MPI T5200—HP 200 mm Manual Probe System For accurate and reliable High Power measurements

FEATURES / BENEFITS

Dedicated designed for High Voltage and High Current application

- On wafer high power device measurement up to 10kV/600A
- Gold plated chuck surface for minimum contact resistance and vacuum holes optimized for thin wafer handling down to $50\,\mu m$
- Taiko wafer chuck option
- · Dedicated high voltage and high current probes
- Anti-arcing solutions

MPI ShielDEnvironment™ for Accurate Measurements

- Design for Advanced EMI / RFI / Light-Tight Shielding
- Platen ArcShield™
- fA low-leakage capabilities
- Ready for temperature range -60 °C to 300 °C

Ergonomic Design and Safety

- Unique puck controlled air bearing stage for quick singlehanded operation
- Regulatory approved safety interlocked light curtain integrated with vibration isolation table to protect users
- Available with various chuck options and wide range of accessories such as MicroPositioners, microscopes



SPECIFICATIONS

Chuck XY Stage (Standard)

Travel range	225 x 260 mm (8.9 x 10.2 in)
Fine-travel range	25 x 25 mm fine micrometer control
Fine-travel resolution	< 1.0 μm (0.04 mils) @ 500 μm/rev
Planarity	< 10 µm
Theta travel (standard)	360°
Theta travel (fine)	± 5.0°
Theta resolution	7.5 x 10 ⁻³ gradient
Movement	Puck controlled air bearing stage

Chuck Z Stage

Travel range	5 mm (0.2 in)
Fine-travel resolution	< 1.0 μm (0.04 mils) @ 500 μm/rev
Load stroke	20 mm, pneumatically

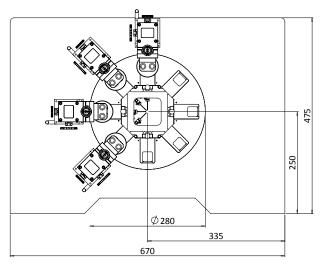
Manual Microscope Stage (Linear)

Movement range	50 x 50 mm (2 x 2 in)
Resolution	< 5 μm (0.2 mils)
Scope lift	Manual, tilt-back or vertical (depending on microscope type)
Movement	Independently controlled X and Y movement with locking screws

PROBE PLATEN

Specifications

-	
Material	Nickel plated steel
Dimension	See drawing
Chuck to ShielDGuard height	Min. 5 mm
Max. No of MicroPositioners	8x DC or 4x DC + 2x RF or 2x DC + 4x RF or 4x DC + 4x RF Setup
Platen lift control	3 positions - contact (0), separation (300 μm), and loading (3 mm)
Separation repeatability	< 1 µm (0.04 mils) by "automated" control
RF MicroPositioner mounting	Magnetic with guided rail
DC MicroPositioner mounting	Magnetic
300 °C thermal isolation	Depending on chuck configuration



Universal probe platen design for up to 8 DC MicroPositioners

PLATEN LIFT WITH Probe Hover Control™

MPI Probe Hover ControlTM comes with hover heights (50, 100 or 150 μ m) for easy and convenient probe to pad alignment.

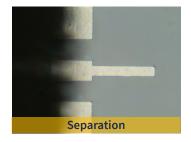
















ShielDEnvironment™

MPI ShielDEnvironment™ is a high performance local environmental chamber providing excellent EMI- and light-tight shielded test environment for ultra-low noise, low capacitance measurements.

MPI ShielDEnvironment™ allows up to 4-port RF or up to 8-ports DC/Kelvin or a combination of those configurations. MPI ShielDCap™ provides easy reconfiguration of measurement setup as well as EMI/noise shielding - which make great difference in simplifying day to day operations.

ShielDEnvironment™ Electrical Specifications*

EMI shielding	> 30 dB (typical) @ 1 kHz to 1 MHz
Light attenuation	≥ 130 dB
Spectral noise floor	≤-180 dBVrms/rtHz (≤1 MHz)
System AC noise	≤ 5 mVp-p (≤ 1 GHz)

^{*}Including 4 MicroPositioners.





HIGH POWER PROBE ACCESSORIES

High Voltage Probe (HVP)

Low leakage probes specially designed to withstand high voltage up to 10 kV (coaxial) and 3 kV (triaxial). Choice of various connectors options such as Keysight Triax/UHV, Keithley Triax/UHV, SHV or Banana.

