# 

ENGINEERED FOR PEAK PERFORMANCE, BUILT FOR THE PORT





350 kW





150 kW



120 - 150 t



max. 28 m

# 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

- Mobile \*
- Crawler
- Portal \*
- Rail-car \*

#### CAB

- · Fuchs comfort cab
- Large panoramic ceiling for optimal overhead visibility
- Wiper arms and motors are positioned outside the field of view
- Automatic climate control
- Various cab lifting systems available

#### **DRIVE**

 Blue Hybrid System reduces fuel consumption by up to 35%. The system power of 500 kW 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 PLATTFORM**

- 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.



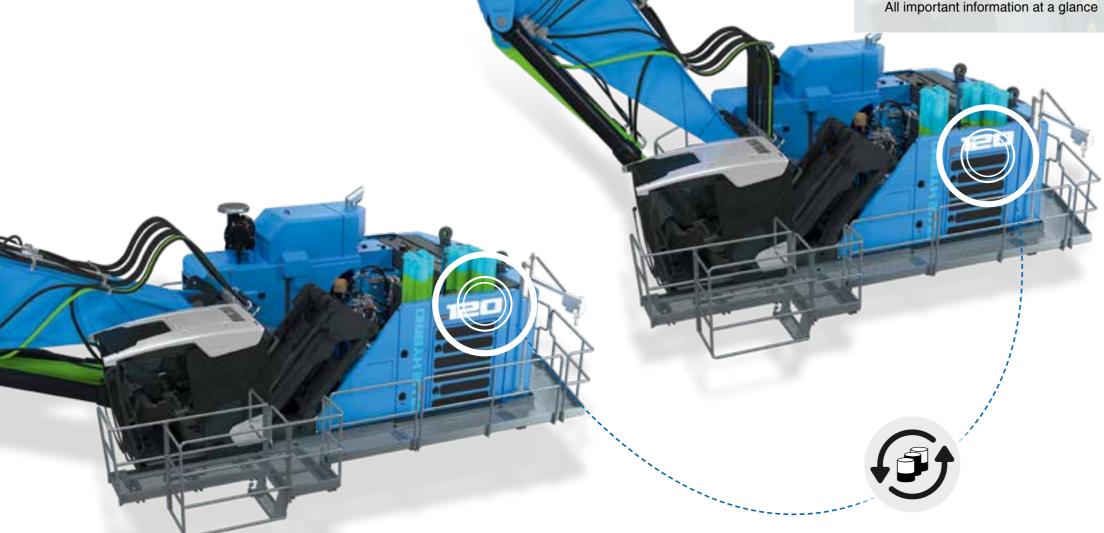
**TOUCHSCREEN-DISPLAY** 

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

www.terex.com/fuchs

# 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



**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	120–150 t			
Diesel engine				
-	EU Stage V	U.S. Tier 4	EU Stage IIIA/ U.S. Tier 3*	
Manufacturer and type	Deutz TCD 12.0 V6	Deutz TCD 12.0 V6	Deutz TCD2015 V06	
Design	6-cylinder V engine	6-cylinder V engine	6-cylinder V engine	
	4-stroke diesel, common rail direct injection, turbocharged with intercooler, controlled exhaust gas recirculation, diesel particulate filter with continuous regeneration and SCR catalytic converter	4-stroke diesel, common rail direct injection, turbocharged with intercooler, SCR catalytic converter	4-stroke diesel, (pump-line-nozzle direct injection, turbocharged with intercooler	
Engine power	350 kW	350 kW	350 kW	
Nominal speed	1800 min <sup>-1</sup>	1800 min <sup>-1</sup>	1800 min <sup>-1</sup>	
Displacement	12,0	12,0	12,0	
ECO mode	Economical operation with reduced engine spee	ed and high torque		
POWER mode	Maximum power always available on demand			
Cooling system	Spatially separated high-performance engine co	ooler with thermostatic control of fan speed, auto	omatic, programmable reversible fan	
Air filter	Dry air filter with pre-separator, main and safet	y element		
Fuel tank (uppercarriage)	1700 I Diesel	1700 I Diesel	1700 I Diesel	
Urea tank	105 I AdBlue	105 I AdBlue	-	
Blue Hybrid System max.	150 kW	150 kW	150 kW	
System performance max.	500 kW	500 kW	500 kW	
Electrical system				
Alternator	28 V / 110 A	28 V / 110 A	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, I Power LED boom, 1x Power LED Dipperstick, 1	rear marker and blinker lights, 2 x Power LED cat x Power LED Uppercarriage center (gantry)	o at the front, 1x Power LED cab at the rear, 1	
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	400V / 50 Hz oder 480V / 60 Hz (USA)			
Optional cable drum	Up to 50 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			
	0-5,4 min <sup>-1</sup>			
Uppercarriage swing speed	0-5,4 min <sup>-1</sup>			

