

WIRTH Rotary Tables

Electric drive for onshore applications

Wirth rotary tables for conventional rigs are built to last with high quality fabrication and field-proven reliability. The compact and lightweight design conserves essential drillfloor space and simplifies portability

Product description

A rotary table with electric drive serves as drilling equipment, or as a backup system of the top drive, and supports the make and brake operations. Wirth 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.

To meet all project requirements, our rotary tables can either be driven by an electric motor (AC or DC), which is connected via a tooth coupling to the rotary drive gear. Alternatively, it can be connected to a two-speed gear box. Our standard delivery comes without drive train.

The rotary tables are built to rotate clockwise, or counter-clockwise, with variable speed and torque adjustments. They can be locked manually for non-rotation with the purpose of withholding torque. The rotary tables are suitable for installation of various power slips.

Benefits

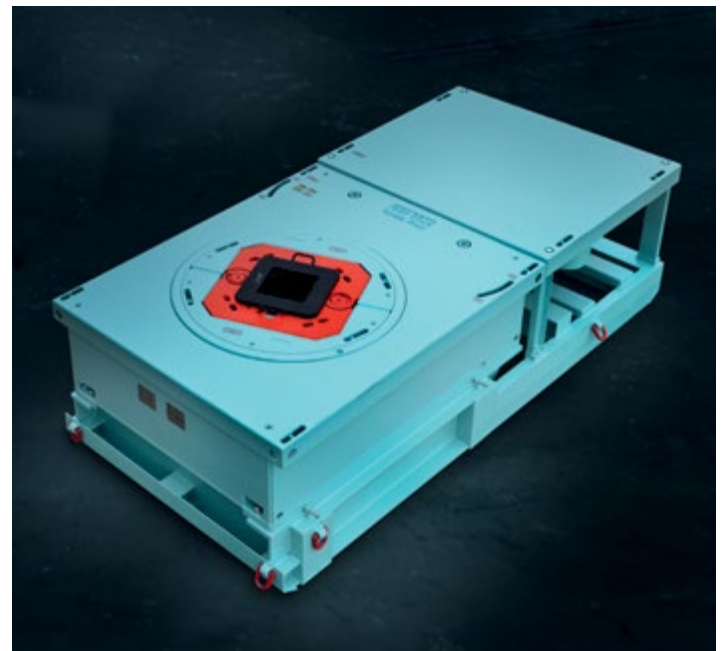
- Various drive configurations and bare design
- Reduced total cost of ownership with high availability and short lead times on original equipment manufacturer (OEM) spare parts

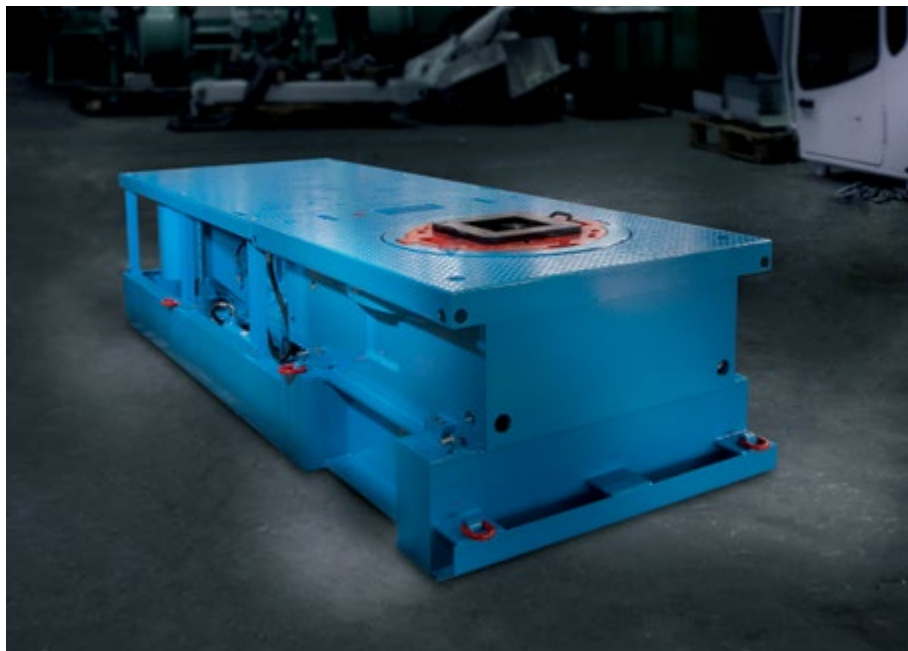
Key features

Our rotary tables with electric drive are available in sizes ranging from 27.5 in to 49.5 in and feature static load ratings up to 800 short tons (726 mT). They are compatible with other rotary tables in the market with an equivalent design with the added value of high quality. The rotary tables are accredited in accordance with API-7K.

Available Options

- Electric motor configurations (AC or DC)
- Gearbox or two-speed and torque configurations or direct drive solution
- 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





Technical specifications

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

		RTSS 37 ½ - E		RTSS 49 ½ - E
Static load capacity		650 short tons (590 mT)		800 short tons (726 mT)
Opening size		37.5 in (953 mm)		49.5 in (1 257 mm)
Drive train configuration		Direct drive	Two-speed gear box	Direct drive
Speed, max.		300 rpm	First gear: 151 rpm Second gear: 270 rpm	300 rpm
Torque, max.		25 077 lbf-ft (34 kNm)	First gear: 36 878 lbf-ft (50 kNm) Second gear: 19 914 lbf-ft (27 kNm)	28 027 lbf-ft (38 kNm)
Dimensions	Length	162 in (4 130 mm)	209 in (5 310 mm)	184 in (4 680 mm)
	Width	72 in (1 830 mm)	72 in (1 830 mm)	84 in (2 150 mm)
	Height	50 in (1 270 mm)	48 in (1 215 mm)	55 in (1 383 mm)
Weight, including adapter		29 762 lb (13 500 kg)	33 951 lb (15 400 kg)	39 022 lb (17 700 kg)

Data is subject to confirmation by the manufacturer.