



ISO 9001:2015 and AS9100D Certified

Over 4 Decades of Experience in Custom Precision Motion Control



**PERRY JOHNSON
REGISTRARS, INC.**

Certificate of Registration

Perry Johnson Registrars, Inc., has audited the Quality Management System of:

ARC Systems, Inc.
2090 Joshuas Path, Hauppauge, NY 11788 United States

*(Hereinafter called the Organization) and hereby declares that
Organization is in conformance with:*

ISO 9001:2015 and AS9100D

This Registration is in respect to the following scope:

Design, Development, Manufacture, Supply and Repair of Motors and Components

(The assessment was performed in accordance with AS9104/1:2012-01. PJR is accredited under the ICOP scheme)

*This Registration is granted subject to the system rules governing the Registration referred to above, and the
Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.*



Terry Boboige

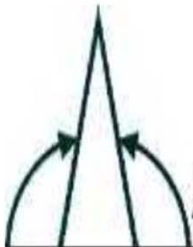
Terry Boboige, President
Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48064
(248) 358-3388

The validity of this certificate is dependent upon ongoing surveillance.

Effective Date:
February 21, 2021

Expiration Date:
February 20, 2024

Certificate No.:
C2021-00051



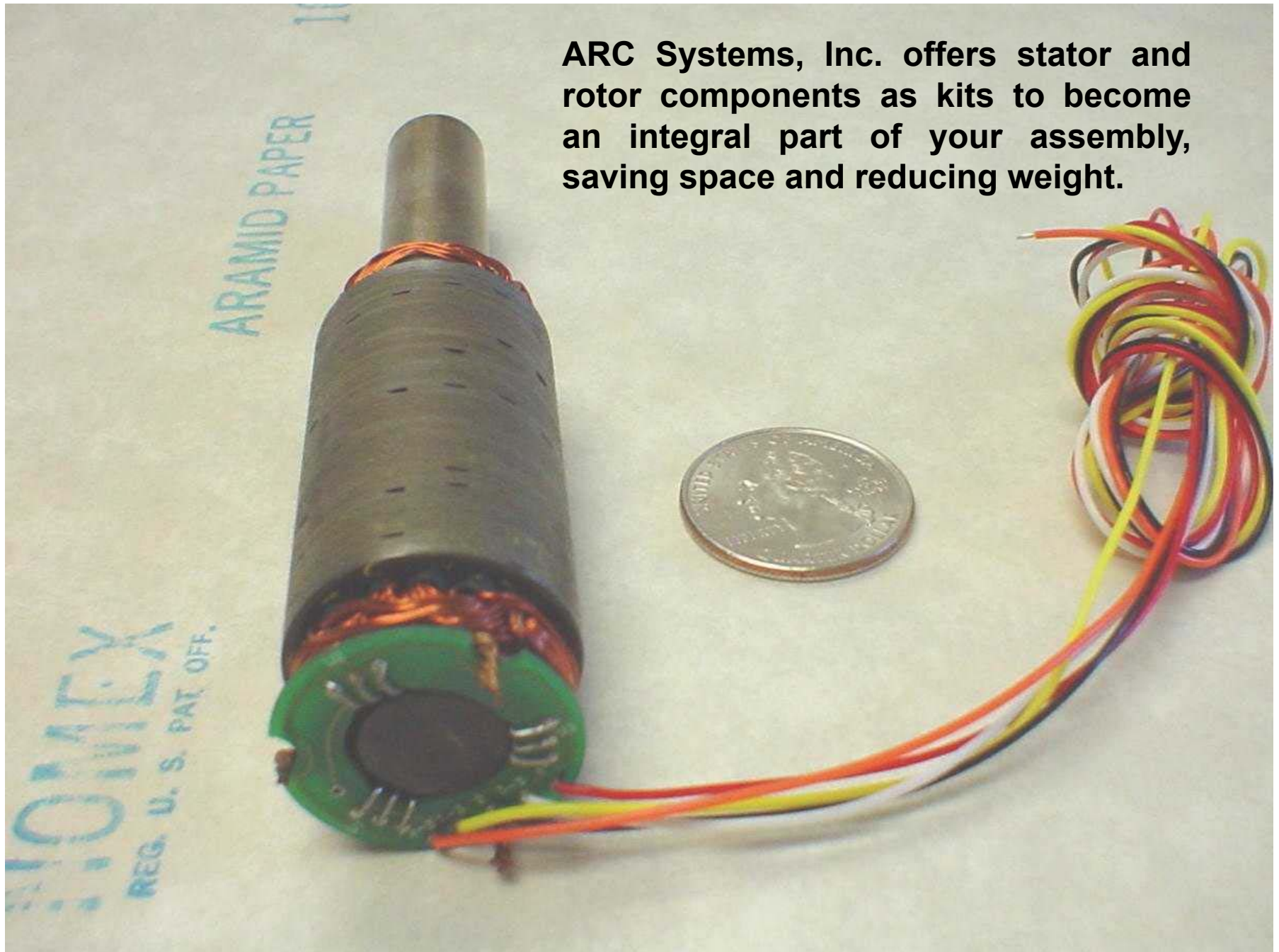
ARC SYSTEMS INC.

ARC Systems, Inc. was founded in 1967 to provide the aerospace industry with a dependable source for high-precision motors and AC components. To meet the needs of this demanding market, ARC developed a unique team philosophy to be a fully integrated, completely self-sufficient facility.

ARC Systems, Inc. has over 50 years of experience in customized manufacturing for the following industries:

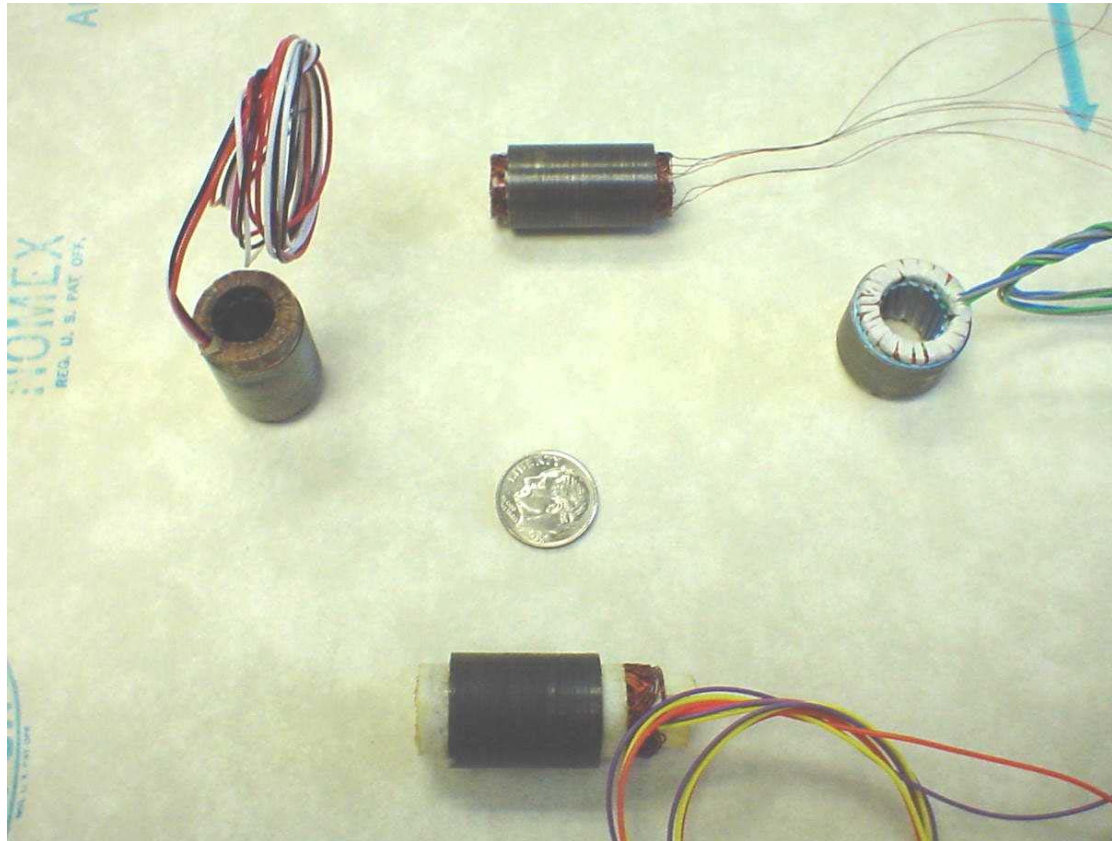
- Process Control Equipment
- Power Plant Instrumentation
- Telecommunications
- Geological Instrumentation
- Food Industry
- Aircraft Instrumentation
- Helicopter Navigation
- Marine Equipment
- Medical Equipment
- Paper Industry

ARC Systems, Inc. offers stator and rotor components as kits to become an integral part of your assembly, saving space and reducing weight.



ARC Systems, Inc. experience in customized precision winding manufacturing is peerless.

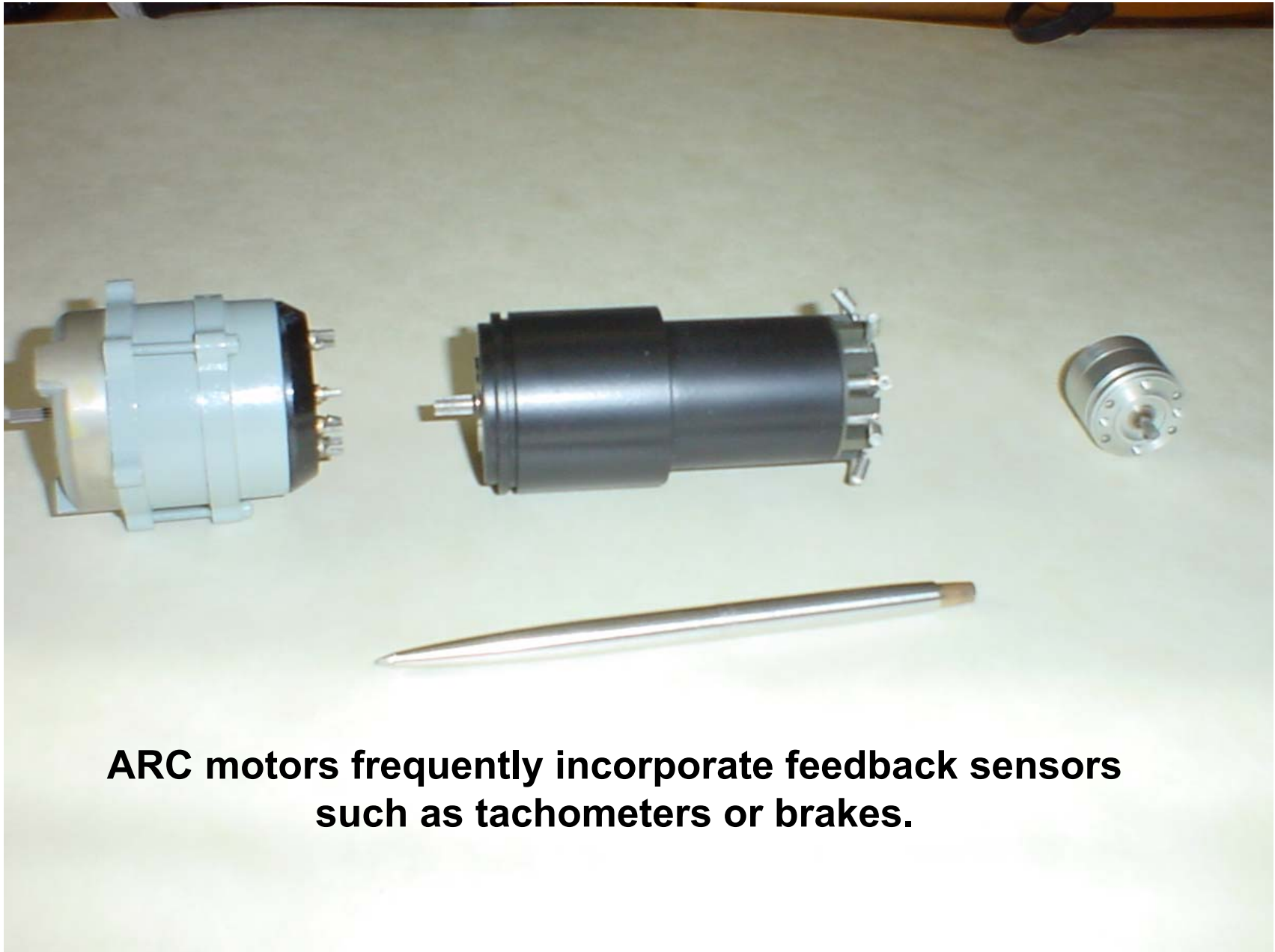




All laminations are stacked utilizing designed stacking tools and fixtures. ARC Systems, Inc. is truly one of the few remaining, totally integrated, suppliers of specialty custom windings in the electromechanical motor and components industries. Our in-house machining capabilities enable us to grind/hone stacks to .0002" tolerances on both Outer Diameter and Inner Diameter. If the application demands, closer tolerances can be achieved.