High Current Probe (HCP)

High performance probes specially designed for on wafer measurement of high current up to 200 A (pulse). MPI multi-fingers high current probes are single piece consturction to efficiently handle high current and provide low contact resistance.

Ultra High Power Probe (UHP)

Designed for Ultra high voltage and current on wafer measurement up to $10\,\text{kV/600\,A}$ (pulse). MPI replaceable multi-fingers probes tips and probe arms are design for low contact resistance for ultra-high current measurement and to support ultra-high voltage of up to 10 KV, without having to change probes for high voltage and current application.



HIGH POWER PROBES - SELECTION GUIDE

	High current probes		High voltage probes		obes	
	3 fingers	5 fingers	7 fingers	PA-HVT	PA-HVC	PA-HVC-10KV
Max current	40 A	65 A	100 A	2 A	2 A	2 A
Max voltage	500 V	500 V	500 V	3,000 V	5,000 V	10,000 V
Residual resis- tance (Typical)	≤5 mΩ	≤3 mΩ	≤1 mΩ			
Leakage @ max. V				≤1 pA	≤ 600 pA	> 35 TΩ
Connector options	Bar	nana ^[3] plug or BN	IC ^[4]	HV triaxial ^[2]	SHV	10 KV UHV or banana ^[3] plug
Replaceable tip	Yes	Yes	Yes	Yes	Yes	Yes
Probe pitch ^[1]	350 μm (Std)	350 μm (Std)	350 μm (Std)	Single needle	Single needle	Single needle

^[1]Configurable

ULTRA HIGH POWER PROBES - SELECTION GUIDE

	1 finger	4 fingers	6 fingers	8 fingers	12 fingers
Max current*	20 A	80 A	120 A	160 A	250 A
Max voltage	10 KV	10 KV	10 KV	10 KV	10 KV
Residual resistance (Typical)	≤ 5 mΩ	≤3 mΩ	≤1 mΩ	$\leq 1 \text{ m}\Omega$	≤ 1 mΩ
Connector options	Banana	Banana	Banana	Banana	Banana
Replaceable tip	Yes	Yes	Yes	Yes	Yes
Probe tip width	250 μm	250 μm	250 μm	250 μm	250 μm
Probe pitch		650 μm	650 μm	650 μm	650 μm

^{*1} ms Max PW, 0.4% max PLC

HIGH POWER PROBE CARDS

Max current	250 A		
Max voltage	10 KV		
Max pressure	8 bar		
Max chamber diameter	25 mm		
Max probe pin needles	20		
Probe pin needle diameter	100 μm		
Connector type	Keysight HV, Keithley HV, SHV, BNC, Banana, M HV		
Air pressure requirement	CDA up to 8 bar		

^[2]Keysight or Keithley

^[3]Banana: 100 A max, 1 ms max PW, 1% max PLC

^[4]BNC: 40 A max, 1 ms max PW, 1% Max PLC

NON-THERMAL HIGH POWER CHUCKS

High Power Chucks

2	U	N	r	Y	١	r	r	
_	v	v	- 1		1			

	200 111111
Connectivity 1	10 kV Coaxial (Banana or SHV)
Connectivity 2	Kelvin Triax (f), 3 kV or 10 kV Coaxial
Diameter	210 mm with 2 integrated AUX areas
Material	Gold plated aluminum (flat with 100 μm holes)
Chuck surface	Planar with 0.5 mm diameter holes in centric sections
Vacuum holes selection (diameter)	3, 27, 45, 69, 93, 117, 141, 164, 194 mm
Vacuum actuation	Manual switch between Center (4 holes), 100, 150, 200 mm (4, 6, 8 in)
Supported DUT sizes	Single DUTs down to 5 x 5 mm size or wafers 100 mm (4 in) thru 200 mm (8 in)*
Surface planarity	≤± 5 μm
Rigidity	< 15 μm / 10 N @edge

^{*}Single DUT testing requires higher vacuum conditions dependent upon testing application.

