





350 kW



≇ 280 kW



150 kW









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 open-combustion- chamber injection, turbocharger, controlled exhaust gas recirculation, diesel particle filter with continuous regeneration and SCR catalytic converter | 4-stroke diesel, common rail open-com- bustion-chamber injection, turbocharger, controlled exhaust gas recirculation, diesel particle filter with continuous regeneration and SCR catalytic converter | 4-stroke diesel, common rail direct fuel injection, turbocharger with charge air cooling |
| Engine power | 350 kW | 350 kW | 350 kW |
| Nominal speed | 1800 min ⁻¹ | 1800 min ⁻¹ | 1800 min ⁻¹ |
| Displacement | 12,0 | 12,0 | 12,0 |
| ECO mode | Economical operation with reduced engine spec | 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, au | tomatic, 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 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, Power LED boom, 1x Power LED Dipperstick, 1 | rear marker and blinker lights, 2 x Power LED ca x Power LED Uppercarriage center (gantry) | b 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 or 480V / 60 Hz (USA) | | |
| Optional cable drum | Up to 50 meters (other lengths on request) | | |
| Swing drive | | | |
| | Enclosed, energy-efficient swing drive with indwork functions. Swivel lock via joystick or touc | ependent pump for energy recovery. Dynamic ar h display. | nd apportionable, largely unaffected by other |
| 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 g | ear with integrated multi-disc brake | |
| Uppercarriage swing speed | 0-5,4 min ⁻¹ | | |
| Swivel lock | Electrically operated | | |

TECHNICAL DATA

| Undercarriage | | | | |
|---|--|--|--|--|
| Crawler | | | | |
| Floor plates | Customized | | | |
| Travel speed | 2-4 km/h | | | |
| Travel drive | Hydraulic, planetary gearbox with axial p | iston motors | | |
| Crawler undercarriage | Virtually maintenance-free | | | |
| Gantry | | | | |
| Floor plates | Customized | | | |
| Travel speed | ≤ 2 km/h | | | |
| Travel drive | Hydraulic, planetary gearbox with axial p | iston motors | | |
| Crawler units | Virtually maintenance-free | | | |
| Mobile | Customized | | | |
| Hydraulic system | | | | |
| Regulation and control | Mobile hydraulics with Load Sensing System quantity regulation. | m for pre-controlled work functions. Electron | nic load limit control and fuel-efficient, demand-oriented oil | |
| Hydraulic pumps | Axial piston variable displacement pumps | S | | |
| Max Delivery rate | 1020 I/min for equipment and chassis, 34 | 14 I/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 | 814 | | | |
| Filtering | | paration values are already achieved with | a beta value B(10) = 200 guarantees 99.5% separation particle sizes of 3µm. Generously dimensioned for long | |
| Cooling system | Spatially separated high-performance co | oler with thermostatic control of fan spee | ed, automatic, programmable reversible fan | |
| Boom and stick cylinders | Robust special cylinders with generously function | dimensioned bearing points, end position | n damping and rupture safety valves with regeneration | |
| Hybrid cylinder | Robust cylinder with generously dimensi | oned bearings, rupture safety valve and e | nd position damping | |
| Tool control | Settings for attachments adjustable via d | isplay | | |
| Cab | | | | |
| Cab | 0 / | | I panoramic windows for best all-round visibility, front window display with touch function. Wide range of storage and mounting | |
| 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 adjust ment 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 acoustive warning systems. Diagnostic option for the individual sensors via the multifunction display | | | |
| Screen wiper | Large parallel wiper for front field of vision | on, including washer - wiper motor outsid | e 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 | L _{WA} 105,5 dB(A) | hanner | -A-minor | |
| (guaranteed) acc. to directive 2000/14/EG | L _{wa} 107 dB(A) | TBD | TBD | |
| (inside the cabin) acc. to directive ISO 6396 | L _{pA} 70 [dB(A)] | | | |
| Vibration | Weighted rms value of upper limb acceler Weighted effective value of acceleration f | | | |

Certification according to CE Directives

Voluntary DGUV type examination

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^{*} for markets with little regulation



