

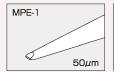
Tungsten Carbide Tools Super hard tools

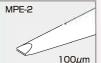


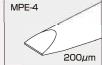














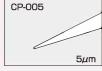
Lineup

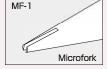
- ◆ Flat-head screw driver shaped
 ◆ Probe shaped



- Poking, rubbing, shaving, peeling, cutting, crashing, carrying
- Pickup fiber in adhesive







Plane cutting of surface of 10-micrometer cellulose







Manual handle TPH-3

Handle for manipulator TPH-10



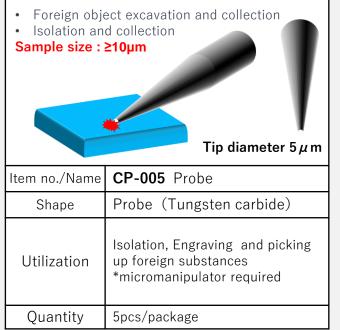
Notes for choosing tools

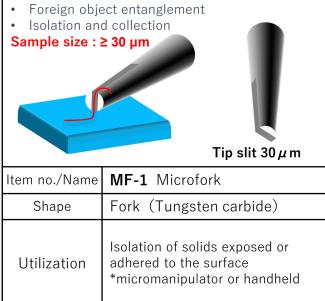
- Most suitable for excision of exposed substances in hard materials.
- Probe is recommended for hard resin, crystal, soft material surface, etc.
- KE series recommended for excision from soft material.

Size	Quantity	Part number
Peeler 50µm	3	MPE-1
Peeler 100µm	3	MPE-2
Peeler 200µm	3	MPE-4
Knife edge	3	KE-1
Knife edgeS	3	KE-2
Probe 5μm	5	CP-005
Fork 30µm	2	MF-1

Size	Quantity	Part number	
Probe 5µm	1 each		
Peeler 50µm		HT-SET	
Knife edge			
Peeler 50µm	1 each		
Peeler 100μm		MPE-SET	
Peeler 200µm			

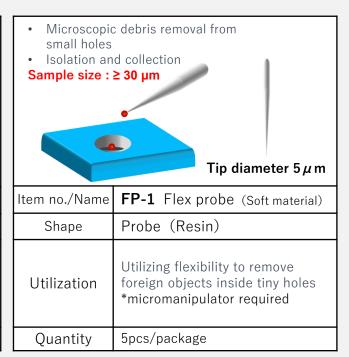
Micro tools (for picking up solid particles/materials) **Please choose smaller size tips than sample size.

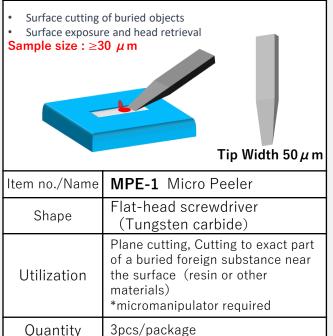




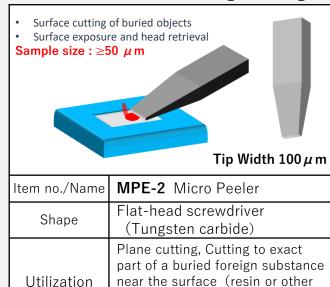
2pcs/package

Quantity





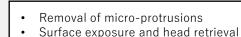
Micro tools (for shaving/milling)



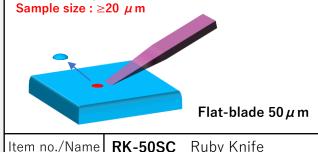
materials)

3pcs/package

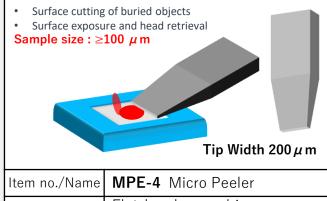
*micromanipulator required



Quantity



Item no./Name	RK-50SC Ruby Knife	
Shape	Flat-head screwdriver (Ruby)	
Utilization	Shaving off surface material, Extracting a protruding resin *micromanipulator required	
Quantity	1pc	

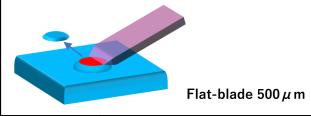


Item no./Name	MPE-4 Micro Peeler
Shape	Flat-head screwdriver (Tungsten carbide)
Utilization	Plane cutting, Cutting to exact part of a buried foreign substance near the surface (resin or other materials) *micromanipulator required
Quantity	3pcs/package

