



**TEREX® | FUCHS**

**MHL 340D**

**MATERIAL HANDLER**

<b>ENGINE</b>	171 HP (128 kW)
<b>WEIGHT</b>	60,627 - 63,934 lbs (27.5 t - 29 t)
<b>REACHES</b>	41.4' (12.6 m) 45' (13.7 m)

- ▶ High performance 171 hp (128 kW) Deutz turbocharged diesel engine (TIER III/COM III/EPA III)
- ▶ Operating weight 60,627 - 63,934 lbs (27.5 - 29 t)
- ▶ Efficient hydraulic system
- ▶ Improved lifting capacities
- ▶ Multi functional display
- ▶ Low noise levels

RECYCLING MACHINE  
**MHL 340D**



www.terex.com

# LIFT HIGHER. REACH FURTHER.



## THE BOTTOM LINE...IS YOUR BOTTOM LINE.

Your success requires performance. MHL 340D provides the performance you need through high lifting capacities, long reach and fast working cycles. All at an operating weight of 60,627 lbs (27.5 t) through 63,934 lbs (29 t).

## STABILITY TO SPARE

MHL340D's redesigned undercarriage allows you to work with confidence. The optimized loading system geometry and the new boom design provide enhanced lifting capacities throughout the complete operating range. The MHL340D offers both 41.4' (12.6 m) or 45' (13.7 m) reach configurations.





**WORK FASTER.**

### **FAST AND SMOOTH**

The new, 2-circuit hydraulic system optimizes hydraulic performance, allowing for faster working cycles and precise and smooth motion. Simultaneous movements of dipperstick/grab and dipperstick/boom increases productivity. Minimum power loss lowers fuel consumption and cost.

### **MACHINE FEATURES**

#### **AT A GLANCE**

- ▶ Increased reach and lifting capacities through newly designed undercarriage and optimized lifting geometry
- ▶ Higher maximum operating weight
- ▶ 2-circuit hydraulic system with very high degree of efficiency and minimum power dissipation
- ▶ Fast working cycles and load-independent, combined movements



# HIGHER PRODUCTIVITY

## LOWER OPERATING COSTS

### OPTIMUM POWER

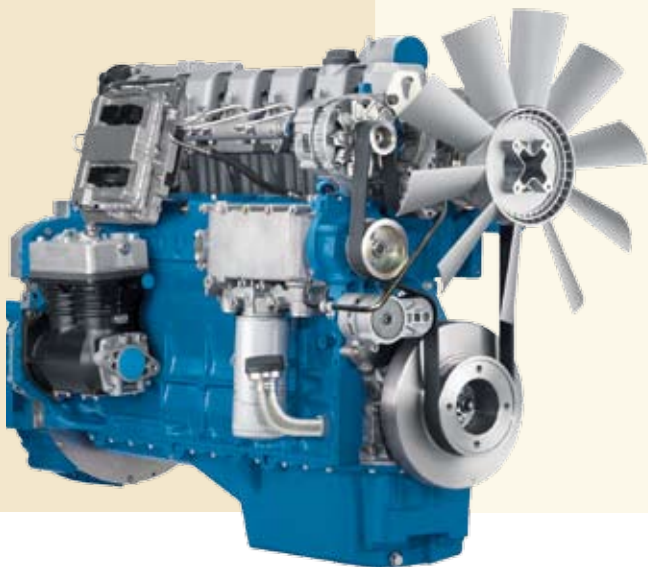
The MHL 340D is powered at 2,000 rpm by a 171 hp (128 kW) fuel-efficient Deutz engine that meets COM III and Tier III emissions requirements.

Whether you're dealing with rapid power cycles or unwieldy loads – hydraulic performance is consistent and matched to the task at hand, allowing for excellent fuel efficiency and lower operating costs.



### ENGINE FEATURES AT A GLANCE

- ▶ Solid performance of the 6-cylinder turbocharged Deutz diesel engine – 171 hp (128 kW) @2,000 RPM
- ▶ Low noise, low emission
- ▶ Optimum performance utilization and overload protection



### LOAD SENSING CONTROL

The MHL 340D is equipped with a state-of-the-art load sensing control system which ensures optimum engine performance in every speed range and protects against overload.

### EASY ON THE EARS

Sound levels have been lowered by more than 3db on the MHL 340D. A low-noise pump and a separate cooling system, large radiator and low fan speed contribute to the quiet operation of the machine.



