

TECHNICAL DATA

MATERIAL HANDLER | F-SERIES

MHL370



230 kW



49.2–54.3t



up to **18.2 m**



FUCHS
A TEREX BRAND



TOUGH JOB, ROUGH TERRAIN? BRING IT ON!

Our New MHL370 F is designed for heavy duty applications that require extra power, stability and toughness.

Feeding mega shredders or dumper, loading and unloading barges. You name it, the MHL370 F has it covered.





Boom Cylinder

- Extra lifting capacity
- More productivity

Single Solid Tires

- 59" for increased offroad capability
- HD design for superb durability

Massive HD Undercarriage

- Outstanding durability
- More stability

MHL370 F. 370 REASONS FOR A FUCHS.

Here are just a few.



Cabin

- Modular cab riser systems
- Catwalk on demand

Fuchs Service Platform

- Unique in its business
- Safe and comfortable access to engine, filters, etc.

High Performance Cooling System

- Physically separated
- Huge coolers and direct airflow for outstanding cooling capacity

Big Counterweight

- Extra stability
- Still a small swingtail radius

Engine

- 230 kW for more agility
- One of the best fuel efficiency

EQUIPMENT AND OPTIONS.

Bespoke Technology, Tailored For You.



Joystick Steering

- Improved visibility
- More legroom and comfort



Multifunction Button

- Power on demand
- Additional fuel savings



7" Multi-Function Touch Display

- Easy and intuitive operation
- Full monitoring of the machine data



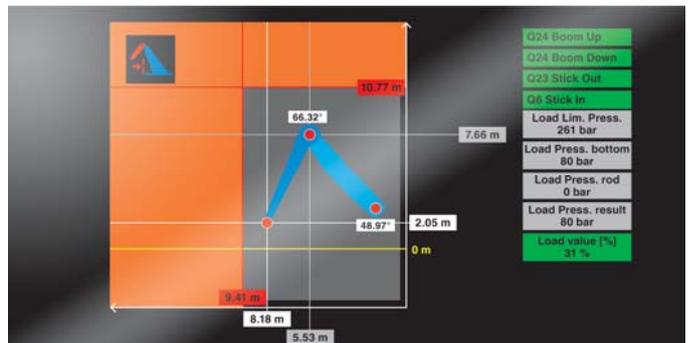
Float Switch*

- Lifts the boom automatically if too much pressure is applied
- Protects sensitive surfaces like the floor of barges



Rear and Side View Cameras

- Nightvision as an extra safety feature
- 360° surround view system on demand



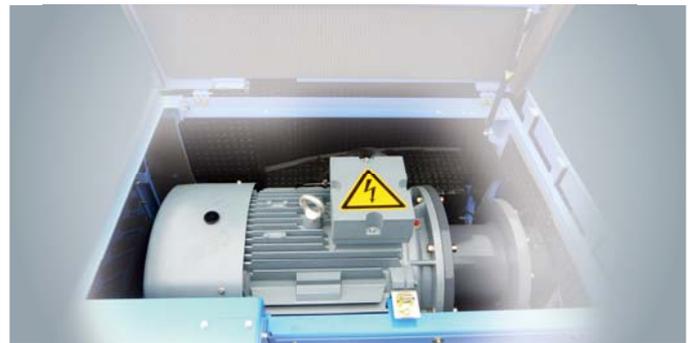
Overload Warning with Height and Reach Limiter*

- Easy set-up via the touch display
- Enhanced control for heavy loads



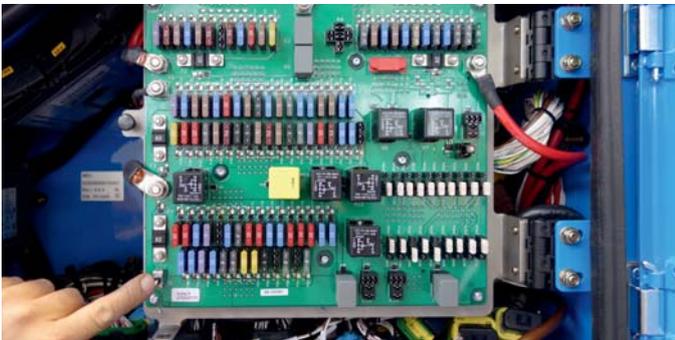
Attachment Filter*

- High pressure filter with monitoring
- Effective protection against hydraulic oil contamination



Electric Drive*

- Maximum efficiency
- Reduced service costs



CAN BUS and Rapid Fuse Tester

- State of the art technology
- Clever fuse tester as a little helper – just in case



Active Cyclone Prefilter*

- Less dust in your air filter, no loss of airflow and engine power
- Longer uptime of your air filter



Built-in Fuchs Quality

- Massive distribution block prevents hoses from extreme bending
- Quality in detail



