

AROBOTECH[®]
SYSTEMS

WORLD LEADER IN STEADY REST TECHNOLOGY

ENGINEERED FOR PREDICTABLE PRECISION

SINCE 1982, Arobotech products have been custom-built for high-precision machining applications. Trusted worldwide, our steady rests are known for their rigidity, repeatability, and long-term reliability. Designed for demanding production environments, our workholding solutions deliver consistent results every time.



BETTER SUPPORT. BETTER RESULTS.

- Improved surface finish and part quality
- Reduced vibration, chatter, and scrap
- Faster setups with consistent repeatability
- Durability that lasts for decades



FOUNDED ON PRECISION. DRIVEN BY INNOVATION.

Arobotech Systems was founded by Richard J. Lessway with a clear purpose: to improve how manufacturers support and position cylindrical workpieces in precision machining.

From the beginning, the focus was on developing true-centering steady rest solutions that were simple in concept, rugged in design, and uncompromising in accuracy and repeatability.

That philosophy has guided decades of continuous product development, resulting in patented innovations and a steady evolution of technology across grinding, turning, and specialized workholding applications.

Today, Arobotech continues to advance steady rest technology with the same discipline and attention to detail that defined its earliest designs.



HOW IT WORKS

Accuracy

Arobotech Systems offers the original sliding wedge design with unsurpassed clamping accuracy. Each Grinding AUTO REST® must repeat within .001mm during testing to pass our rigorous certification criteria.

Self-Centering

The straight-line motion produced by the sliding wedge design gives Grinding AUTO REST® its unique self-centering capability. This feature automatically centers any size within each model's clamping range.

Follow Down Operation

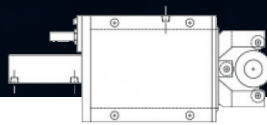
This feature allows the Grinding AUTO REST® to support the part at the point of grind. The dynamic self-centering ability compensates for the changing part size to keep the workpiece on center throughout the grind cycle.