# ELEVATE YOUR EXPECTATIONS



## CAB FEATURES

### AT A GLANCE

- ▶ Hydraulically elevating cab provides an excellent view of both the task at hand and equipment.
- ▶ Light and spacious interior
- ▶ Ergonomically designed operator cab puts everything right where you need it
- ▶ Contoured air cushioned seat with lumbar support, arm and headrests help keep you at your best





# PRODUCTIVITY ON DISPLAY

All relevant equipment data is constantly within view on the new, high-resolution color display. You maintain constant awareness of essential operating conditions, such as fuel remaining, coolant temperature and hydraulic oil temperature.



## DISPLAY SPECS AT A GLANCE

- ▶ Easy-to-scan color display
- ▶ Servicing and maintenance made easier via rapid screening of all operationally relevant data
- ▶ Comfortable user-interface with intuitive symbols and user friendly text messages





## A GREAT WORKING CLIMATE

### KEEP YOUR COOL

The separate cooling system insures optimum temperatures during operation.

### MORE CLIMATE PROTECTION

Further “clean-air” options are available, especially for operations in (sorting) sheds. These include Zyklon pre-separators, filter mats and reversible fans for clean intake air or the particulate filter for the exhaust gases and the airtight cab with pressurization and air supply to protect the operator in pollution-prone conditions.

### COOLING SYSTEM FEATURES

### AT A GLANCE

- ▶ Operating temperatures up to 50°C ambient air temperature
- ▶ Excellent cooling performance and low noise emissions
- ▶ Hydrostatically driven oil-cooling fan
- ▶ Thermostatically controlled oil cooling fan speeds
- ▶ Fan drive via viscous coupling in water/charge-air cooling system



## SIMPLE SERVICEABILITY

The easily accessible maintenance platform facilitates servicing substantially; components are located within easy view and reach. Platform access is via side-mounted maintenance access steps. Radiator, intercooler and oil-cooler are within easy reach from the ground.





# **EFFICIENCY THROUGH TECHN**

**MORE EFFECTIVE.**

## **OPTIMUM POWER**

Whether you're dealing with rapid power cycles or unwieldy loads – hydraulic performance is consistent and matched to the task at hand, allowing for excellent fuel efficiency and lower operating costs.

## **EFFICIENCY IN ACTION**

The innovative dual circuit hydraulic system means reduced fuel consumption through precisely calculated and coordinated oil feed.



