

FloorHand FH-100

The FloorHand FH-100 is designed for ease of operation with the highest safety standard. The FloorHand FH-100 has an extensive pipe range and torque rating previously unheard of from an iron roughneck of its size.

The FloorHand FH-100 has a specially designed manipulator that allows the tool to extend out 129" (3,276.6 mm) from its mounting point to both well center and the mouse hole.

The FloorHand FH-100 can be controlled on the tool or remotely through a stand-alone console or driller's panel.

Benefits & Features:

Safety:

- Replaces manual tong
- Reduces rig personal exposure
- Reduces crew fatigue

Economics:

- Low amount of spares
- Simple and easy to maintain
- No special tools for operation or maintenance

Efficiency:

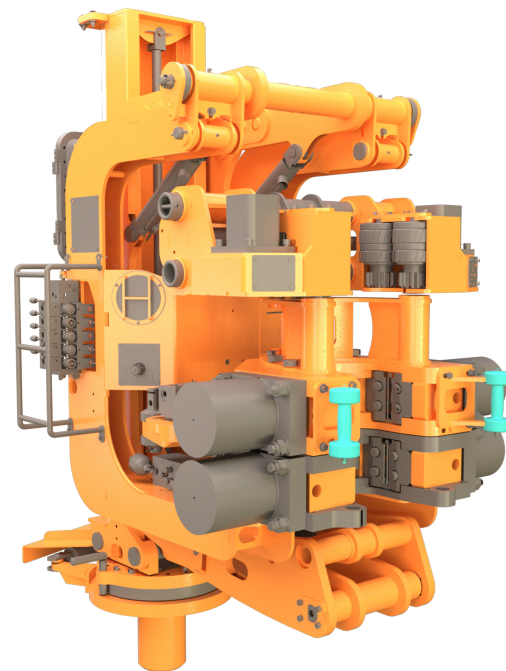
- Simple logic for operating the FloorHand
- Fast, repetitive and reliable make-up torque
- Self-adjusts to a wide range of pipe sizes

Controls:

- Simple logic operating handles for FloorHand and manipulator arm
- Optional remote operation through standalone panel, integrated into drillers' console or wireless through a belly pack

Wrench Clamping:

- Opposing clamp cylinders self adjust to varying pipe sizes eliminating the need for manual adjustments; 2.7/8 lower torque option



Torque Setting:

- Set torque once on the first connection
- Ft-lb read-out directly from gauge
- Torque adjustment and gauge located on FloorHand

Universal Die Block:

- One size fits all, eliminating Die Block change outs
- Uses standard tong dies
- Centering buttons for pipe alignment

Spinner Rollers:

- Clamping force of steel coupled with the compressibility of Griphane reduces pipe slipping
- Shoulders-Up pipe connection every time
- Quick and easy roller change out

In Line Pressure Filter:

- Protects critical hydraulic components of the unit
- Extends lifetime and reliability by ensuring a clean hydraulic fluid

Self-Adjustable Pipe Stop:

- Engagement of Die Block self-adjusts the Pipe Stop to position it for proper pipe centering

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Specification:

- Size Range: 4" OD–9 1/2" OD* / 101.6 mm OD–241.3 mm OD
- Make-Up Torque: 80,000 ft-lbs / 108,500 Nm
- Break-Out Torque: 100,000 ft-lbs. / 135,600 Nm
- HPU Requirements**: 2,800 psi @ 25 gpm / 172 bar @ 94 l/min

Weights:

- FloorHand FH-100 w/Manipulator: 7,367.6 lbs. / 3,341.8 kg
- Automated FloorHand: 7,625.0 lbs. / 3,458.6 kg.
- Transport Skid: 9FH-01389 - 980 lbs (444 kg) Manual / 9FH-41080 - 1,414 lbs (641.3 kg) Auto
- Power Unit: 2,200 lbs / 998 kg

Part Numbers (Standard Units):

- FloorHand FH-100: 9GF-4100 Manual FloorHand / 9GF-4701 Automated FloorHand
- Manipulators: 9FM-4500 Cantilever Mount with Controls / 9FM-5000 Cantilever Mount Manipulator for Remote Controlled FloorHand
- Winch: 9FH-10701
- Transport Skid: 9FH-01389 Manual / 9FH-41080 Auto
- Power Unit: 9PU-7200** Equipped with Cooler / 9PU-7300** Equipped with Heater

*3 1/8" OD (79.4 mm OD) can be reached via adapter, 9FH-10703

**It is recommended that the FloorHand is powered by the Forum Hydraulic Power Unit (9PU-7200 or 9PU7300)

