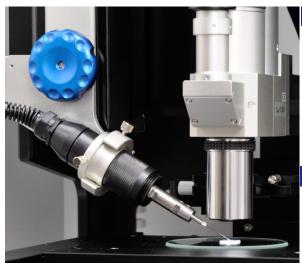
Micro-Milling attachment for micromanipulator

Milling Pro MIL-1

Micro-Milling under microscope.

- Milling Pro is an attachment that allows access to embedded substances in resins and other materials easily and quickly.
- ▶ Possible to extract foreign substance buried 2 to 300µm below the surface with visual confirmation on a PC monitor using Micro Support's Axis Pro micromanipulator.
- ◆ Difficult sample removal can be semi-automate if performed with the Axis Pro for repetitive milling to gain access to a foreign substance.
- The milling area and depth can be controlled though selection of the appropriate milling tool.



Applications **example**

- Extract embedded foreign substance from resin material
- Planar cutting to exact part of a buried foreign substance (for ATR microscopy)
- Wide range plane cutting by fixed depth(50µm ~)
- Marking of glass, wafer, or a metal sample
- Pinpoint cutting of IC package or liquid crystal panel
- Contact with internal defect (sample pretreatment for X-ray microscopy or ruler drawing on an IC chip)

Materials ****example****

◆Resin ◆

Polycarbonate, Polyimide, Polyethylene, Polystyrene, Polybutylene, Methacrylate, PET, Fluorocarbon polymers, coating film

◆Inorganic◆

Iron, Non-ferrous metal, rock, Silicon wafer, gold wires



《Milling Pro》

①Controller main unit ②Startup SW

3Milling main unit 4Safety cap

⑤Arm for Axis-Pro (Angle fixing arm)

*We change the arm depends on type of micromanipulator **6 Milling Tools**

• MPE-1M (Micro Peelers(tungsten carbide)/tip size 50µm)

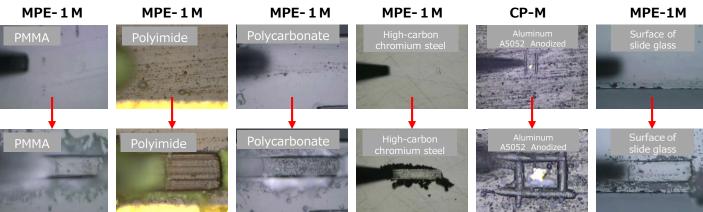
• MPE-2M (Micro Peelers(tungsten carbide)/tip size 100µm)

· CP-M (Tungsten carbide Probes/Needle, tip diameter 10µm)

 TP-M (Tungsten Probes/Needle, tip diameter 0.5µm)

«Specifications»

- · Controller unit: 85mm×290mm×140mm (3kg)
- Milling unit: φ28mm×140L (0.2kg)
 Power supply: AC100V 50/60HZ
 Rated power consumption: 25VA



Micro Support Co., Ltd.

1-3-19, Shikiji, Suruga-ku, Shizuoka-City, Shizuoka, 422-8036, Japan.

TEL: +81-54-269-5002 FAX: +81-54-269-5003 http://www.microsupport.co.jp/en/