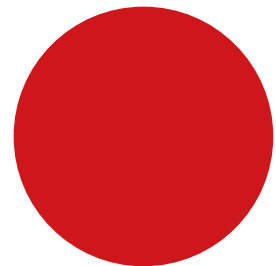


Doimak RCN-UNI

The Universal solution for particular requirements



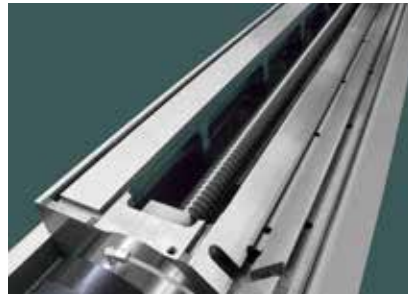
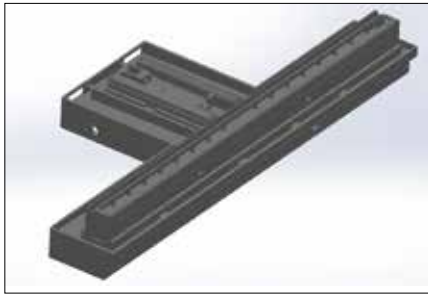
- Unitary and batch production
- 1000/1500/2000mm between centers
- 250/400 kg between centers
- High modularity
- Intuitive DOIMask software



Doimak S.A., renowned for leading edge grinding solutions since 1975, is the premier specialist in the design and manufacture of customized high quality grinding machines, applying many years of experience in the latest generation, RER-UNI series.

The new RCN-UNI is the ideal solution for those who need in their production, versatility and flexibility, based on a robust mechanical engineering. The RCN-UNI is the tool that can be easily configured for various grinding requirements, for grinding e.g. tool makers ,

pump gears, shafts , workpieces of the general precision engineering , stamping, etc. , regardless of whether these are single pieces, small or large production. Through possible combination of sizes and modules, all custom-interpretable, various options are available. This series covers lengths of 1000/1500/2000 mm between centers with a swing diameter 440 mm. Workpiece weight 250/400 kg between centers. Machine is also equipped with a high-precision B - axis for automatic, high accuracy positioning.

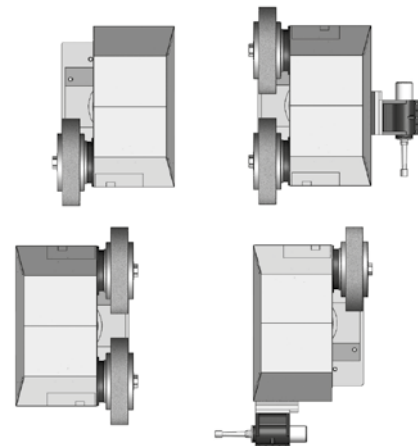


MACHINE BASE AND GUIDES

- High rigidity and vibration-dumping cast-iron machine base.
- V-Flat hydrodynamic longitudinal (Z) and transversal (X) guideways.
- Max. Axis speed 10,000 mm/min.
- Optical Heidenhain™ lineal scales. Resolution 0.0001mm.

WHEELHEAD

- Built-in motors, high precision bearings.
- Mounted on a rotary base with high rigidity and positioning accuracy.
- Ø500 x 80/100 mm grinding wheel.
- ID grinding wheel. Multiple configurations.



Configuration examples



WORHEAD

- Live and dead center.
- Thread grinding. Encoder mounted on the shaft. Non-round components grinding option (C-axis).
- Encoder resolution 0.001°.



TAILSTOCK

- Pneumatic quill retraction by pedal.
- Advance quill pressure by springs.
- Taper correction ± 0.1 mm.



MACHINE CONTROL

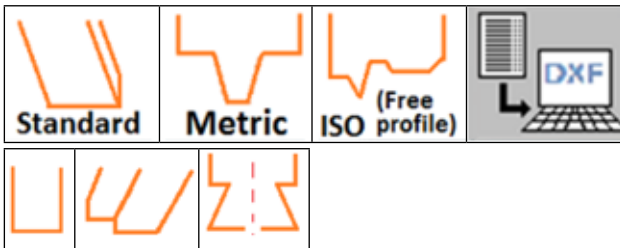
- SIEMENS 840 SL / FANUC Oi CNC control options.
- Electric cabinet with top quality components.



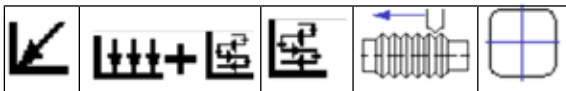
DOIMASk Easy software

- DOIMAK parametric programming in a visual environment. Easy and intuitive operating. Screens with step by step operator assistance. Grinding cycles programming; easy, clear and intuitive.
- Automatic complete cycles: Plunge, multi-plunge, swing grinding, taper grinding faces, OD, ID, rough, finishing passess...
- Database for different workpiece programming data and wheel profiles.
- Dressing profiles from imported DXF files.

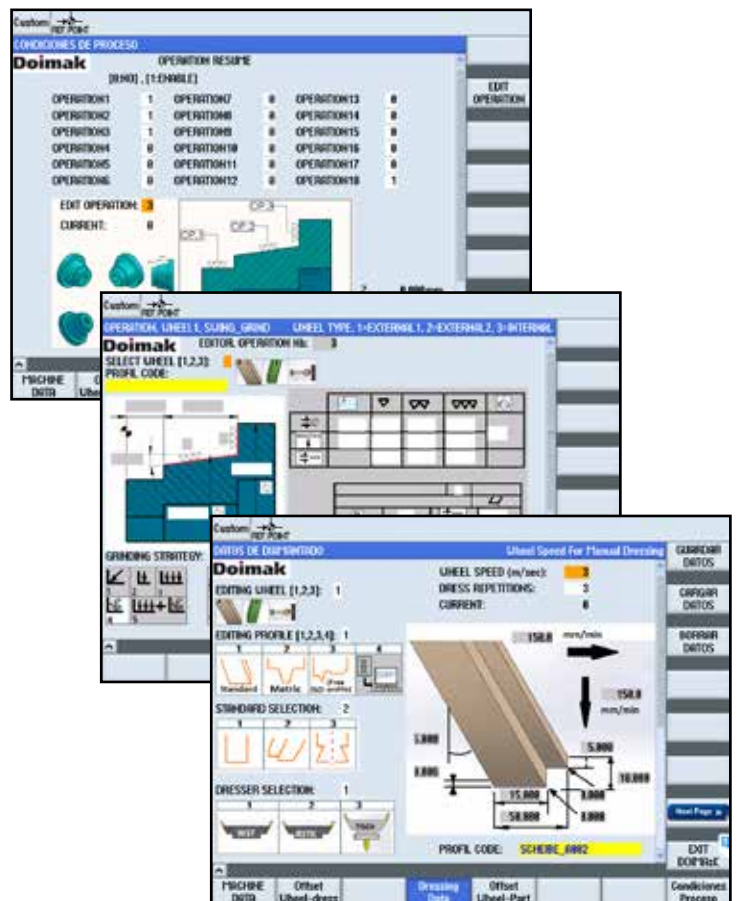
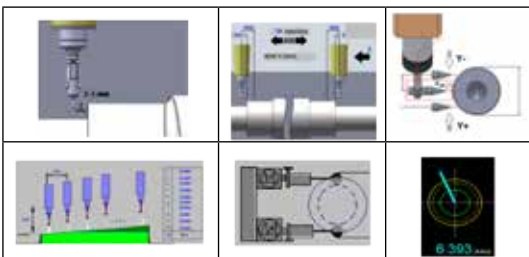
DRESSING OPTIONS



GRINDING OPTIONS



MISCELANEUS



Dimensions

- Distance between centers 1000/1500/2000 mm.
- Swing over table 440 mm.
- Maximum workpiece weight 250 / 400 kg.
- 500 x 100 OD grinding wheel dimensions.
- 140/ 206 mm ID grinding mandrel max. length.

Miscellaneous

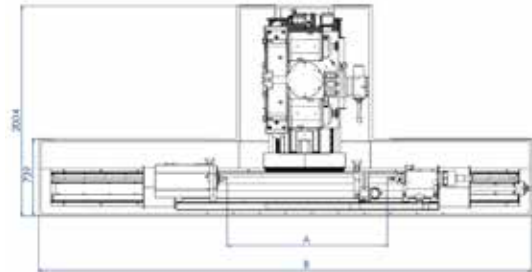
- SIEMENS™ / FANUC™ implemented.
- Optical high precision Heidenhain™ linear scales.
- Automatic CNC wheelhead swiveling.
- Rotoclamp™.
- High modularity/Flexibility.
- High precision and rigidity.
- Handwheel.

Machine modularity, designed for high flexibility machining operations; Cylindrical OD grinding and ID grinding for a wide range of components. Special software application for non-round and threaded component grinding.

Machine configuration can vary depending on the customer requirements; allowing a complete solution in-between multiple choices.

Technical data

Main dimensions	
Lenght between centres (A)	1.000 - 1.500 -2.000 mm
Weight between centres	250 kg (400 kg)
Weight in chuck	90 kg (200 kg)
Swing over table	440 mm
Machine dimensión (B)	4.700 – 6.700 mm
Machine Total weight	6.000 kg – 7.500 kg
Wheelhead (External)	
OD grinding wheel diameter	Max. 500 mm
OD grinding wheel width	Max. 80 / 100 mm
Max. Peripheal speed	Max. 45 (63) m/s
Main motor power	10 kW
Wheelhead (Internal)	
ID wheel diameter	Max. 40 mm (62 mm)
Spindle length	Max. 140 mm (206 mm)
Max. Speed (RPM)	Max. 30.000 UpM
Main motor power	9 kW



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