



No. **189-PFA** SAMPLE FORMING MACHINE (AUTOMATIC)



No.189-PFA

➤ FEATURE

This machine enables the operator to prepare dumbbell type test specimens by cutting rigid plastic sheets with 2 spiral cutters. The rotating speed of the cutters, cutting pressure, and the sending speed can be adjusted to provide the operator with optimum preparation of dumbbell type test specimens.

➤ SPECIFICATION

Spiral Cutter	φ25 mm, T25 mm
Cutter Rotation Speed	100 to 1,200 rpm
Pressure Gauge	Max. 1 MPa (Scale 0.05 MPa)
Clamp Feed Speed	0.3 to 10 mm/s
Forming Jig	To be Specified
Accessories	Suction Device (Vacuum Cleaner)
Option	Air Compressor
Power Source	AC 200 V, 3-Phase, 20 A, 50/60 Hz
Air Source	0.5 MPa or More
Dimensions/ Weight (Approx.)	W810 × D510 × H560 mm/ 100 kg

No. **189-PFA-S** SAMPLE FORMING MACHINE (FULLY AUTOMATIC)



No.189-PFA-S

➤ FEATURE

This model is the fully automated version of the SAMPLE FORMING MACHINE, which can cut sheet material into pieces in the dumbbell or rectangle shapes.

➤ SPECIFICATION

Spiral Cutter	φ25 mm, T25 mm
Cutter Rotation Speed	1,000 to 3,000 rpm
Pressure Gauge	Max. 1 MPa (Scale 0.05 MPa)
Clamp Feed Speed	30 to 300 mm/min
Forming Jig	To be Specified
Accessories	Cutter 2 sets (2 pcs/set), Suction Device (Vacuum Cleaner), Air Gun (Built In)
Safety Device	Safety Cover, Overcurrent Protection
Power Source	AC 200 V, 3-Phase, 40 A, 50/60 Hz
Air Source	0.5 to 0.65 MPa
Dimensions/ Weight (Approx.)	W1,350 × D1,150 × H1,830 mm/ 710 kg

No. **189-PN** NOTCHING MACHINE



No.189-PN

JIS-K7144, ISO-2818

➤ FEATURE

This machine is used to notch test specimens for Charpy and Izod impact tests. When replacing the notch cutter blade, the blade can be independently taken off, adding to low running costs.

➤ SPECIFICATION

Clamp	Opening Max. 40 mm (Standard: 4 mm × 10 pcs), Feed Speed 1.75 mm/ 1 turn
Cutter Rotation Speed (Approx.)	600 rpm
Notch Depth	Manual, Range 0 to 4 mm (Scale 0.01 mm)
V-Notch Cutter	Single Tooth Tip, Outer Diameter φ75 mm, T5 mm, Top Angle 45°, Top R0.25 mm, Material: High Speed Steel (Option: Cemented Carbide)
Option	Pneumatic Clamp, U-Notch Cutter
Power Source	AC 100 V, 1-Phase, 15 A, 50/60 Hz
Dimensions/ Weight (Approx.)	W420 × D530 × H380 mm/ 50 kg

*Power source, dimensions, weight may differ by specifications.

No. 189-PNA/PNCA NOTCHING MACHINE (AUTOMATIC)



No.189-PNCA
(Closed Image)



No.189-PNCA
(Open Image)

JIS-K7144, ISO-2818

> FEATURE

Adding an electronic specimen sending system together with side cutting and electronic notch depth adjusters to the usual NOTCHING MACHINE, the automated series enables the operator to conduct optimal notching conditions for impact test samples.

> SPECIFICATION

Model	No.189-PNA	No.189-PNCA
Clamp	Opening Max. 80 mm (4 mm × 20 pcs), Feed Speed 50 to 600 mm/min	
Cutter Rotation Speed (Option)	150 to 1,780 rpm	
Notch Depth	Automatic, Range 0 to 4 mm (Scale 0.01 mm)	
V-Notch Cutter	Single Tooth Tip, Outer Diameter φ75 mm, T5 mm, Top Angle 45°, Top R0.25 mm, Material: High Speed Steel (Option: Cemented Carbide)	
Side Cutter	-	L80 mm (Standard), Outer Diameter φ100 mm, T1.6 mm
Accessories	Suction Device (Vacuum Cleaner)	
Option	Pneumatic Clamp, U-Notch Cutter	
Power Source	AC 100 V, 1-Phase, 15 to 20 A, 50/60 Hz	
Dimensions/ Weight (Approx.)	W810 × D510 × H560 mm/ 60 kg	