

WIRTH Rotary Tables

Hydraulic drive for offshore applications

Our rotary tables for rigs with top drives are built to last with high quality fabrication and field-proven reliability. The compact and lightweight design conserves essential drillfloor space

Product description

A rotary table with hydraulic drive serves as a backup system to the top drive and supports make and brake operations. Wirth's rotary tables provide the power necessary to turn the drill string, and carry the weight of the drill string when making up a new connection.

They are driven by a hydraulic motor, which is directly connected to the rotary drive gear, eliminating the transmission and drive train. This results in a small, light and cost-effective design. The rotary tables are built to rotate clockwise or counter-clockwise with variable speed and torque adjustments. They can be locked automatically for non-rotation with the purpose of withholding torque. The rotary tables are suitable for installation of various power slips.

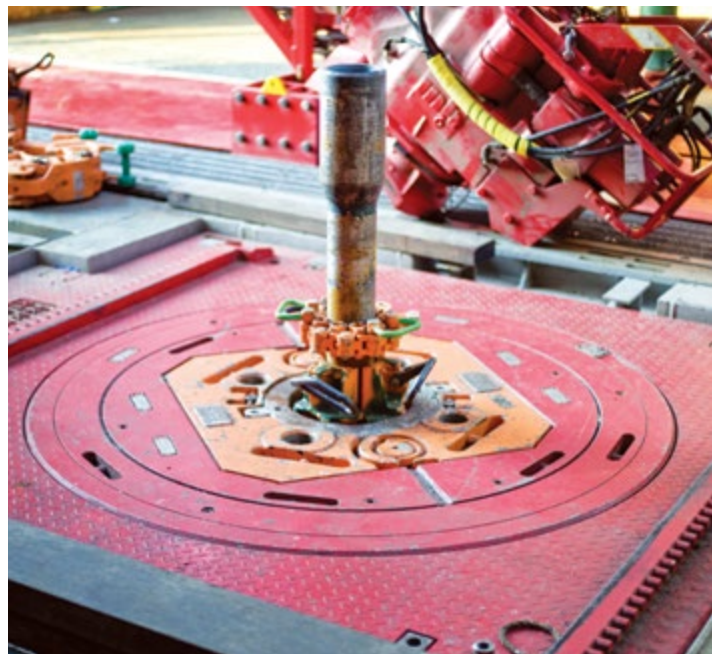
Our rotary tables with hydraulic drive are available in sizes ranging from 37.5 in to 75.5 in and static load ratings up to 1 500 short tons (1 360 mT). The rotary tables are accredited in accordance with API 7-K.

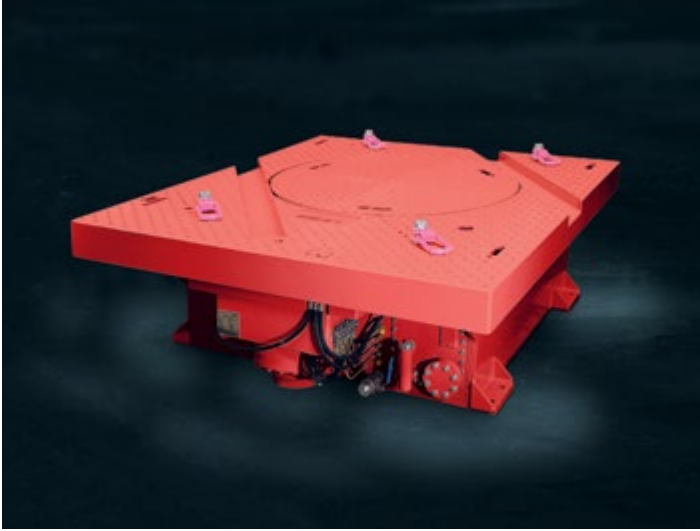
Benefits

- Two drive train and four cover plate designs available to meet your project requirements
- Easy transport and disassembly by threaded lifting lugs
- Reduced total cost of ownership with
 - External hydraulic control station for easy maintenance
 - Independent centralized lubrication system to optimize lifespan
 - High availability and short lead times on original equipment manufacturer (OEM) spare parts

Key features

- Additional pipe handling equipment, e.g. master bushings, insert bowls, power slips, adapters, split casing bushings, reducing bushings, lifting slings to flexibly handle drilling operations
- Optional cover plate configurations to support roughneck movements from different angles and flush drill floor design
- The control system can be delivered within the cabinet for the rotary table or integrated in the Wirth drawworks' cabinet to reduce space requirements by up to 30 %
- Two speed and torque configurations depending on the hydraulic configuration:
 - High speed, low torque
 - High torque, low speed





Technical specifications

In addition to the typical variants in the table below, other drive configurations are available upon request.

		RTSS 37 ½-H	RTSS 49 ½-H	RTSS 60 ½-H	RTSS 75 ½-H
Static load capacity		750 short tons (680 mT)	1 000 short tons (907 mT)	1 250 short tons (1 136 mT)	1 500 short tons (1 360 mT)
Opening size		37.5 in (953 mm)	49.5 in (1 257 mm)	60.5 in (1 537 mm)	75.5 in (1 917 mm)
Standard speed		20 rpm			15 rpm
Speed, max. (upon request)		40 rpm			30 rpm
Torque max.		28 027 lbf·ft (38 kNm)	33 190 lbf·ft (45 kNm)	33 927 lbf·ft (46 kNm)	44 991 lbf·ft (61 kNm)
Dimensions	Length	91 in (2 300 mm)	102 in (2 590 mm)	120 in (3 040 mm)	137 in (3 490 mm)
	Width	75 in (1 900 mm)	86 in (2 185 mm)	99 in (2 520 mm)	120 in (3 040 mm)
	Height	31 in (790 mm)	34 in (860 mm)	38 in (960 mm)	43 in (1 100 mm)
Weight including adapter		19 731 lb (8 950 kg)	22 708 lb (10 300 kg)	38 140 lb (17 300 kg)	57 304 lb (26 000 kg)

Data is subject to confirmation by the manufacturer.