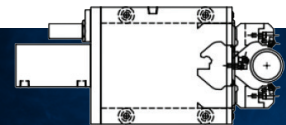
HISTORY OF

1982

Founded



GEN 1
1991
GR-100-MGX
Introduced



1988

First Grinding
AUTO REST®
Produced

AROBOTECH®
SYSTEMS

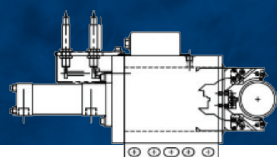
WORLD LEADER IN STEADY REST TECHNOLOGY

INNOVATION

GEN 3

1996

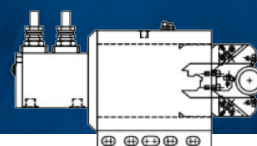
GR-110
Introduced



GEN 5

2021

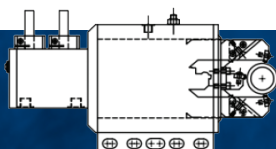
GR-4300
Introduced



GEN 2

1992

GR-100-
MR10-CL
Introduced



GEN 4

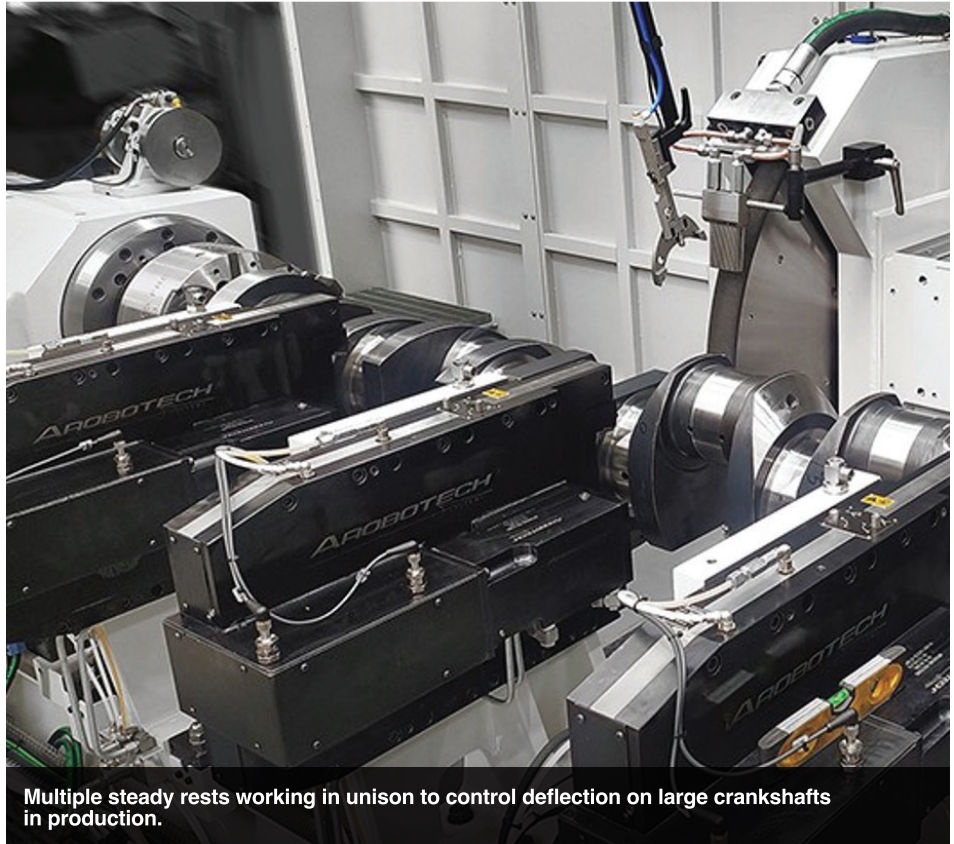
2003

GR-115V
Introduced

STABILITY IS THE FOUNDATION OF PRECISION

In grinding and turning operations, long or slender cylindrical parts are especially vulnerable to vibration, deflection, and chatter. Even small instability can lead to poor surface finish, lost accuracy, increased scrap, and reduced productivity.

Arobotech AUTO REST[®] steady rests provide the critical support needed to control the workpiece throughout the machining process. With true-centering alignment and exceptional rigidity, manufacturers achieve tighter tolerances, better finishes, and repeatable results across demanding applications.



Multiple steady rests working in unison to control deflection on large crankshafts in production.

COMMON CHALLENGES WITHOUT SUPPORT

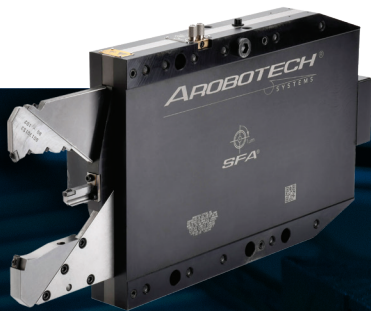
- Vibration and chatter
- Inconsistent surface finish
- Out-of-round or tapered parts
- Scrap, rework, and lost cycle time

WHAT PROPER SUPPORT ENABLES

- Higher accuracy and repeatability
- Better roundness and size control
- Faster machining with confidence

COMPLETE STEADY REST SOLUTIONS

Arobotech offers a full range of self-centering steady rest technologies designed to support cylindrical workpieces across grinding, tool grinding, turning, and specialized machining operations. Each product family is engineered to deliver stability, repeatability, and long-term durability in demanding production environments.



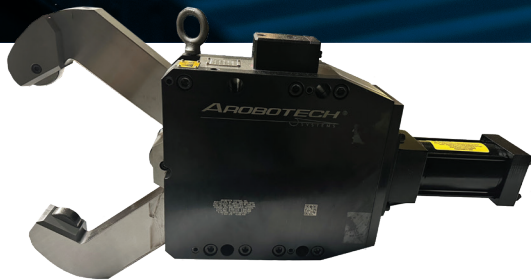
Grinding AUTO REST®

Grinding AUTO REST® with GEN-5 SFA Technology. Micron-level adjustment for superior finish, roundness, and repeatable grinding performance.



