

R C N series

DOIMAK Cylindrical (OD/ID) Grinding Machines



The Leading European Builder of High Precision Cylindrical Grinding Machines



Customized Grinding Technology

Doimak has focused the main efforts on developing solutions for medium/heavy duty cylindrical grinding technology, specially in customized applications.

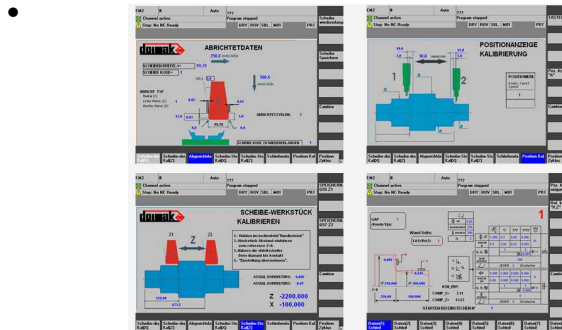
Doimak provides solutions for a wide range of cylindrical shafts: **Power generation and transmissions, rolling industry, printing industry or gummy shafts** are ground considering exact requirement of each application, focused mainly on turn key projects.



Quality

The RCN machine models are tailored for the customer; latest generation CNC grinding machines for OD/ID cylindrical processes, with next common keypoints:

- Thermally stabilized castings.
- Wide range of machine configurations: moving table, cross slide config., multi-spindle slide, etc
- Range of wheelheads available: possibility to use **hydrostatic bearing / angular contact bearing, built-in motors**... each solution accommodated to the requirements of the grinding process.
- Vitrified and electroplated CBN wheels for high production requirements
- In-process measuring systems
- Combined thread / cylindrical grinding processes



Accuracy

Rigid design of spindle and slides combined with hydrostatic or linear technology offer outstanding results of surface roughness and part geometry –cylindricity, taper and roundness-.



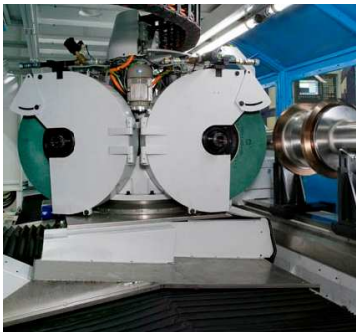
Technologies

Slide architecture depending on part dimension

- Moving table

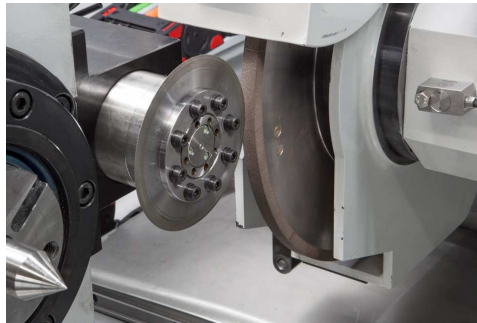


- Moving head (Cross slide configuration X1/Z1)

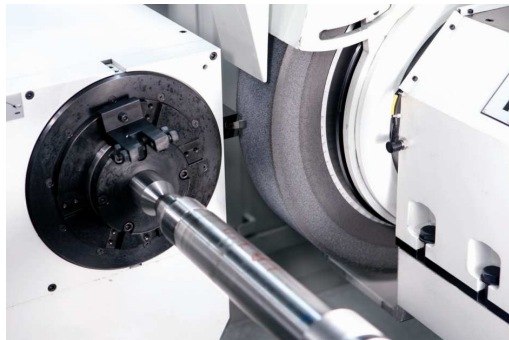


Type of dressing device

- Contour dressing disc (HF electrospindle)

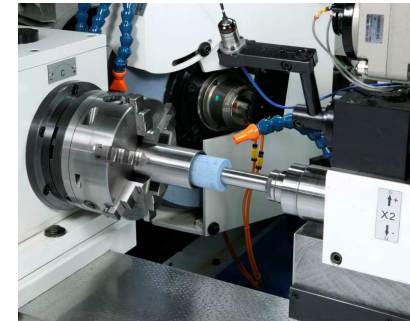


- Chisel diamond



Implemented extra applications

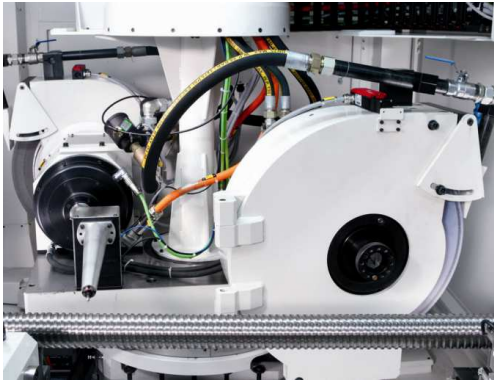
- ID grinding



- Super-finishing unit



Multi-spindle configurations



Integrated measuring devices

- Multi-diameter in-process measuring systems



- Single diameter in-process measuring systems

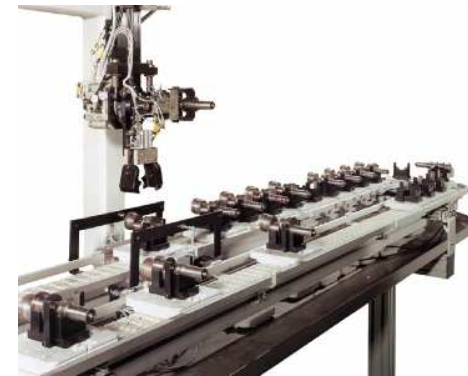


Miscellaneous

- Emulsion filtering & chilling units



- Auto-loading solutions



MACHINE FAMILIES

RCN SL



RCN-G



RCN SP



TECHNICAL DATA

	RCN SL	RCN-G	RCN SP
Length range between centers	500-3.000 mm	2.000-4000 mm	3.000-8.000 mm (*)
Centers Height (*)	200-300 mm	300 mm (**)	450 mm (**)
Rotary base	-90°-225°	-90°-225°	-90°-225°
OD Wheel dimensions	350-500 mm	610-750 mm	750-915 mm
Max. Part weight	100 / 500 Kg	500 / 2.500 Kg	2.500 / 4.000 / 6.000 Kg
Wheelhead power range	11-21 kW	21-37 kW	37 kW
Machine weight	4200 kg	6600 (8000) kg	15000 (19000) kg