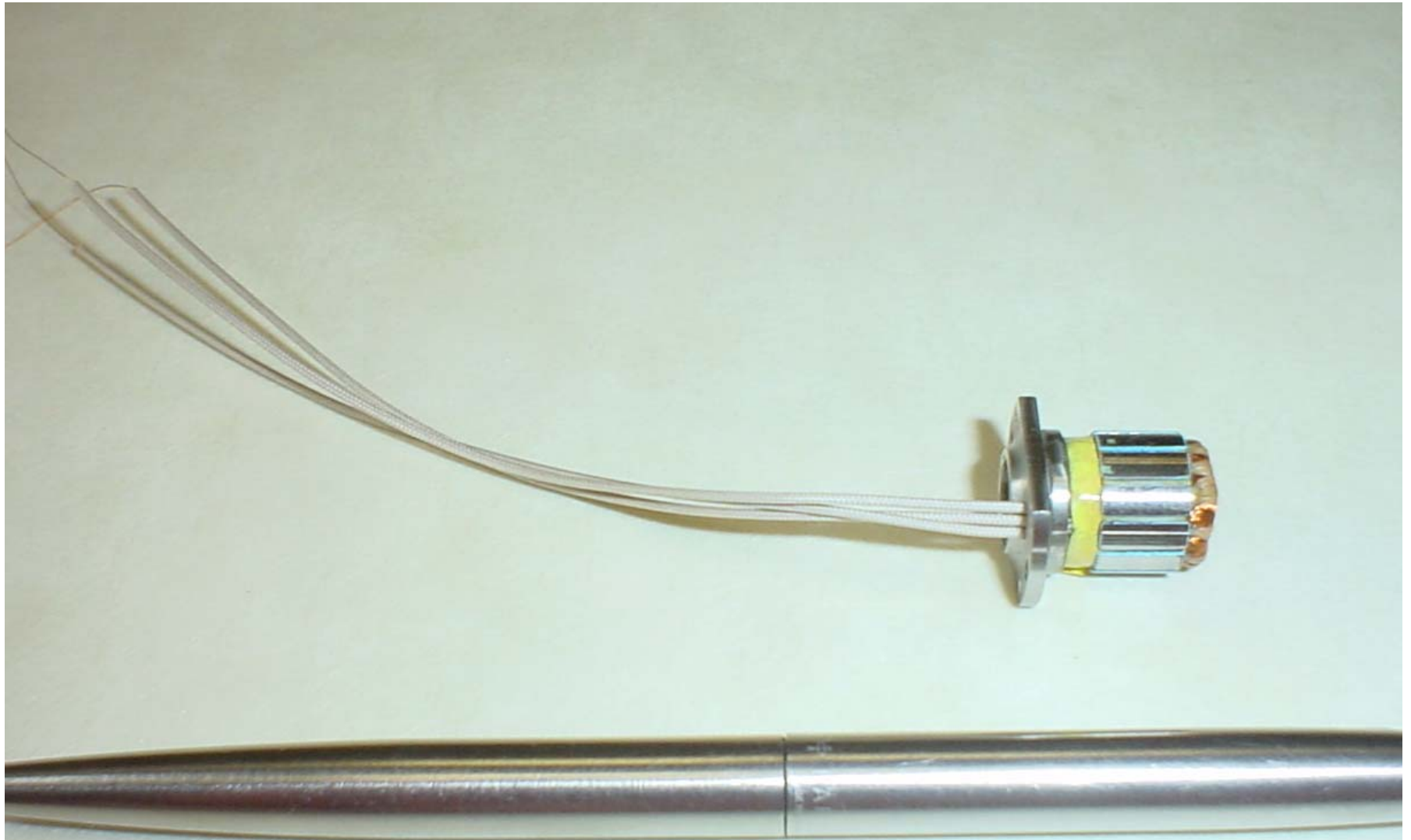
Every Year ARC Systems, Inc. supplies thousands of motor products for the military, commercial, and aerospace industries.



**ARC motors frequently incorporate feedback sensors
such as tachometers or brakes.**



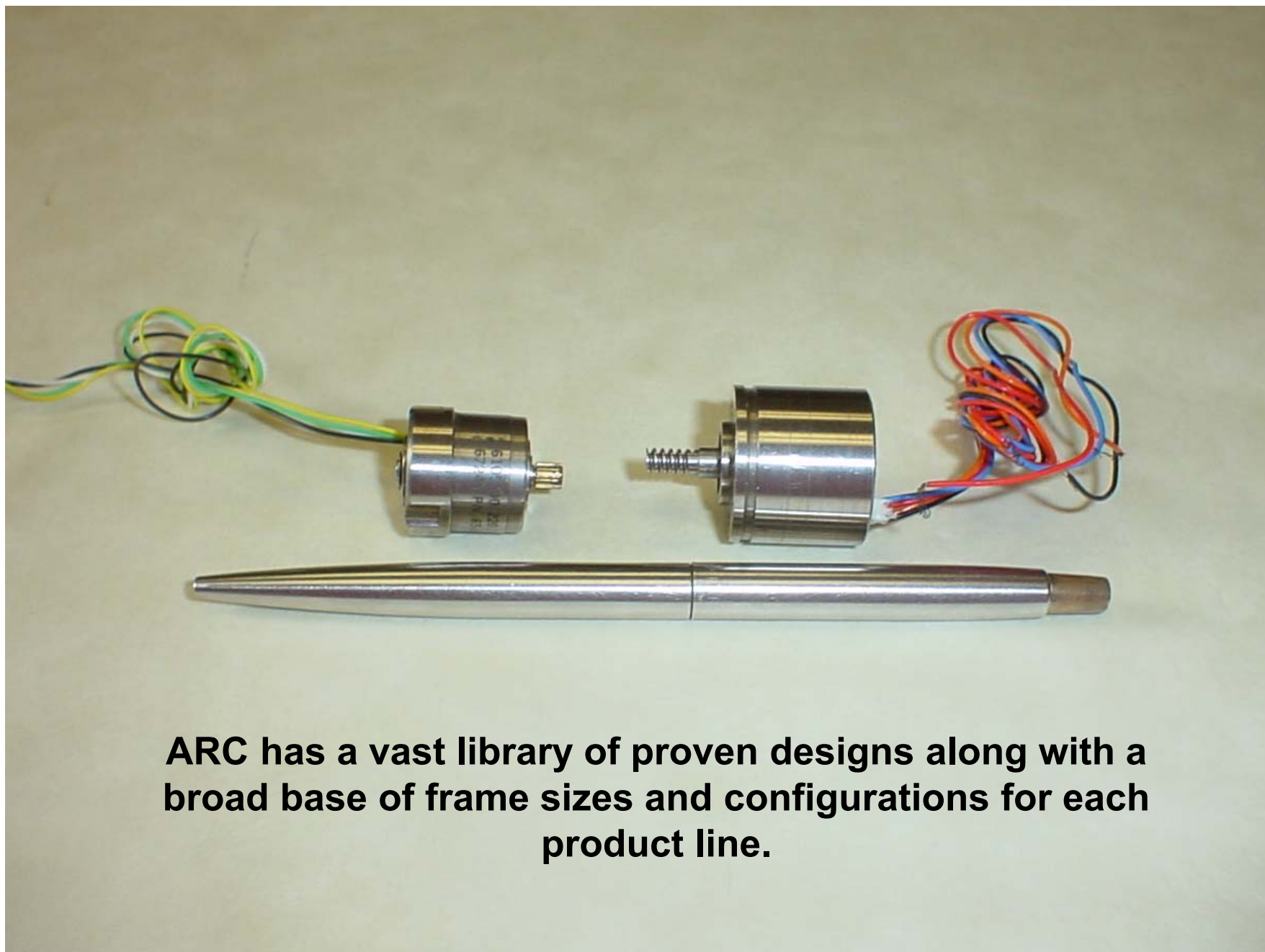
Along with our unique manufacturing processes, our internal capabilities provide low cost solutions for our customers. Build to print or custom windings are ARC's specialty.



High Temperature (Class H) insulation systems are also available.

**ARC's complete lines of
AC Induction Motors are
manufactured using a
squirrel cage rotors
utilizing both aluminum
and copper bars.**





ARC has a vast library of proven designs along with a broad base of frame sizes and configurations for each product line.

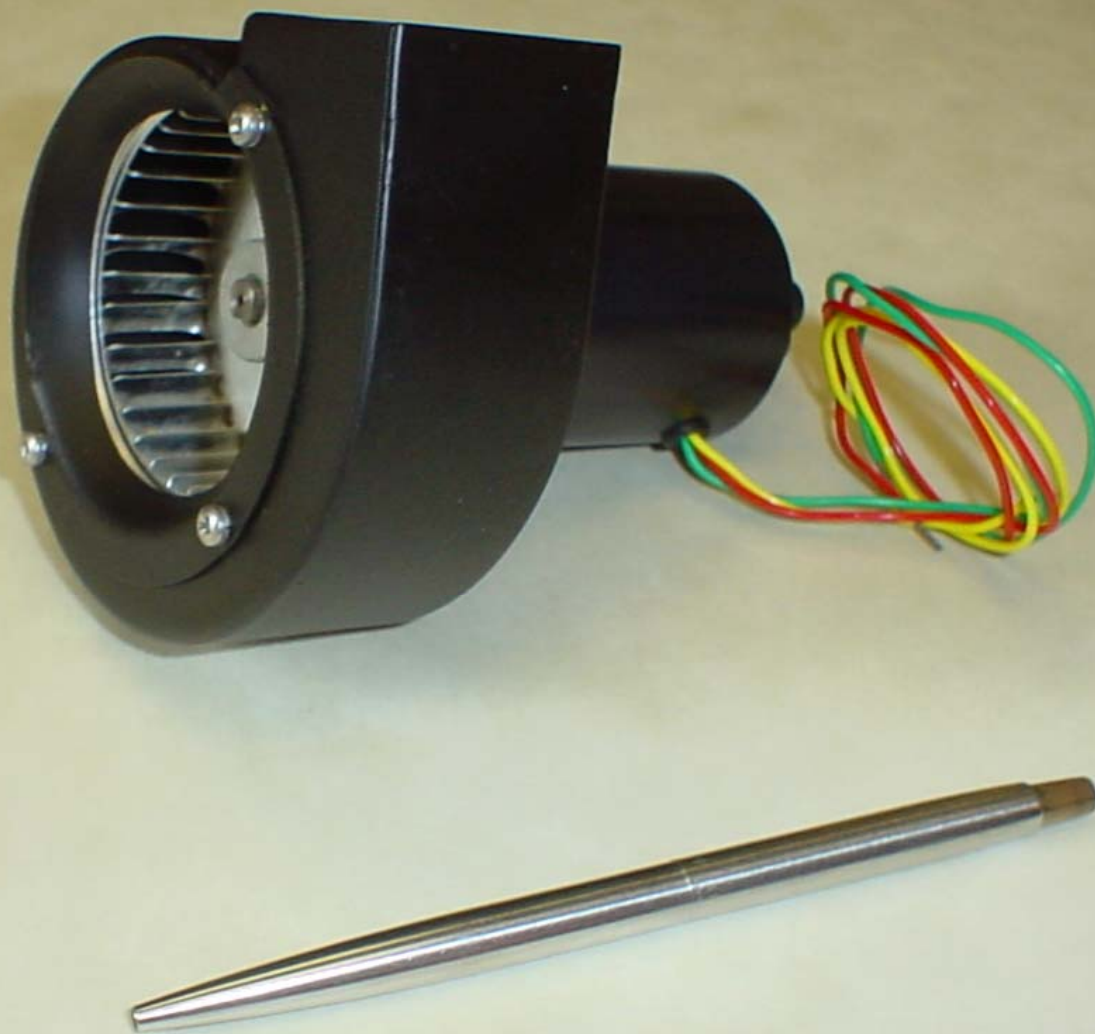
**ARC Systems,
Inc. is committed
to being the
absolute best and
most
comprehensive
source for Motion
Control
Components.**



The induction motor is the most commonly used type of AC motor. Its simple, rugged construction costs relatively little to manufacture.

