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| Quotation Quotation NO: JSI-101619-2600-150-TCDATE: Oct. 16th, 2019 |



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| To: Dr. Vladimir Cindro, Vladimir.Cindro@ijs.si  | **From: MicroXact, Inc.** |
|  Jozef Stefan Institute |  6580 Valley Center Drive Suite 312 |
|  Jamova 39 SI-1000 Ljubljana |  Radford, VA 24141 |
|  Slovenia |  U.S.A. |

**MicroXact is pleased to provide the following quotations:**

1. **SPS-2600-150 motorized probe station for up to 6” x 6” samples with thermal testing capabilities**:
	1. Triaxial thermal chuck for holding 1cmx1cm to 6” wafers for -50oC to +85oC thermal testing if used in properly sealed and purged enclosure (enclosure is not included)
		1. Triaxial
		2. Three vacuum zones
		3. Chuck planarity of less than +/-0.5 mil at room temperature
		4. Temperature resolution 0.1oC
		5. Temperature accuracy and stability +/-1oC
		6. Linear DC power supply
		7. LN2 cooling system including 35l LN2 dewar, 2 LN2 transfer lines and temperature controller-controller on-off valve
		8. Frame chiller
	2. Motorized XY stage
		1. 6” x 6” range of motion
		2. 6.5µm repeatability
		3. 1.5µm resolution
		4. Stepper motor driven
	3. Motorized chuck Z stage
		1. 12mm range of motion
		2. 0.25µm resolution
		3. +/-1 µm repeatability
		4. Stepper motor driven
	4. Manual theta stage
		1. ±45° range of motion
		2. 0.08° resolution
	5. Easy load roll-out stage
	6. Fixed magnetic steel platen, Cr plated suitable for either use with micropositioners or for mounting the probe card adapter
	7. Probe card adapter with planarization adjustment for holding 5”x5” probe card
	8. Stereo zoom microscope
		1. 3.5X-90X wide zoom magnification
		2. Intensity- and light- direction variable cool, even and bright 80-LED illumination
		3. Barlow Lens: 0.5X
		4. 10X eye pieces
		5. Boom mounted, so can be easily shifted away from the platen opening
	9. Multi-function joystick
	10. System planarity better than 20um
	11. 5MP USB 2.0 Camera with imaging software
	12. PC with pre-installed XactTest software (.exe and source code in .vi will be provided).
	13. Control box with EMO switch to comply with CE and EU requirements.
	14. Vacuum pump
	15. Crating
	16. 1 year parts and labor manufacturing warranty

***Price: $55,396.26 EXW terms***

**Few potentially useful options and accessories:**

1. 300-series micropositioner (40TPI) with triaxial DC probe arm
	* 1. XYZ travel: 10mm
		2. XYZ resolution: 40TPI
		3. Magnetic base
		4. Triaxial probe arm with 1m triaxial cable and triaxial male BNC connector

***Price: $501.64 Each***

1. 500-series micropositioner (80TPI) with triaxial DC probe arm
	* 1. XYZ travel: 12mm
		2. XYZ resolution: 80TPI
		3. Magnetic base
		4. Triaxial probe arm with 1m triaxial cable and triaxial male BNC connector

***Price: $799.00 Each***

1. Tungsten tips, box of 10, 10um tip diameter

***Price: $60.00 each***

1. Installation and training, 1 full day at the customer’s site

***Price: $7,000.00***

Lead time: with 50% prepayment, 35% payment upon ready for shipping and 15% payment upon commissioning: 10 to 14 weeks

 With 85% prepayment and 15% payment upon commissioning: 8 to 12 weeks.

Standard payment terms: 50% prepayment, 35% payment upon ready for shipping, 15% payment Net 30 after delivery.

\* The estimated delivery time specified is based from the actual date that all customer supplied parts, finalized drawings (where applicable), and an approved purchase order are received by MicroXact, Inc. Transit time must be added to the estimated delivery in order to calculate your on-dock date.

**Shipping:** EXW MicroXact Factory.

**Cancellation**: Any cancellation of the order must be made in writing, and the following penalty schedule will apply. Any materials that have been procured or manufactured at time of cancellation will be shipped to the customer. Postponement of an order cannot be made within seven (7) calendar days from the scheduled ship date, any prostonement of a delivery of Goods by Buyer by more than fourteen (14) calendar days from the original scheduled shipment date shall be charged to these cancellation charges. MicroXact reserves the right to ship and bill “in place” any order which is complete and which meets Buyer’s requirements and specifications as defined in the order within five (5) business days of scheduled shipment.

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| Cancellation date: | Cancellation charges: |
| From order acceptance by MicroXact to (4) weeks ARO | 75% |
| After four (4) weeks ARO | 100% |

*This charge indicates percentage of full purchase order total or remaining balance.*

Please note: Quotation pricing is valid for 90 calendar days.

**To place an order, please reference quotation number and address purchase orders to:**

**Vladimir Kochergin**

**Phone: (614) 917-7202**

**vkochergin@microxact.com**