EQUIPMENT

| Diesel engine | Standard | Option |
|---|----------|--------|
| arge mesh water / air cooler | • | |
| patially 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 | • | |
| CO and POWER mode | • | |
| ingine diagnostic interface | • | |
| leated diesel pre-filter with automatic temperature control | • | |
| evel monitor for cooling water level | • | |
| Cyclone prefractioner for air filter | | • |
| Extended oil service interval | • | |
| Engine compartment lighting | • | |
| Mobile undercarriage | | |
| Customized | | • |
| Gantry undercarriage | | |
| ow maintenance crawler undercarriage | • | |
| Refueling pump for auxiliary tank on undercarriage | | • |
| Additional fuel tank 3000 I diesel | | • |
| loor panels according to customer requirements | | • |
| Crawler undercarriages | | • |
| Low maintenance crawler undercarriage | • | |
| Toor 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 | • | |
| Large port/ marina comfort cab | | • |
| Elevating cab system | • | |
| In and out cab | | • |
| Cab to ground (for gantry or pylon undercarriage) | | • |
| Toughened safety glass (ESG) | • | |
| Cab privacy glazing (side, rear window) | • | |
| Sliding window in cab door | • | |
| Cab with laminated safety glass front and roof area (protection class P5A) | | • |
| Cab with armored glass front and roof area (protection class P8B) | | • |
| SO control unit | • | |
| Windscreen washer (front windshield) | • | |
| Wiper/washer (roof window) | | • |
| Roof window clear glass | • | |
| Air-cushioned driver's seat with headrest, safety belt, and lower lumbar support | • | |
| Seat contact | • | |
| Seat heating | | • |
| Steering via Joystick | • | |
| Steering column with tilt and height adjustment | | • |
| otocing column with the and neight adjustinent | • | |
| | | |
| Separate heat exchanger air conditioner | • | |
| Separate heat exchanger air conditioner Automatic climate control Auxiliary heating incl. timer | - | • |

EQUIPMENT

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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 surplus energy during lowering of the loading equipment in accumulators, which can be used during the next loadcycle

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

CAB

- Fuchs comfort cab
- Large panoramic ceiling for an optimal overhead visibility
- · Wiper arms and motors out of the field of view
- Automatic climate control
- Large port comfort oder marina

DRIVE

 Blue Hybrid System reduces fuel consumption up to 35%. The system power of 500 kW ensures energyefficient loading cycles, maximum handling performance and increases productivity

Diesel engine

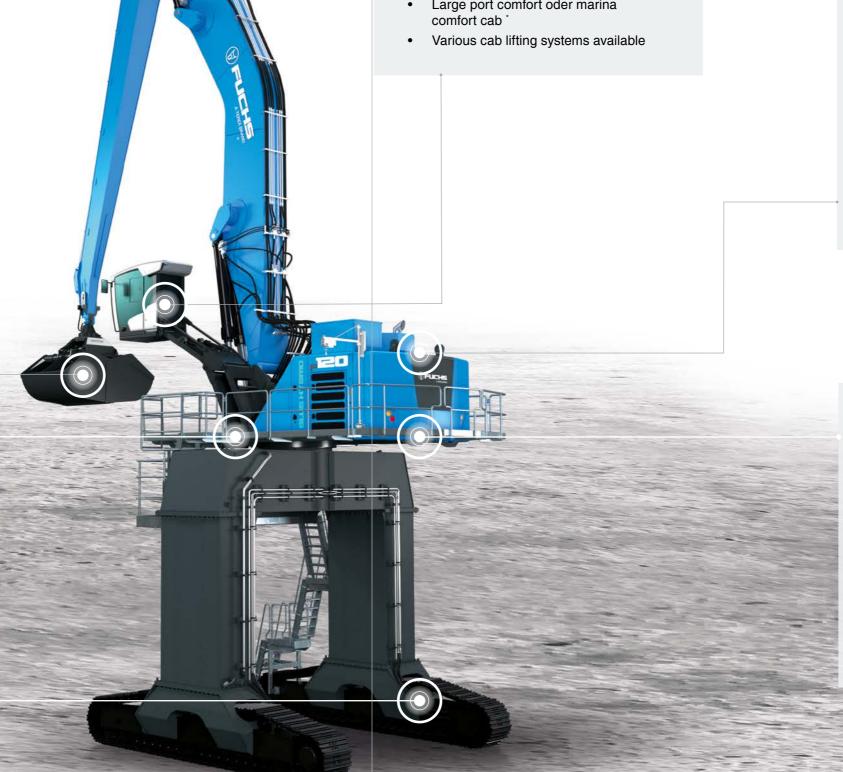
- · Low emissions thanks to state-of-theart EU Stage 5 exhaust gas cleaning system
- Best-in-class fuel consumption
- Exhaust system incl. DPF's are optimally protected against mechanical damage
- Extended oil service period