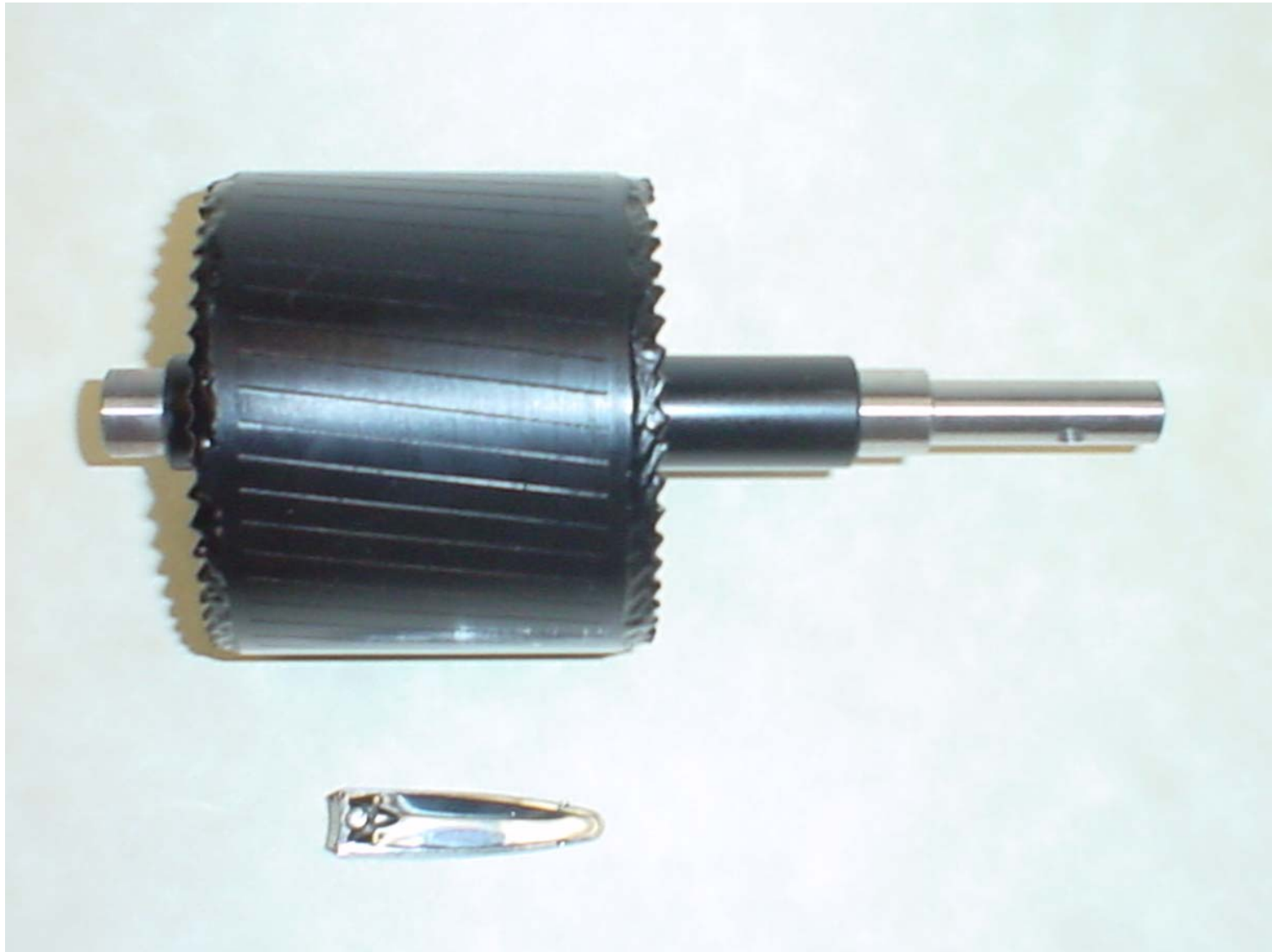


**ARC's complete
line of Blowers are
manufactured
using Induction
Motors.**

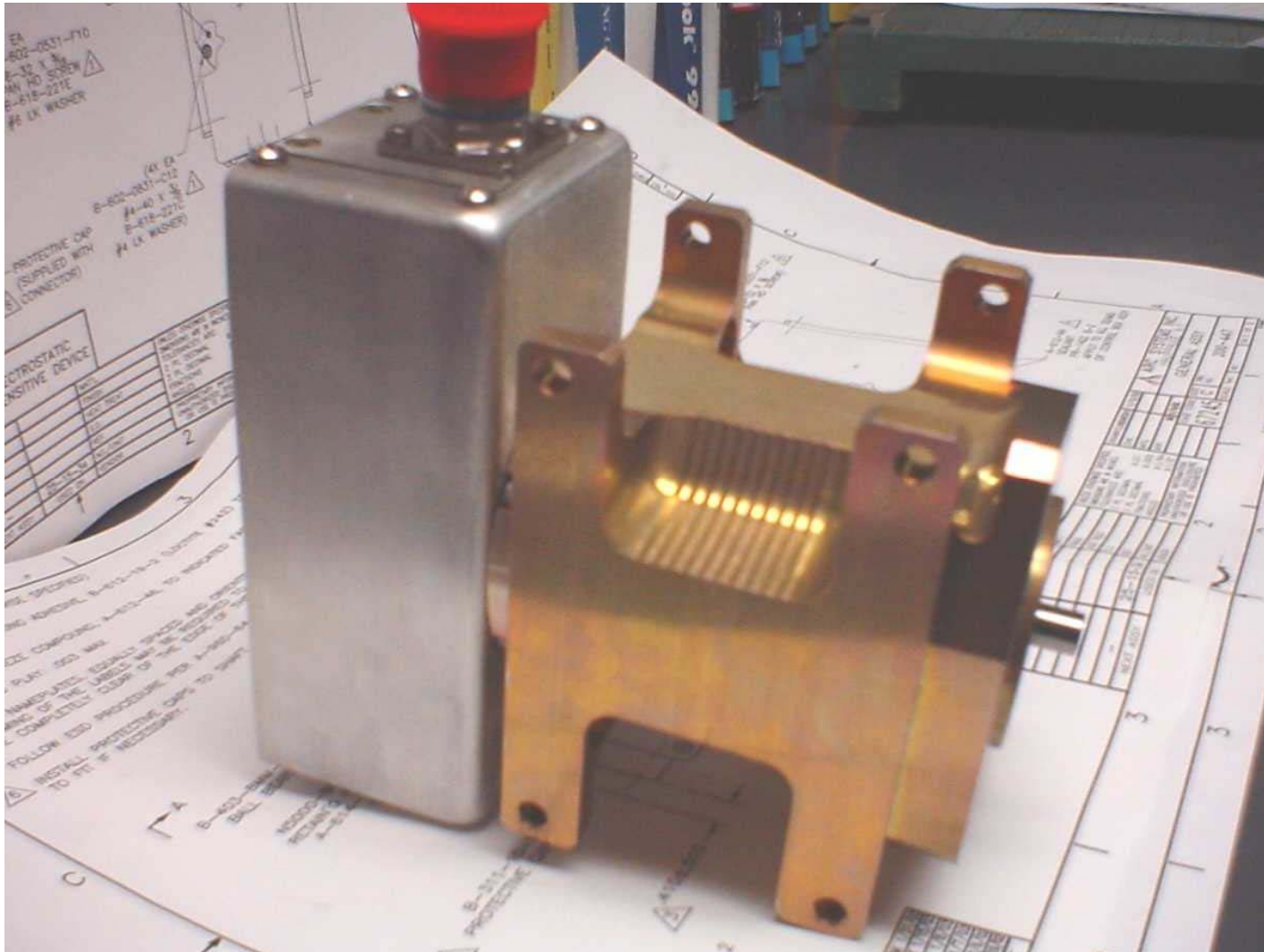




ARC Systems, Inc. offers exceptionally adaptable motor designs.



To meet the needs of this demanding market, ARC has become a fully integrated, completely self-sufficient facility.



From concept through engineering and production, ARC is committed to producing the highest quality components at competitive prices, delivered on time.

Gear heads can be combined with any component for high-torque actuation systems.

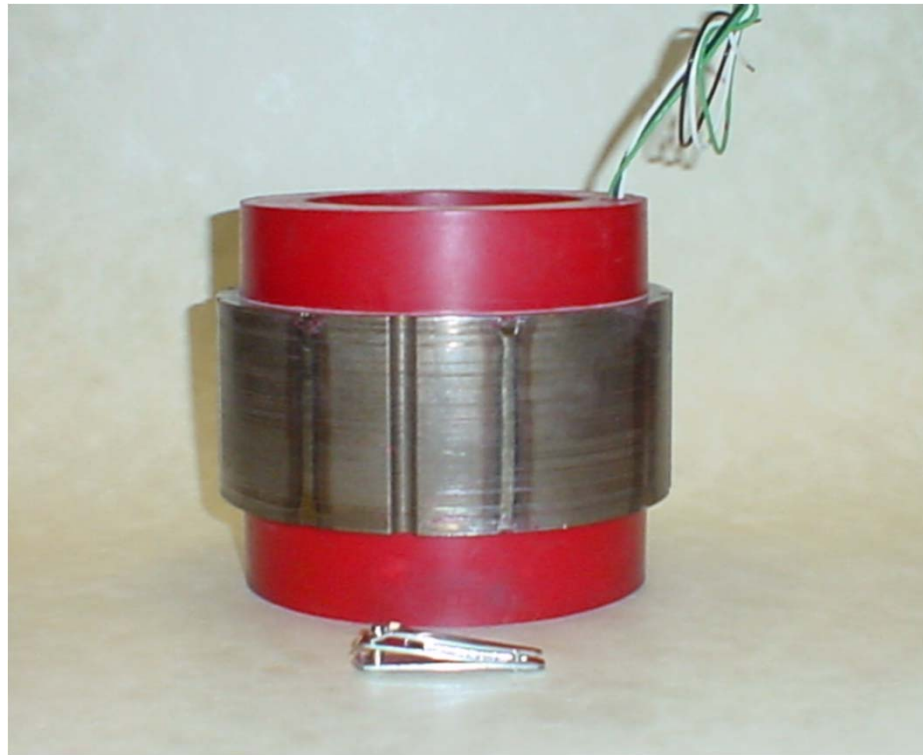


Actuators from ARC Systems, Inc. are robust and reliable devices with long lives under tough industrial conditions.



Capabilities

- ◆ Potting
- ◆ Vacuum Impregnation
- ◆ Grinding
- ◆ Honing
- ◆ MIL-STD-2000 Soldering



Magnet Wire

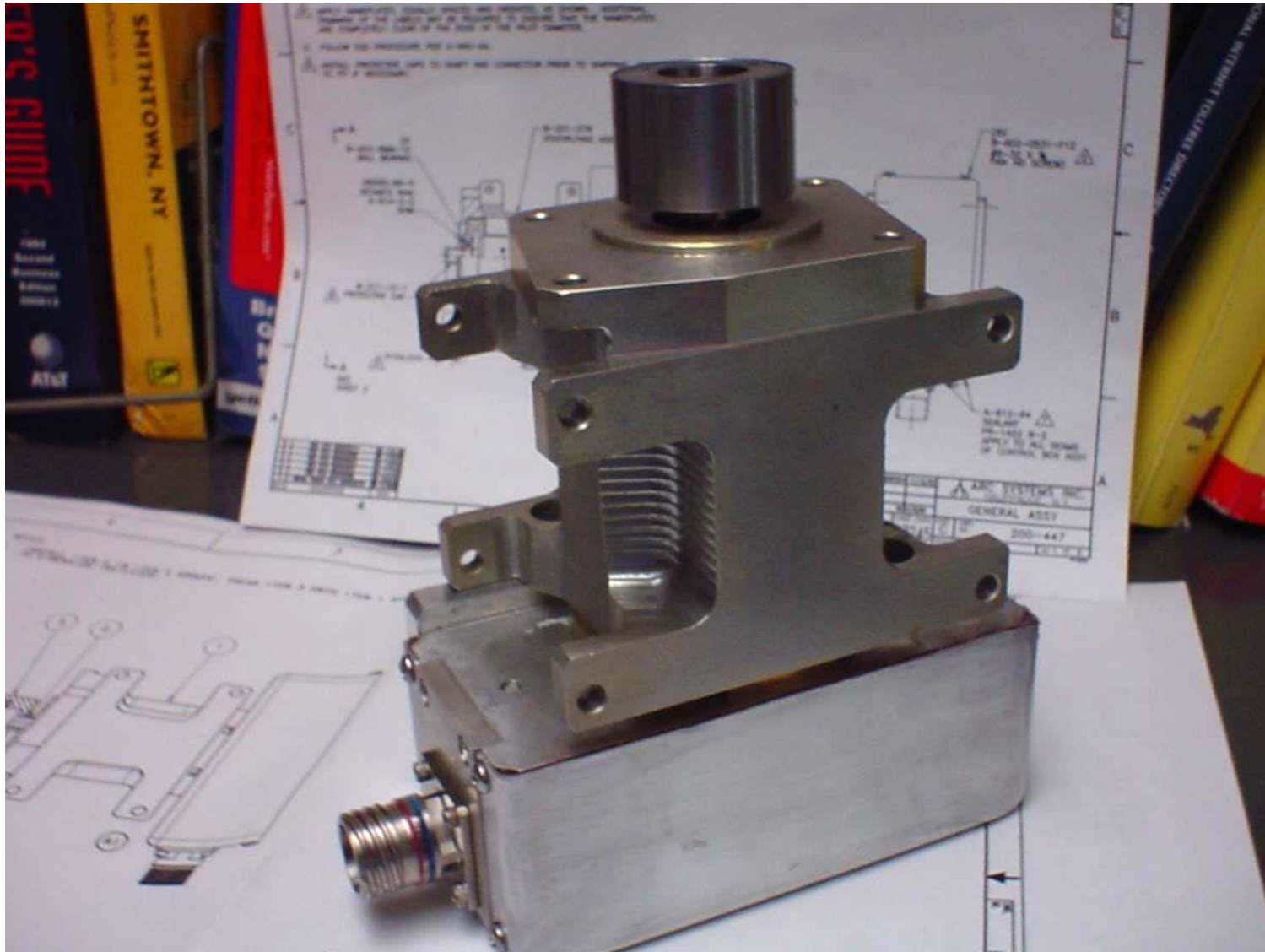
- Copper
- Solderable
- Polyester-Imide
- Polyester-Amide-Imide
- Polyimide



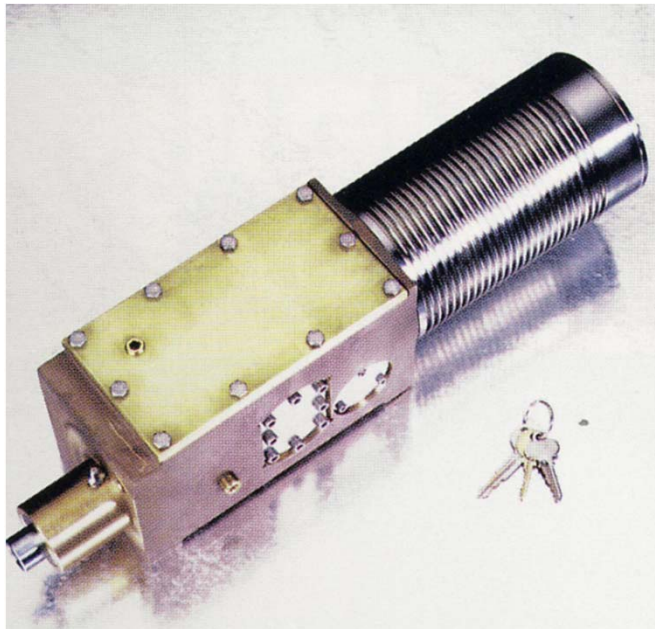
Our engineers interact continuously with our customers from concept through manufacturing. We support our capabilities with a state-of-the-art Computer Aided Design (CAD) system and a proprietary magnetic design program specifically developed at ARC Systems.



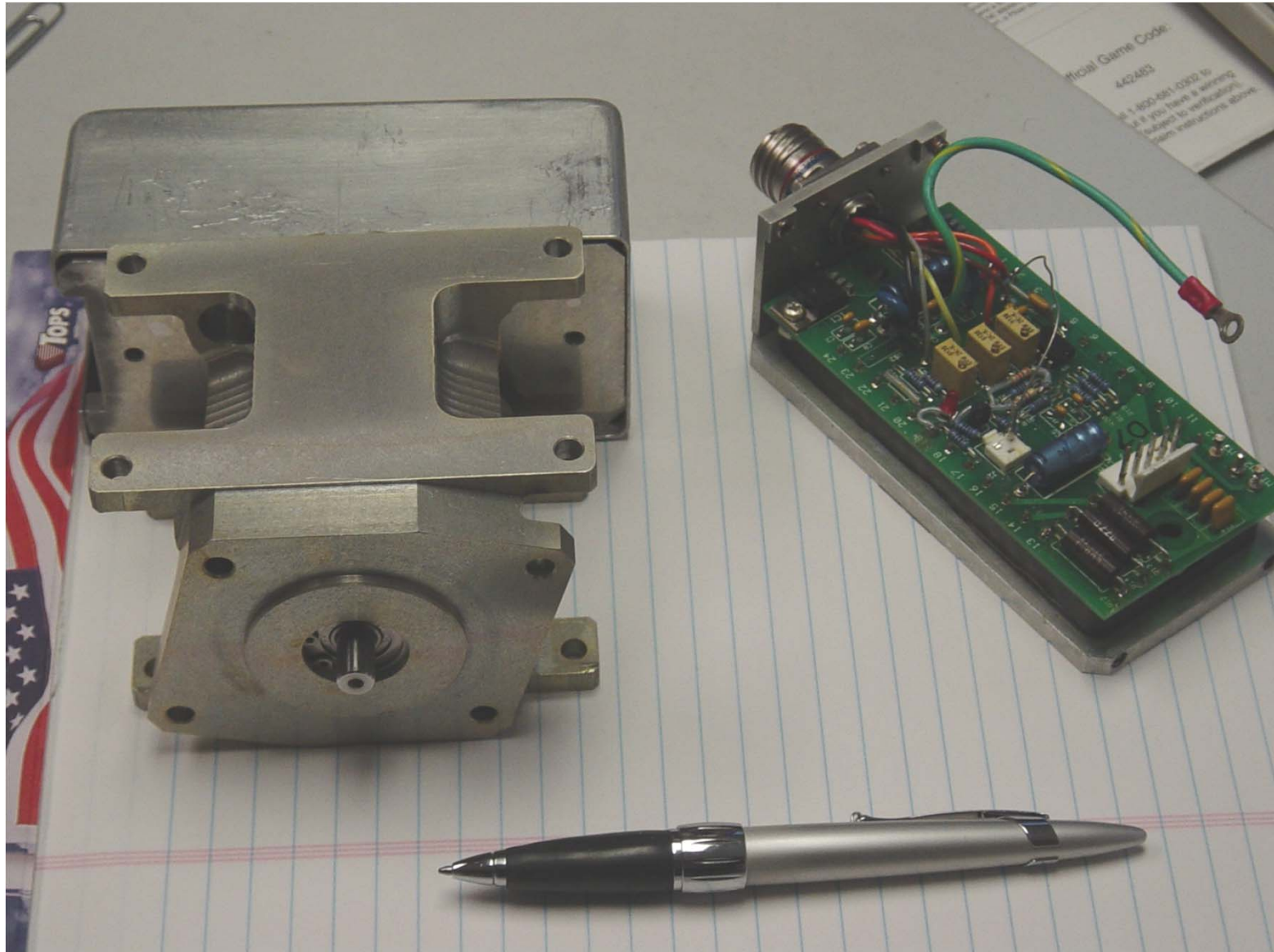
Various applications require unique configurations for output shafts, mounting flanges, housing and electronics packaging.