<sup>\*</sup> for markets with little regulation

# TECHNICAL DATA

Floor plates  Customized  Travel speed  2-4 km/h  Floor plates  Customized  Travel speed  Craveler undercerriage  Virtually maintenance-free  Cantry  Floor plates  Customized  Floor plates  Customized  Travel speed  2-2 km/h  Travel speed  2-2 km	Undercarriage				
Travel speed	Crawler				
Travel drive Hydraulic, planetary gearbox with axial piston motors  Grantry  Floor plates Customized  Travel drive Hydraulic, planetary gearbox with axial piston motors  Cravier and Hydraulic, planetary gearbox with axial piston motors  Cravier and Hydraulic, planetary gearbox with axial piston motors  Cravier and Hydraulic, planetary gearbox with axial piston motors  Cravier and Hydraulic planetary gearbox with axial piston motors  Cravier and Hydraulic planetary gearbox with axial piston motors  Cravier and Hydraulic planetary gearbox with axial piston motors  Cravier and Hydraulic system  Mobile hydraulics with Load Sensing System for pro-controlled work functions. Electronic load limit control and tue-efficient, demand oriented oil quantity regulation.  Hydraulic gumps  Axial piston variable displacement pumps  Max. Delivery rate  1020 l/min for equipment and chassis, 344 l/min for the swing drive  320 / 308 bax (main pump)  More selection  Precision mode  Move loads precisely  Move loads prec	•				
Crawler undercarriage  Virtually maintenance-free  Coustomized  Floor plates  Customized  Search  Virtually maintenance-free  Mobile lydraulic, planetary guarbox with axial piston motors  Crawler units  Virtually maintenance-free  Mobile hydraulic, planetary guarbox with axial piston motors  Crawler units  Wollde hydraulic, planetary guarbox with axial piston motors  Crawler units  Wollde hydraulic with Load Sensing System to represented work functions. Electronic load limit control and fuel-efficient, deemed ordered of dispatched oil quantity regulation.  Hydraulic pumps  Axial piston variable displacement pumps  Max Delivery rate  1020 Imin for equipment and chassis, 344 l/min for the swing drive  Max Delivery rate  1020 Imin for equipment and chassis, 344 l/min for the swing drive  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  max. 6601  Filtering  Floor-optimized return line titler, integrated in the oil tank. Filter finness defined at a beta value 6(10) = 200 guarantees 95.% separation of oil rap trainees with 10 jm. Nevy good separation values are already achieved with particle sizes of Sym. Generously dimensioned for long operating times. Permanent monitoring of oil cleaniness by quality sensor  Cooling system  Spatially separated hip—formace cooler with themerostatic control of fan speed, automatic, programmable reversible fan Robust special cylinders with generously dimensioned bearings, rupture safety valve and end position damping and rupture safety valves with regeneration function.  Hydrid cylinder  Robust special cylinders with generously dimensioned bearings, rupture safety valve and end position damping and rupture safety valves with regeneration function.  By a contract control of the precise of the					
Grantry  Floor plates  Customized  Travel grow  Floor plates  Craveler units  Virtually maintenance-free  Mobile  Customized  Customized  Hydraulic System  Mobile  Customized  Mobile   Customized  Hydraulic System  Mobile   Customized  Mobile   Customized  Hydraulic System  Mobile   Customized  Mobile   Mobile   Customized  Mobile   Customized   Mobile hydraulics with Load Sensing System for pre-controlled work functions. Electronic load limit control and fuel-efficient, demand-oriented oil quantity regulation.  Mobile hydraulic system  Axial pistom variable displacement pumps  Max Davivery rate  1020 / 100 limit for equipment and chassis, 344 l/min for the swing drive  Max. Working pressure  320 / 369 bar (main pump)  Mode selection  Precision mode  Movement of heavy loads  Hydraulic oil tank  max. 660 1  Filtering  Floor-originized return line filter, integrated in the oil tank. Filter fineness defined at a beta value (f(10) = 200 guarantees 90 5% separation of drir particles with 10 gum. Very good separation values are already achieved with particle sizes of 3 gum. Generously dimensioned for long operating unse. Permanent monitoring of oil clealiness by quality separated programmable reversible fan  Boom and stick cylinders  Spatially separated high-performance cooler with thermostatic control of tan speed, automatic, programmable reversible fan  Boom and stick cylinders  Robust special cylinders with penerously dimensioned bearing points, end position damping and rupture safety valves with repeneration function  Florid control  Cabl  Carlor Cab Centrol  Cab Centrol cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wine with roll of the particle with penerously dimensioned bearings, rupture safety valve and end position damping  Clinate control  Automatic climate control with reci		Hydraulic, planetary gearbox with axial piston motors			
Floor plates Customized   Travel garde		Virtually maintenance-free			
Travel typeed	Gantry				
