

PR 160

Efficient roll neck machining



P-SERIES
K-SERIES
T-SERIES
MILLFORCE

 **UNIONCHEMNITZ**

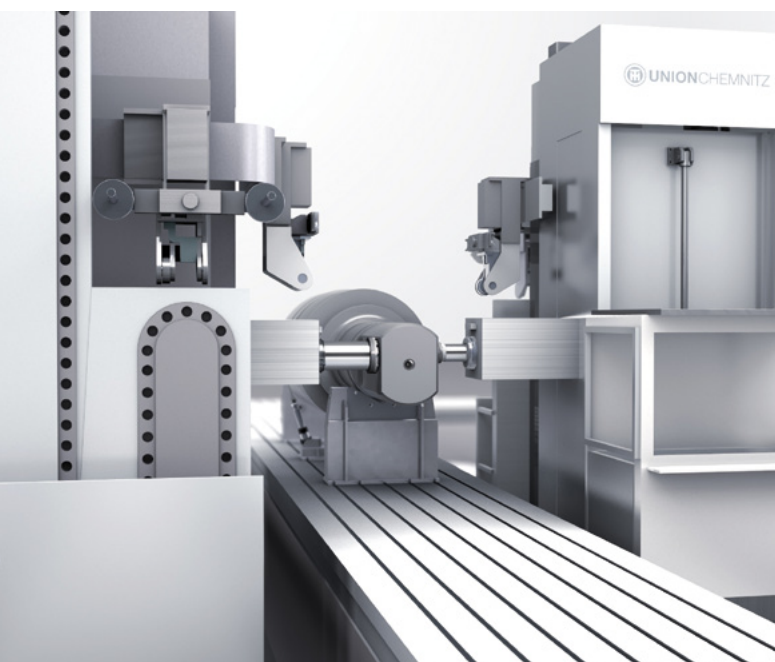
Custom-made concepts for efficient roll neck machining

UnionChemnitz has been developing innovative technologies for more than 160 years. Customers from all over the world opt for the high-precision and high-performance horizontal boring and milling machines made in Chemnitz / Germany.

The UnionChemnitz PR 160 is the ideal boring mill for precise machining of large work pieces. One field of application of the floor type machine tool is roll neck machining. Whether you want to machine flat necks, wobbler necks or necks with front groove, longitudinal grooves, holes or polygon profiles – with their broad range of milling heads and tools, the machines reliably fulfill every demand in the most efficient manner.

Depending on form and material of the roll and the roll neck, working area, required degree of automation and the number of rolls to be machined, we offer a custom-made concept. We can meet the following requirements:

- Floor plate parallel to X-axis
- Floor plate parallel to Z-axis
- Two floor plates for holding one or two rolls
- Machining two sides of the roll neck at the same time
- Integration of rotary and/or traversing rotary tables



Two side roll neck machining



Milling a wobbler neck, parallel to Z-axis

PR 160

Robust technology for highly accurate machining results – the UnionChemnitz PR-series features a number of convincing advantages:

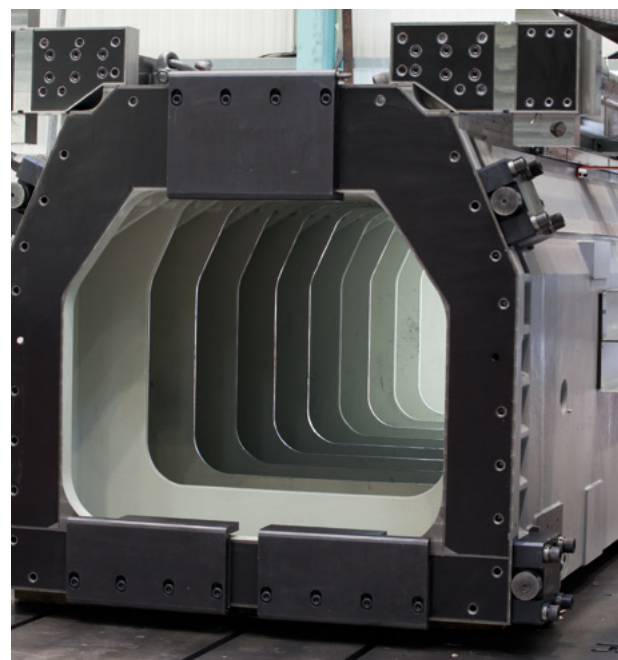
- double hydrostatic guide ways completely enclosing the ram
- dynamically controlled hydrostatic systems
- extremely rigid and strongly ribbed column
- compensation of head stock droop
- lengths compensation of boring spindle and ram
- ceramic-coated boring spindle
- automatic tool changer optionally available



PCR 160 with automatic tool changer

Technical data

Boring spindle		
Diameter	mm	162
Drive power, max.	kW	84
Torque, max.	Nm	5,520
Speed range, continuous, max.	min ⁻¹	5 - 2,200
Traverses		
Column cross traverse (X-axis)	mm	4,000
Head stock vertical traverse (Y-axis)	mm	2,500
Ram extension (Z-axis)	mm	1,000
Feed range		
Feed range for X, Y and Z-axis	mm/min	1 - 6,000
Rapid traverse for all axes	mm/min	15,000



Strongly ribbed column

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