Our basic package includes the in-line arrangement of motors, tachometers, gear heads, and brakes. ARC can also supply complete electromechanical actuation systems, with or without electronic control.



Electronics available either internal or external to the motor.



Environmental/Temperature Testing available upon request.





Winding Types

- ◆ Skein Wound – Hand Inserted
- ◆ Symmetrical Insertion
- ◆ Wave Insertion
- ◆ Lap Winding
- ◆ Concentric Winding

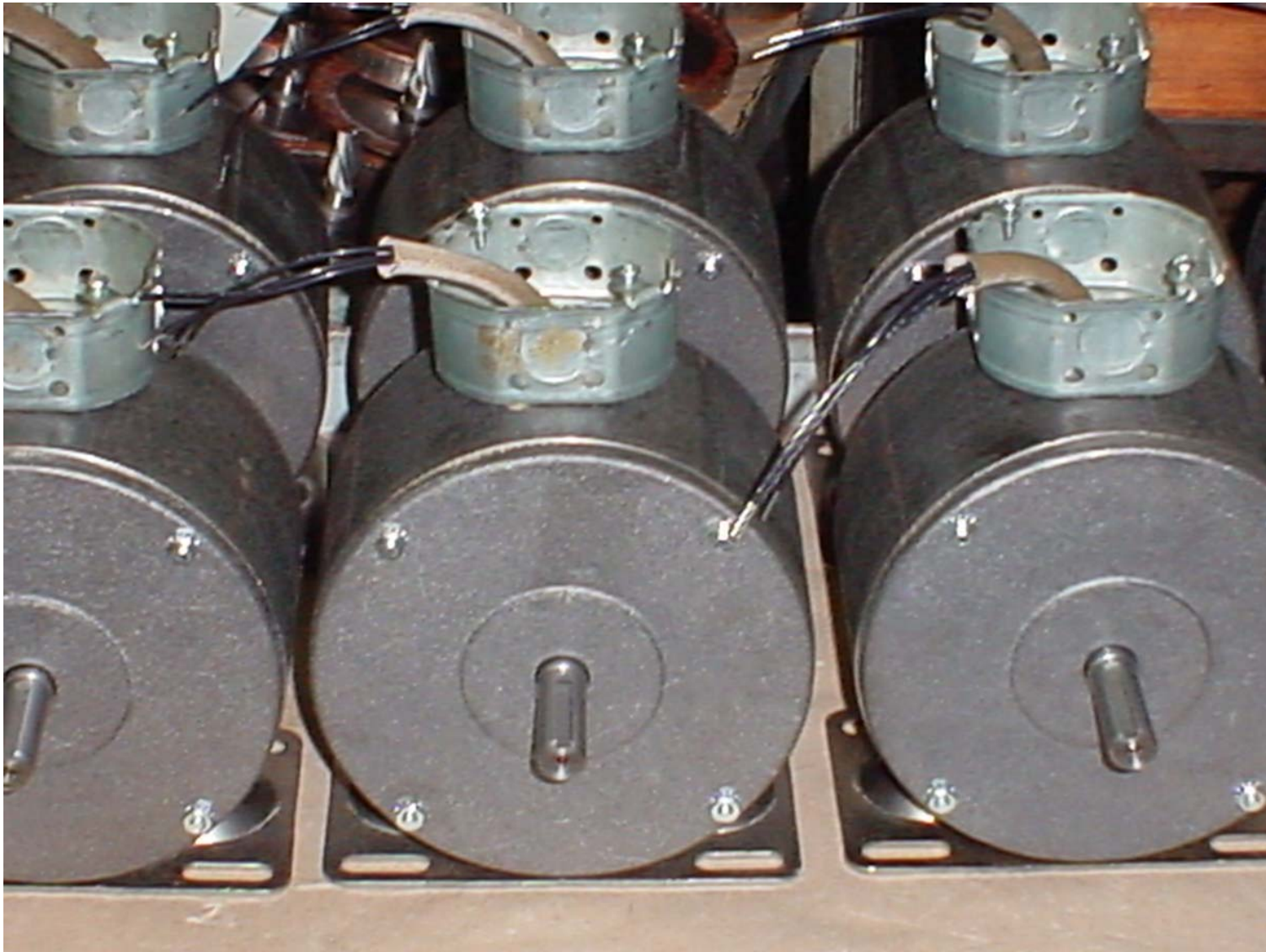
ARC's ability to wind and insert applications where the quantities are not large enough for automatic assembly lines distinguishes us from other companies.

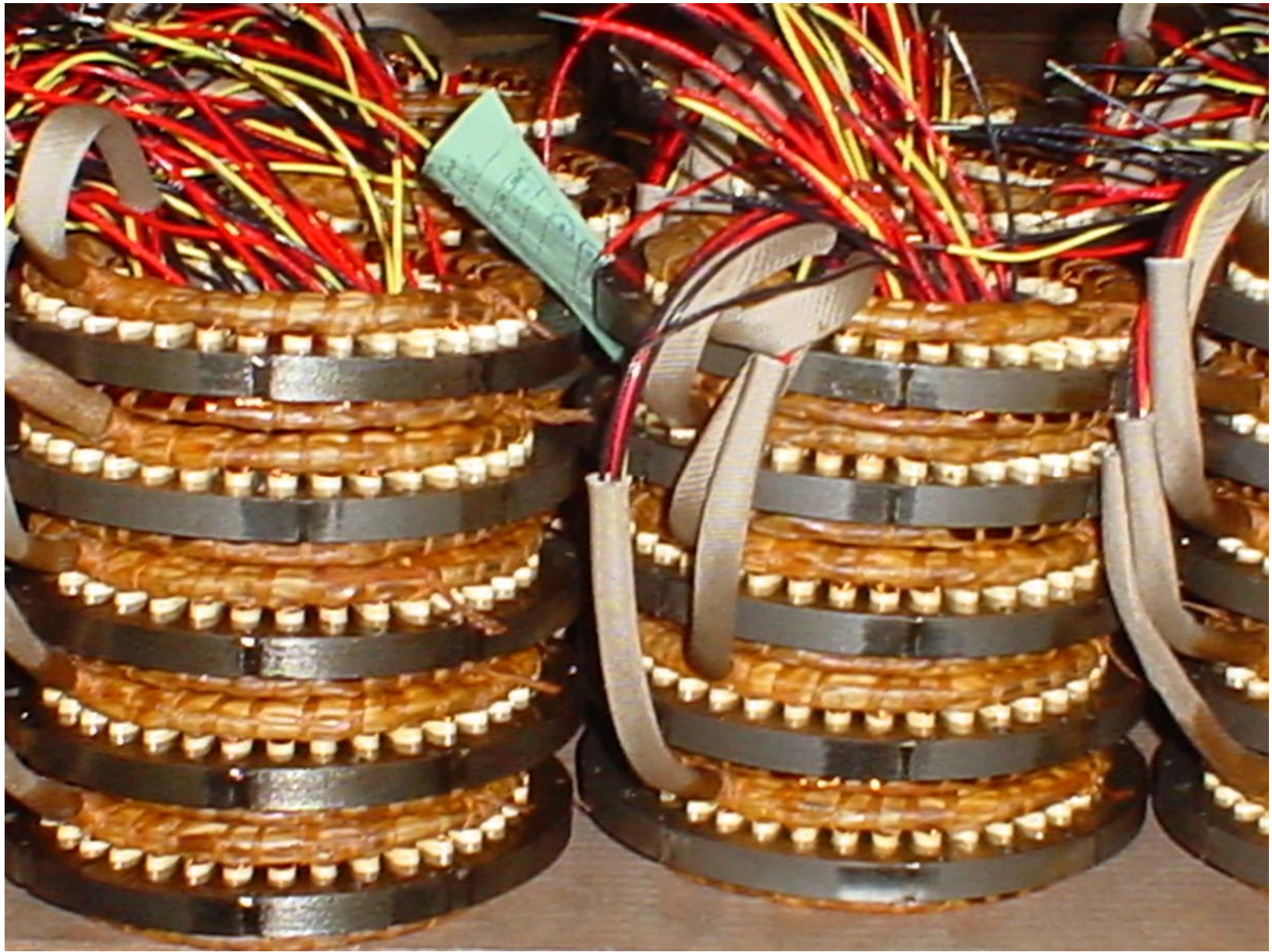


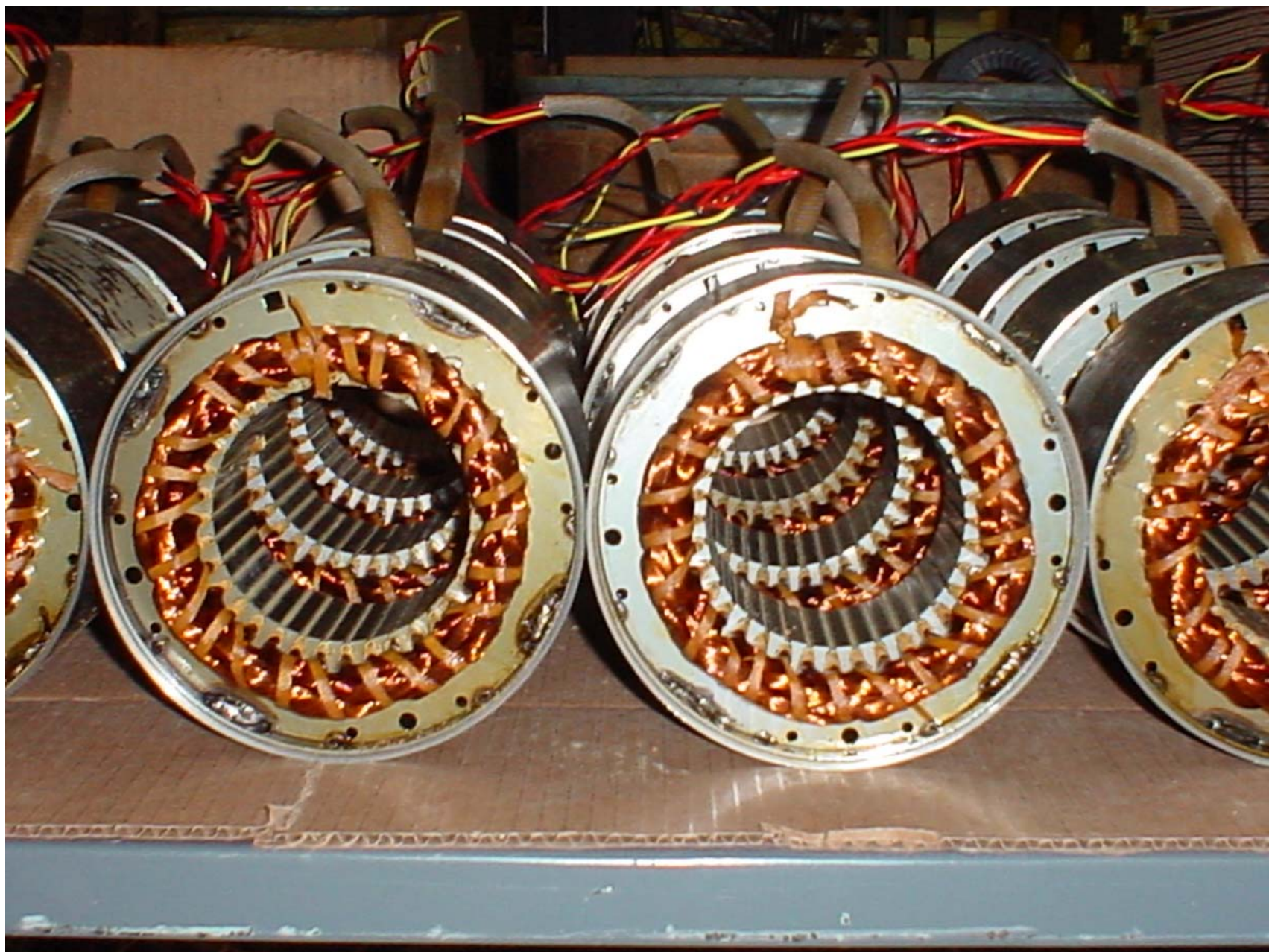
ARC's complete line of Fan Motors are manufactured using Induction Motors.