Travel drive Hydraulic, planetary gearbox with axial piston motors  Cravier units  Virtually maintenance-free  Oustomized  Mobile  Customized  Mobile Pudraulics system  Regulation and control  Mobile Hydraulic 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  1020 Imin for equipment and chassis, 344 Imin for the swing drive  1020 Imin for equipment and chassis, 344 Imin for the swing drive  More selection  Precision mode  Movement of New Joads  Hydraulic oil tank  max. 660 I  Filtering  Flow-optimized return line filter, integrated in the oil tank. Filter fineness defined at a beta value 8(10) – 200 quarantees 99.5% separation of drit particles with 10 µm. Very good separation values are already achieved with particle sizes of gim. Generously dimensioned for long operating times. Permanent monitoring of oil classificies by quality sensor  Spatially separated high-performance coolers with thermostatic control of fan speed, automatic, programmable reversible fan function  Cooling system  Spatially separated high-performance coolers with thermostatic control of fan speed, automatic, programmable reversible fan function  Robust cylinders with generously dimensioned bearings, rupture safety valve and end position damping  Tool control  Settings for attachments adjustable via display  Cab  Comfort cab with skiding door, reinforced steel structure, soundprooted, heat-insulated panoramic windows for best all-round visibility, front vim with roller blind, viewing window in the cab roof with skiding blind, multifunction color display with touch function. With recirculation in the cab roof with skiding blind, multifunction color display with touch function. With rependance control with recirculation in a riliters. Water heater with infinitely variable temperature adjustment adjustment ophosins for the seat position, seat tilt and the arrangement	Floor plates	Customized			
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 1020 Ulrimi for equipment and chassis, 344 I/min for the swing drive  Max. Working pressure 320 / 360 bar (main pump)  Mode selection  Precision mode Movement of heavy loads  Hydraulic oil tank  max. 660 I  Filtering Flow-optimized return line filter, integrated in the oil tank. Filter fineness defined at a beta value (§10) = 200 guarantees 99.5% separation of dirt particles with 10 pm. Very good separation values are already schleved with particle sizes of Sym. Generously dimensioned for long operating times. Permanent monitoring of oil cleanness by quality sensor  Cooling system Spatially separated high-performance cooler with thermostatic control of fan speed, automatic, programmable reversible fan Robust special clylinders with generously dimensioned bearing points, end position dampling and rupture safety valves with regeneration function  Tool control  Settings for attachments adjustable via display  Coallings Settings for attachments adjustable via display  Coallings of the control of the set of the	Travel speed	≤ 2 km/h			
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  1020 //min for equipment and chassis, 344 l/min for the swing drive  Max. Working pressure  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max. 6601  Filtering  Flowoptimzed return line filter, integrated in the oil tank. Filter fineness defined at a beta value (kf.0) = 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 lines. Permanent monitoring of oil cleakaniess by quality sensor  Cooling system  Spatially separated high-performance cooler with thermostatic control of fan speed, automatic, programmable reversible fan Robust special cylinders with generously dimensioned bearing points, end position damping and rupture safety valves with regeneration function  Hydrid cylinder  Robust cylinder with generously dimensioned bearings, rupture safety valve and end position damping  Tool control  Settings for attachments adjustable via display  Cab  Comfort cah with silding door, reinforced steel structure, soundproofed, heat-insuitated panoramic windows for best all-round visibility, front view with roller blind, viewing window in the cab roof with silding blind, multifunction color display with touch function. Wide range of storage and mot options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a dispisable air nozzles, 3 defroster nozzles, separate best exchanges, fresh and circulation air filters with transcripped and positions of the seat position, seat till and the arrang	Travel drive	Hydraulic, planetary gearbox with axial pist	on motors		
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.  Axia bip Islor nariable displacement pumps  Max Delivery rate  1020 I/min for equipment and chassis, 344 I/min for the swing drive  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max. 660 I  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 0 pm. 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  Boom and stick cylinders  Bobust special cylinders with generously dimensioned bearing points, end position damping and rupture safety valves with regeneration function  Hybrid cylinder  Robust cylinder with generously dimensioned bearing points, end position damping and rupture safety valves with regeneration function  Settings for attachments adjustable via display  Cab  Cooling system  Cooling system in the safe position, send position, multifunction cold display with touch function. Wide range of storage and not options  Cooling system in the safe position, send this arm of the safe position, send this arm of the safe position, send this arm of the safe custion of the safe position, send this arm of the safe position, send the arrangement of the send custom in relation to the armerests and plysticise universe adjustment options for the safe position, send this arm of the send circulation affilters. Water head with internation and plysticises and adjustment options for the seal position, send this and the arrangement of the send circulation in filters  Driver's seat  Air-cushioned comfort seat with swinging armrests / joysticks, seat belt, lumbar and headrest. Allo	Crawler units	Virtually maintenance-free			
