

Competence creates Confidence.



• Model no. 1653

NOTCH MILLING MACHINE

ISO 13479



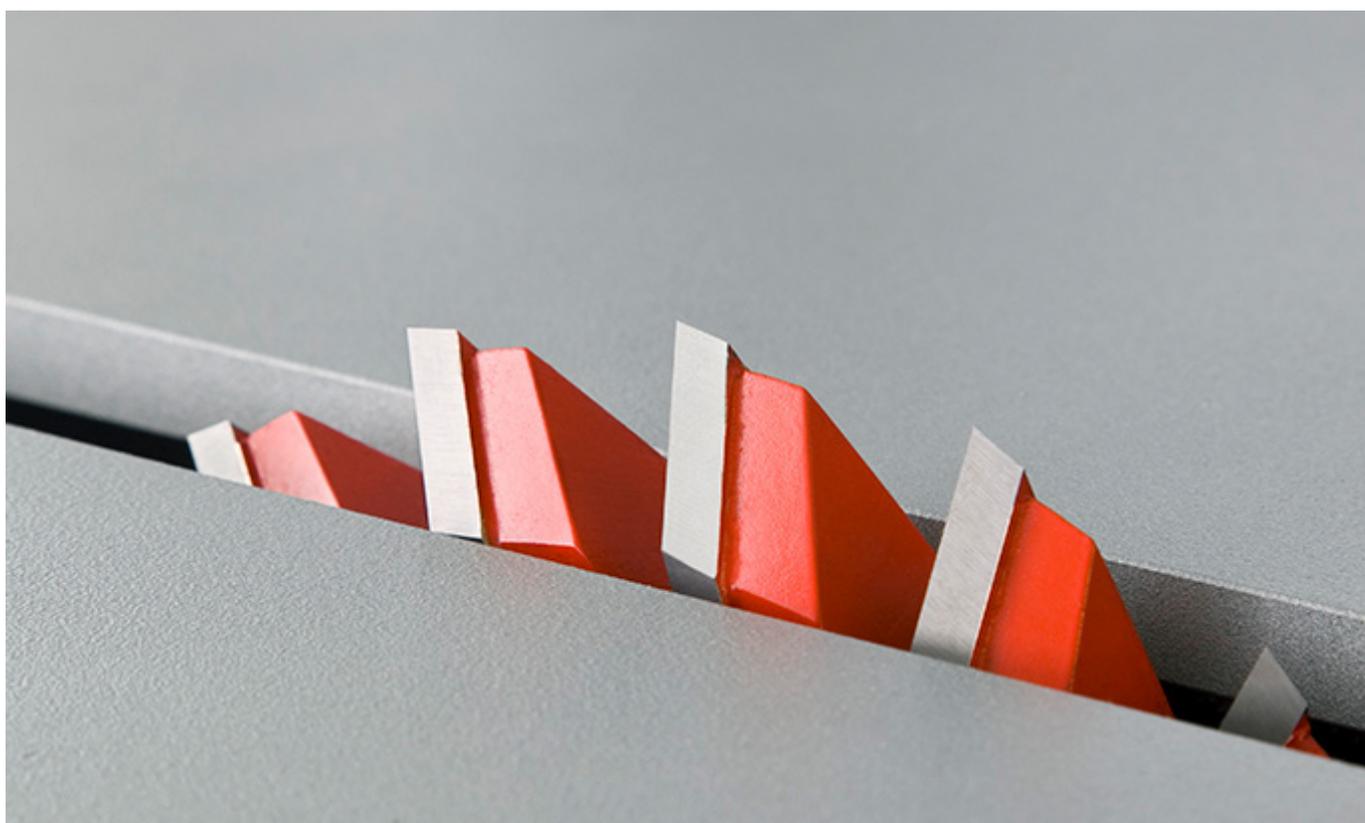
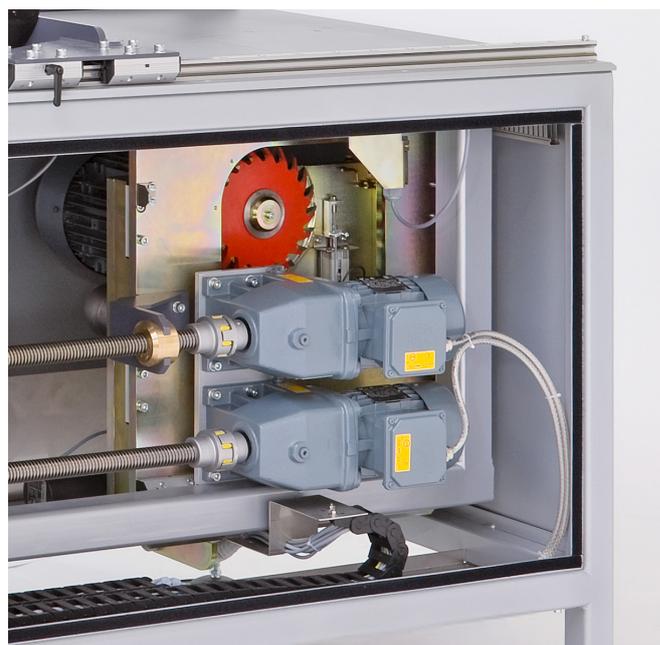
Cracking
under pressure