# LOGY

**MORE PRODUCTIVE. MORE WITH LESS**

**INNOVATIVE DUAL CIRCUIT  
HYDRAULIC SYSTEM PROVIDES  
BOTH HIGH PRECISION  
HANDLING AND FREEDOM IN  
WORK MOTIONS**



## **GRACE UNDER PRESSURE**

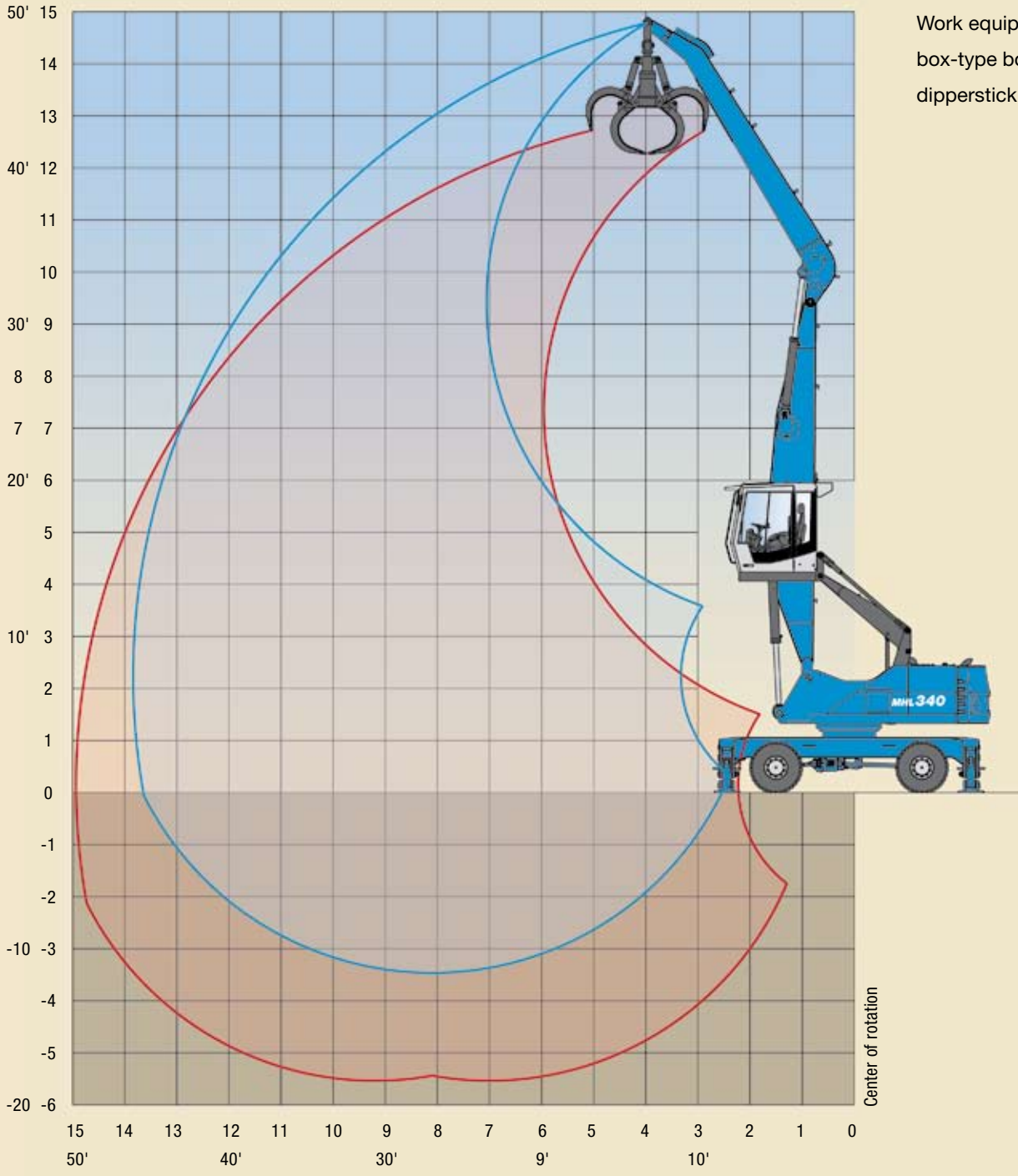
Proportional control and overlapping work motions allow for smooth operability, even with the heaviest of loads.





# WORKING DIAGRAM

MHL 340D REACH 45' (13.7 m)



Work equipment:  
box-type boom 23.6' (7.2 m),  
dipperstick 20.3' (6.2 m)

◀ Reach in ft and m



# LIFTING CAPACITY

## MHL 340D REACH 45' (13.7 m)

HEIGHT ft	UNDERCARRIAGE STABILIZERS	REACHES ft							
		10	15	20	25	30	35	40	45
45	non supported			(11,464*)					
	4-pt. supported			11,464* (11,464*)					
40	non supported				(11,684)	(11,684*)			
	4-pt. supported				11,905* (11,905*)	7,716* (7,716*)			
35	non supported				(11,905)	(8,598)	(6,393)		
	4-pt. supported				14,110* (14,110*)	11,684* (11,684*)	7,055* (7,055*)		
30	non supported				(11,905)	(8,598)	(6,393)		
	4-pt. supported				14,991* (14,991*)	13,007 (13,448*)	9,921 (10,803*)		
25	non supported				(8,379)	(8,378)	(6,392)	(4,850)	
	4-pt. supported				15,212* (15,212*)	12,787 (13,448*)	9,921 (12,125*)	7,716 (8,378*)	
20	non supported			(16,314)	(11,244)	(8,157)	(6,173)	(4,850)	
	4-pt. supported			18,960* (18,960*)	16,094* (16,094*)	12,566 (13,889*)	9,700 (11,905)	7,716 (9,480)	
15	non supported			(15,212)	(10,582)	(7,716)	(5,952)	(4,630)	(3,748)
	4-pt. supported			20,723* (20,723*)	16,314* (16,976*)	12,125 (14,330*)	9,480 (11,684)	7,496 (9,480)	5,291* (5,291*)
10	non supported		(21,605)	(13,889)	(9,700)	(7,275)	(5,732)	(4,409)	(3,527)
	4-pt. supported		31,306* (31,306*)	22,267 (22,708*)	15,432 (17,857*)	11,684 (14,550*)	9,039 (11,464)	7,275 (9,259)	5,952 (6,834*)
5	non supported		(18,739)	(12,346)	(9,039)	(6,834)	(5,291)	(4,189)	(3,527)
	4-pt. supported		33,290 (34,392*)	20,723 (24,030*)	14,550 (18,519*)	11,023 (13,889)	8,818 (11,023)	7,055 (9,039)	5,952 (7,055*)
0	non supported	(6,834*)	(16,755*)	(11,244)	(8,378)	(6,393)	(5,071)	(4,189)	(3,527)
	4-pt. supported	6,834 (6,834*)	16,755 (16,755*)	19,401 (23,810*)	13,889 (17,857)	10,582 (13,448)	8,598 (10,803)	7,055 (8,818)	5,952 (6,173*)
-5	non supported		(14,771*)	(10,803)	(7,937)	(6,173)	(4,850)	(4,189)	
	4-pt. supported		14,771 (14,771*)	18,739 (22,046*)	13,448 (17,198*)	10,362 (13,228)	8,378 (10,582)	6,834 (8,378*)	
-10	non supported			(10,582)	(7,716)	(5,952)			
	4-pt. supported			18,519* (18,519*)	13,228 (14,771*)	10,141 (11,684*)			