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.  Axia plothour yrate  1020 //min for equipment and chassis, 344 l/min for the swing drive  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max. 660 I  Filtering  Flow-optimized return line filter, integrated in the oil tank. Filter fineness defined at a beta value 8(10) = 200 guarantees 98.5% separation of dirt particles with Dirty precision of dirty particles with Dirty Precision 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  Boom and stick cylinders  Robust special cylinders with generously dimensioned bearing points, end position damping and rupture safety valves with regeneration function  Hydrid cylinder  Robust cylinder with generously dimensioned bearings, rupture safety valve and end position damping  Settings for attachments adjustable via display  Cab  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best ali-round visibility, front wind with roler foliar, divening window in the cab roof with sliding blind, multifunction cold display with to thinction. Wide range of storage and not options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water header with tools final cylositics, sear belt, lumbar and headrest. Allows fatigue-free work thanks to universal adjustment options for the said position, seat with swinging armrests / joysticks, seat belt, lumbar and headrest. Allows fatigue-free work thanks to universal adjustment options for the said position, seat this and individuals sensors vot the multifunction cold diseal particulate filter, steering). Visual and soon varri	Mobile	Customized			
Hydraulic pumps  Axial piston variable displacement pumps  Max Delivery rate  1020 Umin for equipment and chassis, 344 l/min for the swing drive  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic all tank  max. 660 1  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 3 μm. Generously dimensioned for long operating times. Permanent monitoring of oil cleanliness by guality sensors  Cooling system  Spatially separated high-performance cooler with thermostatic control of fan speed, automatic, programmable reversible fan  Boom and stick cytinders  Robust special cylinders with generously dimensioned bearings, rupture safety valve and 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  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front vinc with rolled blind, viewing window in the cab roof with sliding blind, multifunction color display with fuech function. Wide range of storage and mot options  Climate control  Automatic climate control with ediculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, sperale heat exchangers, fresh and circulation in relation to the armers and plysticks.  Monitoring  Ergonomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (incl. all hydraulic oil filters, hydraulic oil emperature, colorish and charges of temper	Hydraulic system				
Max Delivery rate  1020 I/min for equipment and chassis, 344 I/min for the swing drive  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max, 660 1  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 jun. Nery good separation values are already achieved with particle sizes of 3jun. Generously dimensioned for long operating times. Permanent monitoring of oil dealmises 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  Settings for attachments adjustable via display  Coal  Comfort cab with silding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with silding blind, multifunction color display with function. Wide range of storage and not options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate best exhangers, fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate best, 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 reliation to the armrests and joysticks  Monitoring  Ergonomically arranged, glara-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating	Regulation and control				
Max. Working pressure  320 / 360 bar (main pump)  Mode selection  Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max. 660 1  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 bearings points, end position damping and rupture safety valves with regeneration function  Robust special cylinder with generously dimensioned bearings, rupture safety valve and end position damping  Tool control  Settings for attachments adjustable via display  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wint with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mot options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters.  Driver's seat  Air-cushioned control seat with swinging arrnersts / joysticks, seat beth, lumbar and headrest. Allows fatigue-free work thanks to universal adjustment options for the seat position, seat till and the arrangement of the seat cushion in relation to the armeets and joysticks  Monitoring  Ergonomically arranged, planer-fee instrumention, multifunction display, automatic monitoring and storage of deviating operating states (incl all hydraulic oil filters, hydraulic oil temperature, colonia of diseal particulate filter, steering). Visual and aco warning systems. Diagnostic option for t	Hydraulic pumps	Axial piston variable displacement pumps			
Mode selection  Precision mode Move loads precisely  Heavy mode Movement of heavy loads  Hydraulic oil tank max. 6601  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 countrol of fan speed, automatic, programmable reversible fan  Boom and stick cylinders  Robust special cylinders with generously dimensioned bearings 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 silding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front windows the cab roof with silding blind, multifunction color display with touch function. Wide range of storage and mode options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate heat exchangers, fresh and circulation air filters  Driver's seat  Air-cushioned connord seat with swinging armrests / cylosticks, seat belt, lumbar and headers. 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 (incli all hydraulic) affilters, hydraulic oil filter	Max Delivery rate	1020 I/min for equipment and chassis, 344	l/min for the swing drive		