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 place 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

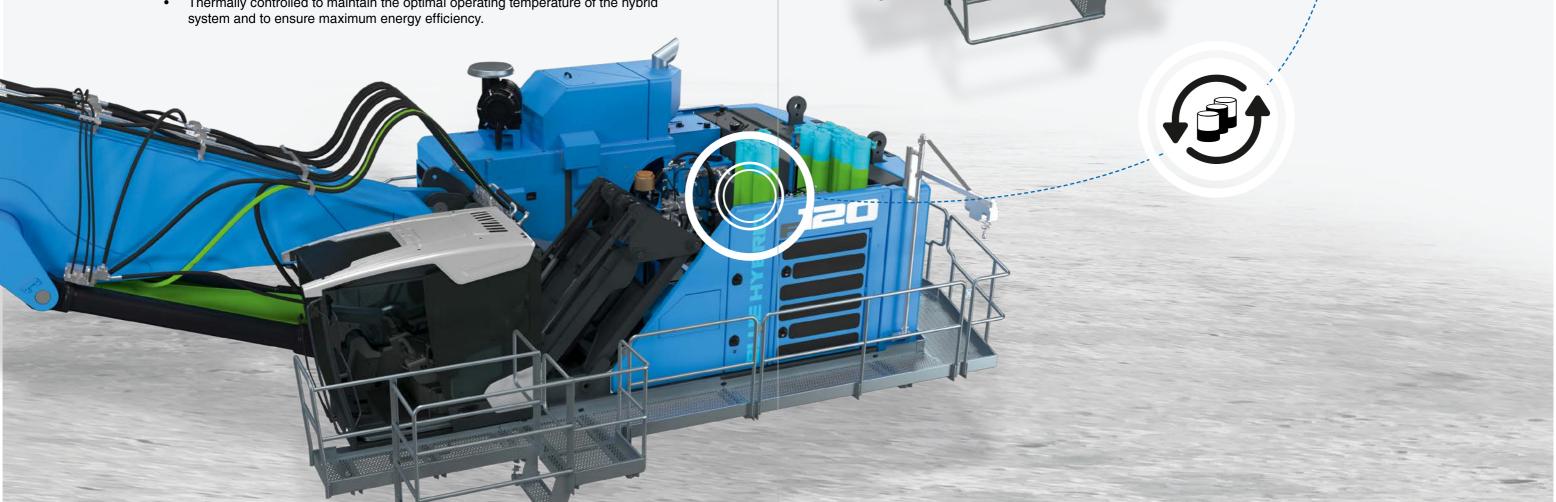




FOCUS ON ENERGY EFFICIENCY

Blue Hybrid System

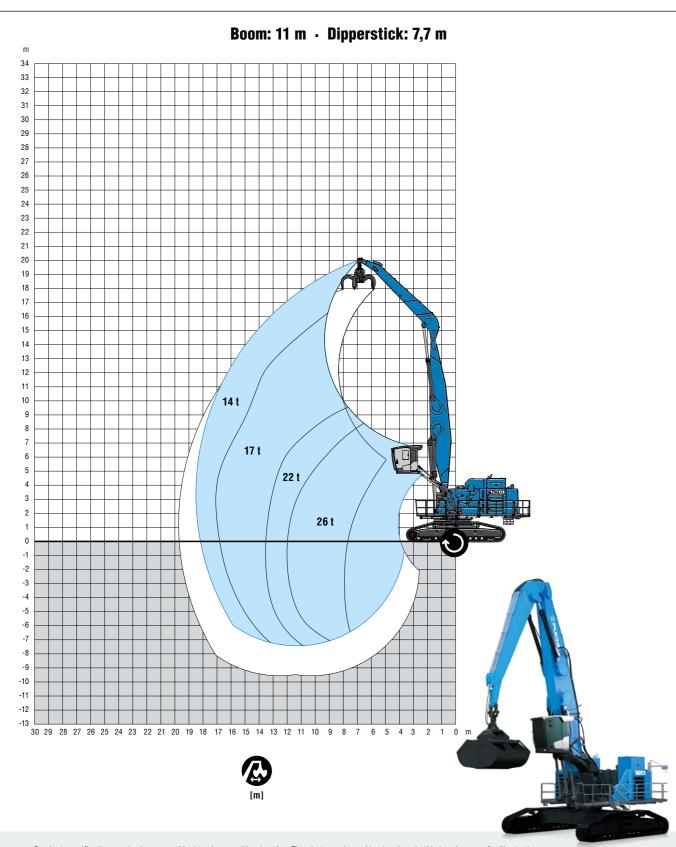
- The Fuchs Hybrid System increases energy efficiency and enables energy savings of up to 35% through recuperation.
- Due to the energy recovery, the installed diesel engine power and, consequently, fuel consumption were significantly reduced.
- During each loading cycle, excess energy is stored and subsequently utilized to lift the boom in the next loading cycle.