Capacity values are stated in metric tons (t) or lbs. The pump pressure is 5,148 psi (355 bar). The values, in accordance with ISO 10567, amount to 75% of the static tipping load or 87% of the hydraulic lifting force (marked \*). They apply to slewing operations through 360° on a firm and level surface. Values in brackets apply to the longitudinal direction of the undercarriage. “Non-supported” values only apply when the load is hoisted above the front or rear axle. The weight of the attached hoisting equipment (grab, magnet, load hook) must be deducted from the capacity values. If the Terex Fuchs quick-change system is mounted on the boom, capacity is reduced by 661 lbs. (300 kg). Load holding valves on the lift cylinders and an overload warning device are required for crane operations.

### RECOMMENDED ATTACHMENTS

Loading system 45' (13.7 m)

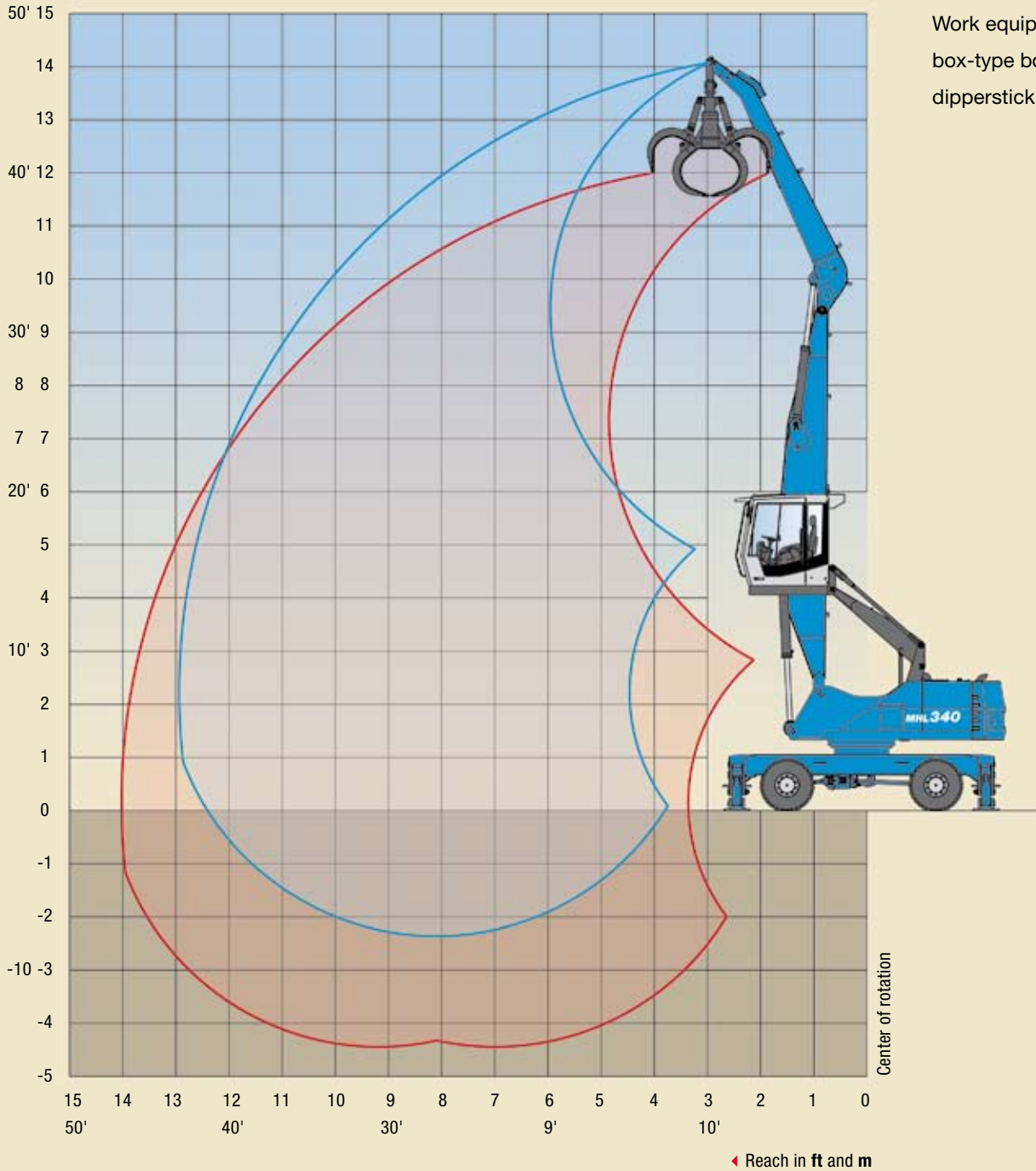
<b>LIFT HOOKS</b>	10 t
<b>TEREX Fuchs CACTUS GRABS 0.4 m³</b>	Open or half-closed shells
<b>TEREX Fuchs CACTUS GRABS 0.6 m³</b>	Open or half-closed shells
<b>TEREX Fuchs MAGNET PLATE MP 1350</b>	dia. = 1,350 mm with magnet system 17 kW
<b>CLAMSHELL GRAB 0.65 m³</b>	Density of bulk material up to 1,400 kg/m³
<b>CLAMSHELL GRAB 1.0 m³</b>	Density of bulk material up to 800 kg/m³