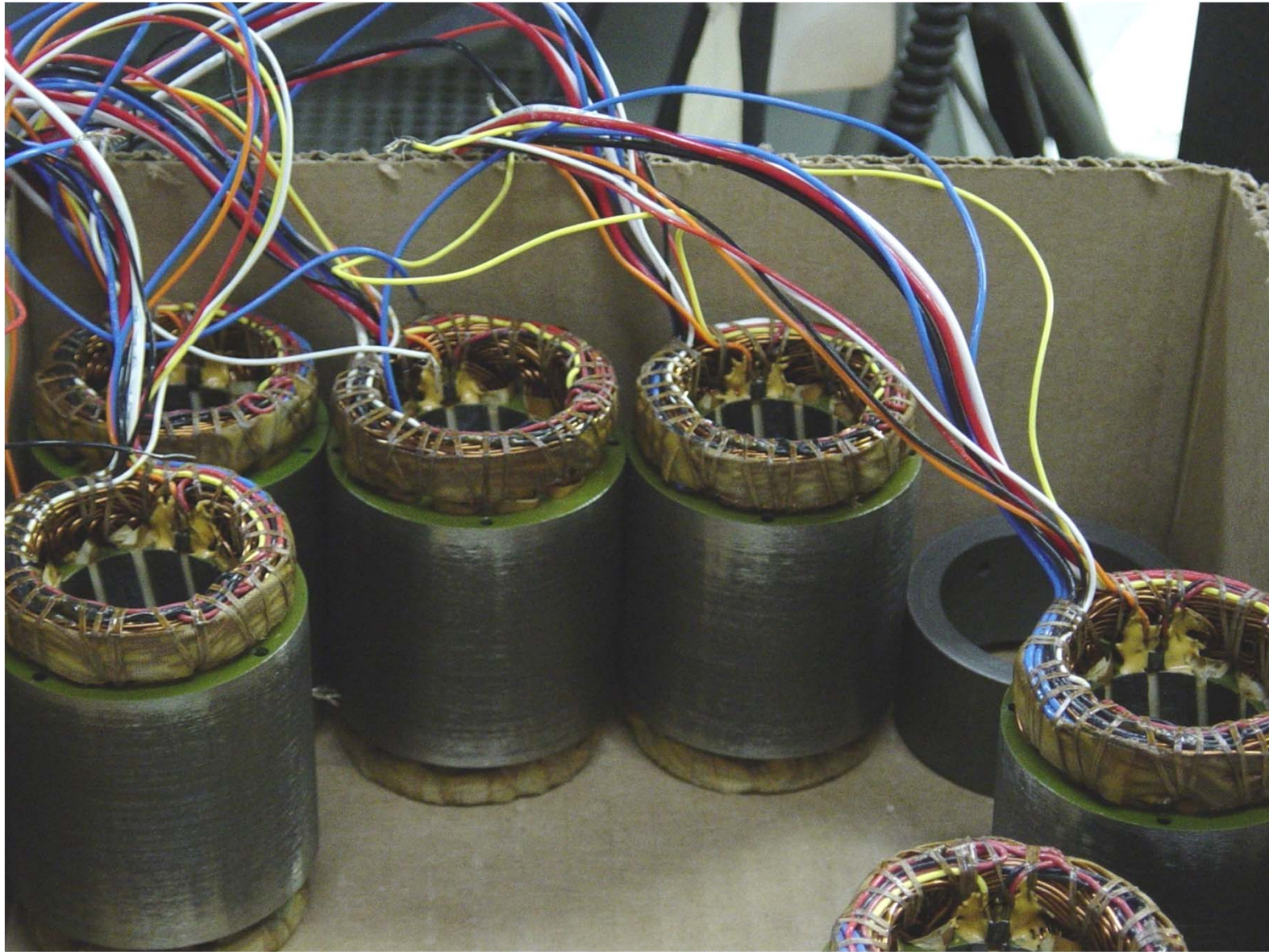
The induction motor derives its name from the fact that AC voltages are induced in the rotor circuit by the rotating magnetic field of the stator.



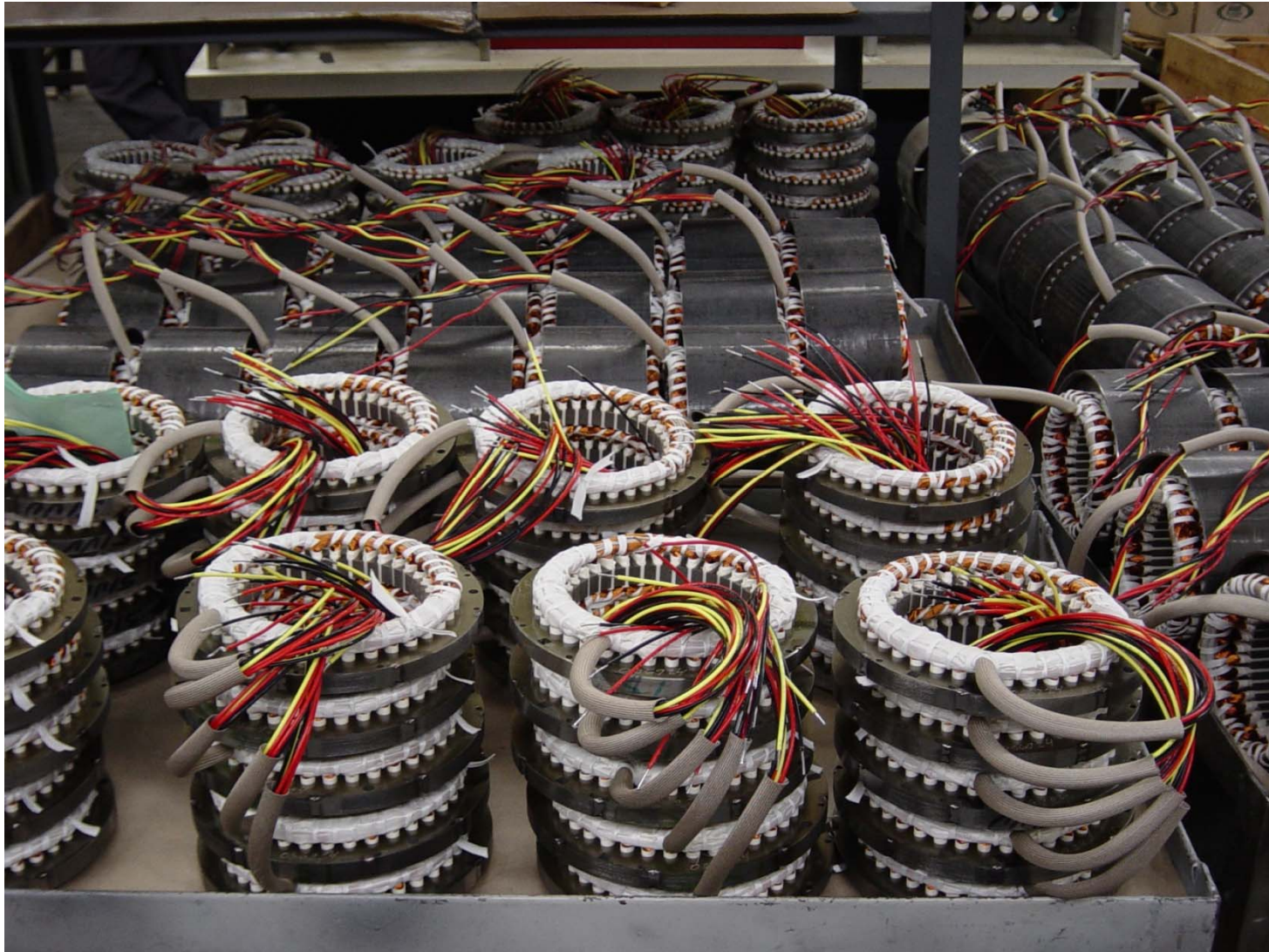




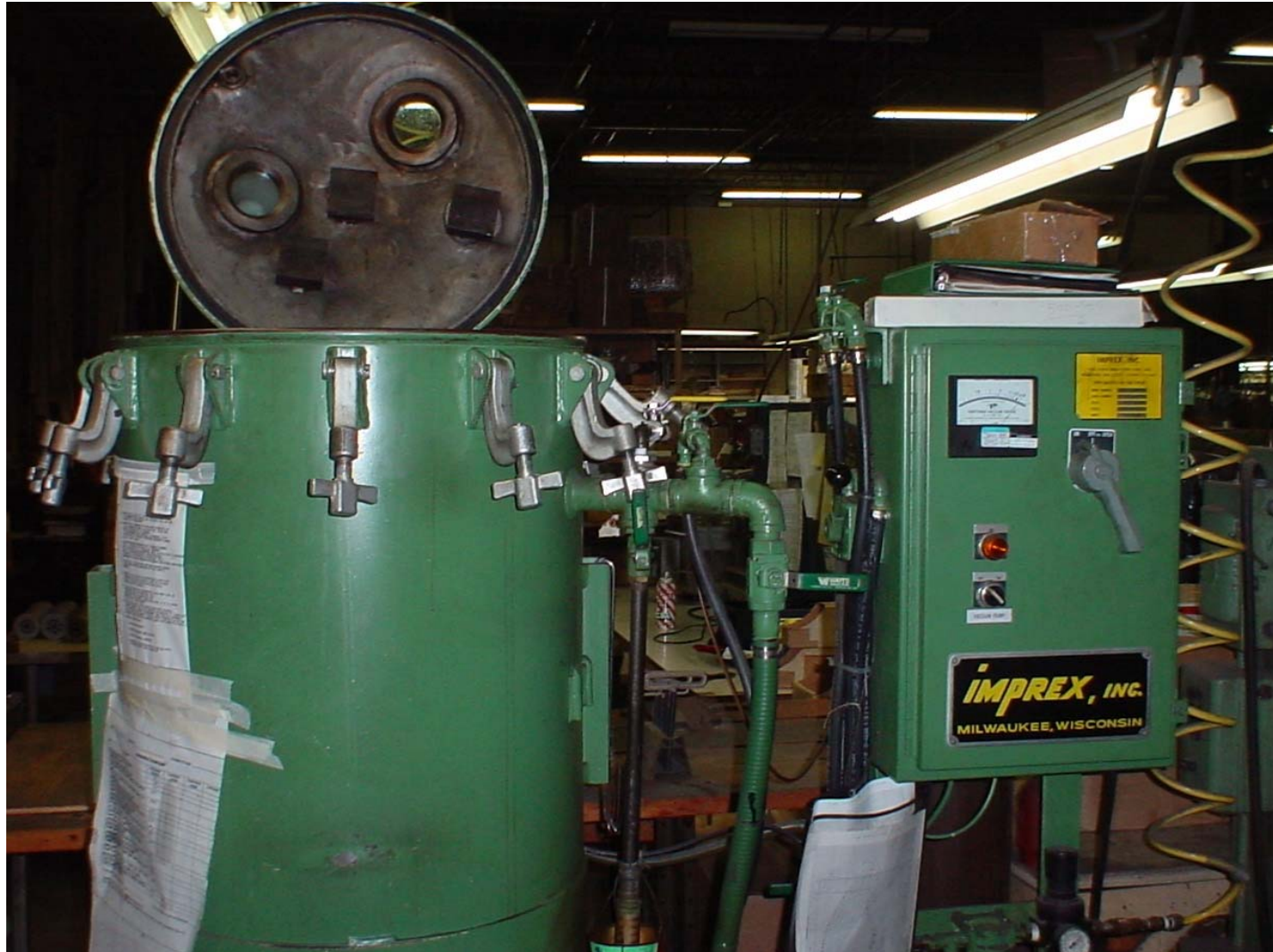
All laminations are stacked utilizing designed stacking tools and fixtures.



ARC Systems, Inc. is truly one of the few remaining, totally integrated, suppliers of specialty custom windings in the electromechanical motor and components industries.

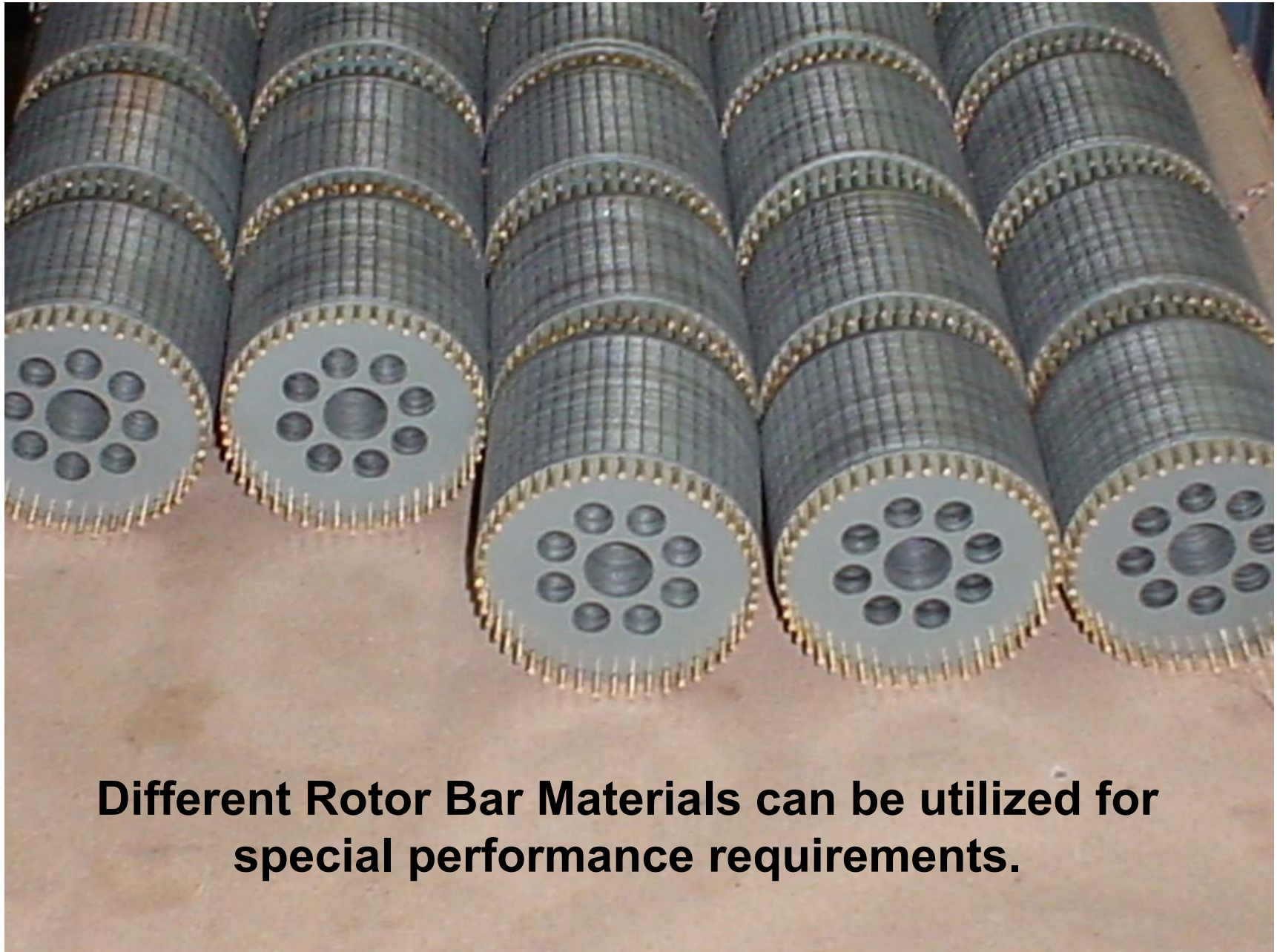


Our internal capabilities, such as vacuum impregnation, precision bonding of aerospace laminations, multi-helix angle skewing capabilities, and powder coating, provide low cost solutions for our customers.



