

Specification

Maximum grinding diameter	1200mm
Rotary table diameter	1100mm
Vertical grinding height with new wheel (dia 500mm)	600mm
Admissible mass on the table	1500kg
Transversal axis travel	900mm
Maximum distance between table and spindle axis	850mm
Vertical axis speed	1.5m/min
Minimum increment	0.001mm
Spindle motor power (duty S1)	18.5kW
Wheel speed (50Hz)	1450rpm
Standard wheel dimensions OD x W x BD	450 x 100 x 127mm
Wheel recess dimensions both sides	220 x 20/30mm
Max. wheel dimensions OD x W x BD	500 x 100 x 127mm
Wheel recess dimensions both sides (only with digital inverter - option M20)	220 x 20/30mm
Machine rough mass	9000kg
Standard machine voltage	400V / 3 phases / 50Hz + N + PE
Standard machine colour	RAL 7037 (dust grey) RAL 7035 (light grey)

TRAVELLING COLUMN with stabilised Meehanite cast-iron structure:

- maximum rigidity
- removes a large amount of material
- flatness guaranteed

With the travelling column, the wheelhead is fully supported

HYDROSTATIC SUPPORT ON ALL MACHINE AXLES WITH FULL GRIP SLIDEWAYS.

All the machine axles feature full grip hydrostatic slideways along the entire travel. This involves:

- absence of anti-friction material (turcite)
- zero friction (optimal exploitation of the installed power)
- zero wear (geometry guaranteed for a long period of time)
- No stick-slip. Extremely smooth movements

Available with three levels of control automation available:

DIASTEPI

The DIASTEP unit manages all the machine functions, displays the axes, and allows you to set an automatic grinding cycle through the guided menu, thereby facilitating the operator's task. Its control flexibility allows you to modify the entered parameters without interrupting the cycle.

Depending on the different types of machining (continuous, pulse, plunge grinding), the cycle consists of the following stages: rough grinding, finish grinding, spark out, automatic dressing with compensation, and disengagement of the axes at the end of the cycle.

The accurate self-diagnosis allows anomalies to be controlled and displayed through alarm messages, thereby enabling unattended machining operations

CN Plus Touch Screen

CN plus ensures higher automation.

In particular, in addition to that described for the DIASTEP unit, it allows more workpieces to be stored in the memory, as well as linear and interpolated wheel dressing on the table to use wheels with parametric profiles, multi-surface machining, and shoulder grinding on the Y-axis.

CNC based on SIEMENS SINUMERIK 840D SL

The decades of experience in flat surface grinding has allowed us to create a user-friendly, yet powerful and complete operator-machine interface. We provide a large number of options, such as table wheel dressing with one or more diamonds or with a diamond dressing disc; integrated CAD-CAM to generate and dynamically simulate profiles whilst optimising the movement of the tool both for the grinding wheel and for the machining surface.

The parameters related to machined workpieces and used grinding wheels can be saved in a file on the hard disk of the control unit and retrieved when needed. Moreover, an unlimited number of workpiece machining cycles can be recalled in sequence.