Protrusion Removal

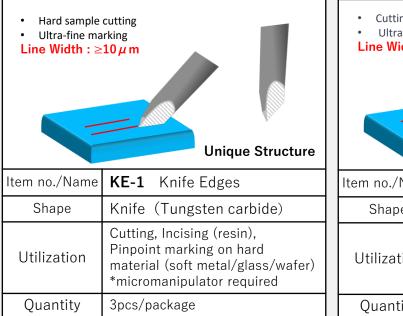
• Surface exposure and head retrieval

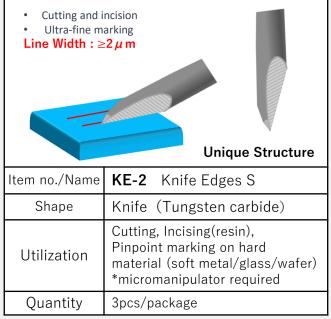
Sample size : \geq 100 μ m



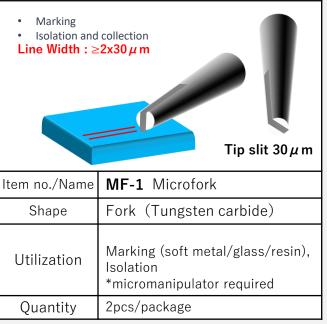
Item no./Name	RK-C Ruby Knife		
Shape	Flat-head screwdriver (Ruby)		
Utilization	Shaving off surface material, exposing a fish-eye defect, Extracting a protruding target *micromanipulator or handheld		
Quantity	1pc		

Micro tools (for marking)



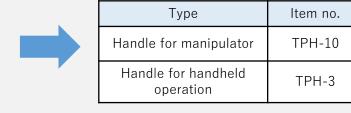


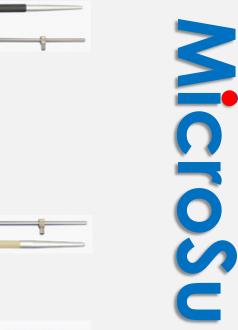




Exclusive handles for each tool

Tool	Item no.
Tungsten probe	TP-0002 TP-0005 TP-001 TP-005 TP-010 TP-030
Tungsten carbide tool	MPE-1 MPE-2 MPE-4 CP-005 KE-1 KE-2
Flex probe	FP-1





Tool	Item no.
Micro knife	MK-S15 MK-S30 MK-D



Type	Item no.
Handle for manipulator	MKH
Handle for handheld operation	MKH-2





Туре	Item no.
Handle for manipulator	TPH-20

Tool	Item no.
Micro pipette	MP-001 MP-005 MP-010 MP-020
Sampling probe	MST-002 MST-005 MST-007



Туре	Item no.
Handle for manipulator	MPH

Micro Tools Selection Chart

ltem	Material	Target Materials and Conditions	Purpose
Tungsten Probe	Tungsten	Solids which are exposed and adhered to sample surface	Picking up, Pinpoint cutting
Micro Knife SUS Double-edged Blade	SUS	Film, Soft Resin	Peeling off surfaces, Cutting of a film or a fiber
Micro Knife SUS Single-edged Blade	SUS	Film, Soft Resin	Cutting of a film or a fiber
Ruby Knife Single-edged Blade	Ruby	Film, Soft Resin	Cutting out cross-section of a sample
Ruby Knife Double-edged Blade	Ruby	Film, Soft Resin	Pinpoint cutting of an embedded substance, Cutting
Ruby Knife Flat-head Blade	Ruby	Film, Soft Resin	Shaving an embedded substances on or just below surface
Tungsten Carbide Probe 5µm	Tungsten Carbide	Resin (Hard), Wafer, Glass (Brittle), etc.	Marking
Knife Edge	Tungsten Carbide	Resin (Harder)	Cutting
MPE-1 (Blade Width: 50μm) Micro Peeler MPE-2 (Blade Width: 100μm) MPE-4 (Blade Width: 200μm)	Tungsten Carbide	Resin, Soft metal Solids which adhere to surfaces	Surface shaving
Microtweezer Tool Set	SUS	Isolated micro substances (even in adhesive materials)	Holding, Gripping and Pressing down
Milling Pro (for Axis Pro)	Depends on tools	Resin (Including some rubber), Metal, Wafer, Glass (Brittle)	Milling surfaces (up to several hundreds µm)
Micropipette	Silicate Glass	For Vacuum Absorption Tool Set and Microinjector	←
Vacuum Absorption Tool Set	-	Isolated micro substances which are dry.	Absorption pickup and discharging
Microinjector	_	Liquids	Extractive sample pickup, injection of solvent