Squirrel cage rotor utilizing copper bars are made at ARC





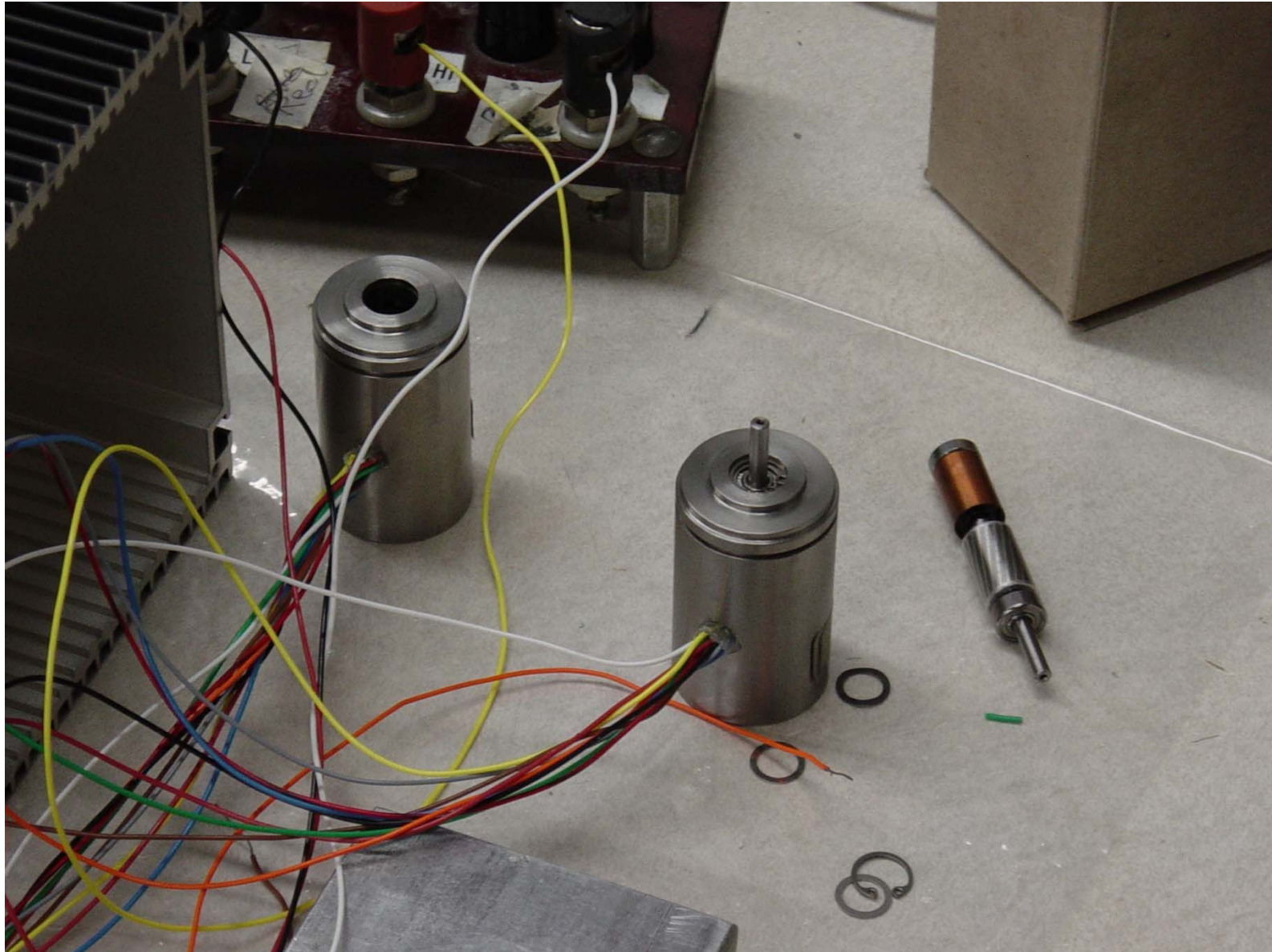
Different Rotor Bar Materials can be utilized for special performance requirements.

Speed and torque can be tailored to individual requirements by changing the conductivity of the rotor bars.



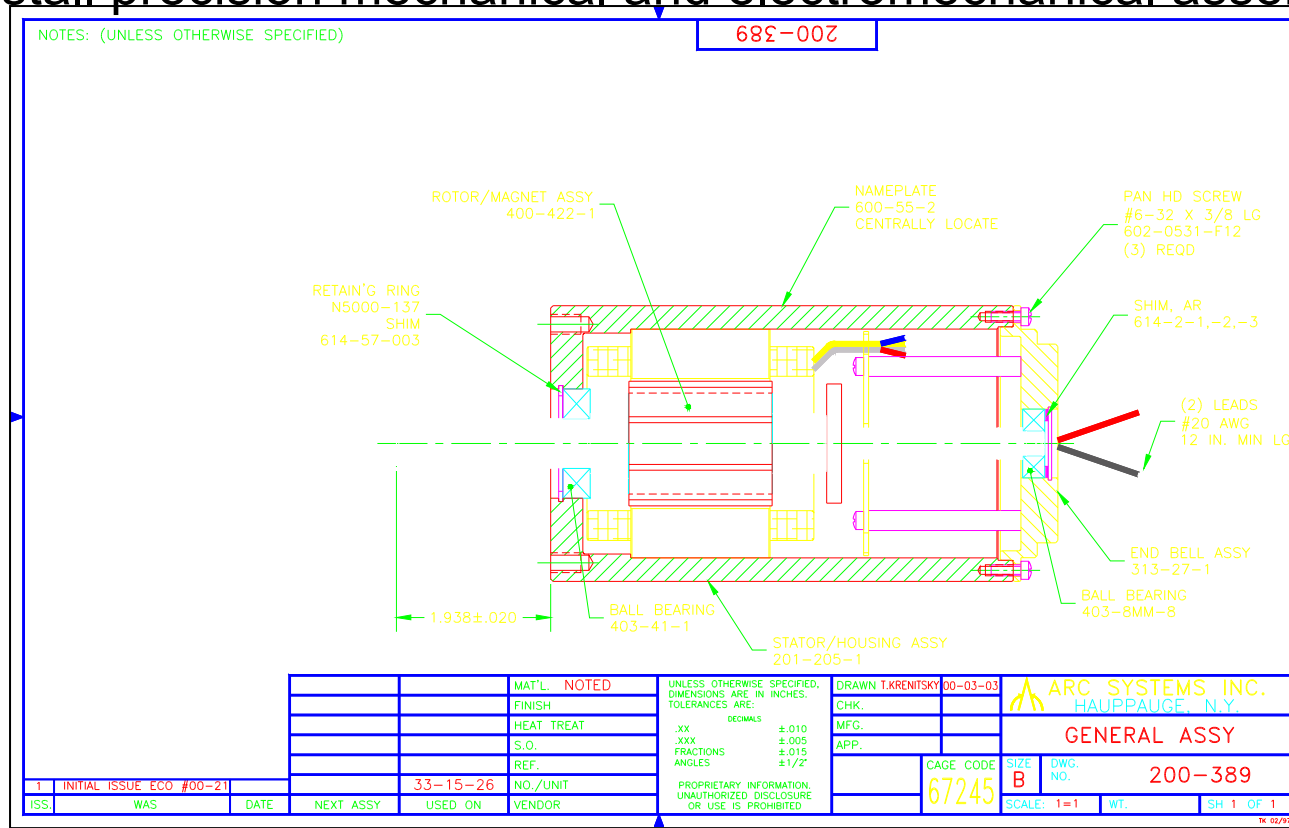


Our engineering and manufacturing experiences enable us to respond quickly and reliably to any design specification.

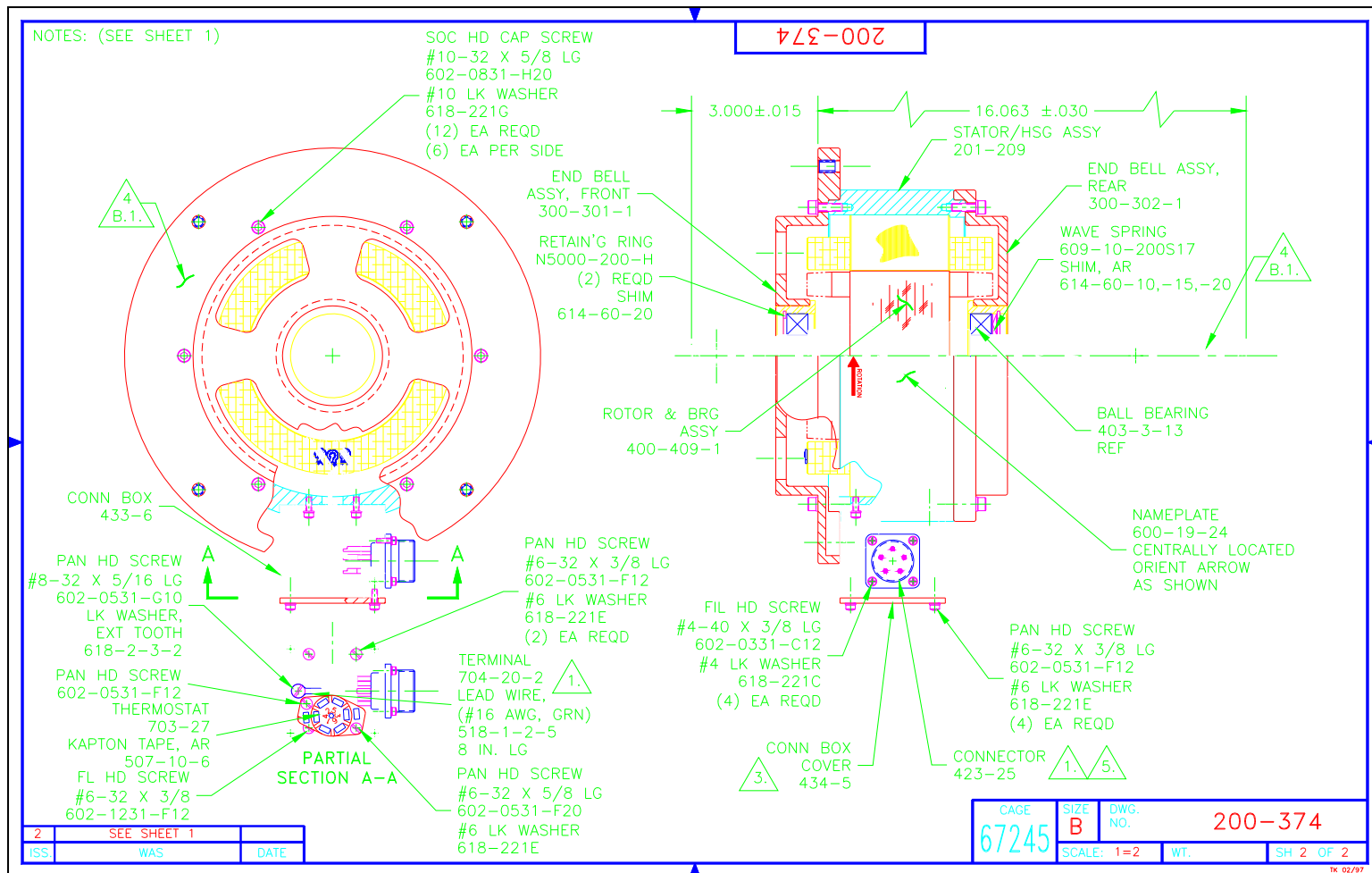


We can provide equipment built to existing drawings or by working concurrently with your engineers, we can provide custom design products to your specification. Let us be your contract manufacturer for aerospace actuators, assemblies, and motion control components.

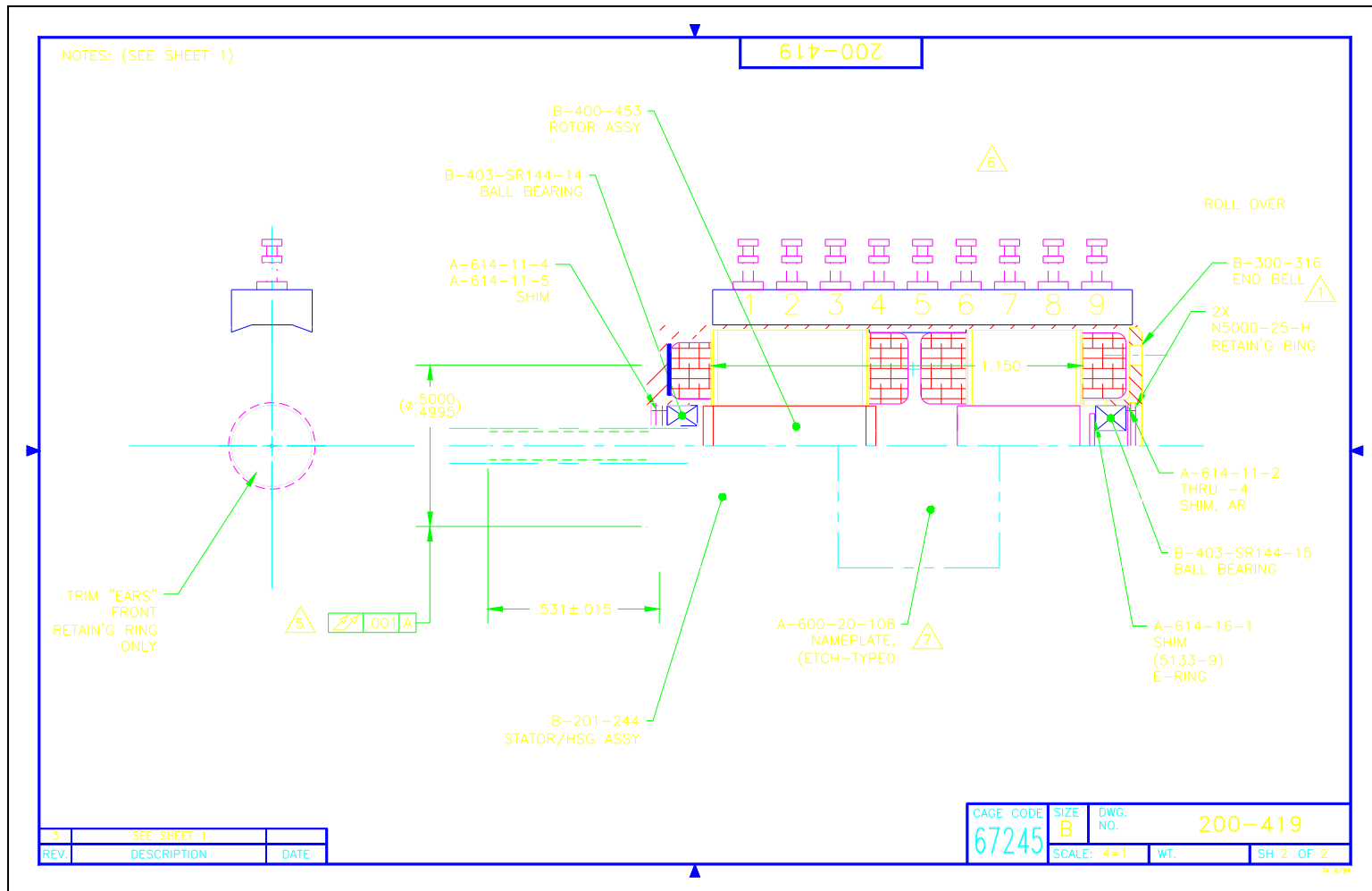
Build to print offers our customers assembled, fully tested, and ready-to-install precision mechanical and electromechanical assemblies.