Electrical Specification (Coax)

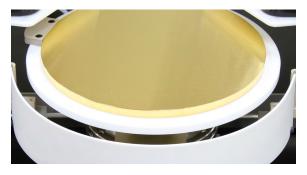
Operation voltage	In accordance with EC 61010, certificates for higher voltages available upon request
Isolation	> 2 GΩ

Electrical Specification (Triax)

	Standard Chuck (10 V)	High Power Chuck (10 V)
Chuck isolation	> 100 GΩ	> 30 TΩ
Force to guard	> 100 GΩ	> 30 TΩ
Guard to shield	> 10 GΩ	> 500 GΩ
Force to shield	> 50 GΩ	> 100 GΩ

Electrical Specification (High Power - Triax)

Chuck isolation	> 30 TΩ
Force to guard	> 30 TΩ
Guard to shield	> 500 GΩ
Force to shield	> 100 GΩ



MPI Non-thermal Triaxial High Power Chuck with gold plated surface for low contact resistance



MPI 10 kV Triaxial Connector used for Kelvin chuck connection

HIGH POWER THERMAL CHUCKS

Specifications of MPI ERS Integrated Technology

Temperature Range	20 to 200 °C	20 to 300 °C	
Connectivity	Kelvin Triax (f), 3 kV or 10 kV Coaxial	Kelvin Triax (f), 3 kV or 10 kV Coaxial	
Temperature control method	Cooling air / Resistance heater	Cooling air / Resistance heater	
Coolant	Air (user supplied)	Air (user supplied)	
Smallest temperature selection step	0.1 °C	0.1 °C	
Chuck temperature display resolution	0.01 °C	0.01 °C	
External touchscreen display operation	Yes	Yes	
Temperature stability	±0.08 °C	±0.08 °C	
Temperature accuracy	0.1 °C	0.1 °C	
Control method	Low noise DC/PID	Low noise DC/PID	
Interfaces	RS232C	RS232C	
Chuck surface plating	Gold plated with pinhole surface	Gold plated with pinhole surface	
Temperature sensor	Pt100 1/3DIN, 4-line wired	Pt100 1/3DIN, 4-line wired	
Temperature uniformity	<±0.5 °C	<±0.5 °C at ≤ 200 °C <±1.0 °C at > 200 °C	
Surface flatness and base parallelism	<±10 μm	< ±10 µm at ≤ 200 °C < ±15 µm at > 200 °C	
Heating rates	20 to 200 °C < 31 min	20 to 300 °C < 39 min	
Cooling rates*	200 to 20 °C < 57 min	300 to 20 °C < 55 min	
Maximum voltage between chuck top and GND	10 kV DC	10 kV DC	
Leakage @ 10 V Kelvin Triax (f)			
-60 °C, -40 °C and -10 °C			
25 °C	< 15 fA	< 15 fA	
200 °C	< 30 fA	< 30 fA	
300 °C		< 50 fA	
Leakage @ 3000 V Kelvin Triax (f)			
-60 °C, -40 °C and -10 °C		-	
25 °C	< 5 pA	< 5 pA	
200 °C	< 10 pA	< 10 pA	
300 °C		< 15 pA	
Leakage @ 10 kV Coax UHV/SHV ((f)		
-60 °C, -40 °C and -10 °C			
25 °C	< 6 nA	< 6 nA	
200 °C	< 6 nA	< 6 nA	
300 °C		< 6 nA	

^{*} All data are relevant for chucks in ECO mode.

