



**THE
AUTOMATION
ARCHITECT**

Precision Engineering Solutions



About us

At Automation Architect, we specialize in providing precision motion control and automation components that drive efficiency and performance across industries. Our expertise spans Linear Guides, Linear Actuators, Bearings, and Motion Modules, designed to deliver reliability, smooth operation, and long service life in demanding environments.

01

Our Mission

At Automation Architect, we deliver precise and reliable motion solutions that enhance efficiency and innovation across industries.

02

Our Vision

To be a global leader in motion control and automation through innovation, quality, and reliability.

03

Our Goal

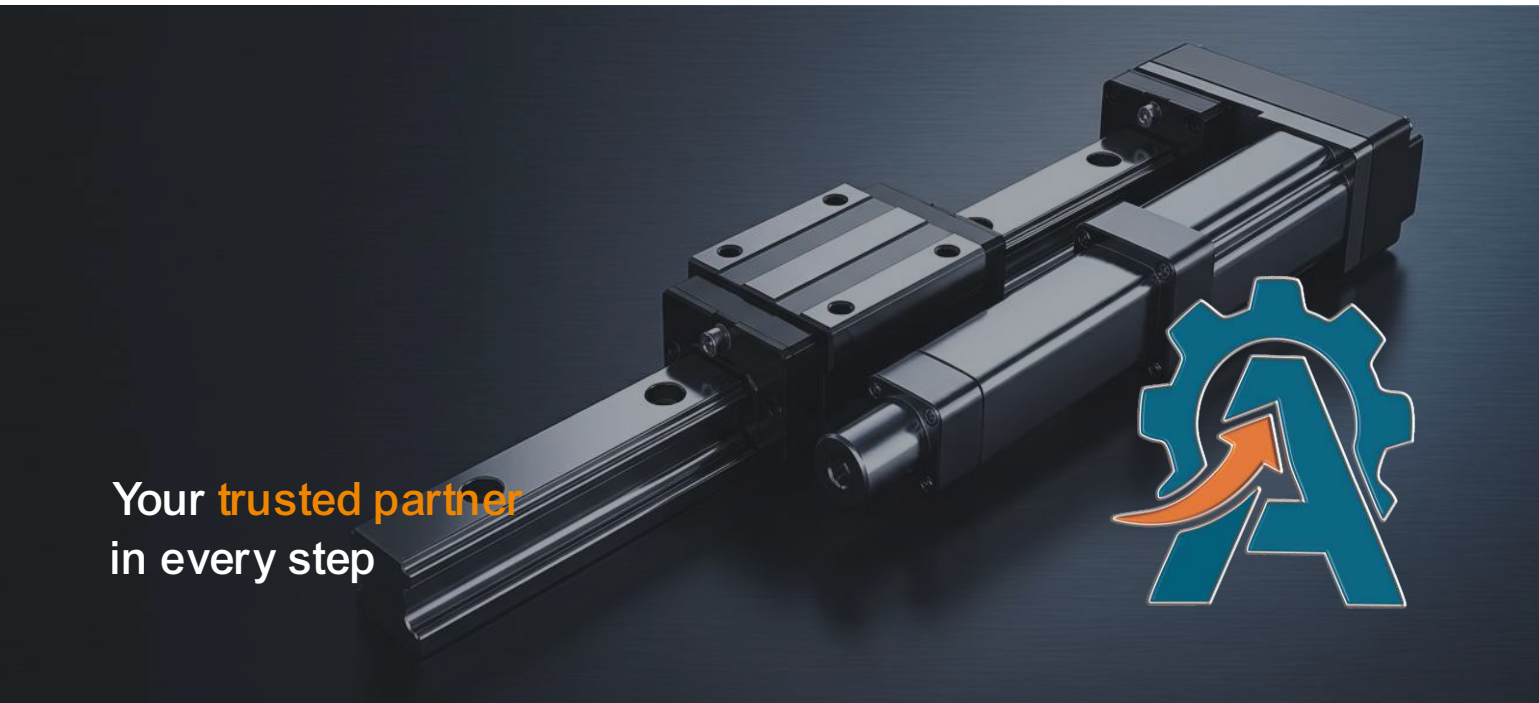
Automation Architect is a trusted provider of precision motion control solutions, committed to innovation and customer excellence.

04

Our Values

At Automation Architect, we are driven by integrity, quality, and customer satisfaction. We believe in building long-term relationships.





Your **trusted partner**
in every step

Stay Connected

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Linear Guide



Linear Ball Type Guideways

STAF BGC and BGX linear guides (sizes 15–55) offer smooth, precise motion with balanced load capacity, available in caged and non-caged types, featuring self-lubrication and a dustproof design for long life.



Linear Roller Guideways

STAF SGX roller-type linear guides use rollers instead of balls to provide high stiffness and load capacity, with a four-row 45° design for equal load in all directions, plus improved sealing and lubrication for extended durability.



Miniature Guideways

STAF MB and MPH miniature linear guides (sizes 5–15) are designed for compact precision applications, available in caged and non-caged types, with stainless steel options for corrosion resistance and reliable performance.



Wide Type Guideways

STAF BGXW wide-type linear guides (sizes 21–35) feature a patented spacer combining sealing and circulation, providing excellent dust protection and reliable precision motion in demanding environments.



