

F 120 MH

 **350 kW + 150 kW Blue Hybrid System**
469 hp + 201 hp Blue Hybrid System

 **150 t**
330,700 lbs

 **27 m**
88'6"

F120 MH - SETTLED INTO EVERYDAY WORK

Freyer GmbH, headquartered in the Rhine port of Germersheim, southern Germany, operates in the field of port handling, storage, and transportation of bulk and general cargo. The company is connected to all major waterways in Europe through the river Rhine.

In recent years, Rheinhafen Germersheim has evolved to become a powerful and modern freight hub in the economic region of Rhineland-Palatinate /Baden/Alsace, often referred to as the "Gateway to the World." Thanks to its trimodal infrastructure, the port provides customers with excellent opportunities for import and export from the harbour quay.



In 2019, Freyer GmbH decided to acquire the first Fuchs material handler for port handling, an MHL375. The demands on port handling machinery at Rheinhafen Germersheim are highly challenging and diverse. Customer expectations for the Fuchs machine are accordingly high: optimal reach, high stability, along with agility, performance, and reliability.

From the first day, the MHL375 impressed with its remarkable handling performance. It ensures swift loading of scrap onto ships while simultaneously allowing space-efficient storage of materials on the premises. The mobile version of the MHL375 distinguishes itself with exceptional flexibility throughout the entire port area.

The positive experience with the MHL375 prompted Freyer to acquire the brand new Fuchs F120 MH, to increase handling volume.

The F120 MH is mainly used for loading and unloading ships with a payload between 1,000 and 5,000 tonnes (2,204,622 and 11,023,113 lbs), handling various bulk goods such as gravel, sand, fine gravel, granite stones, scrap, logs, fertiliser, and grain. Thanks to the quick coupling system, the operator can easily switch between different attachments within minutes, all from the driver's seat. Tool Control allows the individual adjustment of oil quantities and pressures for attachments via the display. The integrated rotary motor in the quick coupling system enables the use of attachments without separate rotation drives.

This F120 MH is characterised by its customised robust portal undercarriage and generously dimensioned support area. This ensures secure positioning at the quay wall, even when handling heavy loads with a maximum reach of 27 metres (88' 6"). The gantry undercarriage provides an exceptional bird's-eye view of more than 12 metres (39' 4") and is ideal for loading silos. In addition, passing trucks can be loaded and unloaded quickly and efficiently.

A standout feature of the F120 MH is the Blue Hybrid System, which stores excess energy when lowering the loading equipment to use it in the next loading cycle. Together with thermal regulation that ensures the optimal operating temperature of the hybrid system, the F120 MH achieves the highest of 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.



TOP CLASS SERVICE:

The daily tasks handled by the new F120 MH require a top-class service. Therefore, the comprehensive, long-standing experience with Kiesel Service was a crucial factor in the purchasing decision. A service team, specially trained for the F120 MH, consisting of Fuchs and Kiesel personnel is available around the clock to perform maintenance and service quickly and competently.



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“Thanks to its massive undercarriage, the F120 MH ensures exceptional stability when working directly at the quay wall. I enjoy an extremely comfortable, well-equipped, and convenient workplace in the Fuchs cabin. The optimal all-around view from the cabin provides a comprehensive overview of the entire surrounding area. The sensitive joystick steering allows for effortless and precise control of the Fuchs “giant.”

Lars Knittel,
Operator at Freyer GmbH

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“We continually take measures to increase efficiency in our company. Previously, handling operations were carried out with five port cranes. Gradually, we are now replacing these port cranes with modern handling machines. The new F120 MH giant with the Blue Hybrid System is a tailor-made machine for our daily operations, delivering exceptional handling performance, meeting all safety requirements, and significantly boosting our efficiency.”

Peter Freyer,
Managing Director, Freyer GmbH



DEALER:

Kiesel GmbH

CUSTOMER:

Freyer GmbH

LOCATION:

Germersheim Germany

Freyer GmbH has been active since the founding of Germersheim Harbor in 1969, offering its customers individual solutions in port handling, storage, and transportation. The use of state-of-the-art equipment and technology ensure customers a swift and seamless handling of goods. The storage infrastructure consists of open and covered silos as well as spacious storage capacities in outdoor areas and halls with more than 10,000 m³ (353,146.7 ft³) of storage volume. This enables precise, sorted storage and environmentally friendly handling of bulk goods.

