

Rotary Swivels



For onshore applications

Our field-proven and reliable rotary swivels are designed for a long life span for making service in conventional applications easier.

Rotary swivels are used in drilling rigs without a top drive in place. They rotate the drill string while the traveling block remains in a stationary rotational position. Simultaneous with this operation, the drilling fluid is transferred into the drill string via the swivel.

MHWirth's rotary swivels are available with static loads ranging from 400 to 750 short tons (363 to 680 m.tons) and up to 7500 psi (517 bar) operating pressure.

All RSS variants with 7 500 psi (517 bar) are equipped with a stainless steel wear bushing on the main shaft's sealing surface. The robust and simple-to-exchange wear bushing allows exchange within just two hours instead of 24 hours compared to other swivel designs. Thus, maximum uptime is achieved. For the RSS variants with 5 000 psi (345 bar) we achieve maximum uptime with a highly durable Inconel layer of the shaft's sealing surface.

With our rotary swivels, we focus on a long life span and making service easier. The main bearing is splash lubricated eliminating the need for pumps and filter units. Our easy-to-maintain lubrication system significantly reduces services efforts.

The hammer lug connections at the washpipe enable easy washpipe changes with standard tools.

We understand, that drilling conditions such as mud, temperature etc. might vary, according to your project. Therefore we offer various types of washpipes with different sealing materials to provide the most efficient solution for your project.

Additionally, all rotary swivels are equipped with a large-radius gooseneck to minimize flow restrictions for drilling mud.

Benefits

- Highest uptime achieved by exchangeable wear bushings and Inconel layer at the shafts' sealing surface
- Lowest operational cost due to a long-life design and easy maintenance
- Easy washpipe changes with standard tools
- Various washpipe types for drilling with different requirements





Technical Specifications

		RSS-350/400	RSS-500	RSS-650	RSS-750
Capacity, max.		400 short tons (363 m.tons)	500 short tons (454 m.tons)	650 short tons (590 m.tons)	750 short tons (680 m.tons)
Operating pressure, max.		5 000 psi (345 bar)		7 500 psi (517 bar)	
Washpipe inner diameter		3.0 in (76 mm)			3.5 in (89 mm)
Dry weight		5 732 lb (2 600 kg)	7 055 lb (3 200 kg)	7 275 lb (3 300 kg)	7 717 lb (3 500 kg)
Hook clearance		20 in (500 mm)		21 in (525 mm)	26 in (649 mm)
Dimensions	Length (with sub)	98 in (2 490 mm)	106 in (2 690 mm)	112 in (2 845 mm)	99 in (2 500 mm)
	Width	45 in (1 150 mm)	57 in (1 448 mm)	112 in (2 845 mm)	59 in (1 500 mm)

Data is subject to confirmation by the manufacturer.