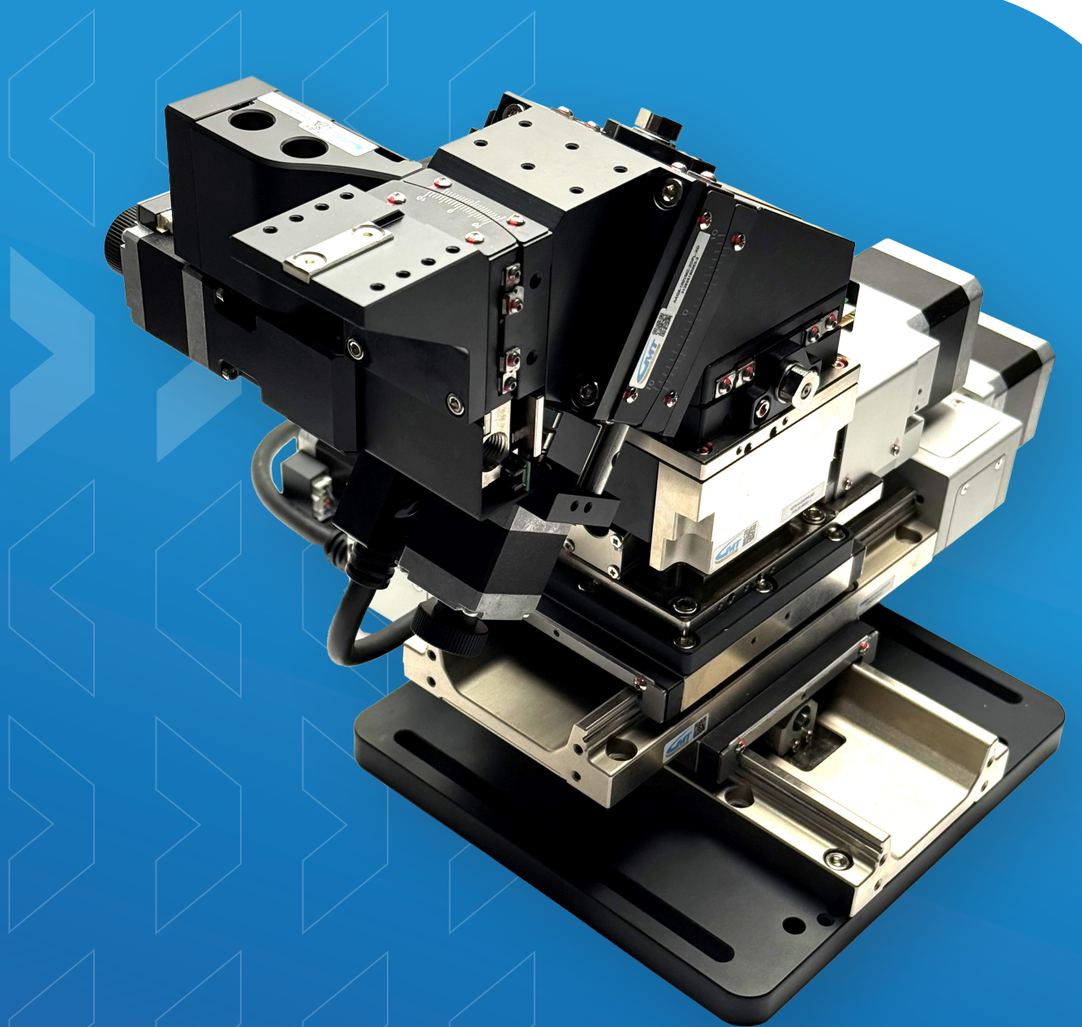
TECHNICAL SPECIFICATION

	X	Y	Z	ΘX	ΘY	ΘZ	
Travel Stroke	50	50	10				mm
				±6	±5	±8	°
Pitch	1/2			1			mm
Repeatability *	±500 (±250 with EZI-Servo)						nm
				±0.002	±0.002	±0.003	°
Maximum Speed	20 (up to 50 with EZI-Servo)		5				mm/s
				7	5	12.5	°/s
Minimum Step	500 (±250 with EZI-Servo)						nm
				4,5	2	2,5	“
Material / Surface Treatment	Stainless Steel / Nickel Plating			Aluminum Alloy / Black Anodized			
Maximum Load (6-axis-unit)	2,5						Kg
Motor	Nanotec / Fastech 2 phase stepper motor						
Limit Switch	Photoelectric						
Power Voltage	24						V DC
Compatibility	Any 2 phase stepper motor controller						
Controller	Available with integrated and external closed loop controller						

