

Positioners

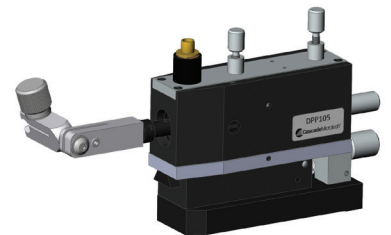
Product Overview

Cascade Microtech offers a wide variety of manual and motorized probe positioners for any application from DC to 500 GHz and beyond, as well as positioners specifically designed for RF/microwave, sub-micron and MEMS applications.

MANUAL POSITIONERS

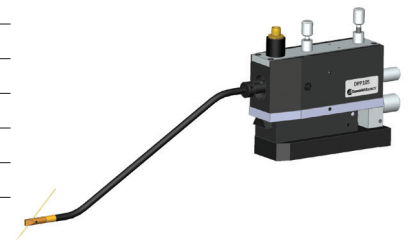
DPP105-PTH

Feature resolution	5 μm
Travel range (X/Y/Z)	8 mm / 6 mm / 25 mm
Screw resolution* (X/Y/Z)	350 μm / 500 μm / 1000 μm
Mounting	Vacuum, magnetic
Footprint (W x D)	60 mm x 20 mm
Station compatibility	Summit™
Application	Basic IV probing Ideal for applications that require more than eight positioners



DPP105-AI-S

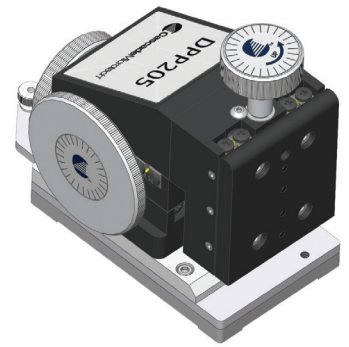
Feature resolution	5 μm
Travel range (X/Y/Z)	8 mm / 6 mm / 25 mm
Screw resolution* (X/Y/Z)	350 μm / 500 μm / 1000 μm
Mounting	Vacuum, magnetic
Footprint (W x D)	60 mm x 20 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300
Application	Basic IV probing Ideal for applications that require more than eight positioners



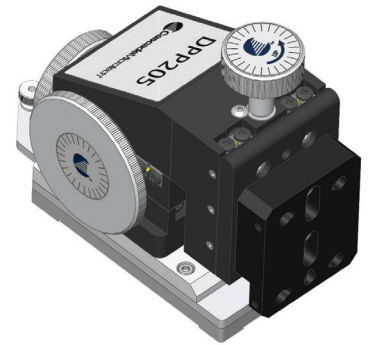
* Axis movement per 360° lead screw rotation.

DPP205 / DPP210 / DPP220

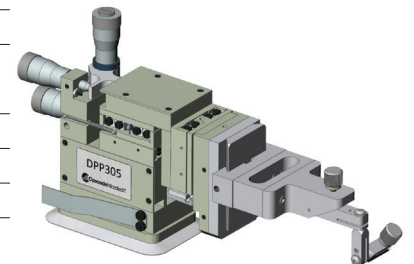
Feature resolution	3 µm (DPP205) / 2 µm (DPP210) / 1 µm (DPP220)
Travel range (X / Y / Z)	12.5 mm / 12.5 mm / 12.5 mm
Screw resolution* (X / Y / Z)	500 µm / 500 µm / 500 µm (DPP205) 250 µm / 250 µm / 250 µm (DPP210) 125 µm / 125 µm / 125 µm (DPP220)
Mounting	Vacuum, magnetic
Footprint (W x D)	90 mm x 60 mm
Station compatibility	Tesla, Elite™ 300, PA300 MicroAlign™, Summit
Application	IV/CV probing Failure analysis

