

Automatic Metallographic Cutting Machine with Rotation Speed 500-3000rpm

iCut-413 metallographic sample cutting machine has automatic and manual cutting modes. With the optional X axis worktable, it has automatic and continuous cutting function along the Y axis.

With the function of adjusting the height of chief axis, it is used in a variety of shapes, sizes and materials sample cutting. The cutting capacity can meet the daily production inspection and laboratory detection for cutting samples.

Feature:

- 1, Rotation speed was adjustable from 500RPM to 3000RPM, and the speed stability won't be changed due to the load.
2. Available to use small and thin diamond cutting disc or big abrasive cutting disc. It compensates the wear and tear of cutting disc, effectively improves the cutting disc and saves the cost.
3. With the optional X axis worktable, it can realize the continuous cutting along the Y axis under automatic mode.
4. With horizontal automatic or manual feed mode, flexible feed mode and large feed stroke, it can be applied to large work piece cutting.
5. It can choose the program to control feeding for accurate feeding control.
6. With large sample observation window, it is more convenient for user to observe sample cutting process.
7. With the exhaust device, it can guarantee the efficient discharge of steam and smoke when cutting, and make the observation more clearly.
8. With LED lighting design regulation, it can realize the effective illumination of the whole area of cutting room.
9. The filter tank adopts a magnetic system, when the circulating water goes through the magnetic system, the metal cutting debris will be sucked out by the magnetic system and excluded out. It increases the cutting effect of the sample and the frequency of use of circulating water, and avoids the blockage of the drainage system of laboratory.

Technical Specification:

Cutting Mode	Manual Cutting, Automatic Cutting
Cutting Disc Type/Size	Diamond/Resin; 250 x 2 x 32mm, 300 x 2 x 32mm
Rotation Speed	500-3000rpm
Lifting Stroke	50mm
Lifting Method	Slewing hand wheel control
Stainless flange Plate	80mm
Max. Cutting Ability	Max 90mm Round bar
Feed Speed	1-40mm/min, adjustable
Feed mode	Automatic mode, Manual mode
Feed Method	Horizontal feed
Y axis travel	260mm
X axis travel	40mm
Size of cutting platform	Size: 435*300mm, 12mm groove T type working table
Cutting fixture	Rapid push and pull type vise, one set each for left and right operation. Jaw height: 60mm.
Lighting	Built-in LED lighting
Cooling system	Three cooling water and one cleaning water
External circulation tank	88L
Motor	3KW Frequency conversion motor
Power supply	AC380V/50HZ/3Ph

Metallographic Sample Cutting Machine with Max Cut Diameter 50mm

iCut-401 Metallographic sample cutting machine is used for the first working procedure of metallographic sample preparation.

It adopts high speed rotating thin cutting disc to cut samples. In order not to burn the sample, it equips with cooling system.

Very easy to use and maintain and widely used in the metallographic laboratory for cutting various metal samples.


Main Parameters:

Cutting Section	50 x 50mm
Cutting Wheel Size	300 x 2 x 32mm
Rotation Speed	2800rpm
Motor	2.6KW, 380V/50Hz/3Ph
Dimension	740 x 465 x 390mm
Weight	70Kg