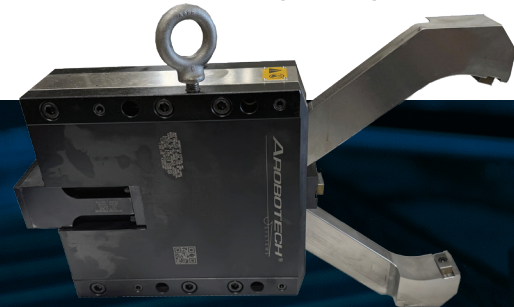
Tool Grinding AUTO REST®

Tool Grinding steady rests for small diameter precision applications. Exceptional control and stability for tool and cutter grinding environments.



Turning AUTO REST®

Turning AUTO REST® steady rests for rigid part support in heavy machining vibration-damping stability for demanding turning and lathe operations.



Gripping and Centering

TRUE-GRIP® and PARA-GRIP® solutions for maximum rigidity and repeatability are specialized designs to meet challenging work holding requirements across applications.

ACCESSORIES AND ENGINEERING SUPPORT

Mounting brackets | Custom solutions | Expert application support

Ensuring the right fit and performance for every machine and workpiece

GRINDING AUTO REST® **Precision Support for Cylindrical Grinding**

Arobotech Grinding AUTO REST® steady rests provide rigid, true-centering part support for the most demanding cylindrical grinding applications. Designed to eliminate vibration and maintain consistent alignment, AUTO REST® systems help manufacturers achieve superior surface finish, improved roundness, and repeatable accuracy in production environments.

From automotive crankshafts to high-precision industrial components, Grinding AUTO REST® technology delivers the stability required for exceptional grinding performance.

KEY BENEFITS

- **Improve roundness** – Our Follow Down feature supports the diameter being ground.
- **Better size control** by keeping the workpiece stable throughout the grind cycle.
- **Improved concentricity** – Our self centering feature automatically compensates for under – and over-sized parts.

APPLICATIONS

- **Crankshafts**
- **Ball Screws**
- **Camshafts**
- **Turbocharger Shafts**
- **Electric Motor Shafts**
- **Transmission Shafts**
- **Pump Shafts**

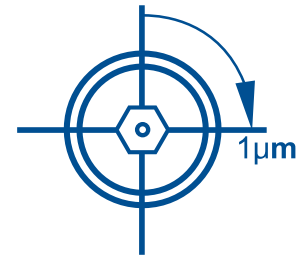


5TH GENERATION SFA

Superior Fine Adjustment For Cylindrical Grinding

GEN-5 SFA (Superior Fine Adjustment) represents the latest advancement in Grinding AUTO REST® performance. This next-generation adjustment system provides precise centerline control, allowing operators to align quickly, maintain repeatability, and achieve the highest levels of grinding accuracy.

With GEN-5 SFA, small adjustments translate into measurable improvements in part quality, setup consistency, and production efficiency.

**SFA**[®]

THE GEN-5 SFA ADVANTAGE

- 1µm centerline adjustment capability
- 90° screw rotation = 1µm shift
- Faster alignment and improved repeatability



Repeatability verified to 1 Micron



GEN-5 SFA sets a new standard for fine adjustment precision in cylindrical grinding applications



TOOL GRINDING AUTO REST[®]

Precision Support for Tool & Cutter Grinding

Tool grinding applications demand stable, low-profile part support while maintaining maximum wheel clearance and precise centering. Arobotech Tool Grinding AUTO REST[®] systems are designed specifically to support cutting tools during flute grinding, OD grinding, and finishing operations.

With rigid, self-centering support directly beneath the grinding zone, these steady rests reduce deflection, improve finish, and enable consistent high-precision results across demanding tool room environments.



Tool Grinding AUTO REST[®] providing rigid support in a high-precision grinding environment.

KEY BENEFITS

- Reduced scrap through reliable, repeatable part support
- Improved cycle time by enabling more aggressive grinding
- Accurate workpiece support without the use of a tailstock
- Quick changeover to support efficient production
- Models available to suit most tool grinding machines

IDEAL FOR

- End Mills
- Drills
- Reamers
- Tool Shanks
- Mandrels
- Precision Medical Tools

Model range available across multiple tool grinding configurations.