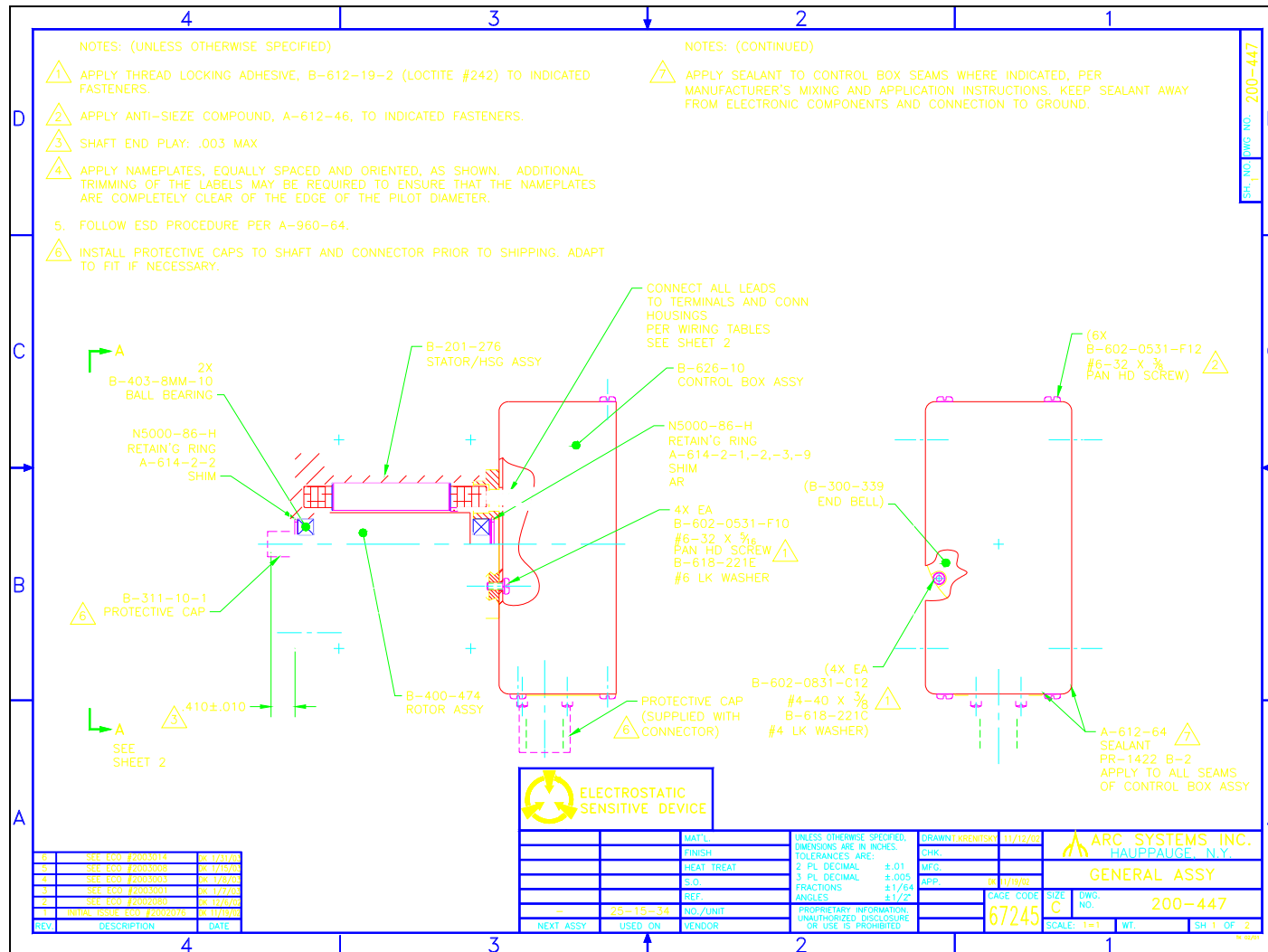
ARC Systems, Inc. provides excellent customer service by designing, manufacturing, and shipping the products ourselves, rather than relying on a distributor.



ARC Systems, Inc. offers exceptionally adaptable designs.
Our standard line is from 0.75" diameter (size 8) to 2.25"
diameter (size 23).



Our engineers interact continuously with our customers from concept through manufacturing. We support our capabilities with a state-of-the-art Computer Aided Design (CAD) system and a proprietary magnetic design program that was specifically developed at ARC Systems.