**DPP205-S / DPP210-S / DPP220-S**

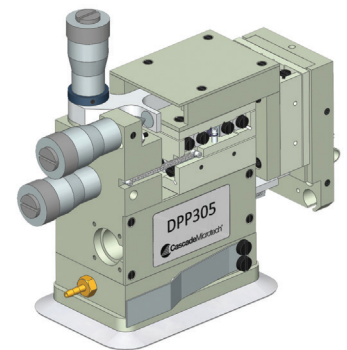
Feature resolution	3 µm (DPP205-S) / 2 µm (DPP210-S) / 1 µm (DPP220-S)
Travel range (X / Y / Z)	12.5 mm / 12.5 mm / 12.5 mm
Screw resolution* (X / Y / Z)	500 µm / 500 µm / 500 µm (DPP205-S) 250 µm / 250 µm / 250 µm (DPP210-S) 125 µm / 125 µm / 125 µm (DPP220-S)
Mounting	Vacuum, magnetic
Footprint (W x D)	90 mm x 60 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, BlueRay™
Application	IV/CV probing Failure analysis

**DPP305-PTH / DPP310-PTH**

Feature resolution	0.5 µm
Travel range (X / Y / Z)	10 mm / 10 mm / 8 mm
Screw resolution* (X / Y / Z)	500 µm / 500 µm / 500 µm (DPP305-PTH) 250 µm / 250 µm / 250 µm (DPP310-PTH)
Mounting	Vacuum, magnetic
Footprint (W x D)	75 mm x 50 mm
Station compatibility	Elite, Summit
Application	High-precision and high-resolution probing High-performance IV/CV probing and failure analysis Internal node probing

**DPP305-S / DPP310-S**

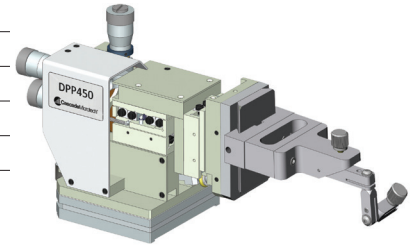
Feature resolution	0.5 µm
Travel range (X / Y / Z)	10 mm / 10 mm / 8 mm
Screw resolution* (X / Y / Z)	500 µm / 500 µm / 500 µm (DPP305-S) 250 µm / 250 µm / 250 µm (DPP310-S)
Mounting	Vacuum, magnetic
Footprint (W x D)	75 mm x 50 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, PA300 MicroAlign
Application	High-precision and high-resolution probing High-performance IV/CV probing and failure analysis Internal node probing



* Axis movement per 360° lead screw rotation.

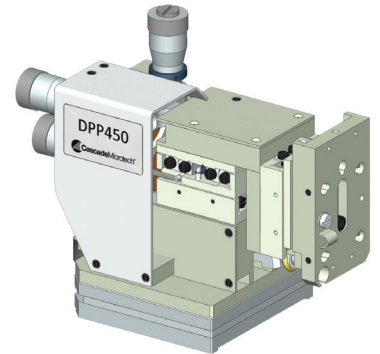
DPP450-PTH

Feature resolution	0.2 μm
Travel range (X / Y / Z)	10 mm / 10 mm / 8 mm
Screw resolution* (X / Y / Z)	500 μm / 500 μm / 500 μm , 5 μm / 5 μm / 5 μm (Fine adjustment screws)
Mounting	Vacuum, magnetic
Footprint (W x D)	75 mm x 50 mm
Station compatibility	Elite, Summit
Application	High-resolution probing High-performance IV/CV probing and failure analysis High-performance internal node probing



DPP450-S

Feature resolution	0.2 μm
Travel range (X / Y / Z)	10 mm / 10 mm / 8 mm
Screw resolution* (X / Y / Z)	500 μm / 500 μm / 500 μm , 5 μm / 5 μm / 5 μm (Fine adjustment screws)
Mounting	Vacuum, magnetic
Footprint (W x D)	75 mm x 50 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, PA300 MicroAlign
Application	High-resolution probing High-performance IV/CV probing and failure analysis High-performance internal node probing



