

**MUTOH**  
Creation, we make it happen...

Automatic Chart Marking Machine

**PG-1000**

High-precision chart drafting machine

NEW



**The MUTOH "PG-1000" achieves ultra-high precision of 20 $\mu$  through the adoption of the linear scale method.**

The PG-1000 is a drafting machine to create diagrams for profile grinders that require particularly high accuracy and to create inspection drawings with a projector.

It has inherited the high technology of the former "PG-820" model, and achieves the ultra-high precision as a cutting plotter.

The PG-1000 meets the demand for improvement of quality and shortening delivery time which are always required.

# The adoption of the highly reliable linear scale method. A chart drafting machine that achieves ultra-high precision is launched!!

## Inherit the positioning accuracy of $\pm 0.02$ mm

The MUTOH PG-1000 has inherited the ultra-high precision pen plotter technology of the former "PG-820" model that already has established a strong reputation. Through the adoption of the highly reliable linear scale method, the PG-1000 achieves a positioning accuracy of  $\pm 0.02$ mm by constantly detecting the position of the XY axis.

The positioning accuracy:  $\pm 0.02$  mm  
The straightness accuracy:  $\pm 0.02$  mm  
The repetitive accuracy:  $\pm 0.02$  mm

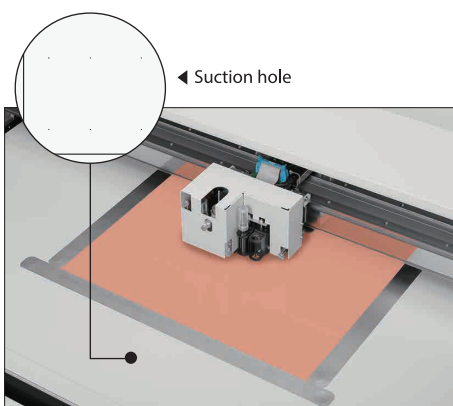
Using the ultra-hard double-edged blades, the direction of cutter is controlled through the  $\theta$  axis control to faithfully reproduce CAD data. The PG-1000 enables a precise and high-quality cut.



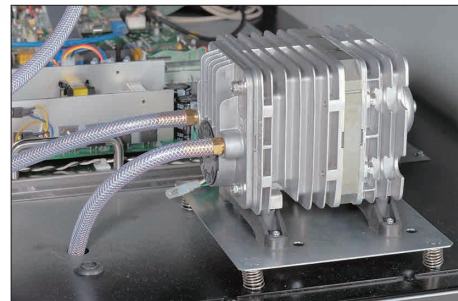
▲ PG-1000 head

## Well-developed media fixing method

A vacuum pump for media suction is installed as standard. The combined use of a magnet sheet and drafting plate improves reliability as inspection drawings for ultra-high precision processing.



▲ Attach to the magnet sheet with the drafting plate



▲ Vacuum pump (Standard equipment)

## The PG-1000 field-of-use

- Creation of diagrams for profile grinders
- Creation of chart for a projector
- Creation of masking film for art works

## PG-1000 Specifications

Drive system	Steel belt & pulley
Effective drawing area	X-axis: 850mm Y-axis: 600mm
Speed	Axial direction: 400mm/s Diagonal direction: 566mm/s
Positioning accuracy	$\pm 0.02$ mm
Drafting board flatness	0.3mm
Input method of drawing data	Online input: ①RS-232C ②Wired LAN standard 10Base-T/100Base-TX
Media fixing method	Vacuum contact / Magnet sheet & drafting plate
Head	Cutter: 1pc concurrently mounted / Ballpoint pen: 2pcs*
Environment condition	Temperature: 15-30°C Humidity: 50-80% (R. H) Non condensing
Power supply	Single-phase 100V $\pm 10\%$ 50/60Hz $\pm 1$ Hz
Dimensions (W x D x H)	1,357 x 1,134 x 944mm
Weight	260kg

(\*): Option

<http://www.mutoh.co.jp/en/>

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