Tracked Undercarriage*

- Even more stability
- Less ground pressure
- Flat shoes or triple grousers

* special equipment on demand

TECHNICAL DATA

SERVICE WEIGHT WITHOUT ATTACHMENT

MHL370 F	49.2–54.3 t
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DIESEL ENGINE

Manufacturer and model	Deutz TCD 7.8 L6 4V
Design	6-cylinder inline
Engine control	EMR IV
Type	4-stroke diesel, common rail direct injection, turbo-charger, controlled exhaust gas recirculation, diesel particulate filter with automatic regeneration and SCR-cat
Engine output	230 kW
Nominal speed	2,000 min ⁻¹
Displacement	6,6 l
Cooling system	Combi-cooler (coolant/charge air) with fan speed control system; optional reversing function
Emission standard	Stage IV / EPA Tier 4 final
Air filter design	Two-stage filter with safety cartridge and pre-separator with discharge valve
Usable tank capacity	Diesel tank: 580 l, AdBlue (DEF) tank: 50 l

ELECTRICAL SYSTEM

Generator	28 V / 100 A
Operating voltage	24 V
Battery	2 × 12 V / 110 Ah / 750 A
Lighting set	2 × H3 headlamps, turn indicators and tail lights
Option	20 kW or 30 kW DC generator with controls and insulation monitoring, driven by V-belt direct from diesel engine

TRANSMISSION

Hydrostatic travel drive via infinitely variable axial piston motor with directly mounted travel brake valve, two-speed manual gearshift, 4-wheel drive	
Maximum speed 1st gear	max. 5 km/h
Maximum speed 2nd gear	max. 15 km/h
Gradeability	max. 30 %
Turning radius	8.0 m

SLEWING GEAR

Swing gear	Internally toothed double-row ball ring gear
Drive	3-stage planetary gear with integrated multi-disc brake
Upper carriage swing speed	0–6 min ⁻¹ infinitely variable
Swing lock	Electrically operated
Max. pivot torque	91 kNm

UNDERCARRIAGE

Front axle	Planetary drive axle with integrated drum brake, rigidly mounted, max. steering angle 27°
Rear axle	Oscillating planetary drive rear axle with integrated drum brake and selectable oscillating axle lock
Stabilizers	4-point stabilizers
Tyres	Solid rubber 470 × 1499 mm (SETCO)

BRAKE SYSTEM

Service brake	Hydraulic single-circuit braking system, acting on all four wheel pairs
Parking brake	Electrically operated disc brake on transmission, acting on both front and rear axles

HYDRAULIC SYSTEM

BOSCH-REXROTH mobile hydraulic system with load limit control and fuel-saving power demand control; closed swing circuit; hose rupture valves with regeneration on the lift and stick cylinders for fuel-efficient work	
Hydraulic oil filter	Integral return filter in oil tank for work hydraulics, with 3000 operating hrs service interval; oil filtration on closed swing circuit
Max. pump capacity	2 × 280 l/min & 1 × 140 l/min (for swing operation)
Max. operating pressure	320 / 360 bar
Hydraulic oil tank	535 l usable tank capacity

OPERATOR CAB

Cab raising system	Infinitely variable hydraulically elevatable with max. eye level of 6.29 m (option: independent forward movement of up to 2.20 m); Sound-deadened; heat-insulated windows; windshield with pull-down sunblind that slides under the cab roof; viewing window on cab roof; sliding window in cab door; height and tilt-adjustable steering column
Heating	Infinitely variable heating with 3-speed fan, 6 adjustable defroster nozzles (hot water system)
Operator's seat	Air-cushioned comfort-seat with integrated headrest, safety belt and lumbar support, seat heating with integrated A/C function optional. Comfortable operation with multi-purpose adjustment options for seat position, seat inclination, and seat cushion placement in relation to armrests and pilot control units
Monitoring	Ergonomic layout; anti-glare instrumentation. Multi-function 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.
Air conditioning	Automatic
Acoustic power level	LW(A) = 102 dB(A)

OFFICIAL HOMOLOGATION

Certified in accordance with CE regulations



EQUIPMENT

ENGINE	Standard	Option
Exhaust gas turbocharger	●	
Charge air cooling	●	
Direct electronic fuel injection/common rail	●	
Automatic idle	●	
Engine preheating		●
Engine diagnostics interface	●	
System-controlled fan drive with fan speed monitoring	●	

UNDERCARRIAGE

All-wheel drive with differential	●	
Drum brakes	●	
Rear axle oscillating lock	●	
2-speed powershift transmission	●	
4-point stabilizers	●	
Stabilizer cylinders with integrated safety check valves	●	
Piston rod protection on stabilizer cylinders	●	
Stabilizer plates 510 × 565 mm	●	
4-point stabilizers, individually controllable		●
Tool box	●	
Special paint (customer paint work)		●

