PRO BROACH / **PRO** BROACH +

*Over **60** years of consistent excellence*

Manual & Automatic
Broaching Machine

Model : Pro Broach (Manual),
Pro Broach + (Automatic)

Hand Operated
V Notch Operations.

Ideal for Small Batch Quantities

Accurate Notch Profile

Automatic
V / U Notch Operations.

Ideal for Small Batch Quantities

Accurate Notch Profile

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Manual Broaching Machine
Model : Pro Broach

Specifications :

Ram Stroke	284 mm
"V" Notch preparation degree	45°
Jobs possible to do	Izod Specimen Charpy Specimen
Specimen Size	Izod - 10 x 10 x 75 Charpy - 10 x 10 x 55
Machine Dimension	L x W x H 500mm x 254mm x 1360mm
Weight of Machine	65 kg.
Standard Accessories V Broach	1 No.

Technical Description :

The Pro Broach Hand Operated Notch Broaching Machine is designed for test houses and laboratories, which are producing small batches of test pieces in carbon steels, easily machined low alloy steels, non-ferrous and plastic materials.

The machine is of robust construction designed to be mounted on our specially designed bench or on a customer's bench.

This hand operated machine will cut Charpy and Izod 'V' notches in pre-machined standard 10mm square.

Hand operation makes it ideal for small batch quantities.

Method of Operation :

The broach is mounted in a square section rack and secured at the top & bottom by clamps.

Adjusting screws built into the machine body are set to obtain the correct depth of notch and its position along the specimen.

Once set, the adjusting screws provide repeatability for the next specimen. The broach can easily be removed, for re-sharpening or replaced to cut a different type of notch.

The sample is secured in the machine by two clamp screws.

A light coating of cutting oil is to be applied to the broach and then the hand wheel is operated which draws the broach through the specimen to produce an accurate notch profile.

After the notch has been cut, the sample is removed, the broach raised and the broach teeth cleaned, ready for the next sample.

Note :

Machine comes with "V" Notch Broach.

'V' Notch Sample Specimen

Close view of Broach

Due to constant Research & Development, Specifications and Features are subject to change without notice.

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Automatic Broaching Machine
Model : Pro Broach +

Specifications :

Ram Stroke	284 mm
"V" Notch preparation degree	45°
"U" Notch preparation degree	90°
Jobs possible to do	Izod Specimen Charpy Specimen
Specimen Size	Izod - 10 x 10 x 75 Charpy - 10 x 10 x 55
Machine Dimension	L x W x H 574mm x 254mm x 1400mm
Weight of Machine	80 kg.
Power Required	230 VAC, 50 Hz, 1 Phase

Technical Description :

Our motorized broaching machine is a self-contained floor mounted unit, specially designed for cutting Charpy and Izod 'V' and 'U' notches in pre-machined standard 10mm square.

Method of Operation

The machine is simple to operate and of robust construction, with large front door to provide access for routine maintenance. The design of the machine provides a comfortable working height.

The cutting operation is achieved by drawing a specially designed multi-toothed broach across the specimen.

The broach is drawn into the machine by precision rack and pinion type arrangements via to ensure the broach cuts perpendicular to the specimen clamp, limit switches are fitted for end of stroke travel.

Once the notch depth has been set and the specimen clamped in position, the machine operation is activated via lower and raise push- buttons.

An additional stop button is fitted for emergency use.

The machine operation is controlled by the lower and raise push-buttons, which forward and reverse the machine motor, resulting in the broach cutting and return strokes being at a fixed speed.

The motor has thermal overload protection to protect the drive mechanism.

A hand-operated clamp is mounted on the machine top plate at a comfortable working height and ensures that the specimen is held accurately and securely in position.

It is fitted with adjusting screws and an end stop to ensure correct specimen positioning.

A micro-adjustor provides manual adjustment for broach depth of cut and hence the final notch depth. Once set, the adjusting screws provide repeatability for the next specimen.

The sample is secured in the machine by the clamp.

A light coating of cutting oil is applied to the broach and the lower push-button/switch is operated which draws the broach through the specimen to produce an accurate notch profile.

After the notch has been cut, the sample is removed, the broach raise push-button/switch operated, which raises the broach and the broach teeth are cleaned, ready for the next sample.

Note :

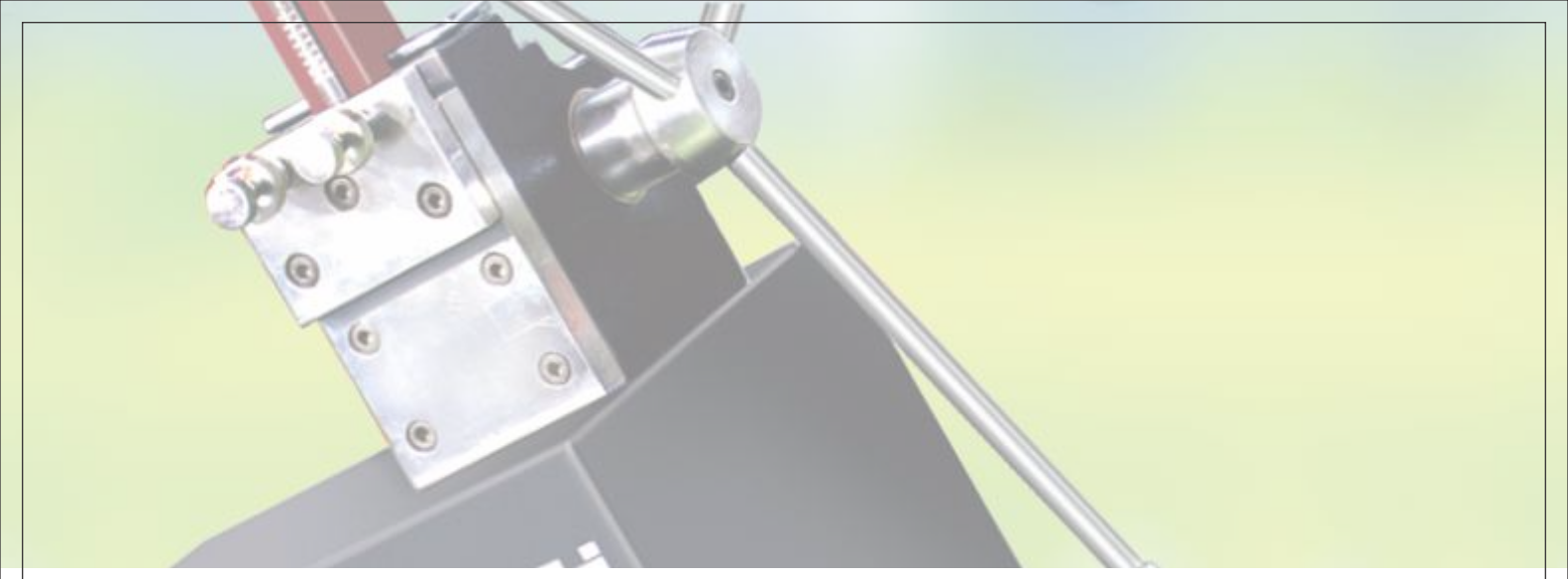
Machine comes with either "V" or "U" Notch Broach.
It depends on customers requirement.

"V" Notch Sample Specimen

"U" Notch Sample Specimen

Close view of Broach

Due to constant Research & Development, Specifications and Features are subject to change without notice.



Manual & Automatic Broaching Machine

PRO BROACH
(Manual)

PRO BROACH +
(Automatic)

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Manufactured By :

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