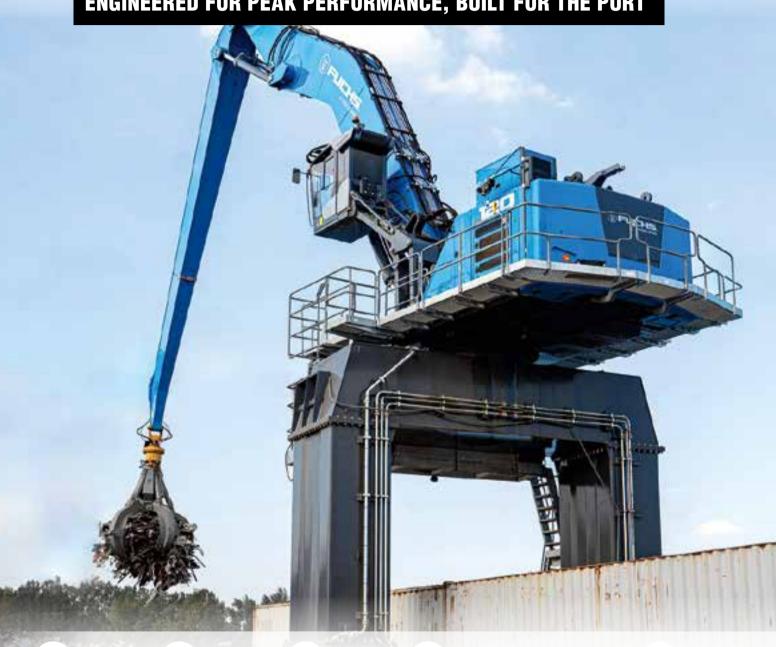


ENGINEERED FOR PEAK PERFORMANCE, BUILT FOR THE PORT





469 hp



280 kW



201 hp



264,500-330,700 lbs



91'10"



PERFECTLY EQUIPPED FOR THE TOUGHEST PORT CHALLENGES





UNBEATABLE

The innovative Fuchs service platform provides convenient access to the engine compartment, Fuchs Hybrid System Components, main control block, central lubrication system, air filters, tanks, and more. This design streamlines maintenance and service work, significantly reducing operating costs.



ATTACHMENTS FOR EVERY TYPE OF CARGO

The quick coupling system and attachment tools maximise machine efficiency and significantly increase handling capacity in port operations.



ATTACHMENTS AND LOADING EQUIPMENT

- Robust and FEM-optimised loading device, designed for heavy-duty material handling applications
- Banana boom for an optimised range curve, which greatly facilitates the unloading of bulk carriers and barges
- Hydraulic installation designed for material handling, with mostly durable piping being used
- Hose rupture safety valves on allworking cylinders, while boom and stick cylinders also have hydraulic regeneration for enhanced efficiency and safety in every application
- Tool control: oil flowrate and pressures for attachments individually adjustable
- Blue Hybrid System: storage of recovered energy in accumulators when the charging medium is lowered, which can be used in the next charging cycle

UPPERCARRIAGE

- High-performance cooling systems, with separate coolers for the engine, the hydraulic oil and air conditioning
- Fans with thermostatic control, ensuring temperatures consistently remain within the optimal range. This prolongs their lifespan and helps to reduce operating costs
- Highly efficient mobile hydraulics
- Rear view and side camera

UNDERCARRIAGE

- Mobile
- Crawler
- Portal^{*}
- Rail-car *



DRIVE

 Blue Hybrid System reduces fuel consumption by up to 35%. The system power of 670 hp ensures energy efficient loading cycles, maximum handling performance and increases productivity

Diesel engine

- Low emissions thanks to state-of-theart EU Stage 5 exhaust gas cleaning system
- · Best-in-class fuel consumption
- Exhaust system incl. DPFs are optimally protected against mechanical damage
- Extended oil service period

Electric motor

- Low operating costs
- Minimum noise
- ZERO local emissions

FUCHS SERVICE PLATFORM

- Unique in the market
- Gantry machine: service platform access via catwalk
- Secure location for carrying out service
- Convenient access to engine compartment, Fuchs Hybrid system components, main control block, central lubrication system, air filter, tanks and much more.
- Generous maintenance flaps made of sheet steel with gas spring
- Maintenance work can be completed quickly, safely and comfortably

VERSATILE UNDER-CARRIAGE OPTIONS FOR GREATER OPERATIONAL FLEXIBILITY

To meet the diverse demands of port operations, we offer a comprehensive product range. Each machine can be individually configured with various undercarriage options to suit its specific purpose.