Precision mode  Move loads precisely  Heavy mode  Movement of heavy loads  Hydraulic oil tank  max. 660 I  Filtering  Footid rir 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  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front vinc with roller blind, viewing window in the cab roof with sliding blind, multifunction cool ordisplay with touch function. Wide range of storage and mon options  Cilinate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 till and the arrangement of the seat cushion in relation to the armrests and joysticks  Monitoring  Fregonomically arranged, glaer-free instrumentation, multifunction display, automate monotroing and storage of devalting operating states (inch all hydraille oil filters, hydraulic	Max. Working pressure	320 / 360 bar (main pump)			
Heavy mode Movement of heavy loads Hydraulic oil tank max. 660 I 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  Settings for attachments adjustable via display  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front vinc with repension of the vince of the properties of t	Mode selection				
Hydraulic oil tank  max. 660 1  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 monotrioring of oil cleanliness by qualify 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  Settings for attachments adjustable via display  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with representation in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and most options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 sead 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 (incid all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter,	Precision mode	Move loads precisely			
Filtering Flow-optimized return line filter, integrated in the oil tank. Filter fineness defined at a beta value (6(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 bearings 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  Coble  Coble  Comfort cab with silding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front windown with roller blind, viewing window in the cab roof with silding blind, multifunction color display with touch function. Wide range of storage and most options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate heat exchangers, fresh and circulation air filters  Driver's seat  Air-cushinoned comfort seat with swinging armests / joysticks, seat belt, lumbar and headrest. Allows fatique-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, plare-free instrumentation, multifunction display automatic monitoring and storage of deviating operating states (incli all hydratici oil filters, hydratioi oil temperature, loading of diesel particulate filter, steering). Visual and aco warning systems. Diagnostic option for the individual sensors via the m	Heavy mode	Movement of heavy loads			
of dirt particles with 10 µm. Very good separation values are already achieved with particle sizes of 3 µm. Generously dimensioned for long operating times. Permanent monitoring of oil cleanliness by quality sensor  Spatially separated high-performance cooler with thermostatic control of ran 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  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and most options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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  Erognomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (incli all hydraulio off ilfers, hydraulic oil temperature, coolant and charge air temperature, adding of diesel particulate filter, steering). Visual and aco warning systems. Diagnostic option for the individual sensors via the multifunction display  Screen wiper  Large parallel wiper for front field of visio	Hydraulic oil tank	max. 660 I			
Robust special cylinders with generously dimensioned bearings, rupture safety valve and end position damping and rupture safety valves with regeneration function  Robust cylinder with generously dimensioned bearings, rupture safety valve and end position damping  Settings for attachments adjustable via display  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and motoptions  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 till 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 (incl all hydraulic oil filters, hydraulic oil temperature, coalant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco 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  (metered) acc. to directive  L <sub>ma</sub> 107 dB(A)  L <sub>ma</sub> 106 dB(A)  L <sub>ma</sub> 206 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Filtering	of dirt particles with 10 µm. Very good separation values are already achieved with particle sizes of 3µm. Generously dimensioned for long			
Hybrid cylinder  Robust cylinder with generously dimensioned bearings, rupture safety valve and end position damping  Tool control  Settings for attachments adjustable via display  Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mot options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 (inclial hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco 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  EU Stage V  U.S. Tier 4  EU Stage IIIA/ U.S. Tier 3*  (metered) acc. to directive  2000/14/EG  (metered) acc. to directive  Lwa 107 dB(A)  Lwa 106 dB(A)  Lwa 206 dB(A)  Visiation  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Cooling system	Spatially separated high-performance coole	er with thermostatic control of fan speed, automatic,	programmable reversible fan	
Cab  Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mot options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 armests / 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 (inclimated) all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and accovaring 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  (metered) acc. to directive  2000/14/EG  LwA 105,5 dB(A)  LwA 104 dB(A)  LwA 106 dB(A)  LyA 106 dB(A)  LyA 206 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Boom and stick cylinders				
Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front win with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mot options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 (incle all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and accovarning 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  (metered) acc. to directive  Lwa 105,5 dB(A)  Lwa 106 dB(A)  Lya 70 [dB(A)]  Lya 70 [dB(A)]  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Hybrid cylinder	Robust cylinder with generously dimension	ed bearings, rupture safety valve and end position da	amping	
Comfort cab with sliding door, reinforced steel structure, soundproofed, heat-insulated panoramic windows for best all-round visibility, front wind with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and most options  Climate control  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 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 (inclial hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco 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  EU Stage V  U.S. Tier 4  EU Stage IIIA/ U.S. Tier 3*  (metered) acc. to directive  Lwa 105,5 dB(A)  Lwa 104 dB(A)  Lwa 106 dB(A)  Lwa 106 dB(A)  Lwa 106 dB(A)  Lwa 106 dB(A)  Lya 2000/14/EG  (inside the cabin) acc. to directive  Lya 70 [dB(A)]  Lya Cab 69 dB(A)  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Tool control	Settings for attachments adjustable via disp	olay		
with roller blind, viewing window in the cab roof with sliding blind, multifunction color display with touch function. Wide range of storage and mount options  Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a 8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate heat exchangers, fresh and circulation air filters  Air-cushioned comfort seat with swinging armersts / 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  Frognomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (incled all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco 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  (metered) acc. to directive  LwA 105,5 dB(A)  LwA 104 dB(A)  LwA 104 dB(A)  LwA 106 dB(A)  LwA 107 dB(A)  LyA 106 dB(A)  LyA 2000/14/EG  (inside the cabin) acc. to directive  LyA 70 [dB(A)]  LyA 20 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Cab				
8-speed fan, 10 adjustable air nozzles, 3 defroster nozzles, separate heat exchangers, fresh and circulation air filters  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 (incl all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco 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  EU Stage V  U.S. Tier 4  EU Stage IIIA/ U.S. Tier 3*  (metered) acc. to directive 2000/14/EG  (guaranteed) acc. to directive 2000/14/EG  L <sub>WA</sub> 107 dB(A)  L <sub>WA</sub> 107 dB(A)  L <sub>WA</sub> 107 dB(A)  L <sub>WA</sub> 200 dB(A)  Variation  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Cab	with roller blind, viewing window in the cab ro	· · · · · · · · · · · · · · · · · · ·	3.	
Adjustment options for the seat position, seat tilt and the arrangement of the seat cushion in relation to the armrests and joysticks  Ergonomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (included lall hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and accommon 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  (metered) acc. to directive  2000/14/EG  (guaranteed) acc. to directive  LwA 105,5 dB(A)  LwA 104 dB(A)  (guaranteed) acc. to directive  LwA 107 dB(A)  LwA 107 dB(A)  LwA 106 dB(A)  LyA Cab 69 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Climate control	Automatic climate control with recirculation function. Fresh and circulation air filters. Water heater with infinitely variable temperature adjustment a			
all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and accommod 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  (metered) acc. to directive 2000/14/EG  LwA 105,5 dB(A)  LwA 104 dB(A)  (guaranteed) acc. to directive 2000/14/EG  LwA 107 dB(A)  LwA 106 dB(A)  LyA Cab 69 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Driver's seat				
Sound level  (metered) acc. to directive 2000/14/EG  (guaranteed) acc. to directive L <sub>WA</sub> 105,5 dB(A)  (guaranteed) acc. to directive 2000/14/EG  L <sub>WA</sub> 107 dB(A)  L <sub>WA</sub> 106 dB(A)  L <sub>WA</sub> 106 dB(A)  L <sub>DA</sub> Cab 69 dB(A)  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²	Monitoring	Ergonomically arranged, glare-free instrumentation, multifunction display, automatic monitoring and storage of deviating operating states (incli all hydraulic oil filters, hydraulic oil temperature, coolant and charge air temperature, loading of diesel particulate filter, steering). Visual and aco warning systems. Diagnostic option for the individual sensors via the multifunction display			
(metered) acc. to directive 2000/14/EG	Screen wiper	Large parallel wiper for front field of vision,	including washer - wiper motor outside field of visio	n	
2000/14/EG  (guaranteed) acc. to directive L <sub>WA</sub> 107 dB(A) L <sub>WA</sub> 106 dB(A)  (inside the cabin) acc. to directive ISO 6396  Vibration  Veighted rms value of upper limb acceleration: below 2,5 m/s²	Sound level	EU Stage V	U.S. Tier 4	EU Stage IIIA/ U.S. Tier 3*	
2000/14/EG  (inside the cabin) acc. to directive ISO 6396  Vibration  Weighted rms value of upper limb acceleration: below 2,5 m/s²		L <sub>WA</sub> 105,5 dB(A)	L <sub>wA</sub> 104 dB(A)		
directive ISO 6396  Weighted rms value of upper limb acceleration: below 2,5 m/s²		L <sub>WA</sub> 107 dB(A)	L <sub>wa</sub> 106 dB(A)	to be determined	
	(inside the cabin) acc. to directive ISO 6396	L <sub>pA</sub> 70 [dB(A)]	L <sub>pA</sub> Cab 69 dB(A)		
	Vibration	· · · · · · · · · · · · · · · · · · ·			