- All components are safely and conveniently accessible from the service platform.
- Thermally controlled to permanently maintain the optimum operating temperature of the hybrid system and thus ensure maximum energy efficiency.
- Thermally controlled to maintain the optimal operating temperature of the hybrid





RANGE CHARTS

18 m

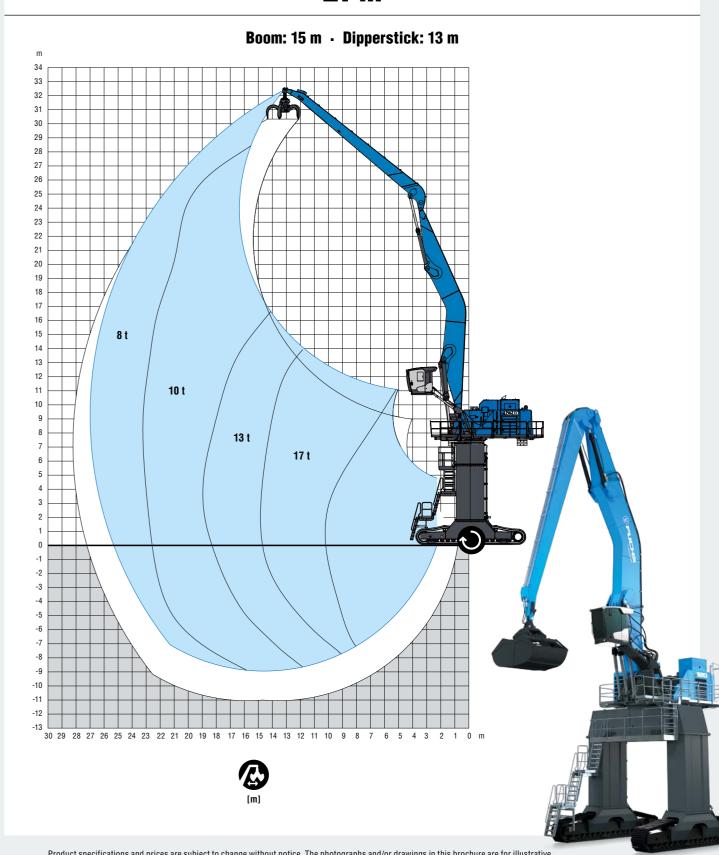


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Feel free to contact your Fuchs dealer for detailed load capacities for your application.

RANGE CHARTS

27 m



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