CRAWLER

Whether wheel-mounted, on tracks, as a gantry, or on rails, Fuchs provides the ideal solution for every application.

GANTRY

CRAWLER & PYLON





FUCHS BLUE HYBRID SYSTEM OPTIMISED FOR MAXIMUM ENERGY EFFICIENCY

- The Fuchs Hybrid System increases energy efficiency and enables energy savings of up to 35% through recuperation.
- Due to the energy recovery, the installed diesel engine power and, consequently, fuel consumption are significantly reduced.
- During each charging cycle, the recovered energy is stored and used to raise the boom during the next charging cycle.
- All components are safely and conveniently accessible from the service platform.
- Thermally regulated to consistently maintain the hybrid system at its optimal operating temperature, ensuring peak energy efficiency.



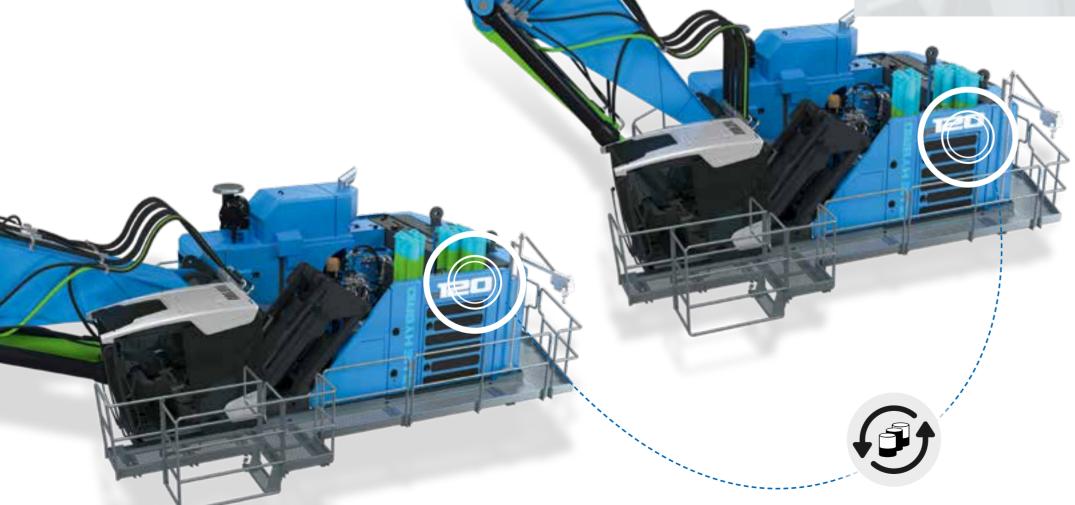
TOUCHSCREEN-DISPLAY

All important information at a glance



ENHANCED PRECISION

Precise monitoring through 3D view





INSTANT ACCESS

All relevant operating parameters at the touch of a button

PRACTICAL FEATURES **COME STANDARD WITH YOUR FUCHS**





The hydraulically **ELEVATABLE AND EXTENDABLE**

CAB provides the operator with an improved all-round view of the entire working area – ensuring maximum efficiency in handling operations.



DUAL-EAR PIN CONNECTION OF BOOM &

STICK ensures optimal force distribution, reduced wear through lower stress, and offers outstanding durability.



HOSE RUPTURE SAFETY VALVES on all working cylinders. Both the lift and stick cylinders are additionally equipped with hydraulic regeneration, ensuring maximum efficiency and safety in every operation.



ELECTRIC JOYSTICKS are fully adjustable to accommodate the preferences of each operator. Additionally, three different joystick variants are available.



TOOL CONTROL saves pressure and flow rate settings for up to 10 different attachments, each with a unique name, and ensures instant activation at any time.



The **CLOSE PROXIMITY RANGE** reliably reduces any risk of potential contact between the attachment and the cabin.