Cooling air / Resistance heater Cooling Cooling air / Resistance heater Cooling Cooling Cooling air / Resistance heater Cooling Cooling Cooling Cooling Cooling Cooling air / Resistance heater Cooling Cool	Specifications of I	MPI ERS I	ntegrated Technology		
Comparature control	Temperature Ran	ge	-10 to 200 °C/300 °C	-40 to 200 °C/300 °C	-60 to 200 °C/300 °C
Resistance heater Resistance heater Resistance heater Coolant Air (user supplied) Air (user suppli	Connectivity				
### Smallest temperature election step ### Smallest temperature election step ### Smallest temperature blisplay resolution ### Smallest temperature blisplay resolution ### Smallest temperature blisplay operation ### Ves #	Temperature cont method	trol			
Check temperature	Coolant		Air (user supplied)	Air (user supplied)	Air (user supplied)
Sisplay resolution Ves V	Smallest tempera selection step	ture	0.1 °C	0.1 °C	0.1 °C
Semparature stability	Chuck temperatu display resolution		0.01 °C	0.1 °C	0.1 °C
Temperature accuracy	External touchscr display operation		Yes	Yes	Yes
Low noise DC/PID Low noise DC/PID Low noise DC/PID Low noise DC/PID	Temperature stab	ility	±0.08 °C	±0.08 °C	±0.08 °C
RS232C R	Temperature accu	ıracy	0.1 °C	0.1 °C	0.1 °C
Chuck surface plating Gold plated with pinhole surface Pt100 1/3DIN,	Control method		Low noise DC/PID	Low noise DC/PID	Low noise DC/PID
Pithole surface Pithole su	Interfaces		RS232C	RS232C	RS232C
### 4-line wired #### 4-line wired ####################################	Chuck surface pla	iting	Gold plated with pinhole surface	Gold plated with pinhole surface	Gold plated with pinhole surface
emperature uniformity	Temperature sens	sor		Pt100 1/3DIN, 4-line wired	Pt100 1/3DIN, 4-line wired
Assimum voltage between thuck top and GND Heating rates -10 to 25 °C < 3 min	·	•			
Huck top and GND Flow DC Fleating rates -10 to 25 °C < 3 min	Surface flatness a base parallelism	nd	< ±10 μm at ≤ 200 °C < ±15 μm at > 200 °C	<±10 μm at ≤ 200 °C <±15 μm at > 200 °C	
-10 to 25 °C < 3 min	•		10 kV DC	10 kV DC	10 kV DC
25 to 200 °C < 20 min 300 °C -10 to 25 °C < 3 min -40 to 25 °C < 7 min -60 to 25 °C < 8 min 25 to 300 °C < 36 min Cooling rates* AC3 Mode 300 °C 300 to 25 °C < 17 min 300 to 25 °C < 17 min 200 to 25 °C < 15 min 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 °C < 15 fa 40 °C < 13 min 25 to -60 °C < 25 min Leakage @ 10 V Kelvin Triax (f) -60 °C, -40 °C and -10 °C < 30 fA 300 °C < 30 fA 300 °C < 30 fA 300 °C < 50 fA < 50 fA < 50 fA -60 °C, -40 °C and -10 °C < 10 pA -60 °C, -40 °C and -10 °C < 5 pA -50 pA -60 pA -60 pA -60 pA -60 pA -6	Heating rates				
Cooling rates* AC3 Mode 300 °C 200 °C 200 °C 200 °C 200 to 25 °C < 17 min 200 °C 215 min 25 °C 25 to -10 °C < 12 min 25 °C < 15 min 25 °C < 15 min 25 °C < 15 min 25 °C < 25 to -10 °C < 12 min 25 °C < 13 min 25 °C < 16 min 200 °C 200 °C 200 °C 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 16 min 200 °C 200 °C 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 °C < 13 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min Leakage @ 10 V Kelvin Triax (f) -60 °C, -40 °C and -10 °C < 30 fA 30	200 °C		-10 to 25 °C < 3 min		-60 to 25 °C < 8 min
AC3 Mode 300 °C 300 to 25 °C < 17 min 300 to 25 °C < 17 min 200 to 25 °C < 15 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 15 min 25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 200 °C 200 to 25 °C < 17 min 300 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 to -60 °C < 25 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA 25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA < 30 fA 300 °C 30 fA 30 fA 300 °C 30 fA 30 fA 300 °C 30 fA 300 °C 30 fA 300 °C 30 fA 30 fA 30 fA 300 °C 30 fA 3	300 °C		-10 to 25 °C < 3 min		-60 to 25 °C < 8 min
AC3 Mode 300 °C 300 to 25 °C < 17 min 300 to 25 °C < 17 min 200 to 25 °C < 15 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 15 min 25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 200 °C 200 to 25 °C < 17 min 300 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 to -60 °C < 25 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA 25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA < 30 fA 300 °C 30 fA 30 fA 300 °C 30 fA 30 fA 300 °C 30 fA 300 °C 30 fA 300 °C 30 fA 30 fA 30 fA 300 °C 30 fA 3	Cooling rates*				
200 °C 200 to 25 °C < 14 min 25 °C < 15 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 16 min 300 to 25 °C < 16 min 200 °C 200 to 25 °C < 17 min 300 to 25 °C < 13 min 200 to 25 °C < 13 min 200 to 25 °C < 13 min 200 to 25 °C < 13 min 25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA 25 °C < 15 fA 15 fA 15 fA 15 fA 15 fA 15 fA 200 °C < 30 fA 300 °C < 30 fA 300 fA 300 fA 300 fA 300 fA 300 °C < 50 fA 50 fA 300 °C < 50 fA		300 °C	300 to 25 °C < 17 min	300 to 25 °	C < 17 min
TURBO Mode 300 °C 300 to 25 °C < 17 min 300 to 25 °C < 16 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 to -60 °C < 25 min 200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 °C < 13 min 25 °C < 15 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 15 fA < 30 fA < 50 fA <					
200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 °C < 13 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 30 fA < 15 fA < 15 fA < 15 fA < 15 fA < 30 fA < 50 fA		25 °C	25 to -10 °C < 12 min	25 to -40 °C < 13 min	25 to -60 °C < 25 min
200 °C 200 to 25 °C < 14 min 200 to 25 °C < 13 min 25 °C < 13 min 25 °C < 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 40 °C < 13 min 25 to -60 °C < 25 min 25 °C < 30 fA < 15 fA < 15 fA < 15 fA < 15 fA < 30 fA < 50 fA	TURBO Mode	300 °C	300 to 25 °C < 17 min	300 to 25 °	C < 16 min
25 °C 25 to -10 °C < 12 min 25 to -40 °C < 13 min 25 to -60 °C < 25 min 25 to -60 °C < 20 fA	TONDO MOGE				
-60 °C, -40 °C and -10 °C					
-60 °C, -40 °C and -10 °C	Leakage @ 10 V K	olvin Triav	v (f)		
25 °C < 15 fA < 15 fA < 15 fA < 15 fA < 30 °C < 30 fA < 30 fA < 30 fA < 50 fA				< 30 fA	< 30 fA
200 °C					
300 °C < 50 fA					
-60 °C, -40 °C and -10 °C < 10 pA < 10 pA < 10 pA < 5 pA < 5 pA < 5 pA < 5 pA < 10 pA < 10 pA					
-60 °C, -40 °C and -10 °C < 10 pA < 10 pA < 10 pA < 5 pA < 5 pA < 5 pA < 5 pA < 10 pA < 10 pA	l eakage @ 3000 \	/ Kelvin Tr	riax (f)		
25 °C <5 pA <5 pA <5 pA <5 pA <5 pA <10 pA <10 pA				< 10 pA	< 10 pA
200 °C <10 pA <10 pA <10 pA		-	·	•	·
			•	•	-
	300 °C		< 15 pA	< 15 pA	< 15 pA

