

EQT-100



Pin Cutter Machine



 **EQUILAB**

EQT-100 Pin Cutter Machine

The EQT-100 Pin Cutter is a semi-automatic hydraulic press specifically engineered for cutting lollipop sample tails and producing pins from rods. It simplifies sample preparation for spark spectrometry and ensures precise pin dimensions for elemental analysis in automated CS, N, and H₂ analyzers. By replacing manual shear cutting, the EQT-100 provides a robust, reliable solution for the common processing challenges found in steel plants worldwide.

The EQT-100 Pin Cutter Machine applies up to **10 tons of force** through a precision blade to **shear lollipop sample tails** and **produce pins of various lengths from solid rods of virtually any metal.**

The EQT-100 Pin Cutter Machine easily **sections round, oval, and dual-thickness disc samples**, and can process **rods up to 10 mm in diameter.**

During operation, the sample is placed in a reinforced safety housing to prevent it from flying out during the mechanical cutting process. By automating the rod-cutting process, the system enables articulated robotic arms to handle the discs without manual intervention—improving laboratory

routine and **overall productivity for steel plants worldwide.**

The unit includes a specialized tool to **produce uniform rod and wire segments**, ensuring the consistent sample weights required for accurate elemental analysis.

The cutting blade is engineered from high hardness steel in a unique cubic design. This allows all eight edges to be utilized, **radically extending the blade's lifespan.**

The EQT-100 Pin Cutter Machine combines **cutting edge reliability for diverse metal samples with a design focused on total user safety.**

- Remove lollipop sample tails in seconds
- Produce pins of various lengths for elemental analyzers
- User-friendly design with an emphasis on operator safety





View of pins with different cutting lengths



Sample extraction tool



Rod clamping tool



Depth-setting attachment



Front view of the
**EQT-100 Pin Cutter
Machine**

Technical Specifications:

Operating Principle:	Shear cutting
Type of Cut:	Blade-driven shearing
Required Cutting Force:	80 kN
Operation Pressure:	190 bar
Feed Speed:	0,5 cm/s
Cycle Time:	4 seconds
Daily Throughput:	1500/2000 cuts in one work shift
Blade Material:	High-hardness steel
Power Supply:	230 V / 50 Hz
Max Power Consumption:	1,0 kW
Control Interface:	ON/OFF Switch, with Push Button and Emergency Stop
Dimensions:	34.2 cm (height) x 43.5 cm (width) x 60 cm (depth)
Approximate weight:	≤ 80 kg

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