UPPERCARRIAGE

Separate cooling systems (combi-cooler for engine and hydraulic oil cooler)	●	
Cooling system fan speeds controlled by operating parameters	●	
Fan drive reversing function		●
Lockable maintenance hatches, with gas struts	●	
Automatic central lubrication system	●	
Rear view camera	●	
Travel alarm		●
Electric refuelling pump		●
Lighting protection		●
Special paint (customer paint work)		●
Cyclone prefilter		●

CAB

	Standard	Option
Hydraulically adjustable cab	●	
Cab system horizontally and vertically adjustable		●
3-layer glass with protection film	●	
Hinged windscreen	●	
Sliding window in cab door	●	
Glazed roof panel	●	
Hinged roof opening	●	
Reinforced glass (windscreen and roof panel)		●
Windscreen washer system	●	
Windshield washer system (lower portion of windshield)		●
Air-cushioned operator seat with headrest, seatbelt, and lumbar support	●	
Seat heating with integrated A/C function		●
Steering column, height and tilt adjustable	●	
Automatic air conditioning system	●	
Independent heating system		●
Multi-function display	●	
Document clip	●	
Protective grilles to front and roof		●
12V transformer		●
Radio CD & USB		●
12V power outlet		●
Fire extinguisher, dry powder		●
Rotating beacon		●

EQUIPMENT

20 kW DC generator with controls and insulation monitoring		●
30 kW DC generator with controls and insulation monitoring		●
Close proximity range limiter for dipperstick	●	
Coolant and hydraulic oil level monitoring system	●	
Filter system for attachments		●
Hose rupture value for boom cylinder	●	
Hose rupture value for stick cylinder	●	
Overload warning device		●
Quick coupling on dipperstick	●	
Dipperstick impact protection		●
Active cyclone prefilter (TOP AIR)		●
Hydraulic oil preheating 230 V		●
Float switch		●
Joystick steering		●
Lubrication of the grab suspension by central lubrication system	●	
H3 front headlights	●	
Light packages H3 or LED		●
Fuchs Telematics System		●

Further optional equipment available on request!



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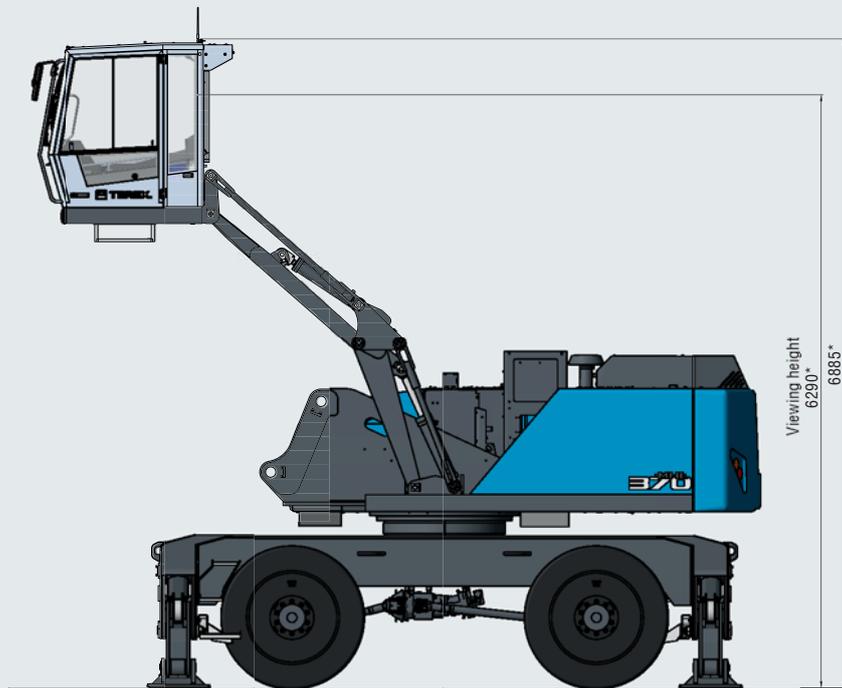
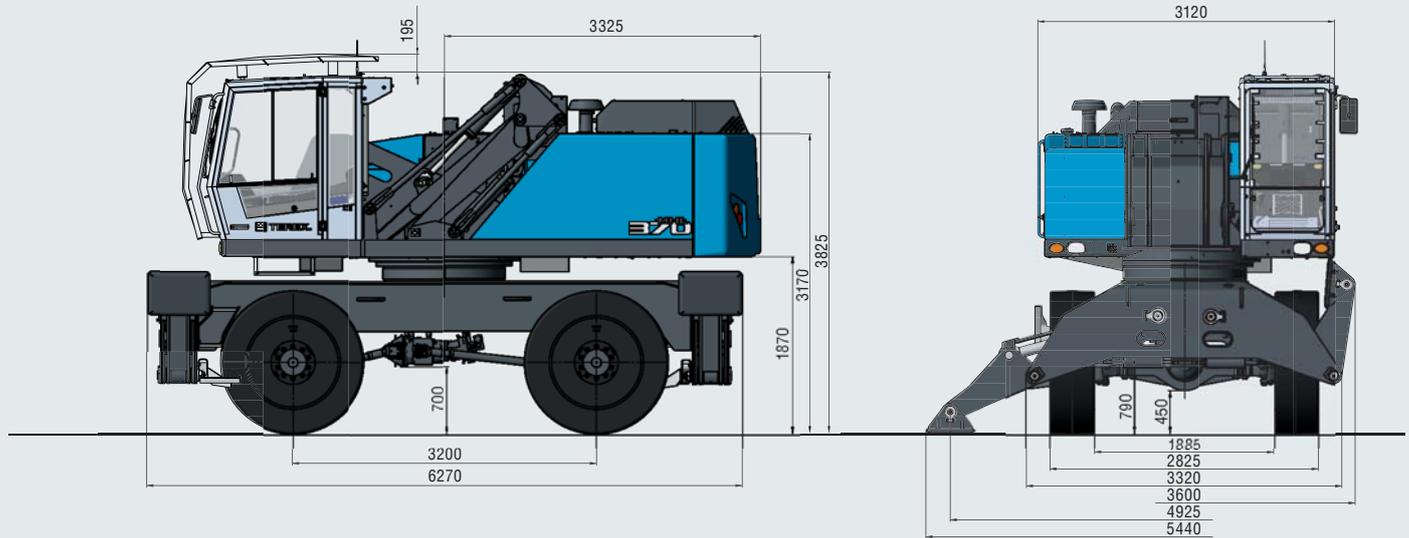
MHL370