TECHNICAL DATA

F120 MH	264,500-330,700 lbs
Diesel engine	
	U.S. Tier 4
Manufacturer and type	Deutz TCD 12.0 V6
Design	6-cylinder V engine
	4-stroke diesel, common rail direct injection, turbocharged with intercooler, SCR catalytic converter
Engine power	469 hp / 350 kW
Nominal speed	1800 min ⁻¹
Displacement	732 cui
ECO mode	Economical operation with reduced engine speed and high torque
POWER mode	Maximum power always available on demand
Cooling system	Spatially separated high-performance engine cooler with thermostatic control of fan speed, automatic, programmable reversible fan
Air filter	Dry air filter with pre-separator, main and safety element
Fuel tank (uppercarriage)	449 gal Diesel
Urea tank	27.7 gal DEF
Blue Hybrid System max.	201 hp
System performance max.	670 hp
Electrical system	
Alternator	28 V / 110 A
Operating voltage	24 V
Battery	2 × 12 V / 110 Ah / 750 A
Switch cabinets	Heavy-duty design, lockable
Lighting	2 × LED headlights at the front of the machine, rear marker and blinker lights, 2 x Power LED cab at the front, 1x Power LED cab at the rear, 12 Power LED boom, 1x Power LED Dipperstick, 1 x Power LED Uppercarriage center (gantry)
Electric motor	
Туре	Three-phase asynchronous motor
Power	280 kW
System power	430 kW
Total connected load	304 kW
Mains connection	L1/L2/L3/PE
Engine startup	Soft starter
Operating voltage	480V / 60 Hz
Optional cable drum	Up to 164' meters (other lengths on request)
Swing drive	
	Enclosed, energy-efficient swing drive with independent pump for energy recovery. Dynamic and apportionable, largely unaffected by other work functions. Swivel lock via joystick or touch display.
Slew ring	Largely dimensioned, internally toothed, multi-row roller slewing ring, lubrication by automatic central lubrication system
Drive	Reversible axial piston pump, 2-stage planetary gear with integrated multi-disc brake
Uppercarriage swing speed	0–5,4 rpm ⁻¹
Swivel lock	Electrically operated

^{*} for markets with little regulation

TECHNICAL DATA

Undercarriage	
Crawler	
Floor plates	Customized
Travel speed	1.2- 2.4 mph
Travel drive	Hydraulic, planetary gearbox with axial piston motors
Crawler undercarriage	Virtually maintenance-free
Gantry	
Floor plates	Customized
Travel speed	≤ 1.2 mph
Travel drive	Hydraulic, planetary gearbox with axial piston motors
Crawler units	Virtually maintenance-free
Mobile	Customized
Hydraulic system	
Regulation and control	Mobile hydraulics with Load Sensing System for pre-controlled work functions. Electronic load limit control and fuel-efficient, demand-oriented oil quantity regulation.
Hydraulic pumps	Axial piston variable displacement pumps
Max Delivery rate	269 gpm for equipment and chassis, 91 gpm for the swing drive
Max. Working pressure	4,641 psi / 5.221psi (main pump)
Mode selection	
Precision mode	Move loads precisely
Heavy mode	Movement of heavy loads
Hydraulic oil tank	max. 174 gal
Filtering	Flow-optimized return line filter, integrated in the oil tank. Filter fineness defined at a beta value 8(10) = 200 guarantees 99.5% separation of dirt particles with 10 µm. Very good separation values are already achieved with particle sizes of 3µm. Generously dimensioned for long operating times. Permanent monitoring of oil cleanliness by quality sensor
Cooling system	Spatially separated high-performance cooler with thermostatic control of fan speed, automatic, programmable reversible fan
Boom and stick cylinders	Robust special cylinders with generously dimensioned bearing points, end position damping and rupture safety valves with regeneration function
Hybrid cylinder	Robust cylinder with generously dimensioned bearings, rupture safety valve and end position damping
Tool control	Settings for attachments adjustable via display
Cab	
Cab	Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front window with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mounting options
Climate control	Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment and 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate heat exchangers, fresh and circulation air filters
Driver's seat	Air-cushioned comfort seat with swinging armrests / joysticks, seat belt, lumbar and headrest. Allows fatigue-free work thanks to universal adjustment options for the seat position, seat tilt and the arrangement of the seat cushion in relation to the armrests and joysticks
Monitoring	Ergonomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (including all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and acoustic warning systems. Diagnostic option for the individual sensors via the multifunction display
Screen wiper	Large parallel wiper for front field of vision, including washer - wiper motor outside field of vision
Sound level	U.S. Tier 4
(metered) acc. to directive 2000/14/EG	L _{WA} 104 dB(A)
(guaranteed) acc. to directive 2000/14/EG	L _{WA} 106 dB(A)
(inside the cabin) acc. to directive ISO 6396	L _{pA} Cab 69 dB(A)
Vibration	Weighted rms value of upper limb acceleration: below 2,5 m/s2 Weighted effective value of acceleration for the seat and feet: below 0,5 m/s2
Certification according to CE [Directives
Voluntary DGUV type examina	tion