# WORKING DIAGRAM

MHL 340D REACH 41.4' (12.6 m)

Work equipment:  
box-type boom 23.6' (7.2 m),  
dipperstick (5.1 m)





# LIFTING CAPACITY

## MHL 340D REACH 41.4' (12.6 m)

HEIGHT ft	UNDERCARRIAGE STABILIZERS	REACHES ft					
		15	20	25	30	35	40
45	non supported	(15,873*)					
	4-pt. supported	15,873* (15,873*)					
40	non supported		(16,094)	(10,803)			
	4-pt. supported		16,976* (16,976*)	11,684* (11,684*)			
35	non supported		(16,535)	(11,244)	(8,157)		
	4-pt. supported		19,401* (19,401*)	16,755* (16,755*)	11,905* (11,905*)		
30	non supported		(16,535)	(11,464)	(8,378)	(6,173)	
	4-pt. supported		19,401* (19,401*)	16,535* (16,535*)	12,566 (14,550*)	9,700 (9,700*)	
25	non supported		(10,094)	(11,244)	(8,157)	(6,173)	
	4-pt. supported		19,842* (19,842*)	16,755* (16,755*)	12,566 (14,550*)	9,700 (11,905)	
20	non supported		(15,432)	(10,803)	(7,937)	(6,173)	(4,850)
	4-pt. supported		21164* (21,164*)	16,535 (17,416*)	12,346 (14,771)	9,480 (11,905)	7,716 (9,480*)
15	non supported	(22,708)	(14,330)	(10,141)	(7,716)	(5,952)	(4,630)
	4-pt. supported	30,865* (30,865*)	22,928* (22,928*)	15,873 (18,298*)	11,905 (14,771)	9,259 (11,684)	7,496 (9,480)
10	non supported	(19,842)	(13,007)	(9,480)	(7,275)	(5,732)	(4,630)
	4-pt. supported	34,613* (34,613*)	21,385 (24,251*)	15,212 (18,960*)	11,464 (14,330)	9,039 (11,464)	7,496 (9,259)
5	non supported	(13,448*)	(12,125)	(8,818)	(6,834)	(5,512)	(4,409)
	4-pt. supported	13,448* (13,448*)	20,283* (24,692*)	14,550 (18,519)	11,023 (13,889)	8,818 (11,244)	7,275 (9,259)
0	non supported	(11,684*)	(11,464)	(8,378)	(6,614)	(5,291)	(4,409)
	4-pt. supported	11,684* (11,684*)	19,401 (23,369*)	13,889 (17,857*)	10,803 (13,669)	8,589 (10,803)	7,275 (8,598*)
-5	non supported		(11,023)	(8,157)	(6,393)	(5,291)	
	4-pt. supported		19,180 (20,062*)	13,669 (16,094*)	10,582 (12,787*)	8,598 (9,921*)	