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DIMENSIONS

All dimensions in mm

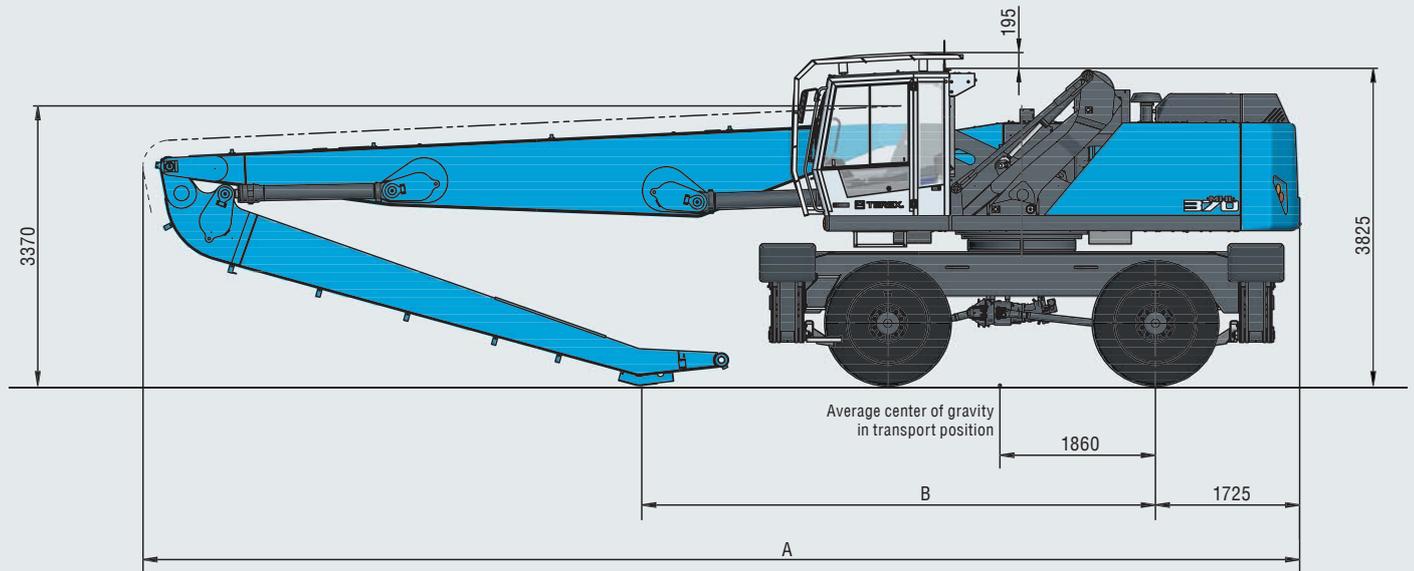


* Cab lift system optional



TRANSPORT DIMENSIONS

All dimensions in mm



Dimensions	Reach 16.7 m	Reach 18.2 m
A	13835	14645
B	6145	6175

WORKING RANGE

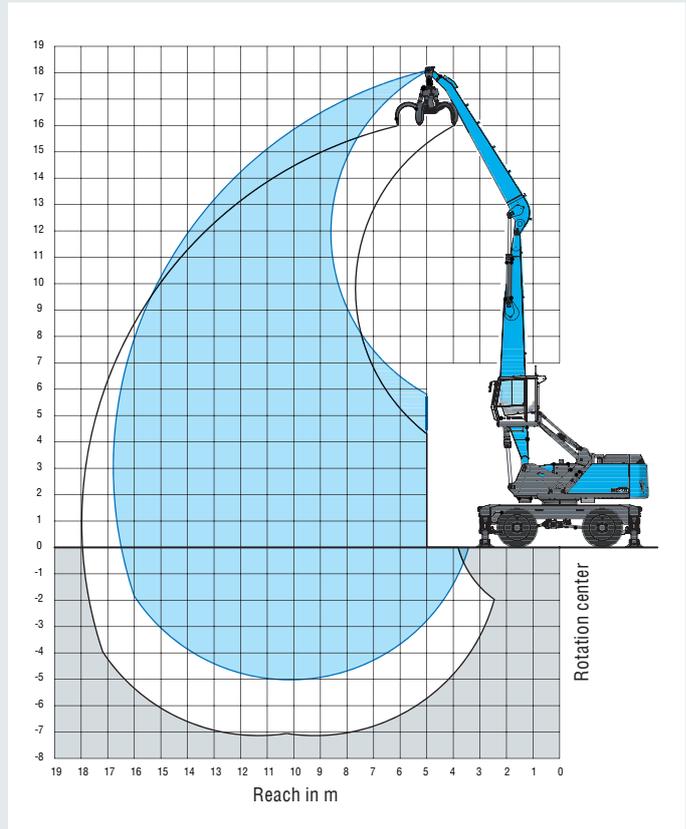
REACH 16.7 M WITH DIPPER STICK

Loading equipment	Boom 8.9 m Dipper stick 7.0 Cactus grab
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RECOMMENDED ATTACHMENTS

Fuchs cactus grab 0.6 m³	Open or half-closed
Fuchs cactus grab 0.8 m³	Open or half-closed
Fuchs magnetic plate MP 1350	dia = 1350 mm with 30 kW magnet system
Clamshell grab 1.4 m³	Density of materials handled up to 1,600 kg/m ³
Clamshell grab 2.0 m³	Density of materials handled up to 800 kg/m ³
Lift hook	20 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 bar. 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 hook, etc.) must be deducted from the lift capacity values. The working load of the lifting device 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.



LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]							
		6	7.5	9	10.5	12	13.5	15	16.5
16.5	4-point supported		8.7° (8.7°)	6.0° (6.0°)					
15	4-point supported			8.8° (8.8°)	6.7° (6.7°)				
13.5	4-point supported			9.9° (9.9°)	8.6° (8.6°)	6.5° (6.5°)			