EQUIPMENT

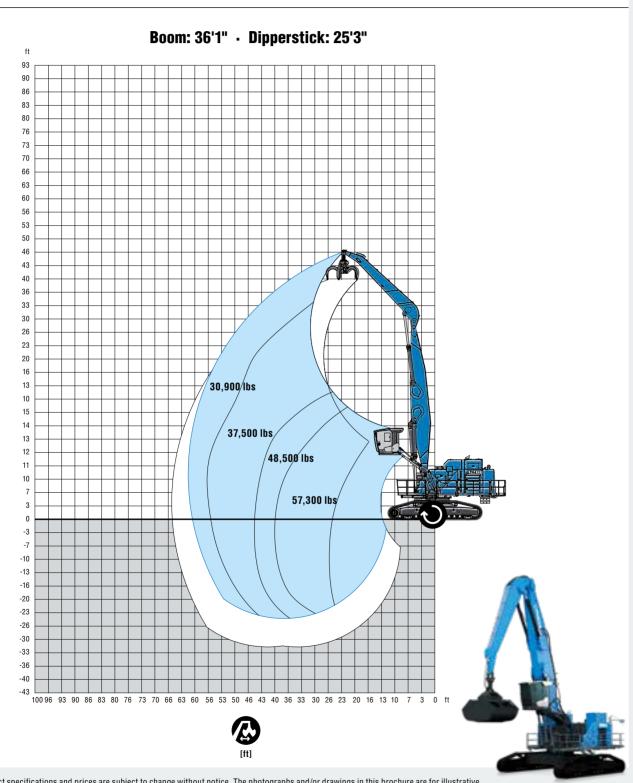
Diesel engine	Standard	Option
Large mesh water / air cooler	•	
Spatially separated high-performance cooler with thermostatic demand control of fan speed	•	
Reversible fan, automatic, cycle time programmable	•	
Electronic direct injection / common rail	•	
DEF injection, passive regeneration	•	
Advanced automatic idling with engine shutdown function	•	
ECO and POWER mode	•	
Engine diagnostic interface	•	
Heated diesel pre-filter with automatic temperature control	•	
Level monitor for cooling water level	•	
Cyclone prefractioner for air filter		•
Extended oil service interval	•	
Engine compartment lighting	•	
Mobile undercarriage		
Customized		•
Gantry undercarriage		-
Low maintenance crawler undercarriage	•	
Refueling pump for auxiliary tank on undercarriage	•	•
Additional fuel tank 792 gal diesel		•
Floor panels according to customer requirements		
Crawler undercarriages		
Low maintenance crawler undercarriage	•	
Floor panels according to customer requirements		•
Uppercarriage		
Blue Hybrid System	•	
Large service platform	•	
Maintenance flaps made of sheet steel with gas spring	•	
Spatially separated high-performance cooling system for hydraulic, engine and air-conditioning system	•	
Reversible fan hydraulic oil cooler, automatic, cycle time programmable	•	
Automatic central lubrication system	•	
Service crane		•
Light protection		•
Catwalk		•
Catwalk, circumferential		•
Monitored butterfly valve between pump(s) and hydraulic oil tank	•	
Level monitor hydraulic oil level	•	
Cab		
Fuchs comfort cab	•	
Vertically adjustable cabin	•	
Vertically and horizontally adjustable cabin		•
Single-pane safety glass (ESG)	•	
Cabin tinted windows (side, rear)	•	
Cab with laminated safety glass front and roof area (protection class P5A)		•
Cab with armored glass front and roof area (protection class P8B)		•
ISO control unit	•	
Windscreen washer (front windshield)	•	
Wiper/washer (roof window)	•	•
Roof window	•	•
Air-cushioned driver's seat with headrest, safety belt, and lower lumbar support	•	
Seat contact	•	
Seat heating	•	•
vous nousing		•
· · · · · · · · · · · · · · · · · · ·	•	
Steering via Joystick	•	
Steering via Joystick Separate heat exchanger air conditioner	•	
Steering via Joystick Separate heat exchanger air conditioner Automatic climate control Auxiliary heating incl. timer	•	•