Leakage @ 10 kV Coax UHV/SHV (f)

-60 °C, -40 °C and -10 °C			
25 °C	< 6 nA	< 6 nA	< 6 nA
200 °C	< 6 nA	< 6 nA	< 6 nA
300 °C	< 6 nA	< 6 nA	< 6 nA

^{*}Typical data for all chucks based on FPS requirements.

Thermal Controller Dimensions / Power and Air Consumption

System type	$W \times D \times H (mm)$	Weight (kg)	Power cons. (VA)	max. Air flow* (l/min)
20 to 200 °C / 300 °C	300 x 360 x 135	12	700	200

System Controller / Chiller Dimensions and Power / Air Consumption

System type	W x D x H (mm)	Weight (kg)	Power cons. (VA)	max. Air flow*(l/min)
20 to 200 °C / 300 °C	300 x 360 x 140	12	1000	200
-10 to 200 °C / 300 °C	420 x 355 x 450	50	1650	250
-40 to 200 °C / 300 °C	420 x 500 x 1020	140	2400	400
-60 to 200 °C / 300 °C	420 x 500 x 1020	140	2400	400

^{*}All data are relevant for chucks in ECO mode.



ERS High Power Thermal Chuck



ERS AirCool® Fusion*, Controller Integrated Chiller -40 °C / -60 °C



ERS AirCool® Fusion*, Controller Integrated Chiller -10 °C

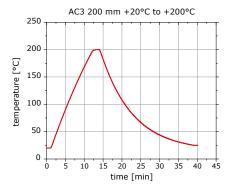
*ERS electronic GmbH patented solution

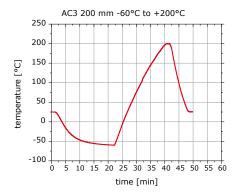
SAFETY TEST MANAGEMENT STM™ OPTION

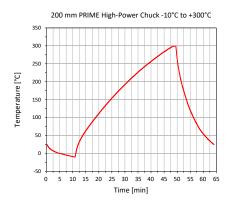
The STM™ system prevents opening of any doors during testing. Accidental opening of any system door during a negative chuck temperature is impossible on any event. Furthermore, an intelligent dew point control routine avoids moisture condensation during cold testing. The system automatically monitors the flow of CDA or Nitrogen. If the flow is interrupted or insufficient, the STM™ automatically turns the chuck into a safe mode by heating up the chuck as fast as possible to 60 °C.