12	4-point supported			10.4° (10.4°)	9.3° (9.3°)	8.3° (8.3°)	5.6° (5.6°)		
10.5	4-point supported			10.4° (10.4°)	9.3° (9.3°)	8.4° (8.4°)	7.6° (7.6°)		
9	4-point supported			10.7° (10.7°)	9.5° (9.5°)	8.5° (8.5°)	7.7° (7.7°)	6.0° (6.0°)	
7.5	4-point supported		13.1° (13.1°)	11.2° (11.2°)	9.8° (9.8°)	8.7° (8.7°)	7.6° (7.7°)	6.4° (6.9°)	
6	4-point supported	16.2° (16.2°)	14.1° (14.1°)	11.7° (11.7°)	10.1° (10.1°)	8.8° (8.8°)	7.5° (7.8°)	6.3° (6.9°)	3.9° (3.9°)
4.5	4-point supported	19.7° (19.7°)	15.1° (15.1°)	12.3° (12.3°)	10.4° (10.4°)	8.8° (8.9°)	7.3° (7.8°)	6.2° (6.8°)	4.9° (4.9°)
3	4-point supported	20.0° (20.0°)	15.8° (15.8°)	12.7° (12.7°)	10.4° (10.5°)	8.5° (9.0°)	7.1° (7.7°)	6.1° (6.6°)	5.3° (5.4°)
1.5	4-point supported	10.8° (10.8°)	15.9° (15.9°)	12.5° (12.7°)	10.0° (10.5°)	8.3° (8.9°)	7.0° (7.5°)	6.0° (6.4°)	5.0° (5.0°)
0	4-point supported	8.9° (8.9°)	15.3° (15.3°)	12.1° (12.3°)	9.8° (10.2°)	8.1° (8.5°)	6.9° (7.2°)	5.9° (5.9°)	
-1.5	4-point supported	9.0° (9.0°)	13.9° (13.9°)	11.4° (11.4°)	9.5° (9.5°)	7.9° (7.9°)	6.5° (6.5°)	5.1° (5.1°)	
-3	4-point supported	9.8° (9.8°)	11.9° (11.9°)	10.0° (10.0°)	8.3° (8.3°)	6.9° (6.9°)	5.5° (5.5°)		
-4.5	4-point supported			8.0° (8.0°)	6.7° (6.7°)	5.4° (5.4°)			
									Max. reach 16.7 m
3.1	4-point supported								4.0° (4.0°)