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# **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 3000 I diesel		•
Floor panels according to customer requirements		•
Crawler undercarriages		
Low maintenance crawler undercarriage	•	
Floor panels according to customer requirements	<u> </u>	•
		•
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 contact	•	
Seat heating		•
Steering via Joystick	•	
Separate heat exchanger air conditioner	•	
Automatic climate control	•	
Auxiliary heating incl. timer		•
Bottle holder with cooler	•	

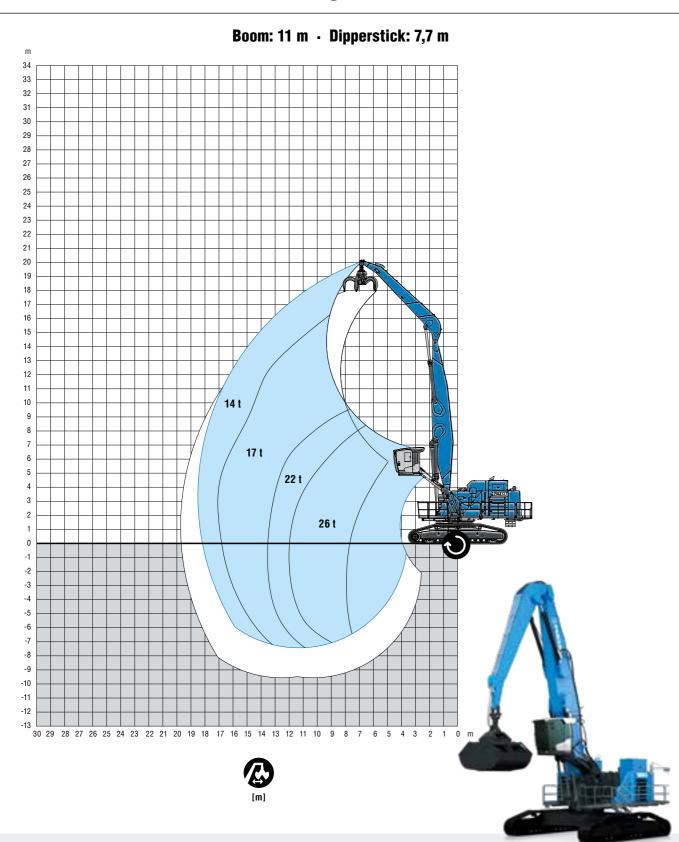
# **EQUIPMENT**

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		•
Joystick with driver recognition		
Loading equipment 18 m, 19 m, 21 m, 22 m, 24 m, 27 m, 28 m		•
Intelligent close proximity range	•	
Overload and work area control		•
Overload warning device		•
Filter system for attachments		•
Hose rupture safety valves for boom cylindersz 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	•	
	<u> </u>	
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	•	
System status dispray 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**

# 18 m

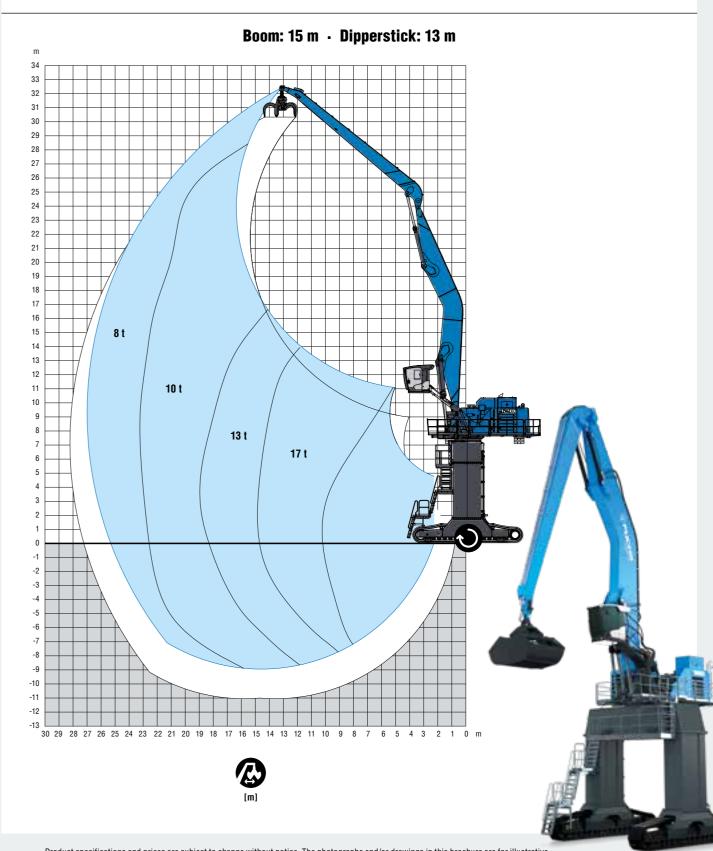


Product specifications and prices are subject to change without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. Refer to the operating instructions for instructions on the proper use of this equipment.