NEED HELP SELECTING THE RIGHT MODEL?

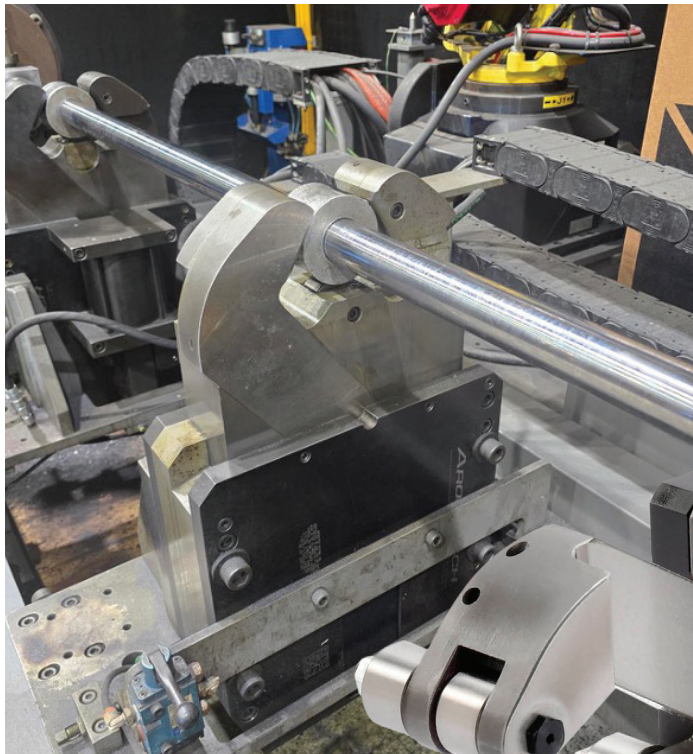
Contact Arobotech engineering for application support and sizing guidance.

TURNING AUTO REST[®]

Rigid Support for Heavy Machining

Turning operations generate high cutting forces that can cause vibration, deflection, and instability to the workpiece.

Arobotech Turning AUTO REST[®] provide rugged, self-centering part support designed to withstand aggressive cutting environments. The result is improved surface finish, tighter tolerances, and greater machining confidence in production turning operations.



KEY BENEFITS

- Rigid support for high force turning
- Reduced vibration, chatter, and tool wear

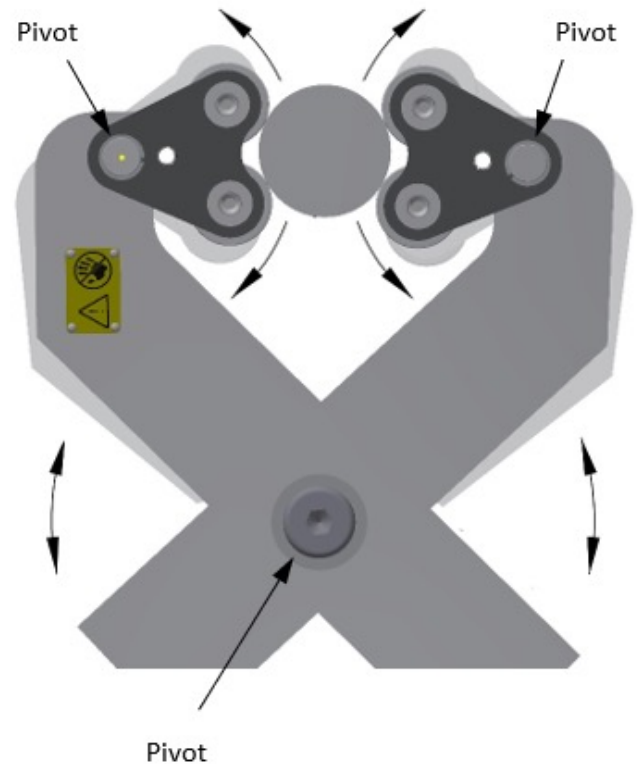


TURNING AUTO REST®

Flexible Support for Parts with Excessive Runout

VIBRATION DAMPENER

When the workpiece has excessive runout, where traditional steady rests struggle, Arobotech offers a unique solution. The Vibration Dampener mounts to pivots, allowing the part to move slightly while damping vibration. This “flexible” support controls runout without rigid clamping, allowing the workpiece to “breathe” rather than transfer vibration to the cutting tool.