WORKING RANGE

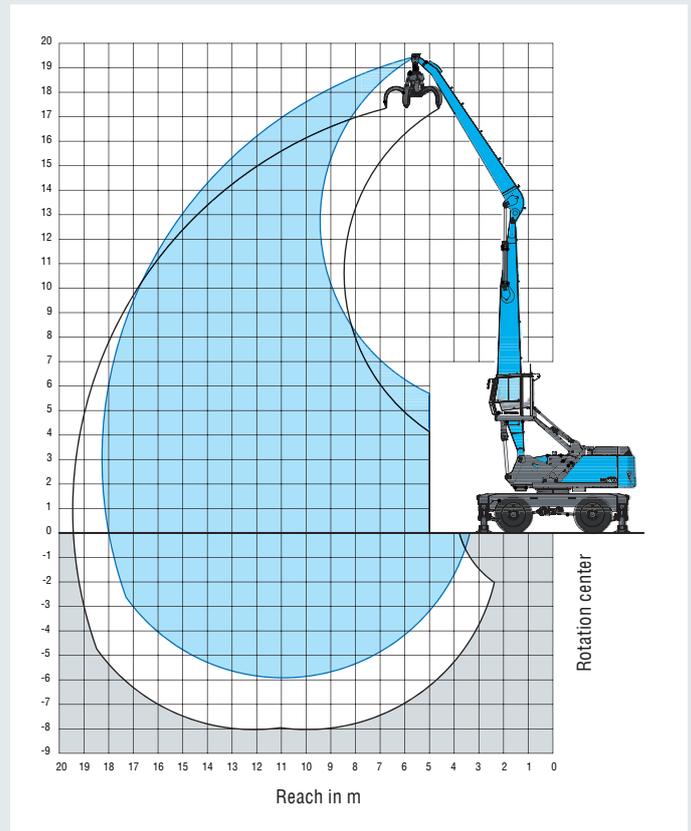
REACH 18.2 M WITH DIPPER STICK

Loading equipment	Boom 9.7 m
	Dipper stick 7.8 m
	Cactus grab

RECOMMENDED ATTACHMENTS

Fuchs cactus grab 0.6 m ³	Open or half-closed
Fuchs cactus grab 0.8 m ³	Open or half-closed
Fuchs magnetic plate MP 1350	dia = 1350 mm with 30 kW magnet system
Clamshell grab 1.4 m ³	Density of materials handled up to 1,600 kg/m ³
Clamshell grab 2.0 m ³	Density of materials handled up to 800 kg/m ³
Lift hook	20 t

The lift capacity values are stated in metric tons (t). The pump pressure is 360 bar. 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 hook, etc.) must be deducted from the lift capacity values. The working load of the lifting device 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.



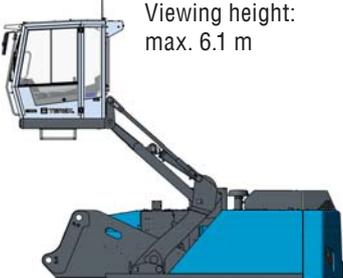
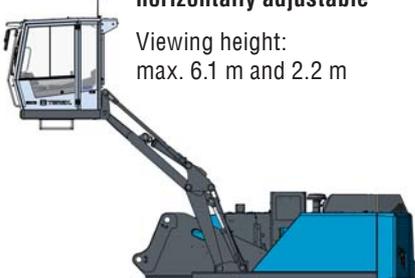
LIFTING CAPACITY

Height [m]	Undercarriage outrigger	Reach [m]												
		6	7.5	9	10.5	12	13.5	15	16.5	18				
18	4-point supported		8.2° (8.2°)	6.3° (6.3°)										
16.5	4-point supported			8.2° (8.2°)	6.7° (6.7°)									
15	4-point supported				8.1° (8.1°)	6.6° (6.6°)								
13.5	4-point supported				8.8° (8.8°)	7.9° (7.9°)	6.3° (6.3°)							
12	4-point supported				8.8° (8.8°)	7.9° (7.9°)	7.2° (7.2°)	5.5° (5.5°)						
10.5	4-point supported				8.9° (8.9°)	8.0° (8.0°)	7.3° (7.3°)	6.6° (6.6°)	3.9° (3.9°)					
9	4-point supported			10.3° (10.3°)	9.1° (9.1°)	8.1° (8.1°)	7.3° (7.3°)	6.5° (6.6°)	5.5° (5.5°)					
7.5	4-point supported		12.1° (12.1°)	10.8° (10.8°)	9.4° (9.4°)	8.3° (8.3°)	7.4° (7.4°)	6.5° (6.6°)	5.5° (6.9°)					
6	4-point supported	14.1° (14.1°)	13.7° (13.7°)	11.4° (11.4°)	9.7° (9.7°)	8.5° (8.5°)	7.5° (7.5°)	6.3° (6.7°)	5.4° (5.9°)	3.7° (3.7°)				
4.5	4-point supported	19.3° (19.3°)	14.7° (14.7°)	11.9° (11.9°)	10.0° (10.0°)	8.7° (8.7°)	7.3° (7.6°)	6.2° (6.7°)	5.3° (5.8°)	4.5° (4.5°)				
3	4-point supported	19.9° (19.9°)	15.4° (15.4°)	12.3° (12.3°)	10.2° (10.2°)	8.5° (8.7°)	7.1° (7.6°)	6.1° (6.6°)	5.2° (5.7°)	4.6° (4.7°)				
1.5	4-point supported	8.1° (8.1°)	15.6° (15.6°)	12.4° (12.4°)	9.9° (10.3°)	8.2° (8.7°)	6.9° (7.4°)	5.9° (6.4°)	5.2° (5.5°)	4.3° (4.3°)				
0	4-point supported	6.8° (6.8°)	14.9° (14.9°)	11.9° (12.1°)	9.6° (10.0°)	8.0° (8.4°)	6.8° (7.2°)	5.8° (6.1°)	5.1° (5.1°)					
-1.5	4-point supported	7.0° (7.0°)	12.5° (12.5°)	11.3° (11.3°)	9.4° (9.4°)	7.8° (8.0°)	6.6° (6.7°)	5.6° (5.6°)	4.5° (4.5°)					
-3	4-point supported	7.6° (7.6°)	12.1° (12.1°)	10.1° (10.1°)	8.5° (8.5°)	7.2° (7.2°)	6.0° (6.0°)	4.9° (4.9°)	3.6° (3.6°)					
-4.5	4-point supported		9.8° (9.8°)	8.5° (8.5°)	7.2° (7.2°)	6.1° (6.1°)	5.0° (5.0°)	3.8° (3.8°)						
										Max. reach 18.2 m				
3.1	4-point supported													3.8° (3.8°)

MODULAR SYSTEM

Attachments			Work equipment	
Furthermore: Timber grab Scrap shears Magnetic plate Load hook	Cactus grab		Work equipment straight	
	Clamshell grab		Work equipment cranked	

Uppercarriage MHL390

<p>Cab system hydraulically adjustable</p> <p>Viewing height: max. 6.1 m</p> 		<p>Cab system vertically and horizontally adjustable</p> <p>Viewing height: max. 6.1 m and 2.2 m</p> 
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Engine		Options		
Diesel engine 	Electric motor 	Cable reel 	Cable drum 	Power Pack 

Undercarriage				
Pylon up to max. 0.8 m 	Pylon up to max. 1.4 m 	Pylon up to max. 0.8 m 	Pylon up to max. 3.7 m 	Pylon up to max. 3.7 m 
 <p>Mobile: Standard-undercarriage</p>	 <p>Mobile special: For extended undercarriage</p>	 <p>Crawler: Standard-undercarriage</p>	 <p>Crawler: XL-undercarriage</p>	 <p>Pedestal undercarriage</p>

MHL370 F: SELECT YOUR OPTIONS.