Ball Screw

STAF Ball Screws (FDI, FSE, RSY, FDU, FSI, FSS, RSU, FSK, RSK, FSB) offer compact, low-noise, high-precision performance, available in 6–100 mm diameters with multiple pitches and C0–C7 accuracy, featuring lubrication for smooth, durable operation.



Planetary Rolled Ball Screw

STAF Planetary Roller Screws (SP Series: SPX, SPH, SPI, SPR) offer high precision, rigidity, and load capacity in 8–120 mm sizes, delivering higher load and durability than ball screws, with low noise and high acceleration.



Linear Actuator



HNT Series

HNT Series Linear Axis (140D-270D) features an aluminum profile design with guide rails and multiple sliders, delivering high stiffness and speed even under heavy loads.



HCR Series

HCR/HNR Series (105-270 mm models) feature double LM guides for enhanced stability, ± 0.02 mm repeatability for precise positioning, and offer customizable options to suit specific application needs.



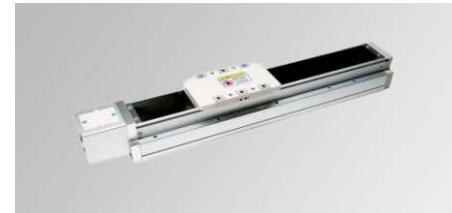
ESR Series

ESR Series Electric Cylinders (25-100) offer a compact, quiet ball screw drive with ± 0.02 mm repeatability and up to 96% efficiency. With 2000 mm stroke and 1500 kg load capacity, they are ideal for automation and robotics.



KSR Series

KSR/KNR/KFR/KCR Series (Steel Base; 40-130 models) feature high-precision ± 0.005 mm repeatability, a rigid steel base with U-rail design, external grease injection for easy maintenance, and are readily available in stock.



GCR Series

GCR Series Linear Actuators (40-170 models) feature a patented steel-inlaid aluminum design, reducing weight by 25% while ensuring high rigidity and ± 0.005 mm precision. Fully sealed with dust protection.



LNP Series

LNP Series Direct Drive Linear Motors (140D-230D) deliver high-speed, contactless motion with micron-level precision and $\pm 1 \mu\text{m}$ repeatability. Compact, rigid, and easy to integrate, ideal and high-precision applications.

NTN & NSK Bearings



Spherical Roller Bearing

Spherical Roller Bearings are designed to handle heavy radial and axial loads. They can self-align to compensate for shaft misalignment, making them ideal for harsh conditions and heavy-duty applications.



Tapered Roller Bearing

Tapered Roller Bearings are designed to handle combined radial and axial loads. Their tapered rollers provide high load capacity and are commonly used in automotive and heavy machinery applications.



Thrust Ball Bearing

Thrust Ball Bearings are designed to handle axial loads only. They provide smooth operation at low to moderate speeds and are commonly used in automotive and machine applications.



Needle Roller Bearing

Needle Roller Bearings use thin, long rollers to handle high radial loads in compact spaces. They offer high load capacity with minimal space requirements, ideal for automotive and gearbox applications.



FATEK® Automation



PLC

PLCs are designed with dedicated high-performance hardware specifically for logic operations, ensuring fast, accurate, and consistent performance over time.



HMI

The P5 HMI offers a full range of model options designed to meet comprehensive industrial automation needs. It features high-resolution touch displays that provide clear visualization of machine status, process data, and alarms.



Servo

The SC3 Servo System is a high-performance servo drive designed for precise motion control in industrial automation. It supports EtherCAT bus and pulse control, ensuring fast and synchronized operation.

M Series PLC

Revolutionary hard PLC architecture, engineered for ultimate performance. Delivers an industry-leading 0.8-nanosecond processing speed, reaching new heights with Next Level Solutions.



LINEAR MOTION PRODUCTS

PRECISION • PERFORMANCE • RELIABILITY

01 LMF SERIES FLANGE LINEAR BEARINGS

High-precision flange type linear bearings for smooth linear motion and easy mounting.



HIGH LOAD
CAPACITY



EASY
INSTALLATION



SMOOTH &
LOW-NOISE



LONG
SERVICE LIFE

POPULAR CODES:

LMF6UU

LMF8UU

LMF10UU

LMF12UU

LMF16UU

LMF20UU

02 HIWIN LINEAR GUIDEWAYS

High accuracy, high rigidity and smooth motion.

SERIES:

- HG (Heavy Load)
- EG (Compact)
- MG (Miniature)

APPLICATIONS:



CNC
MACHINES



AUTOMATION
SYSTEMS



ROBOTICS



PACKAGING
MACHINES



HIGH
PRECISION



LOW
FRICTION



HIGH-SPEED
CAPABILITY



INTERCHANGEABILITY

03 LINEAR BEARING ACCESSORIES

Complete range of accessories to support and enhance linear motion performance.

PRODUCTS INCLUDE:

- Shaft Supports
- Aluminum Housings
- Linear Shafts
- End Supports
- Couplings



SHAFT SUPPORTS



ALUMINUM HOUSINGS



LINEAR SHAFTS



END SUPPORTS



COUPLINGS



DURABLE
CONSTRUCTION



CORROSION
RESISTANCE



PRECISION
FITMENT



EASY
INTEGRATION

YOUR **TRUSTED PARTNER**
IN MOTION CONTROL & AUTOMATION



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