* with 1 mm pitch

NOTES



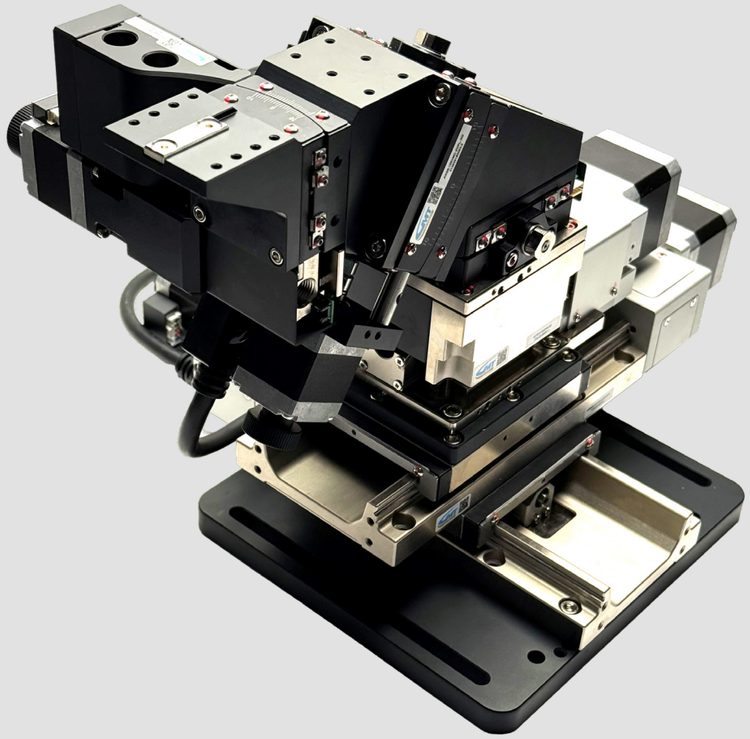
SX HIGH PRECISION STACKED AXIS UNIT

[SIMPLIFIED PRECISION // GMT EUROPE GMBH]

GMT Europe GmbH
Am Detershof 20
26655 Westerstede

Phone: +49 4488 761 746 – 0
Mail: sales@gmteurope.de
Web: www.gmteurope.eu

SIMPLIFIED AND HIGH-PRECISION MICRO ASSEMBLY POSITIONING



6 AXES. UNLIMITED POSSIBILITIES. MODULAR MOTION. MAXIMUM PRECISION.

Maximum precision meets uncompromising flexibility: our modular 6-axis positioning system is engineered to elevate your micro assembly processes. With freely configurable linear and rotary axes, the system adapts precisely to your application—whether in prototype development or fully automated production. Offering outstanding repeatability, intuitive control, and a smart, scalable architecture, it's the perfect solution for those who work at the micron level—and think in terms of productivity.

INDUSTRY SOLUTION: PRECISE 6-AXIS POSITIONING FOR OPTICS, PHOTONICS & SEMICONDUCTOR

Optics

» Sub-micron accurate alignment of lenses, mirrors, and prisms
» Compensation for tilt and planarity deviations across 6 degrees of freedom
» Stable platform for adhesive bonding processes without re-adjustment

Photonics

» Fine positioning of lasers, diodes & fibers for optimal coupling
» Real-time alignment with camera or power feedback
» High repeatability for automated manufacturing

Semiconductor

» Precise placement of dies & substrates in the micrometer range
» Compatible with AOI & metrology systems

READY FOR THE HIGHEST PRECISION IN YOUR APPLICATION?

Contact us for a tailored solution!

OPTIONS

INTEGRATED PLUG AND PLAY CLOSED LOOP CONTROLLER OPTION

- High resolution (16.000 pulse per turn)
- No hunting
- RS485/USB connector to PC
- Comes with Windows Software
- Programmable by LabView, C++, MatLab, C# etc.
- High torque, with very continuous motion

OPEN LOOP NANOTEC® STEPPER MOTOR

- Integratable to any 2 phase stepper motor controller
- High quality, long life time
- High holding torque
- High precision accuracy
- No hunting

EXTERNAL PLUG AND PLAY CLOSED LOOP CONTROLLER OPTION

- High resolution (16.000 pulse per turn)
- No hunting
- RS485/USB Ethernet or EtherCAT interface
- Comes with Windows Software
- Programmable by LabView, C++, MatLab, C# etc.
- High torque, with very continuous motion
- Positioning table

PROFESSIONAL INDUSTRIAL CONNECTOR

- Harting ix industrial connector®
- Robust and miniaturized connector
- Stable and reliable
- Easy plug and play
- Shielded cable
- Adapters available

OPTICAL LINEAR ENCODER OPTION

- ultra-compact optical incremental encoder
- Head ATOM™ (ATOM 4...)
- Resolution up to 10nm
- Scale RTLF – flexible stainless-steel tape
- Scale pitch 40µm