BASIC UNIT	Standard	CABIN	Add option
Air Conditioner	●	Powder fire extinguisher with holder inside the cab	<input type="checkbox"/>
Hydraulically height adjustable cabin	●	Joystick steering	<input type="checkbox"/>
Cabin standard (reinforced steel construction)	●	Lower screen washing device	<input type="checkbox"/>
Automatic engine switch-off function	●	Pedal for swingbreak lock	<input type="checkbox"/>
Loading equipment 16.7 m reach (boom 8.9 m, stick 7.0 m)	●	Voltage converter 12 V (incl. 2.5 m cable)	<input type="checkbox"/>
Powershift transmission	●	Radio CD / USB	<input type="checkbox"/>
Standard colour	●	Air-conditioned seat with heating	<input type="checkbox"/>
Single solid rubber tyres (SETCO) 470 × 1499 mm	●	Socket 12 V	<input type="checkbox"/>
Chassis with 4-point outriggers	●	Joystick steering & driving	<input type="checkbox"/>
Air-cushioned comfort seat	●	Joystick steering & driving · cab floor with glass window	<input type="checkbox"/>
Rearview backup camera	●	Special joystick function (detailed plan for joystick functions necessary)	<input type="checkbox"/>
Rupture valves for lifting and stick cylinders	●	Mechanically switchable joystick-functions	<input type="checkbox"/>
ENGINE		ASSISTANCE SYSTEMS	
Diesel engine	<input type="checkbox"/>	Overload and work area control (incl. reach / high limitation, overload warning device and overload switch-off device)	<input type="checkbox"/>
Electric engine	<input type="checkbox"/>	Overload warning device basic (without angle sensors)	<input type="checkbox"/>
Engine pre-heating	<input type="checkbox"/>	Travel alarm with flashing alarm light with acoustic warning signal	<input type="checkbox"/>
UNDERCARRIAGE		FURTHER OPTIONS	
Standard mobile	<input type="checkbox"/>	Reversible fan for hydraulic oil cooler and water- / intercooler	<input type="checkbox"/>
Crawler	<input type="checkbox"/>	Float switch	<input type="checkbox"/>
Crawler gantry	<input type="checkbox"/>	Filtration system for attachments	<input type="checkbox"/>
Pylon	<input type="checkbox"/>	Electric refuelling pump	<input type="checkbox"/>
4 point stabilizers, individually controllable	<input type="checkbox"/>	Generator 20 kW	<input type="checkbox"/>
LOADING EQUIPMENTS		Generator 30 kW	<input type="checkbox"/>
Boom cylinder damping system (piston accumulator)	<input type="checkbox"/>	Bio-hydraulic oil PANOLIN HLP SYNTH 46 (first filling)	<input type="checkbox"/>
Loading equipment 18 m reach	<input type="checkbox"/>	Hydraulic-oil XTREME TEMP (first filling)	<input type="checkbox"/>
Loading equipment 20 m reach	<input type="checkbox"/>	Engine pre-heating*	<input type="checkbox"/>
LIGHTS		Hydraulic oil pre-heating*	<input type="checkbox"/>
Light package H3 or LED (for boom stick or cabin)	<input type="checkbox"/>	Stick protection	<input type="checkbox"/>
Head lamp and flashlight protector	<input type="checkbox"/>	Telematics System (2 years duration, renewable on demand)	<input type="checkbox"/>
CABIN		Prolongation Telematics for 1 additional year	<input type="checkbox"/>
Auxiliary heating with timer and temperature preselection	<input type="checkbox"/>	Active cyclone prefilter (Top Air)	<input type="checkbox"/>
Cabin with bullet proof glass front and above	<input type="checkbox"/>	Individually controllable 4-point outriggers	<input type="checkbox"/>
Horizontal und vertical hydraulically adjustable cabin	<input type="checkbox"/>	Extended outrigger plates (for reduced surface pressure)	<input type="checkbox"/>
FOPS-top guard for the cab's roof	<input type="checkbox"/>	Central greasing system for undercarriage · manually	<input type="checkbox"/>
Protection installation driver's cab	<input type="checkbox"/>	Central greasing system for undercarriage · automatic	<input type="checkbox"/>
		Increased corrosion protection (cabin, covers, steel construction)	<input type="checkbox"/>

* (230V-50Hz by external power supply)



GET A HANDLE ON FLEET MANAGEMENT.

Fuchs Telematics System: Recognize and Optimize Potential.

The Fuchs Telematics system: know exactly how and where everything is running.

The system offers a modern solution to help you analyze and optimize the efficiency of your machines. It records and communicates valuable information on the operating status of each individual machine. Where are the machines? How are they working? Is a service check pending? Take advantage of this advanced software and get a handle on your fleet management with the tool that connects for you.

ALL-IN-ONE MACHINE MANAGEMENT. EVERYTHING AT A GLANCE: OPERATING DATA, MACHINE STATUS, GPS DATA

Record, display, and analyse data: high efficiency through precise information

- Available online anywhere and at any time*: comprehensive information on the GPS location, start and stop times, fuel consumption, operating hours, maintenance status, and much more.
- User-friendly interface: displays information clearly for at a glance metrics and diagnostics. Take action before damage occurs: predetermined maintenance intervals are signaled and error messages are displayed in plain text messages.
- The Fuchs Telematics system is optionally available or can be retrofitted into existing machines to help control your operating costs and keep your machines in top shape.

* Internet connection required