Precision notching

ISO 13479 is a test method for determining the resistance to slow crack growth of polyolefin pipes for transporting fluids. It is also known as the notch test and is specifically applicable to pipes with a wall thickness of more than 5 mm. The method measures the time until a pipe breaks under hydrostatic pressure, whereby the pipe has previously been marked with a specific notch.

The pipes to be tested are processed using a special notch milling machine in accordance with ISO 13479. This involves making defined V-shaped notches in the outer surface of the pipe.

ISO 13479 is therefore an important standard for assessing the reliability and service life of polyolefin pipes, particularly with regard to their resistance to cracking under pressure.



Standard features

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- | | |
|---|---|
| ● Convenient operation and clear visualisation via integrated touch display | ● Fixation of the sample with motor-actuated holder and friction coupling |
| ● Automatic computing of the zero point of each milling process; calibration by means of supplied reference gauge | ● V milling head |
| ● Adapter for sample size 1: 63 – 160 mm Ø | ● Adapter for sample size 2: 160 – 315 mm Ø |
| ● Adapter for sample size 3: 315 – 630 mm Ø | ● CE conformity |
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Options

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|---|---------------------------|
| ● Face milling cutter for wall thicknesses >50 mm | ● Swarf extraction system |
| ● Groove measuring instrument | |
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V1653-0004

Design of NOTCH MILLING MACHINE

| | | |
|---|--------|---|
| Outside diameter of the pipe | mm | 63 – 630 |
| Max. pipe length | mm | 2,000 |
| Notch length | mm | 50 – 650 |
| Wall thickness | mm | > 5 |
| Adapter for sample size 1: 63 – 160 mm Ø | | Yes |
| Adapter for sample size 2: 160 – 315 mm Ø | | Yes |
| Adapter for sample size 3: 315 – 630 mm Ø | | Yes |
| V MILLING HEAD | | |
| Diameter | mm | 200 |
| Number of teeth | | 20 |
| Rotational speed of motor | rpm | 703 |
| Rapid longitudinal feed rate | mm/min | 940 |
| Slow longitudinal feed rate | mm/min | 140 |
| Cutting feed rate in line with standard ISO 13479 | mm/rev | 0.01 / tooth |
| SLOT CUTTER | | |
| Diameter | mm | 16 |
| Number of teeth | | 2 |
| Rotational speed of motor | rpm | 7,800 |
| Rapid longitudinal feed rate | mm/min | 940 |
| Slow longitudinal feed rate | mm/min | 140 |
| Cutting feed rate in line with standard ISO 13479 | mm/rev | 0.01 / tooth |
| Permissible ambient temperature | °C | +5 to +30 |
| Permissible relative humidity | % | Max. 70 non-condensing |
| Noise emission | dB(A) | < 70 |
| Width x height x depth | mm | 2,250 x 2,210 x 1,100 |
| Weight | kg | 560 |
| Voltage data | | 230/400 V 50/60 Hz special voltages on request |

Accessories for NOTCH MILLING MACHINE

| Product | Description | Model no. |
|--|--------------|------------------------------|
|  | Pipe tester | 1720 1774 1785 1814 |
|  | Test tank | 1751 - 1757 1830 |
|  | End closures | 1732 1784 1685 1810 |