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

# **RANGE CHARTS**

# **27** m



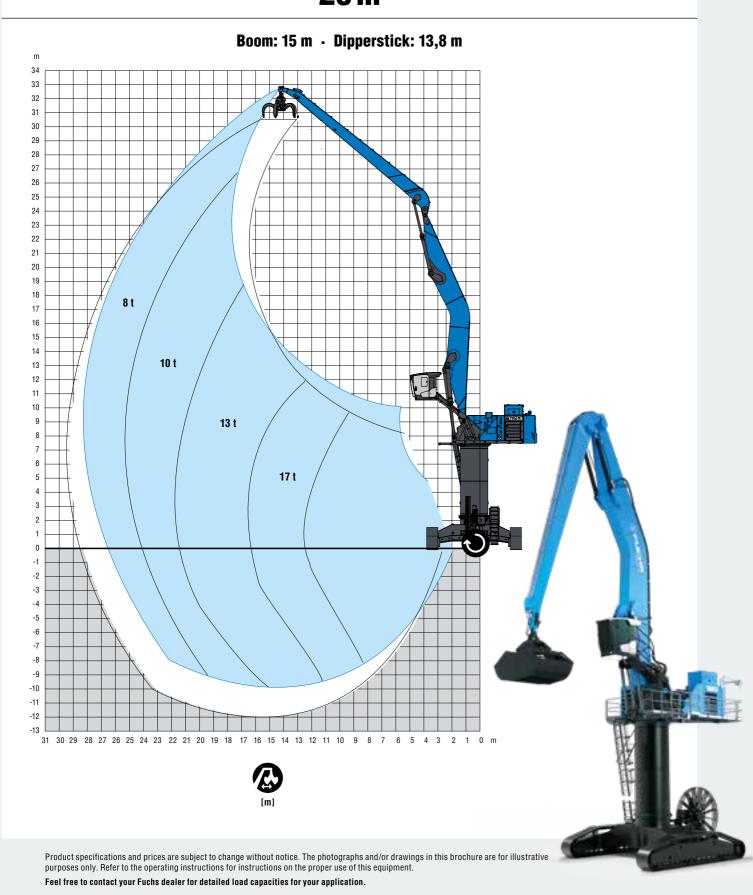
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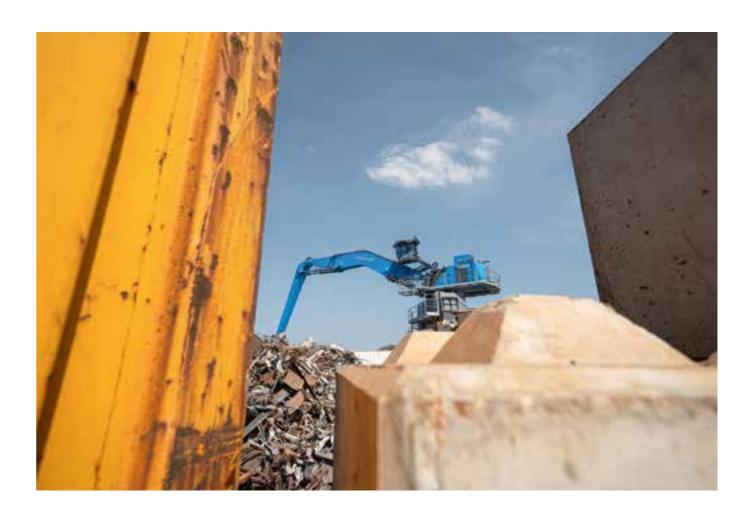
Feel free to contact your Fuchs dealer for detailed load capacities for your application.



# **RANGE CHARTS**

# 28 m







# THE RIGHT ATTACHMENTS FOR EVERY TASK

## **ATTACHMENTS**



Quick Coupling System / 4 connections



Adapter plate for grab



Load Hook





Egan Land

Big Bags Spreader

Timber Spreader

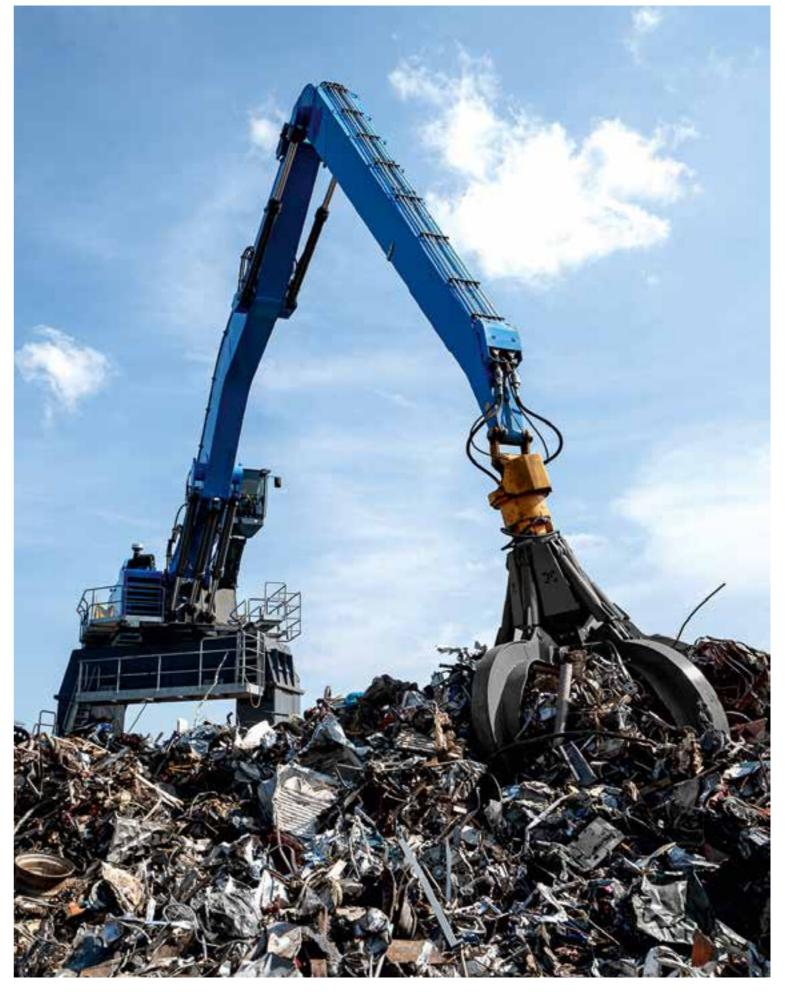
Cellulose or Paper Bale Spreader



Cactus Grab



Clamshell Grab



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# **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



IOS



Android



**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.







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