

Competence creates Confidence.



• Model no. 1653

NOTCH MILLING MACHINE

ISO 13479



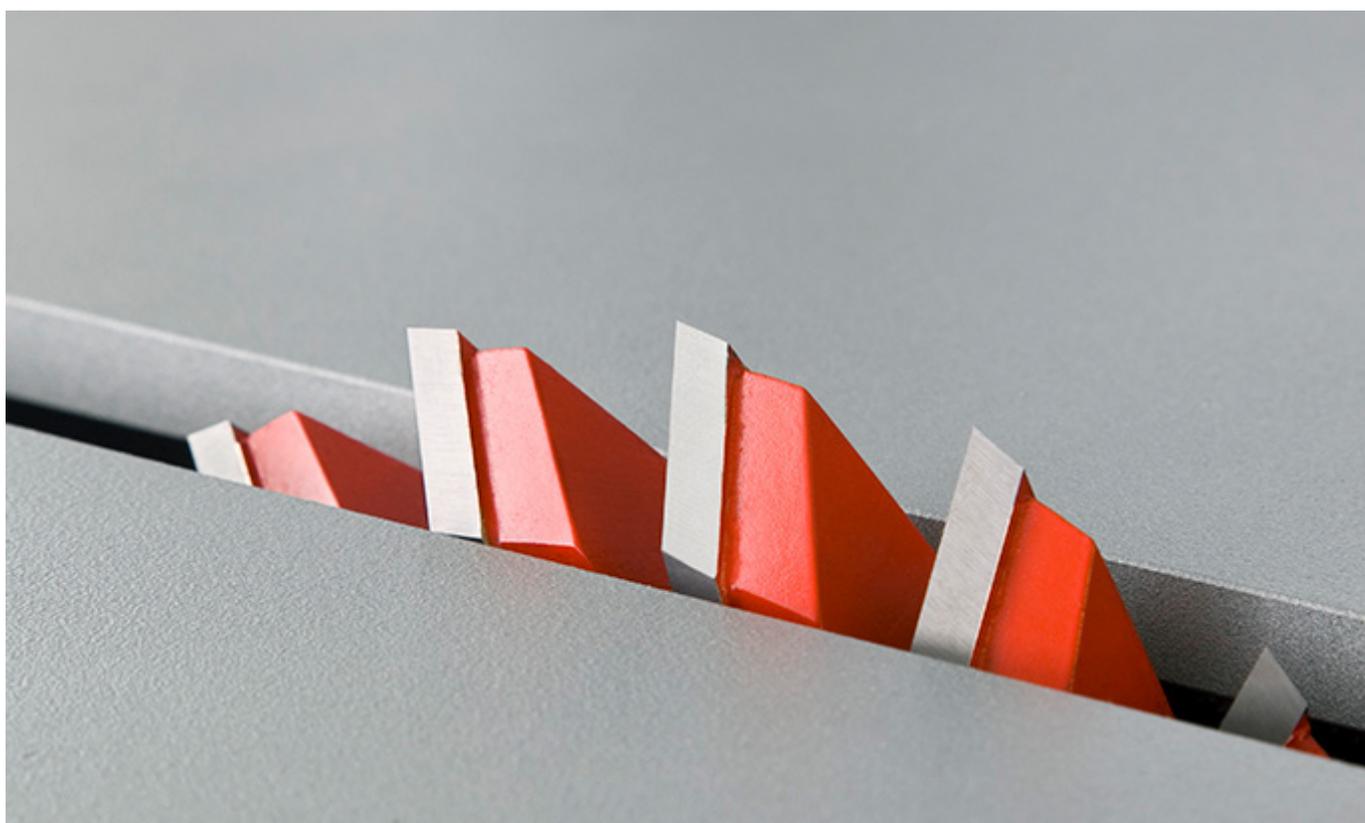
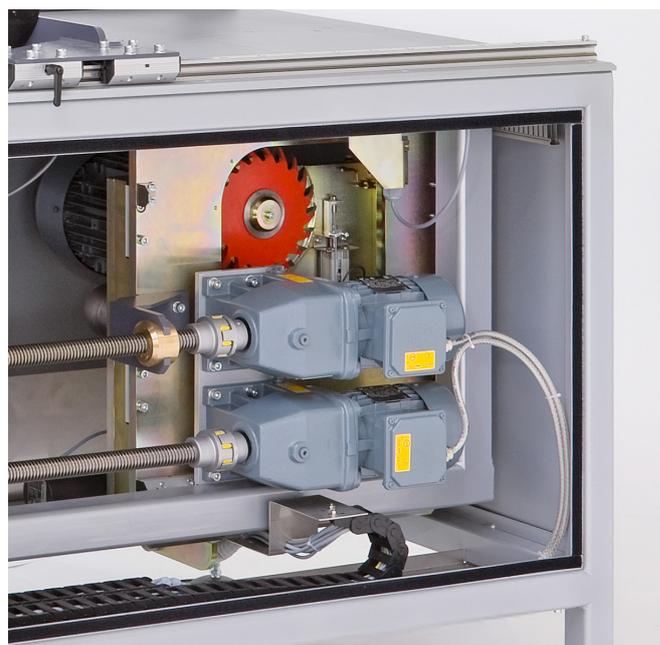
Cracking
under pressure

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