

CNC test bar milling machine › Model no. 1643

Extraction system for removing swarf with air ionisation to prevent static charging

Pneumatic clamping device for quick assembly of the test bars

Milling of test bars with a wall thickness up to 70 mm

Standards

| | |
|-------------|-------------|
| ISO 179/180 | ISO 16770 |
| ISO 527 | ASTM D 638 |
| ISO 6259 | ASTM D 1822 |

Description

The test bar milling machine enables bar-shaped plastic samples to be produced for tension, pressure, bending and flexural impact tests in accordance with a wide range of standards.

The CNC milling machine is a table-top unit with electrically locking protective doors.

Pre-configured machining programs for all common bar shapes and visualisation via Windows makes it very easy

to operate the milling machine. Up to five test bars can be produced in one milling process.

The all-round enclosure ensures safety at the workstation during the milling process. A swarf extraction system and the optional ionisation unit ensure the workstation remains clean.



Simple and safe operation

- Pre-configured machining programs
- Protective doors with safety lock
- Clean workstation thanks to machine enclosure
- Delivered with workbench

Reliable test results

- Test bars milled in accordance with standards
- CNC-controlled positioning of the axes
- Machined areas cooled with compressed air

Lasting efficiency


- High-quality unit components guarantee high reliability, a long service life and low maintenance costs

› Versions

| | V1643-0029 | V1643-0025 |
|---|---|--|
| Replaceable milling table | - | ● |
| Milling table with mechanical clamping device | ● | ● |
| Clamping range for blanks | Max. thickness 70 mm Max. length 250 mm | |
| Number of test bars | Max. 2/5 | Max. 2 |
| Milling table with pneumatic clamping device | - | ● |
| Clamping range for blanks | - | Max. thickness 22 mm Max. length 170 mm |
| Number of test bars per milling process | - | Max. 5 |
| Rotational speed of spindle | Between 3000 and 18000 per minute | |
| Hard metal milling cutter Ø 5, 8, 12 mm (subject to standard) | ● | |
| Diamond milling cutter | ○ | |
| Industrial vacuum cleaner | ○ | |
| Ionisation unit with integrated extraction system | ○ | |
| Milling program | Can be selected acc. to EN, ISO, ASTM, etc. | |
| Operation via PC | ● | |
| CE conformity | ● | |
| Permissible ambient temperature °C | +5 to +30 | |
| Permissible relative humidity | Max. 70%, non-condensing | |
| Noise emission | 85 dB(A) during the milling process | |
| Width (milling table) mm | 500 | |
| Depth (milling table) mm | 300 | |
| Width mm | 900 | |
| Depth mm | 1100 | |
| Height mm | 1100 | |
| Weight kg | 320 | 350 |
| Voltage data | 230 V, 50 Hz (other voltages on request) | |

● included ○ available/optional □ eligible - not available

» Accessories

| Product | Description | Model no. |
|--|---|---|
|  | Tensile tester <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | H3016 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
|  | Pendulum impact tester <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | H3018 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
|  | FNCT <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | 1598 1719 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |