

NOTCHING TOOL-A

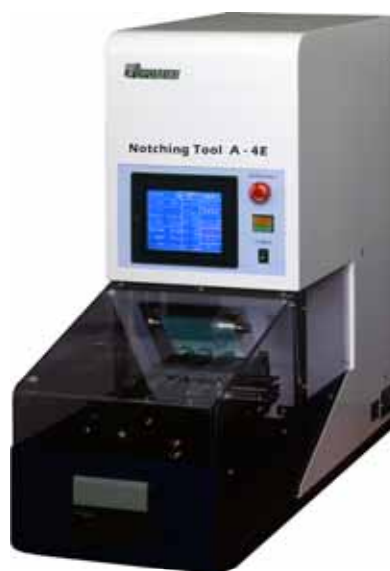
APPLICATION

Notching tool A Series is designed to automatically cut notch under preset conditions according to ISO 2818, JIS K 7144. By retrieving cutting conditions from the memory it accurately and safely cuts notch with little flash by repeating the standard one-time cutting depth using single-tooth cutter. (Example: The cutting time in case of feed speed 350mm/min. cutting depth 1mm/time, thickness 4mm, 25 pcs. of ISO recommended conditions is approximately 80 seconds.)

In addition to cutting notch in Izod and Charpy impact test samples, Model A4 can also cut from multipurpose samples, (A dumbbell) of ISO 3167 and JIS K7139 to impact, bending and creep test samples, etc.



Model A-4



Model A-4E

FEATURES

1. Full automatic notch and slice cutting, only setting/removal of sample is manual.
2. Allows notch cutting and cutting from ISO multipurpose sample.
(Only notch cutting in Model A-4E)
3. Allows notch cutting at high accuracy with 0.01mm resolution by means of pulse motor.
4. Up to 99 cutting conditions can be stored in the memory and notch dimensions can be controlled by the stored conditions.
(Maximum 16 cutting conditions in memory in Model A-4E)
5. Automatic detection of reference home position of notch depth.
(Reference home position is determined by actual sample method in Model A-4E.)
6. By opening the safety cover during cutting, the machine automatically temporarily stops to assure safety.
7. Permits double notch cutting by means of special holder (Option)

SPECIFICATIONS

Model	Model A-4	Model A-4E
1. Notching system	Single-tooth cutter, milling system(ISO 2818, JIS K 7144), full automatic except setting/removal of sample	
2. Content of cutting	Single notch, slice cut, double notch(option)	Single notch, double notch(option)
3. Sample clamp capacity	Length 50 ~ 210mm(sample end support up to 200mm) Height 3 ~ 15mm Thickness...max. chuck span 100mm(thickness 4mmX25 pcs.)	
4. Notch height setting	3 ~ 15mm, resolution 0.01mm(input with reference to sample's bottom surface)	
5. Reference surface detecting system	Touch sensor system	Actual sample method
6. Height setting motor(Z axis)	Uses pulse motor and ball screw	
7. Horizontal feed motor(X axis)	Uses pulse motor and ball screw Travel speed can be arbitrarily set at the time of cutting (50 ~ 1200mm/min)	
8. Cutter motor	AC servo motor 400W Arbitrary setting(200 ~ 900rpm)	Synchronous motor(revolutions fixed by electric power frequency) 50Hz: 300rpm, 60Hz: 360rpm
9. Notch cutter(single-tooth)	External dia. 75mm, angle 45 °, tip radius R 0.25mm, material SKH (1 cutter supplied)	
10. Slice cutter	External dia. 100mm, thickness 1mm, material SKH(2 -cutter set supplied)	
11. Slice cutting length	80mm(for ISO multipurpose sample), 63.5mm(option)	
12. Safety devices	Temporary stop by opening safety cover, emergency stop switch, leakage circuit breaker(30mA)	
13. Electric power source	AC100V 50/60Hz 8A	AC100V 50/60Hz 3A
14. Dimensions, weight	Approx. W30XD70XH70cm, approx. 65kg	