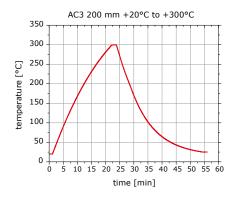


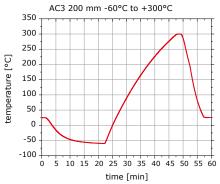
TYPICAL TRANSITION TIME

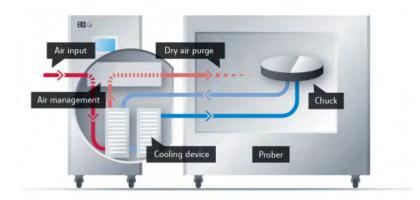












These chucks incorporate the ERS patented AC3 cooling technology and its air management system to purge the MPI ShielDEnvironment™ directly from "already used" air – reducing dry air consumption up to 30 to 50% as compared to other systems on the market.

Copyright belongs to ERS electronic GmbH

FACILITY REQUIREMENTS

Thermal Chuck Electrical Supply

Electrical Supply

Electrical primary connection	100 to 240 VAC auto switch
Frequency	50 Hz / 60 Hz
Compressed Air Supply	
Operating pressure	6.0 bar (0.6 MPa, 87 psi) at specified flow rate
CDA dew point	≤ 0 °C for hot chuck system (ambient to 300 °C) ≤ -45 °C for hot and cold chuck system (-60 °C to 300 °C)

General Probe System

Power	100-240 V AC 50/60 Hz for optical accessories* only
Vacuum	-0.5 bar (for single DUT) / -0.3 bar (for wafers)
Compressed air	6.0 bar

^{*}e.g. microscope illumination, CCD cameras, monitors.

INSTRUMENT CONNECTION PACKAGE

TS2000-HP can be configured with instrument connection package. The packages consists of necessary high voltage/high current probes and cabling accessories for optimal connection to the test instruments.

Keysight B1505A

Seven MP40 MicroPositioners

Two RF probe arms for MP40

Five universal DC adapters

Two High-current probes

Three High-voltage (Coax) probe arms

Two High-voltage probe arms with Keysight HV Triax connector

Box of High-current multi-finger probe tips (5 tips)

Box of probe tips needle (25 tips)

High Power connection panel for Dark Box

Three High power chuck connection cables (Keysight Triax, SHV and BNC)

High Power chuck shorting and floating plugs

Keithley 2600-PCT-XB

Five MP40 MicroPositioners

Two RF probe arms for MP40

Three universal DC adapters

Two High-current probes

Three High-voltage probe arms with Keithley HV Triax connector

Box of High-current multi-finger probe tips (5 tips)

Box of probe tips needle (25 tips)

High Power connection panel for Dark Box

Three High power chuck connection cables (Keithley Triax, SHV and BNC)

High Power chuck shorting and floating plugs

REGULATORY COMPLIANCE

• CE certified. TÜV compliance tested according to EN 61010, ISO 12100, and SEMI S2

WARRANTY

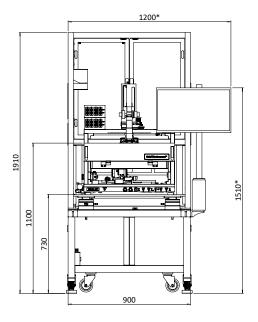
- Warranty*: 12 months
- Extended service contract: contact MPI Corporation for more information

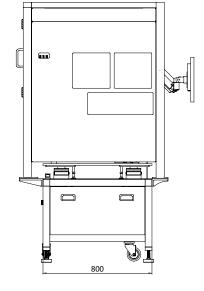
PHYSICAL DIMENSIONS

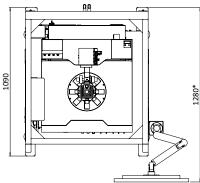
Station Platform with Bridge and Vibration Isolation Table and Light Curtain*

Dimensions (W x D x H) 900 x 1090 x 1910 mm (35.4 x 42.9 x 75.2 in)
Weight ~500 kg (1102.3 lb.)

^{*}Station accessories, such as different microscopes, cameras, or laser cutters, may change the total height.







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America region: ast-americas@mpi-corporation.com

MPI global presence: for your local support, please find the right contact here: www.mpi-corporation.com/ast/support/local-support-worldwide

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^{*}See MPI Corporation's Terms and Conditions of Sale for more details.