



RAZOR NOTCH



DESIGN AND PRODUCTION OF
INSTRUMENTS AND APPARATUS
FOR QUALITY CONTROL
ON MATERIALS



These instruments are made in
compliance with CE health and
safety requirements



Razor Notch - code 6545.210

In the field of fracture mechanics specimen notching is of great importance because the stress level in the notched area is highly influenced by the notch characteristics.

This is the reason why the standard resiliency test methods require a well defined shape and depth of notching.

All the more reason in the case where instrumented resilience tests are carried out, the specimen notching shape and depth are to be kept under close control in order to get a reliable determination of typical fracture mechanics parameters (K_{IC} , G_{IC} , J_{IC}).

One of the most important things in fracture mechanics field is the evaluation of specimen behaviour when the notching depth is varied, mainly if the notch radius is "O", i.e. the lowest possible. In the metal fracture mechanics area the normally used technique is the fatigue precracking.

To give a similar possibility in plastic materials area, CEAST proposes a simple and reliable apparatus which allows the samples to be notched to a desired depth with an accuracy of one hundredth millimeter, measured by means of micrometer.

The notching device is a special blade: this tool has been suggested by the specialized literature as the most suitable to get a notching radius small enough for the intended use.

The specimen is secured to the vice then, by operating the micrometer knob, the blade is pushed into the material up to the required depth.

This apparatus is a reliable and economical alternative to the precracking machines to get small radius notch of desired depth.

Spare blades code 0400.462 (set of 10)

Technical Data

Overall dimensions (L x D x H) mm	200 x 100 x 70 approx.
Mass kg	1,7 approx.

"Due to the continuous development policy of CEAST's Research and Development Department, changes may be introduced without notice"



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