Capacity values are stated in metric tons (t) or lbs. The pump pressure is 5,148 psi (355 bar). The values, in accordance with ISO 10567, amount to 75% of the static tipping load or 87% of the hydraulic lifting force (marked \*). They apply to slewing operations through 360° on a firm and level surface. Values in brackets apply to the longitudinal direction of the undercarriage. “Non-supported” values only apply when the load is hoisted above the front or rear axle. The weight of the attached hoisting equipment (grab, magnet, load hook) must be deducted from the capacity values. If the Terex Fuchs quick-change system is mounted on the boom, capacity is reduced by 661 lbs. (300 kg). Load holding valves on the lift cylinders and an overload warning device are required for crane operations.

### RECOMMENDED ATTACHMENTS

Loading system 41.4' (12.6 m)

<b>LIFT HOOKS</b>	10 t
<b>TEREX FUCHS CACTUS GRABS 0.6 m³</b>	Open or half-closed shells
<b>TEREX FUCHS CACTUS GRABS 0.8 m³</b>	Open or half-closed shells
<b>TEREX FUCHS MAGNET PLATE MP 1250</b>	dia. = 1,250 mm with magnet system 13 kW
<b>CLAMSHELL GRAB 1.0 m³</b>	Density of bulk material up to 1,400 kg/m³
<b>CLAMSHELL GRAB 1.4 m³</b>	Density of bulk material up to 800 kg/m³



# Material Handler - MHL 340D

## TECHNICAL DATA

### MHL 340D



OPERATING WEIGHT	
	60,627 - 63,934 lbs (27.5 - 29 t)
DIESEL ENGINE	
<b>MANUFACTURER AND MODEL</b>	Deutz TCD 2012 L06 2V
<b>DESIGN</b>	6 cylinder inline
<b>ENGINE CONTROL</b>	EMR III
<b>TYPE</b>	4-stroke diesel engine, direct common-rail fuel-injection, turbocharger with intercooling
<b>ENGINE OUTPUT</b>	171 hp (128 kW)
<b>NOMINAL SPEED</b>	2000 min <sup>-1</sup>
<b>DISPLACEMENT</b>	1.6 US gal (6.0 L)
<b>COOLING SYSTEM</b>	Liquid intercooling with temperature controlled fan speed
<b>EMISSION STANDARDS</b>	COM III and EPA Tier III
<b>AIR FILTER DESIGN</b>	Two-stage filter with safety valve
<b>FUEL CAPACITY (USABLE)</b>	98 US gal (370 L)
ELECTRICAL SYSTEM	
<b>OPERATING VOLTAGE</b>	24 V
<b>BATTERIES</b>	2 x 12 V / 100 Ah / 760 A (in accordance with EN)
<b>LIGHTING SET</b>	1 dipper-stick-mounted floodlight, 1 headlight mounted to upper carriage, 1 floodlight attached to cabin floor, rear side-marker and turn signal lamps
<b>OPTION</b>	Magnet plate 13 kW or 17 kW
TRAVEL DRIVE	
	Hydrostatic drive through infinitely variable axial piston motor and directly mounted; travel brake valves, two-speed power shift gear, 4-wheel drive
<b>TRAVEL SPEED 1ST GEAR</b>	max 3.1 mph (5 km/h)
<b>TRAVEL SPEED 2ND GEAR</b>	max 12.4 mph (20 km/h)
<b>GRADEABILITY</b>	max 45%
<b>TURNING RADIUS</b>	26.9' (8.2 m)
SWING SYSTEM	
<b>RING GEAR</b>	Internally toothed ball ring gear (double row)
<b>DRIVE</b>	Three-stage planetary gear with integrated multi-disc brake
<b>UPPER CARRIAGE SWING SPEED</b>	Infinitely variable from 0 - 8 min <sup>-1</sup>
<b>PIVOT BRAKE</b>	Electrically operated