Unlike traditional steady rests that clamp rigidly, the Vibration Dampener pivots to “breathe” around the part. Roller carries are mounted on pivots, allowing flexible movement to control vibration while reducing runout.

- Controls vibration for parts with high runout
- Pivoted design allows the part to move freely

GRIPPING AND CENTERING

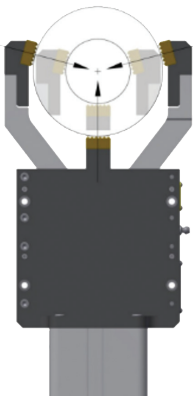
TRUE-GRIP® + PARA-GRIP® Systems

Arobotech TRUE-GRIP® and PARA-GRIP® systems extend our patented centering technology into flexible gripping solutions for precision workholding applications.

Designed and manufactured to the same standards as our AUTO REST® product lines, these grippers provide accurate positioning, repeatability clamping, and long-term reliability across a wide range of cylindrical components.



ACCURATE, RELIABLE GRIP



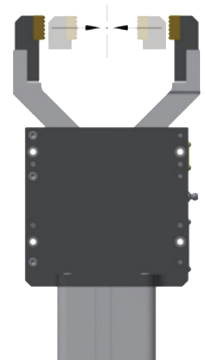
Three Point Gripper

TRUE-GRIP® is an accurate, self-centering three point gripper. All parts within the clamping range are automatically centered.

Interchangeable tooling makes TRUE-GRIP® an effective, flexible solution for your centering needs.

Parallel Gripper

PARA-GRIP® is a true parallel motion gripper. Interchangeable fingertip tooling makes PARA-GRIP®, an ideal centering solution.



CUSTOM SOLUTIONS

Built on Nearly Half a Century of Application Expertise

At Arobotech, precision workholding is more than a product—it is an engineered solution. Many machining environments require specialized part support, unique mounting configurations, or application-specific designs that go beyond standard models.

CUSTOM SUPPORT WHERE IT MATTERS MOST

- Custom steady rest designs for unique workpieces and machine layouts
- Application engineering from concept through installation
- Machine-specific mounting brackets and integration solutions
- Specialized solutions for crankshaft, rotors, and long slender parts



