

# HMH™ RNX series

## Roughnecks

**MH™ RNX series are the result of more than 30 years of field proven design and experience in hazardous, saline and harsh environments. It represents a new generation of roughnecks with significantly increased performance, cost efficiency and reliability during operations.**

### Product description

Our new RNX with detachable tong system (DTS) is the successor of our well-known 1898 and 1899/1899 MKII models. Its modular design provides a large variety of configurations for changing operational requirements. This allows for base set-ups in the initial project planning and later re-configuration, depending on operational requirements. CAPEX and OPEX costs are therefore kept at a minimum.

The flexible roughneck fits to a large variety of rail spans. It is available with extendable arm (P) for flush drill floor. This gives high flexibility when working between well centre, mouse holes or when being parked in service positions outside “red zones”.

The RNX can be both remote or locally controlled and it can be fully integrated into any anti-collision system. The high torque spinner with soft stabbing function provides effective stabbing and spinning in and out of drill pipes and drill collars for effective tripping operations.

### Benefits

- Reduced OPEX with 100% casing operation by rig crew
- Maintenance-friendly due to 60% less hydraulic connections and easy-to-access components
- High-torque spinner reduces the need for extra break-out strokes by up to 90 % and increases tripping speed
- Easy and safe reconfiguration between casing and drilling operations
- No stuck die; replacement in less than five minutes
- Simple retrofit to replace more than 90% of the existing HMH roughnecks
- Flexible product configuration to suit variable operational setups
- Tubing break out capability reduces the need for re-dressing

Our RNX is available in different variants with several torque wrench and casing tong sizes:

- Two-grip tongs with 30° tong rotation
- Two sizes of three-grip tongs with 60° tong rotation
- Integrated casing tong (CT) modules

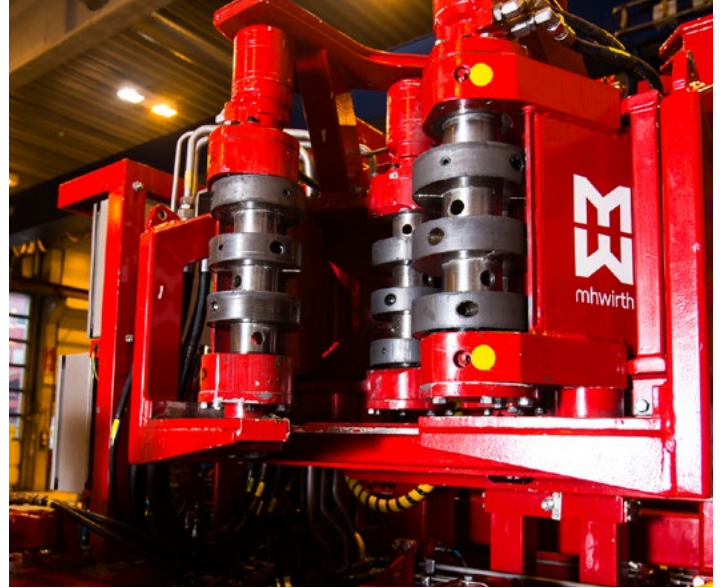
This allows for very efficient high torque make/brake and casing operations. All procedures can be executed in a human machine environment that the crew is familiar with.

With quick connectors and landing cradle remote operation, the detachable tong system (DTS) secures an effective and safe swap between modules.

### Key features

- Casing tong and drill pipe modules
- Integrated mud bucket
- Sub break module
- Thread lubrication system
- Tubing break out capability





## Technical specifications

	RNX 203R	RNX 215R	RNX 300R	RNX 203P	RNX 215P	RNX 300P
Controls	Electric					
Weight	18 518 lb (8 400 kg)	19 841 lb (9 000 kg)	22 928 lb (10 400 kg)	25 794 lb (11 700 kg)	28 616 lb (12 980 kg)	31 704 lb (14 380 kg)
Make-up torque, max.	129 000 lbf-ft (175 000 Nm)	160 000 lbf-ft (216 000 Nm)	220 600 lbf-ft (300 000 Nm)	129 000 lbf-ft (175 000 Nm)	160 000 lbf-ft (216 000 Nm)	220 600 lbf-ft (300 000 Nm)
Brake-out torque, max.	150 000 lbf-ft (203 000 Nm)	160 000 lbf-ft (216 000 Nm)	220 600 lbf-ft (300 000 Nm)	150 000 lbf-ft (203 000 Nm)	160 000 lbf-ft (216 000 Nm)	220 600 lbf-ft (300 000 Nm)
Tool joint capacity	3 ½ – 10 in (89 – 254 mm)	3 ½ – 10 in (89 – 254 mm)	3 ½ – 11 in (89 – 279 mm)	3 ½ – 10 in (89 – 254 mm)	3 ½ – 10 in (89 – 254 mm)	3 ½ – 11 in (89 – 279 mm)
Stick-up height, min./max.*	30.0 – 89.0 in (760 – 2 260 mm)*	27.4 – 86.5 in (696 – 2 196 mm)*	27.4 – 86.5 in (696 – 2 196 mm)*	36.9 – 84.2 in (938 – 2 138 mm)	36.9 – 84.2 in (938 – 2 138 mm)	37.2 – 84.5 in (946 – 2 146 mm)
Spin torque @ 5.5 in DP, max.**	3 455 lbf-ft (4 700 Nm)					
Spin speed	0 – 100 rpm					
Spinner elevation	29.5 in (750 mm)					
Travel system	Rail (R)			Pedestal (P), 165 in (4 200 mm) reach		
Hydraulic requirements	79.3 gpm(us) @ 3 000 psi (300 l/min @ 210 bar)					

\* Dependent on rail model, highest shown

\*\* High-torque spinner roller

\*\*\* Standard spinner roller

Data is subject to confirmation by the manufacturer.