

# Tubular/Riser Feeding Machines



## MH™ TFM series/MH™ RFM series

**MHWirth's tubular feeding machine (TFM) and riser feeding machine (RFM) efficiently transport tubulars and risers as well as general material to and from the drill floor, all in just one machine.**

Tubulars and risers are delivered to the TFM/RFM on the pipe deck and transported either to interface the vertical pipe racker during standbuilding or directly to the top drive or eagle at the well center.

If required, a lift arm positioned in the trolley elevates the rear end of the tubular to avoid damage on pin thread.

A loading unit next to the rail section on the pipe deck automatically loads drill tubulars one by one onto the TFM.

A tail in arm in front of the skate elevates the tubulars or risers and guides them to stick up in the well center.

For more flexible material handling on the rig, an additional basket at the trolley can handle various items such as subs and bits.

### Available Options

- Radio control
- Platform sections
- Pipe loading unit
  - One/both sides
  - Loading on/off or both ways
- Substructure
  - Considering rig layout
- Tail in/guide arms

## Benefits

- V-shaped trolley to secure circular objects; additional manual securing system for non-circular objects
- Hands free operation
- Manual shut off valve for isolating the HPU when not in use
- Fully instrumented machine and complete control/monitoring system
- Pin thread protection. The thread protector may be removed at pipe deck
- Riser cradle, tailor made for the riser flange to avoid riser rotation during handling



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## Technical Specifications

		TFM 100 15 T - 24	TFM 100 43 T - 25	TFM 100 20 T - 26	TFM 100 3,5 T - 27	TFM 100 6 T - 28	TFM 100 40 T - 29	RFM 100 45 T - 30
Safe work load skate		16.5 short tons (15.0 mT)	47.4 short tons (43.0 mT)	22.0 short tons (20.0 mT)	3.9 short tons (3.5 mT)	6.6 short tons (6.0 mT)	44.1 short tons (40.0 mT)	49.6 short tons (45.0 mT)
Safe work load trolley		11.0 short tons (10.0 mT)	16.5 short tons (15.0 mT)	3.9 short tons (3.5 mT)	N.A.	6.6 short tons (6.0 mT)	16.5 short tons (15.0 mT)	16.5 short tons (15.0 mT)
Safe work load basket		3.3 short tons (3.0 mT)	N.A.		3.1 short tons (2.9 mT)	N.A.	44.1 short tons (44.0 mT)	49.6 short tons (45.0 mT)
Safe work load pipe lifter		3.9 short tons (3.5 mT)	N.A.	3.9 short tons (3.5 mT)	7.1 short tons (6.4 mT)	N.A.		
Tubular size, min.		2 7/8 in						
Tubular size, max.		36 in	60 in	36 in	20 in	30 in	60 in	
Tubular/riser length		50 ft (15.2 m)	75 ft (22.9 m)	50 ft (15.2 m)	45 ft (13.7 m)		75 ft (22.9 m)	80 ft (24.4 m)
Skate speed Trolley speed		1.6 fps (0.5 m/s) 1.6 fps (0.5 m/s)		1.6 fps (0.5 m/s) N.A.		1.3 fps (0.4 m/s) 1.6 fps (0.5 m/s)	1.0 fps (0.3 m/s) 1.6 fps (0.5 m/s)	1.6 fps (0.5 m/s) 1.6 fps (0.5 m/s)
Weight		70 548 lb (32 000 kg)	83 776 lb (38 000 kg)	72 753 lb (30 000 kg)	26 455 lb (12 000 kg)	44 092 lb (20 000 kg)	88 185 lb (40 000 kg)	99 208 lb (45 000 kg)
Dimensions	Length	76.1 ft (23.2 m)	70.9 ft (21.6 m)	67.3 ft (20.5 m)	53.8 ft (16.4 m)	82.0 ft (25.0 m)	95.1 ft (29.0 m)	86.9 ft (26.5 m)
	Width	15.4 ft (4.7 m)	14.4 ft (4.4 m)	14.7 ft (4.5 m)	11.2 ft (3.4 m)	4.9 ft (1.5 m)	8.2 ft (2.5 m)	
	Height	8.5 ft (2.6 m)	9.5 ft (2.9 m)	5.2 ft (1.6 m)	8.9 ft (2.7 m)	4.9 ft (1.5 m)	11.5 ft (3.5 m)	
Riser/tubulars		No/yes	Yes/yes	No/yes			Yes/yes	
Utility requirements		66 gpm (us) (250 L/min)						

Data is subject to confirmation by the manufacturer.