UNDERCARRIAGE	
<b>FRONT AXLE</b>	Planetary drive axle with integrated drum brake, rigidly mounted max steering angle: 27°
<b>REAR AXLE</b>	Oscillating planetary drive rear axle with integrated drum brake and selectable oscillating axle lock
<b>STABILIZERS</b>	4-point-stabilizers
<b>TIRES</b>	Solid rubber, elastic tires 8-fold 10.00 - 20
BRAKE SYSTEM	
<b>SERVICE BRAKE</b>	Hydraulically operated single circuit brake system acting on all four wheel pairs
<b>PARKING BRAKE</b>	Electrically operated disc brake at transmission, acting on both front and rear axle
HYDRAULIC SYSTEM	
	LINDE mobile hydraulic system with load limit control and fuel conserving power demand control. Separate oil cooler, temperature controlled fan speed. Hydraulic oil filter: integrated in the oil tank; maintenance interval: 3,000 operating hrs. Central lubrication system
<b>MAX PUMP CAPACITY</b>	2 x 320 L/min
<b>MAX OPERATING PRESSURE</b>	4714 / 5148 psi (325 / 355 bar)
<b>HYDRAULIC OIL TANK</b>	94 US gal (354 L)
OPERATOR CAB	
	Elastically supported, infinitely variable hydraulically height-adjustable with max. eye level of 18.4' (5.6 m). Sound-deadened, heat-insulated panoramic windows for optimum all-around view. Windshield with pull-down sunblind that slides under cab roof, sliding window in cab door. Steering column, height and tilt adjustable
<b>HEATING</b>	Infinitely variable hot water heating with 3-speed fan, 4 adjustable defroster nozzles.
<b>OPERATOR'S SEAT</b>	Air-cushioned comfort-seat with integrated headrest, safety belt and lumbar support, seat-heating with integrated a/c function optional. Seat position, seat inclination and seat cushion multi-adjustable in line with position of armrests and pilot control units, allowing fatigue-free operation.
<b>MONITORING</b>	Ergonomic instrument layout, glare-free. Function monitoring; warning and storage of deviating operating conditions, e.g. filter pressure w. warning indicator and shutdown of pilot controls, warning indicator resp. shutdown of pilot controls when exceeding hydraulic oil temperature limits.
<b>AIR CONDITIONING</b>	Automatic air conditioning
<b>SOUND POWER LEVEL</b>	(guaranteed) in accordance with guideline 2000/14 EG. L <sub>WA</sub> = 101 dB(A)
OFFICIAL HOMOLOGATION	
	Certification according to CE-regulations

# EQUIPMENT

## MHL 340D

ENGINE	STANDARD	OPTION
Turbocharger	●	
Intercooling	●	
Direct electronic fuel injection/common Rail	●	
Automatic idle	●	
Engine pre-heating		●
Interface for engine diagnosis	●	
Fan drive temperature controlled	●	

UNDERCARRIAGE	STANDARD	OPTION
2-speed power-shift transmission	●	
4-point-stabilizers	●	
4-point stabilizers individually controllable		●
Stabilizer (outrigger) cylinders with integrated two-way check valves	●	
All-wheel drive	●	
Piston rod protection on stabilizer cylinder	●	
Stabilizer (outrigger) plate 500 x 350	●	
Dozer blade in addition to 4-point stabilizers	●	
Rear axle oscillating lock	●	
Special paint		●
Drum brakes	●	
Tool box	●	

UPPERCARRIAGE	STANDARD	OPTION
Electrical refueling pump		●
Lighting protection		●
Maintenance hood, actuated by gas spring, w. mechanical locking device	●	
Lockable cleaning access openings on radiator	●	
Separate radiator system for ambient temperatures up to 50°C	●	
Separate oil cooler w. temperature controlled fan drive	●	
Automatic central lubrication system	●	
Back up alarm	●	
Special paint		●
Reversible fan for radiator and hydr. oil cooler		●