EQUIPMENT

Cab	Standard	Option
Powder fire extinguisher with holder		•
Document clip	•	
Protective roof grating (FOPS)		•
Protective front and roof grating		•
Voltage converter 12 V		•
12 " multifunction display with touch function	•	-
Digital radio (DAB+, USB, Bluetooth and hands-free)	•	
24V socket / cigarette lighter	•	
12V socket / cigarette lighter		•
Warning device driving with LED rotating beacon and acoustic signal		•
Joystick variant 1		•
•		•
Joystick variant 2		•
Joystick variant 3		•
Joystick with driver recognition		•
Work equipment		
Loading equipment 59', 62'4", 68'10", 72'2", 78'8", 88'6", 91'10"		•
SMART Stick Proximity Control	•	
Overload and work area control		•
Overload warning device		•
Filter system for attachments		•
Hose rupture safety valves for boom cylinders including Regeneration	•	
Hose rupture safety valves for dipperstick cylinders including Regeneration	•	
Hose rupture safety valves for hybrid cylinders	•	
Camera dipperstick		•
1x Power LED boom, 1x Power LED dipperstick	•	-
Float switch	-	•
Quick-lock couplings on the dipperstick	•	
	•	
End position damping boom	•	
End position damping dipperstick		
Lubrication via central lubrication system	•	
Electric supply of attachments		•
Tool control	•	
Electrical system		
Isolator switch, LOG OUT / TAG OUT	•	
30 kW DC generator incl. insulation monitoring		•
For diesel engine: driven hydraulically		•
Driving warning devic		•
Electrical tank refilling pump		•
Preheating of hydraulic 120 V		•
Preheating of hydraulic 230 V		•
LED headlights on machine front	•	
LED light packages		•
Ascent lighting with remote control (Gantry)	•	
Other equipment		
System status display	•	
Display error description and diagnosis	•	
Rear view camera		
	•	
Side camera	•	
Camera on the undercarriage for environment detection		•
Camera for the ascent system (gantry)	•	
Acoustic warning in case of critical machine conditions	•	
Pylon		•
Special coating		•
Fuchs Connect telematics system, including 5-year license	•	
Hydraulic oil quality sensor		•
Hydraulic oil particle counter		•

RANGE CHARTS

59'

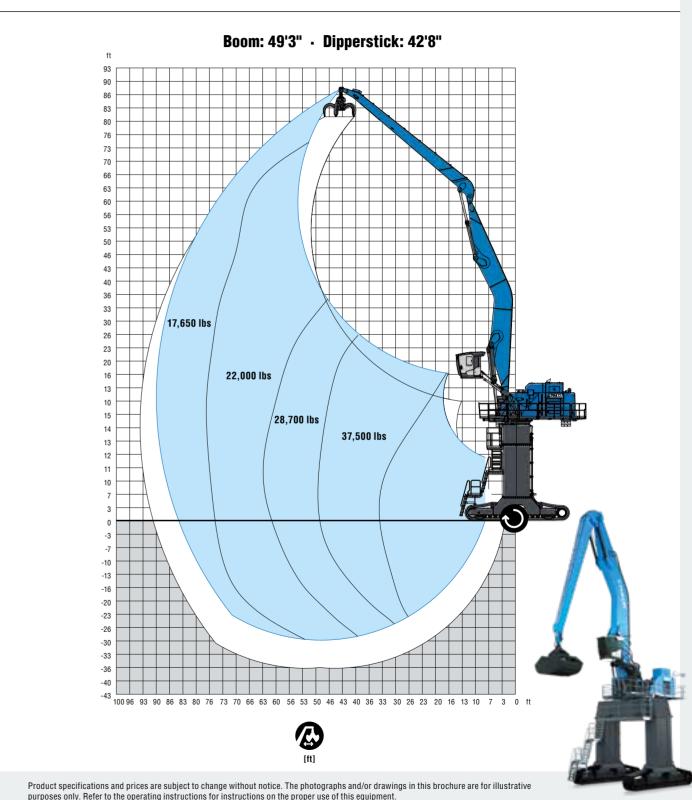


Product specifications and prices are subject to change without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. Refer to the operating instructions for instructions on the proper use of this equipment.

Feel free to contact your Fuchs dealer for detailed load capacities for your application.