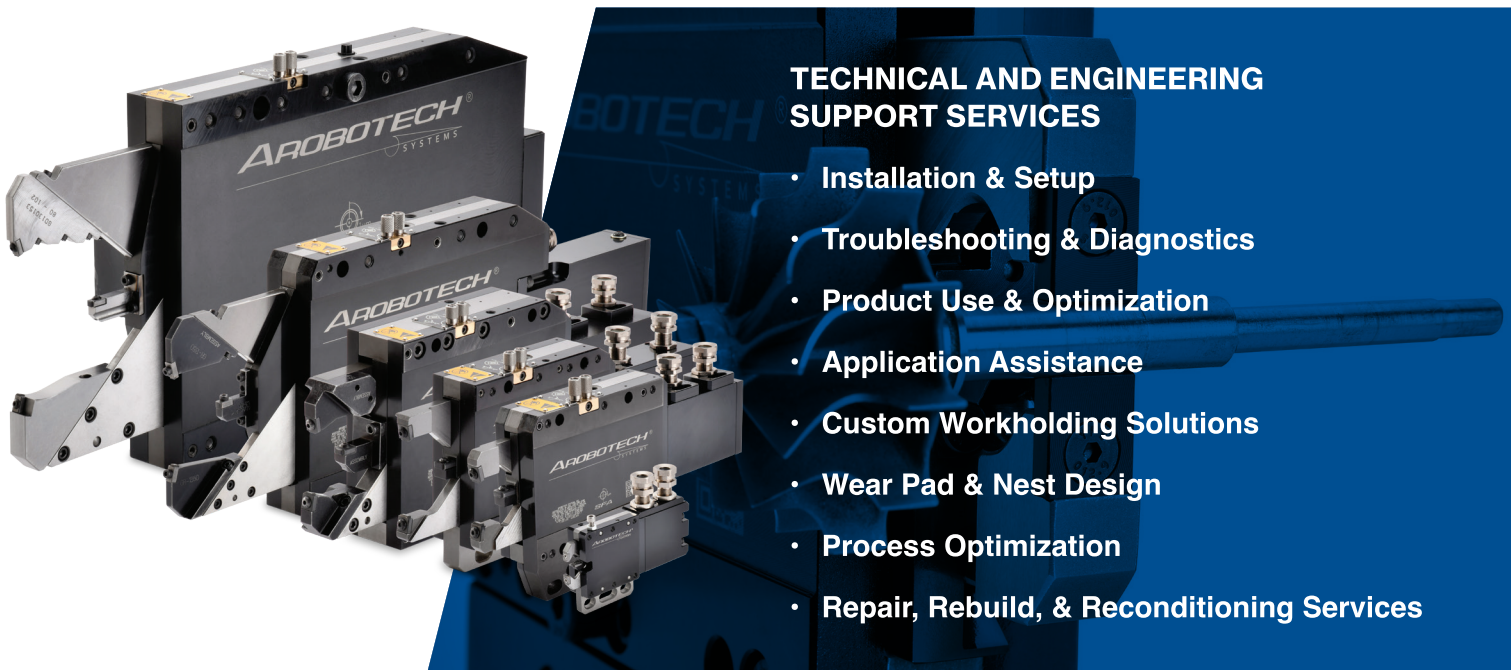
From standard models to one-of-a-kind designs | sales@arobotech.com

COMPREHENSIVE SUPPORT BEYOND THE PRODUCT

Engineering Expertise. Practical Help. Long-Term Performance.

Arobotech provides comprehensive customer support, combining hands-on technical assistance with deep engineering expertise to help you get the most from your AUTO REST® system.

From initial installation to process optimization and long-term service, our team works directly with customers to ensure reliable performance, repeatability, and success in demanding production environments.



A Partner for the Life of Your Equipment

**AROBOTECH PRODUCTS ARE BUILT TO LAST
AND OUR SUPPORT IS BUILT THE SAME WAY.**

Contact our team at sales@arobotech.com



World Leader In Steady Rest Technology

AUTO REST®, Grinding AUTO REST®, TRUE-GRIP®, PARA-GRIP®, and SFA®
are registered trademarks of Arobotech Systems, Inc.

USA

Arobotech Systems, Inc.
World Headquarters
1524 E. Avis Drive
Madison Heights, MI 48071 USA
+001 (248) 588-9080
sales@arobotech.com
service@arobotech.com

GERMANY

GSN Schleiftechnik GmbH
Im Moosfeld 5
73495 Stödtlen, Germany
+49 (0)7964 – 33111 790
info@arobotech.de

CHINA

AMT Shanghai Technology
and Service Center (AMT STC)
No.8 Building, No.81 MeiYue Road
China (Shanghai) Pilot FT.Z.
Shanghai, 200131; P.R. China
+86 021-58682809

INDIA

PR Sales Corporation Pvt. Ltd.
Flat 3. Kedar Apartments
Plot 48, Mayur Colony, Kothru
Pune, Maharashtra 411038,
India +91-20-25437591
info@prsales.in

KOREA

Seong Eun Tech.
294-1, Sangbuk-ro, Sangbuk-my-
eon, Ulju-gun,
Ulsan 689-821, Korea
+82 052 256 5758

JAPAN

Mitsubishi Corporation Technos
Dai Nagoya Building, 3-28-12,
Meieki Nakamuraku
Nagoya City, Aichi Prefecture
450-6418, Japan
+81-52-565-2641
e100_arobotech@mmts.co.jp

Scan QR code to visit our website!



arobotech.com