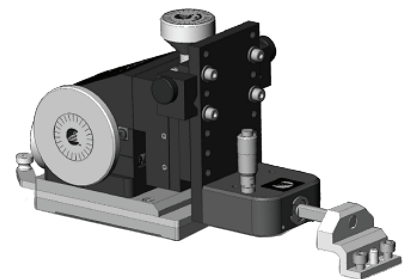
VCP110

Feature resolution	3 μm
Travel range (X / Y / Z)	12 mm / 12 mm / 12 mm
Screw resolution* (X / Y / Z)	250 μm / 250 μm / 250 μm
Mounting	Magnetic
Footprint (W x D)	65 mm x 65 mm
Station compatibility	PLV50, PLC50, PMV200, PAV200, PMC200, PAC200
Application environment	IV/CV/RF probing and failure analysis in vacuum/cryogenic



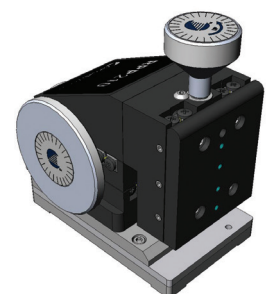
RPP210-AI

Feature resolution	3 μm
Travel range (X / Y / Z)	12.5 mm / 12.5 mm / 12.5 mm
Screw resolution* (X / Y / Z)	250 μm / 250 μm / 250 μm
Mounting	Vacuum, magnetic
Footprint (W x D)	90 mm x 60 mm
Station compatibility	Summit
Application	RF and multi-contact/mixed-signal probing Versatile wafer level reliability probing



RPP210-S

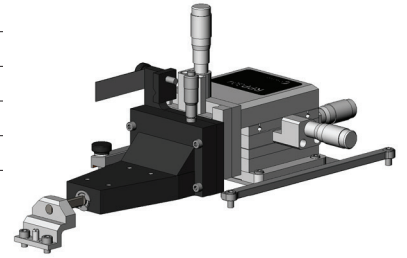
Feature resolution	3 μm
Travel range (X / Y / Z)	12.5 mm / 12.5 mm / 12.5 mm
Screw resolution* (X / Y / Z)	250 μm / 250 μm / 250 μm
Mounting	Vacuum, magnetic
Footprint (W x D)	90 mm x 60 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, BlueRay, PA300 MicroAlign
Application	RF and multi-contact/mixed-signal probing Versatile wafer level reliability probing



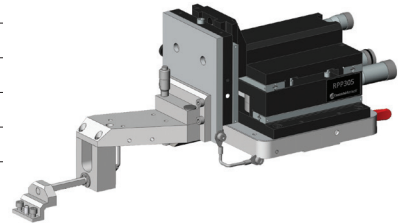
* Axis movement per 360° lead screw rotation.

RPP304-SU-AI

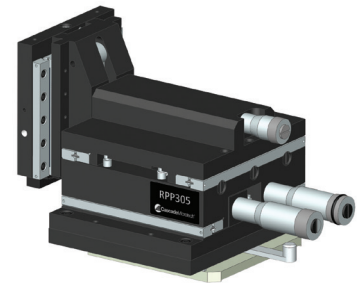
Feature resolution	3 μm
Travel range (X / Y / Z)	12 mm / 12 mm / 12 mm
Screw resolution* (X / Y / Z)	1000 μm / 1000 μm / 1000 μm
Mounting	Bolt down
Footprint (W x D)	133 mm x 147 mm
Station compatibility	Summit, Tesla 200
Application	High-performance RF, multi-contact/mixed signal probing High-performance versatile wafer-level reliability probing Single-ended broadband/mmWave, THz, source/load pull, RF noise probing

**RPP305-EL-AI**

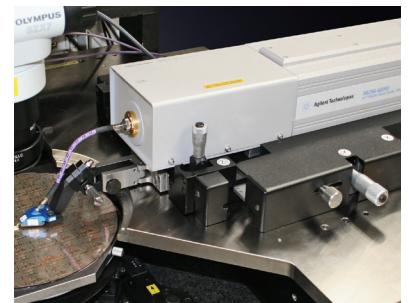
Feature resolution	3 μm
Travel range (X / Y / Z)	25 mm / 25 mm / 10 mm
Screw resolution* (X / Y / Z)	500 μm / 500 μm / 500 μm
Mounting	Bolt down
Footprint (W x D)	124 mm x 124 mm
Station compatibility	Elite, Tesla 300
Application	High-performance RF, multi-contact/mixed signal probing High-performance versatile wafer-level reliability probing Single-ended broadband/mmWave, THz, source/load pull, RF noise probing