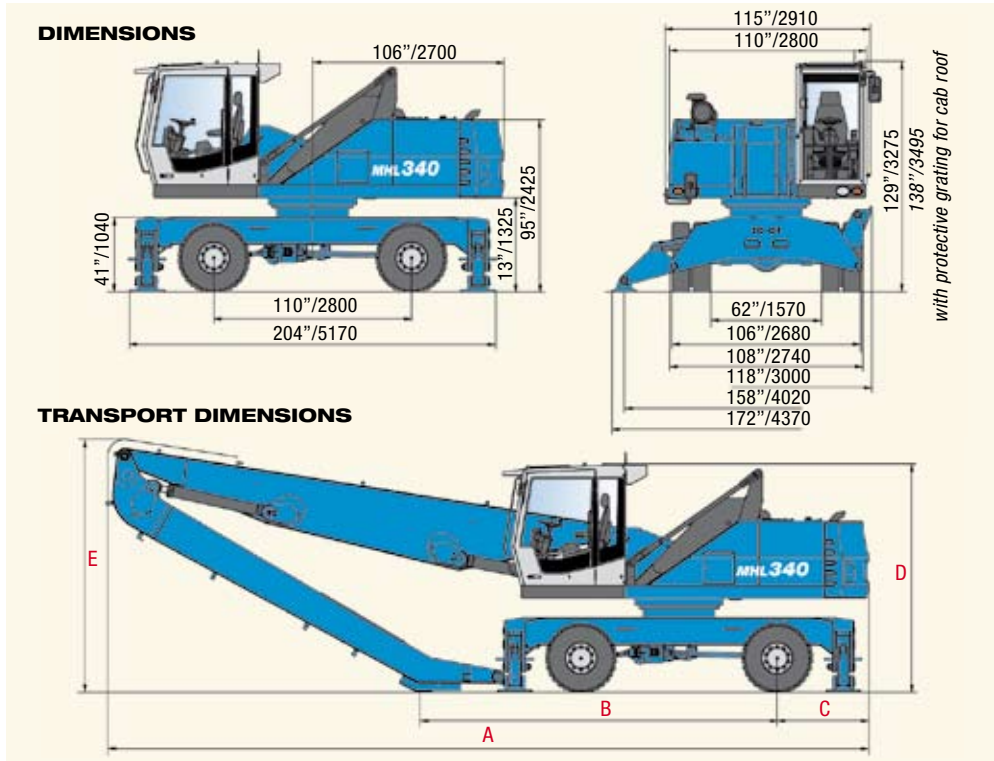
CAB	STANDARD	OPTION
Lift-up skylight in cabin roof	●	
Air cushioned operator's seat with headrest, safety belt and lumbar-support	●	
FOPS-protective grating		●
Front/roof protective grating		●
Hinged front windshield	●	
Front-windows break-resistant (LEXAN)		●
Bulletproof glass, front and top		●
Cab elevation, 3' 3" (1 m), rigid	●	
Cab system, height adjustable	●	
Air conditioning	●	
Steering column, height and tilt adjustable	●	
Multi functional display	●	
Fire extinguisher, dry powder		●
Cassette radio		●
Radio and CD Player	●	
Rotating beacon	●	
Sliding window in cab door	●	
Safety glass	●	
Seat heating with integrated a/c function		●
Engine independent heating		●
Windscreen washer system	●	

EQUIPMENT	STANDARD	OPTION
Working floodlights on cab floor	●	
Working floodlights on upper carriage	●	
Floodlight, dipperstick mounted	●	
Hydraulic oil preheating		●
Close proximity range limiter for dipperstick	●	
Coolant and hydraulic oil level monitoring system	●	
Loading holding protection for lift cylinder	●	
Load holding protection for stick cylinder	●	
Dipperstick shock protection	●	
Lubrication of grab suspension by central lubrication system	●	
Overload protection/shutdown		●
XENON-floodlight on dipperstick		●
XENON-floodlight , upper carriage		●
XENON-floodlight on cab roof		●
Quick-connect coupling on dipperstick	●	





# Material Handler - MHL 340D



DIMENSIONS	REACH 41.4' (12.6 m)	REACH 45' (13.7 m)
A	433" (11,000 mm)	433" (11,000 mm)
B	232" (5,900 mm)	197" (5,000 mm)
C	51" (1,300 mm)	51" (1,300 mm)
D	129" (3,275 mm) / *138" (*3,495 mm)	129" (3,275 mm) / *138" (*3,495 mm)
E	128" (3,250 mm)	142" (3,600 mm)

\* with protective grating for cab roof



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For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local Terex Fuchs Distributor.

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