RANGE CHARTS

88'6"

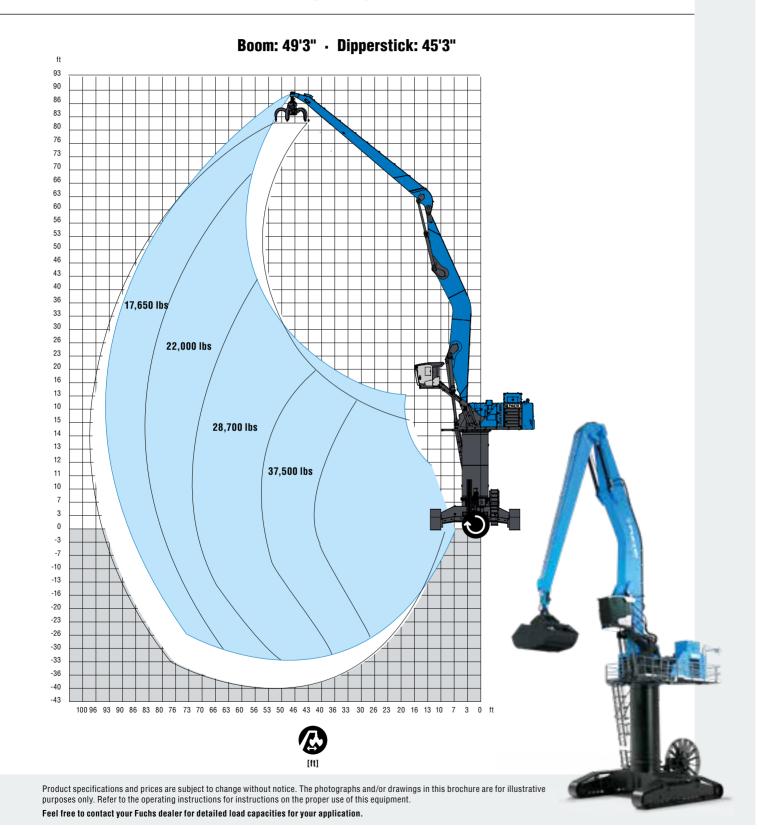


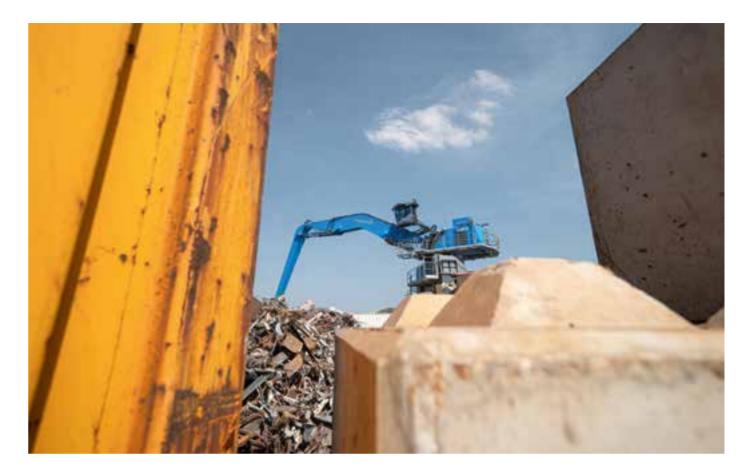
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RANGE CHARTS

91'10"







THE RIGHT ATTACHMENTS FOR EVERY TASK

ATTACHMENTS



Quick Coupling System / 4 connections



Adapter plate for grab



Load Hook





Egra Land

Big Bags Spreader

Timber Spreader

Cellulose or Paper Bale Spreader



Cactus Grab



Clamshell Grab



FUCHS CONNECT*

EFFICIENT FLEET MANAGEMENT

*Internet connection and active account required

KNOW WHAT IS HAPPENING, HOW IT'S HAPPENING AND WHERE IT'S HAPPENING

- Get insights into your fleet utilisation anytime, anywhere
- Automatic notifications on maintenance requirements
- Minimise downtime with advanced service features such as OTA service updates and pre-service analysis
- Mobile solutions for iOS and Android keep you in control wherever you are on whatever device you use



CONNECT



Android



10S



ALL QUESTIONS ANSWERED

Where are the machines located?

How high is their utilisation rate?

FLEXIBLE EXPANSION CAPABILITIES

Thanks to the API interface, Fuchs Connect can be extended to existing fleet management systems.







www.terex.com/fuchs

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