**RPP305-S**

Feature resolution	3 μm
Travel range (X / Y / Z)	25 mm / 25 mm / 10 mm
Screw resolution* (X / Y / Z)	500 μm / 500 μm / 500 μm
Mounting	Magnetic, bolt down
Footprint (W x D)	100 mm x 124 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, BlueRay, PA300 MicroAlign
Application	High-performance RF, multi-contact/mixed signal probing High-performance versatile wafer-level reliability probing Single-ended broadband/mmWave, THz, source/load pull, RF noise probing

**PH350HF**

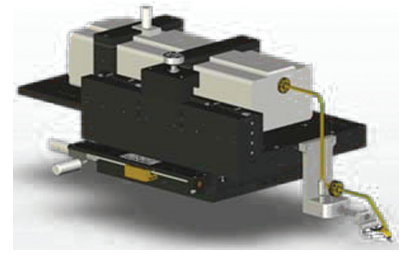
Feature resolution	3 μm
Travel range (X / Y / Z)	25 mm / 25 mm / 10 mm 75 mm fast X-coarse movement for coaxial measurements
Screw resolution* (X / Y / Z)	500 μm / 500 μm / 500 μm
Mounting	Bolt down
Footprint	430 mm x 334 mm
Station compatibility	PM8, PA200, PA300: Please consult factory
Application	High-performance single-ended/differential broadband/mmWave, sub-THz S-parameters, source/load pull, RF noise



* Axis movement per 360° lead screw rotation.

mmW Large Area Positioner

Feature resolution	3 μm
Travel range [X / Y / Z]	150 mm / 150 mm / 12.5 mm
Screw resolution* [X / Y / Z]	400 μm / 400 μm / 400 μm
Mounting	Bolt down
Footprint (W x D)	204 mm x 204 mm
Station compatibility	Elite, Summit
Application	High-performance single-ended/differential broadband/mmWave, sub-THz S-parameters, source/load pull, RF noise

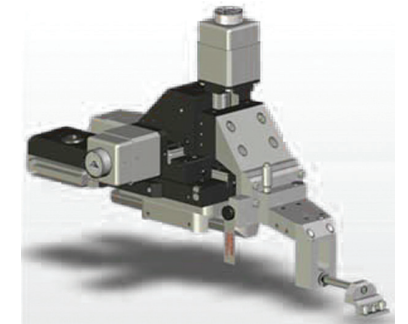


MOTORIZED POSITIONERS

MS1

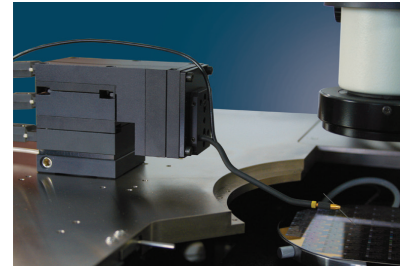
Feature resolution	3 μm
Travel range [X / Y / Z]	25 mm / 25 mm / 15 mm
Screw resolution* [X / Y / Z]	400 μm / 400 μm / 400 μm
Mounting	Bolt down
Footprint	160 mm x 148 mm
Station compatibility	Elite, Summit
Application	IV/CV, RF motorized probing Multi-contact/mixed-signal probing Versatile wafer-level reliability probing

* Axis movement per 360° lead screw rotation.



PH510

Feature resolution	3 μm
Travel range [X / Y / Z]	25 mm / 25 mm / 25 mm
Encoder resolution [X / Y / Z]	0.02 μm / 0.02 μm / 0.02 μm
Mounting	Vacuum, magnetic, bolt down
Footprint	64 mm x 122 mm
Station compatibility	PM5, PM8, PM300, PA200, PA300, BlueRay, PA300 MicroAlign
Application	IV/CV, RF motorized probing Multi-contact/mixed-signal probing Versatile wafer-level reliability probing



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Positioners-DS-0715

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