



Micromotion GmbH

founded 2001 · micromotion-drives.com

3

PRODUCTS

2

SERVICES

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as of 20 August 2026



Micromotion GmbH

Micromotion GmbH, a subsidiary of Harmonic Drive® SE, designs and manufactures high-precision, performance-optimized micro drive technology, including micro drives and micro gearboxes. The company specializes in products with maximum accuracy and minimal dimensions, serving customers from development consultation through construction to the finished precision product. Their products are used in applications ranging from robotic surgery to space technology. Micromotion was founded in 2001 and has been supplying non-European markets, including the USA and South Africa, since 2006. The company introduced a comprehensive quality management system in 2003, standardizing processes and implementing an error reporting system for complete product traceability. They developed the world's smallest zero backlash micro gearbox and revolutionized the market for zero backlash gears with their 6-series in 2010. First developments for space technology have been in use for more than two years as of 2006.

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SERVICES

Services

Design and Construction

Micromotion GmbH provides design and construction services for high-precision, performance-optimized micro-drive technology tailored to customer specifications.

Development Consulting

Micromotion GmbH offers expert consulting services for the development of micro-drive systems, guiding customers from initial concepts to finished products.

Product catalogue



MICROMOTION GMBH
BryleeDrive Multi-Axis Micro-Drive

Combined linear-rotary multi-axis micro-drive for applications requiring simultaneous motion in more than one degree of freedom — space-rated construction.

Motion type	Combined linear and rotary (multi-axis)
Environments	UHV, extreme temperature, radiation tolerant

price on request



MICROMOTION GMBH
MaalonDrive Rotary Micro-Positioning Drive

Backlash-free rotary micro-actuator based on Harmonic Drive strain-wave gearing — arc-second repeatability, UHV and radiation-tolerant variants for space pointing mechanisms.

Sizes	6 mm, 8 mm, 10 mm
Backlash	None (strain-wave gearing)
Repeatability	Arc-second range
Environments	UHV, extreme temperature, radiation tolerant
Variants	Hollow shaft, ToolFit, HighAcc

price on request



MICROMOTION GMBH
RasuunDrive Linear Spindle Drive

Linear micro-actuator with spindle drive mechanism for precision linear positioning in compact space-rated assemblies — travel distance of 3 mm or more.

Drive type	Linear spindle drive
Travel distance	≥ 3 mm
Environments	UHV, extreme temperature, radiation tolerant

price on request

Contact Micromotion GmbH

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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