

# Accessories for Resilience test

## Hydraulic broaching machine

Rev. 01-2023-EN



### Product Information

The Broaching Machine is used to make high precision "U" or "V" notches of 2, 3 or 5 mm depth, on 55 x 10 x 10 mm specimens to be subsequently subjected to impact tests. By means of a suitable broach, as required by the EN and ASTM standards the machine can make KV, KU or KCU notches, necessary for the correct execution of the resilience test with the Charpy Pendulum.

### Working principle

The broaching machine, by means of broach's cutting templates (to be ordered separately), engraves the material until the carving is completely performed on the specimen.

The hydraulic unit, located at the bottom of the machine, drives the broach by pushing it vertically, while the specimen, clamped by a vice located on the base of the fixture, is notched.

Depending on the type of broach used, U or V shaped notches and different depths (2 to 5 mm) are possible.



### Main Reference Standards

ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials.
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products.
UNI EN ISO 148-1	Metal Materials - Charpy Impact Strength Test - Part 1: Test Method
DIN 50115	Notched bar impact testing of metallic materials using test pieces other than ISO test pieces



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### Technical Features

Broach length	500 mm
Broaching speed	Adjustable from 0.5 to 4 mm/sec
Working principle	Hydraulic, semiautomatic
Included accessories	Device to support and guide the broach
Dimensions	750 x 490 x 1730 mm
Weight	100 kg. approx.
Power supply	380 V / 50 Hz / 3 phases

### Models

M03800E01 – Broaching machine for KU, KCU and KV notches.

### Optional accessories

- P03800301 Broach for KV notch 2 mm.
- P03800401 Broach for KU notch 2 mm. Mesnager type
- P03800501 Broach for KU notch 3 mm. DVM type
- P03800601 Broach for KU and KCU notches 5 mm.
  
- P03800101 Spare support to guide the broach.

