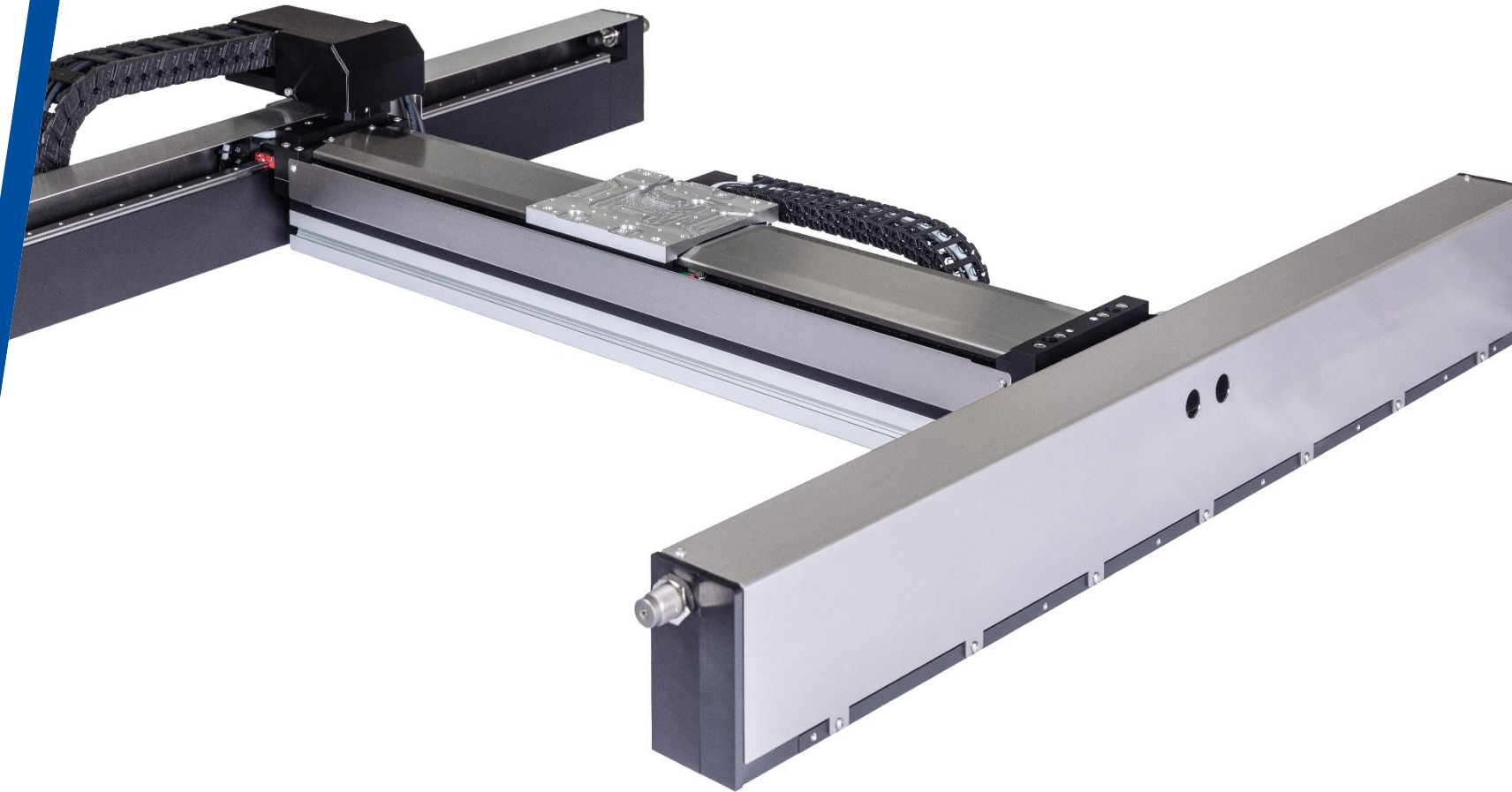


PHYSIK INSTRUMENTE

X-365 Precision XY Gantry System

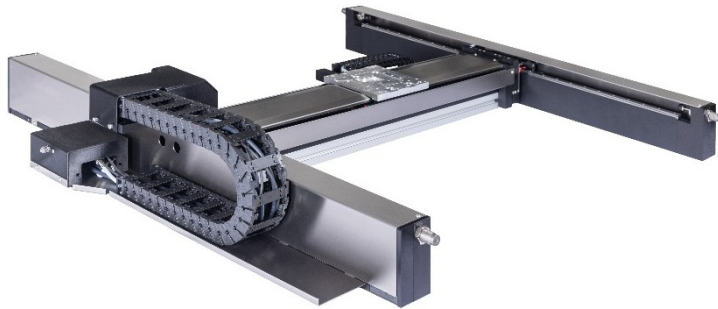


Carsten Brandes
Division Systems Product Management
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02.03.2026

Summary X-365

ILLUSTRATION

Stand-alone, as a system or as part of the application?



UVP

Unique value proposition

- Rapid automation of manufacturing processes by partly customizable gantries from stock
- Sustainable usage of existing support platforms (granite) at the customer by broad integratability
- Reliable even in harsh environments by optional debris protection

DESCRIPTION

Product description and scope



- X-365 extends the PI portfolio with a standardized modular precision XY gantry system
- As a BM1 product, it is cheaper and has a shorter lead time compared to customized systems

Scope of delivery:

- X-365: XY gantry system
- Controller & cabling (to be purchased seperately)
- Granite or Aluminum tooling plate (optional)
- R-ENG-GA on-site alignment service (optional)

APPLICATION

Market areas and use cases



- Advanced Manufacturing
 - Parts manipulation
 - Pick & Place
 - Camera placement
 - Additive and Electronics manufacturing
- Test and Inspection
 - 2D Profiling, 3D Profiling
- Laser Material Processing
 - Cutting, Welding

HIGHLIGHTS



Key Features

- Modular XY gantry system based on standard components
- Various travel ranges and configurations for specific application requirements
- High-performance ironless linear motors for cogging-free motion
- Absolute encoders for accurate position feedback without the need for referencing
- Precision recirculating ball bearing guides for highest stiffness and flatness
- Thermally decoupled components
- Comprehensive service offerings: R-ENG-GA On-site Gantry Alignment Service in addition to the established PI service offerings

USP

Unique selling proposition

- Standard product: best-in-class price and lead time
- Best-in-class availability of configurable variants
- Highest flexibility by using standardized components
- Excellent performance of a system with linear motor and absolute encoders
- Broadest service offering:
 - Highest precision by optional on-site alignment of X-axes parallelism
 - Extensive support and trust by optional remote or on-site trainings

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X-365 Precision XY Gantry System

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