the static tipping loads or 87% of the hydraulic lifting force (marked °). On solid and level ground the values apply to a swing range of 360°. The (...) values apply in the longitudinal direction of the undercarriage. The values for "not supported" only apply via the steering axle or the locked oscillating axle. The weights of the attached load hoisting equipment (grab, load hock, etc.) must be deducted from the lift capacity values. The working load of the lifting devise must be observed. In accordance with the EN 474-5 for object handling application hose rupture valves on the boom and stick cylinders, an overload warning device and the lift capacity table in the cab are required. For object handling application the machine has to be supported on a level ground.





Engine



Service weight without attachments



Center of rotation





Undercarriage



4-point supported





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