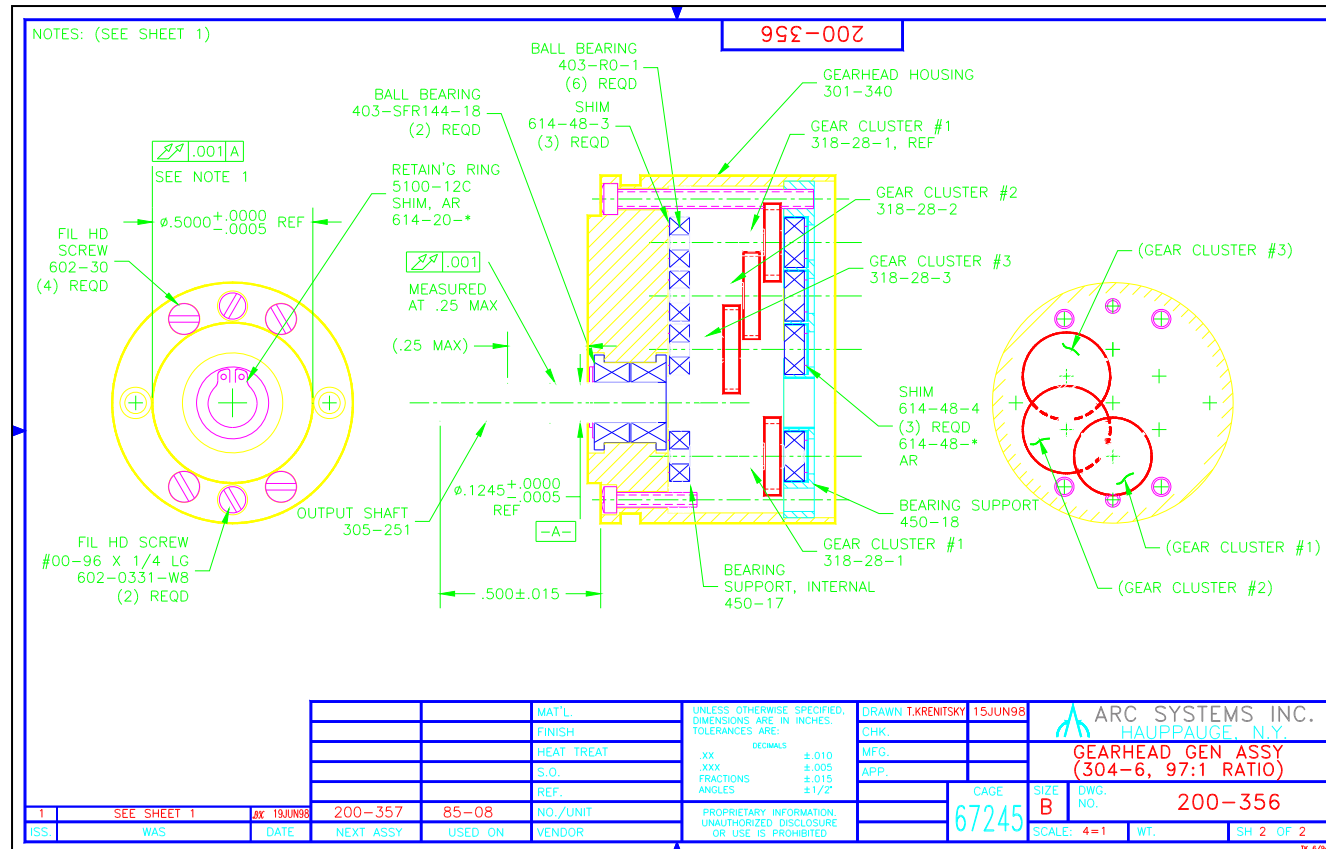
Right-Angle Drives

Spur and Planetary Gear Drives

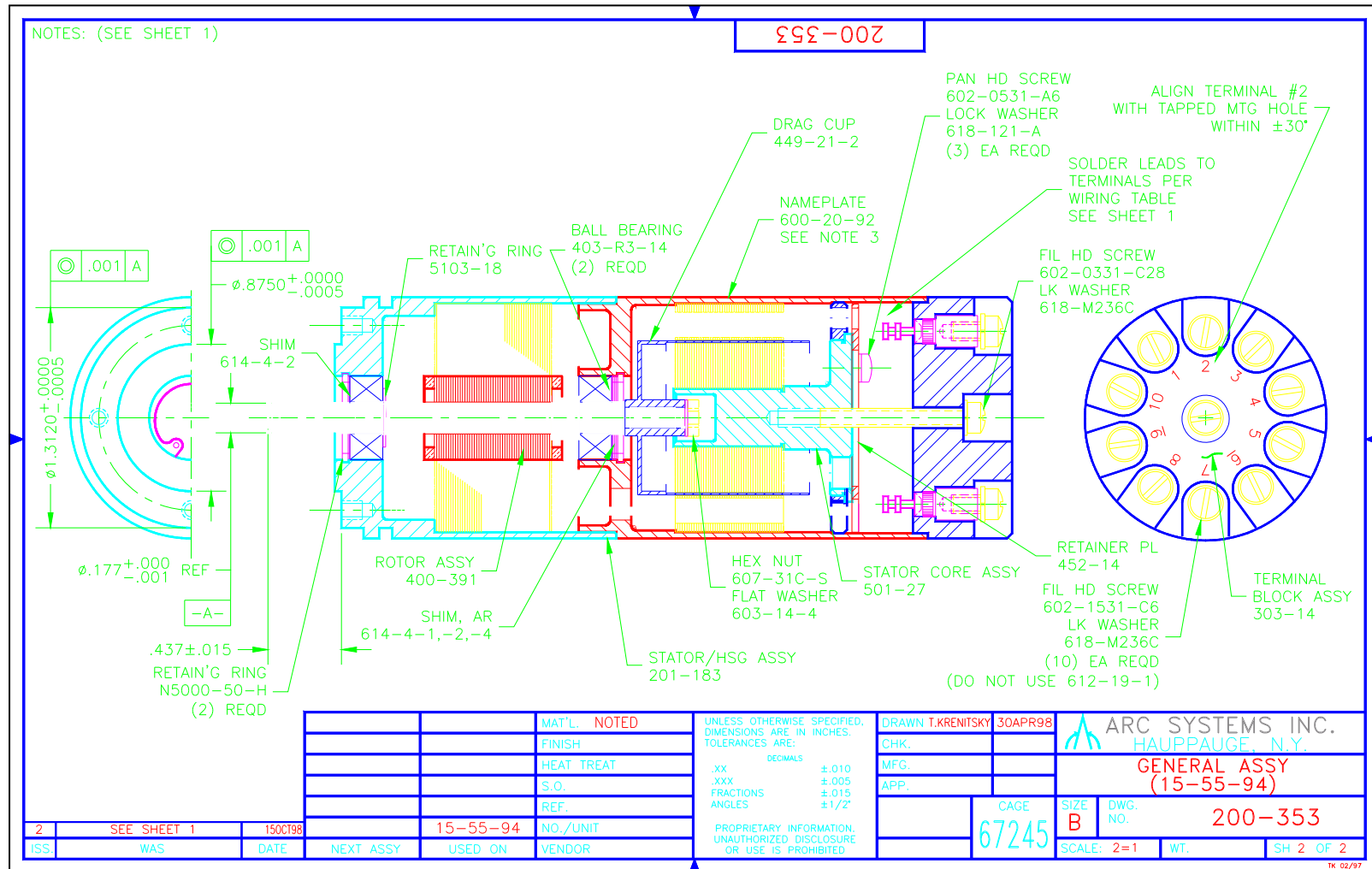
Worm and Bevel Gear Systems

Ball Screw Systems

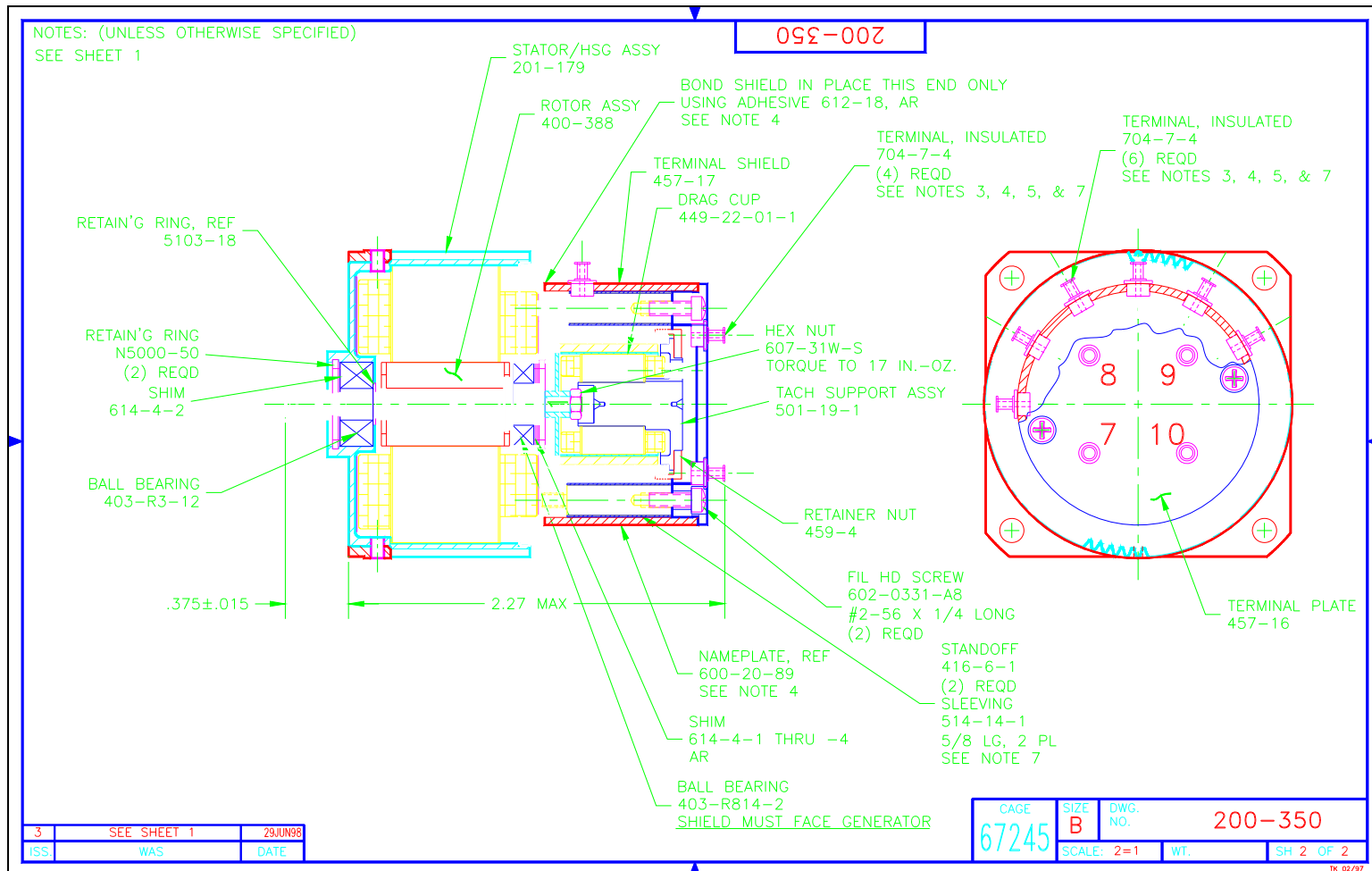
Lead Screws Systems



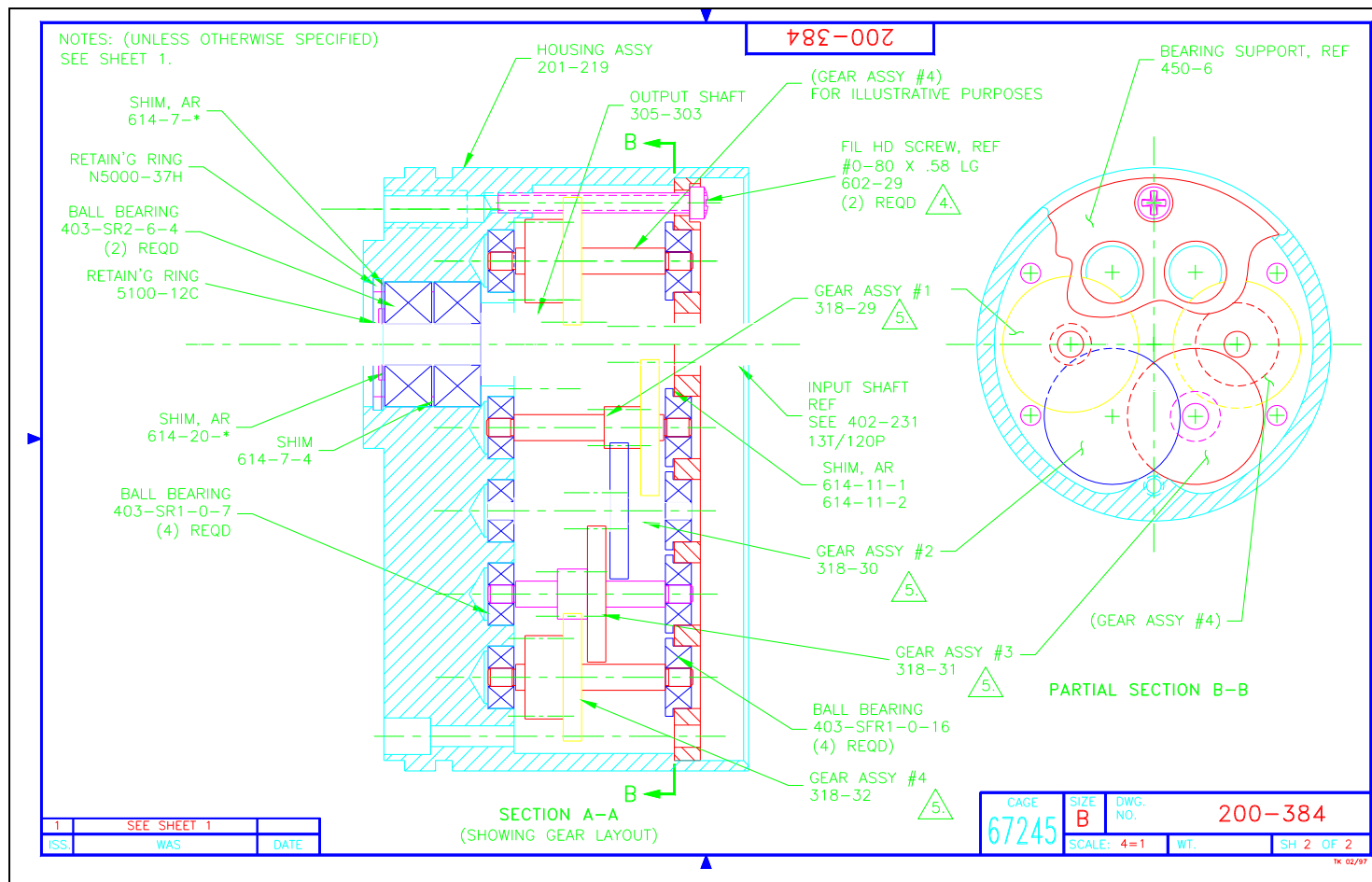
ARC's basic package includes the in-line arrangement of motors, tachometers, gear heads, and brakes. ARC also supplies complete electromechanical actuation systems, with or without electronic control.



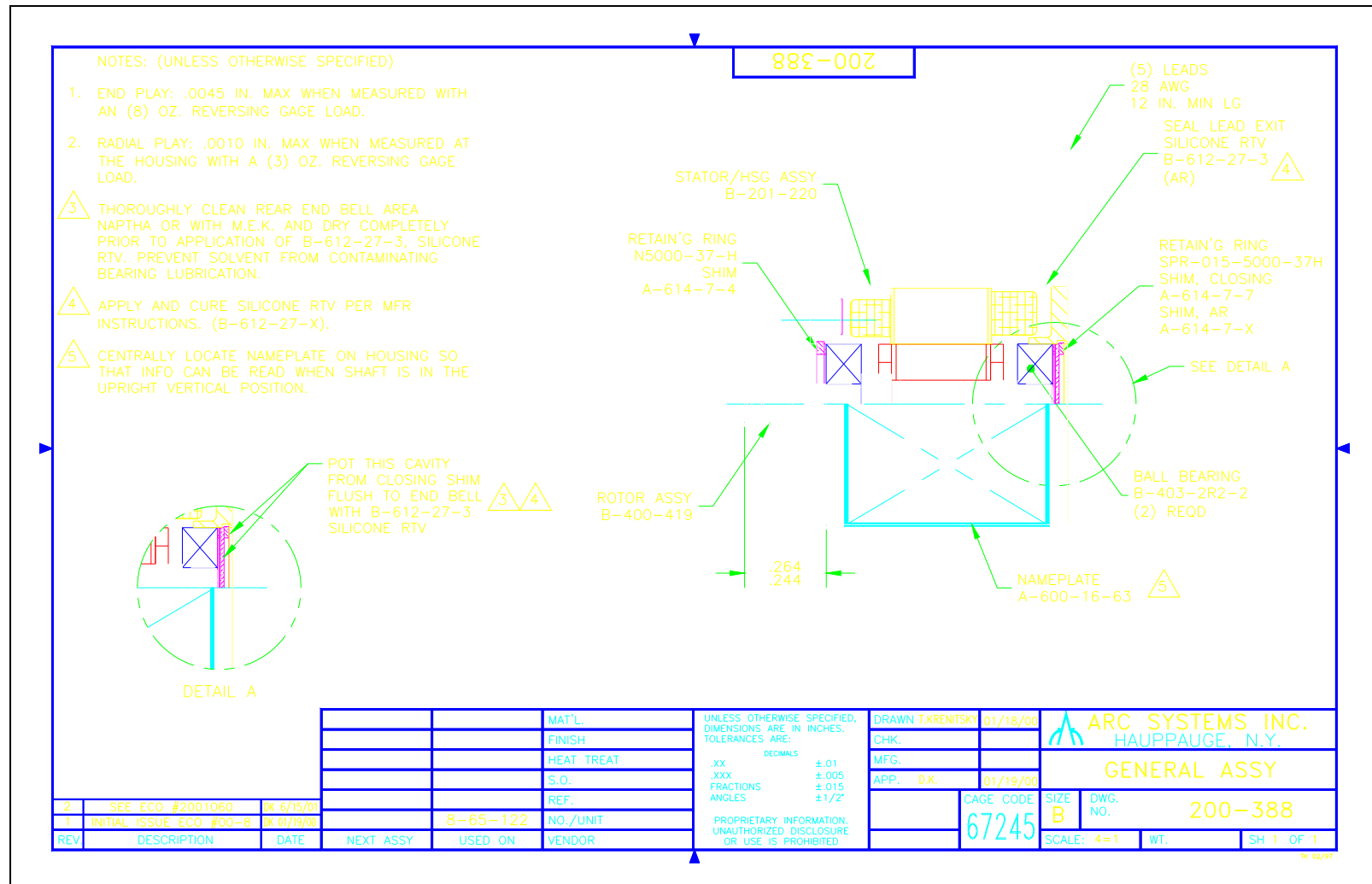
By selecting optional features, performance is tailored to the requirements of our customers.



ARC Systems, Inc. provides the complete support you need in today's competitive environment, from initial engineering development through after market. Contact ARC to assist you in your electromechanical motion control evolution.

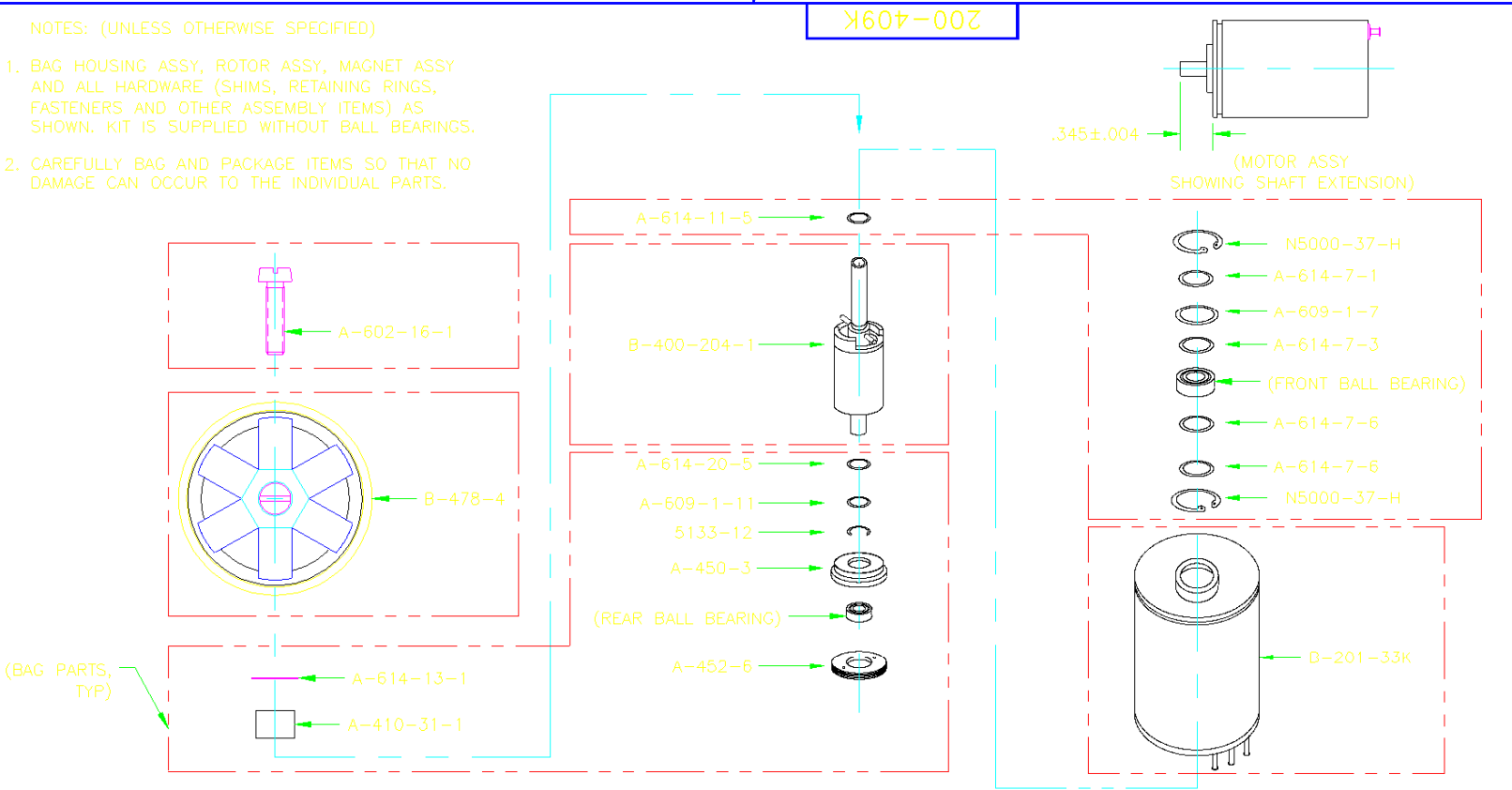



ARC Systems, Inc. complete line of AC Servo Motors are designed to meet the requirements of MIL-S-22432 and SAE ARP-497. These two phase AC Servo Motors range from sizes 8 to 23.



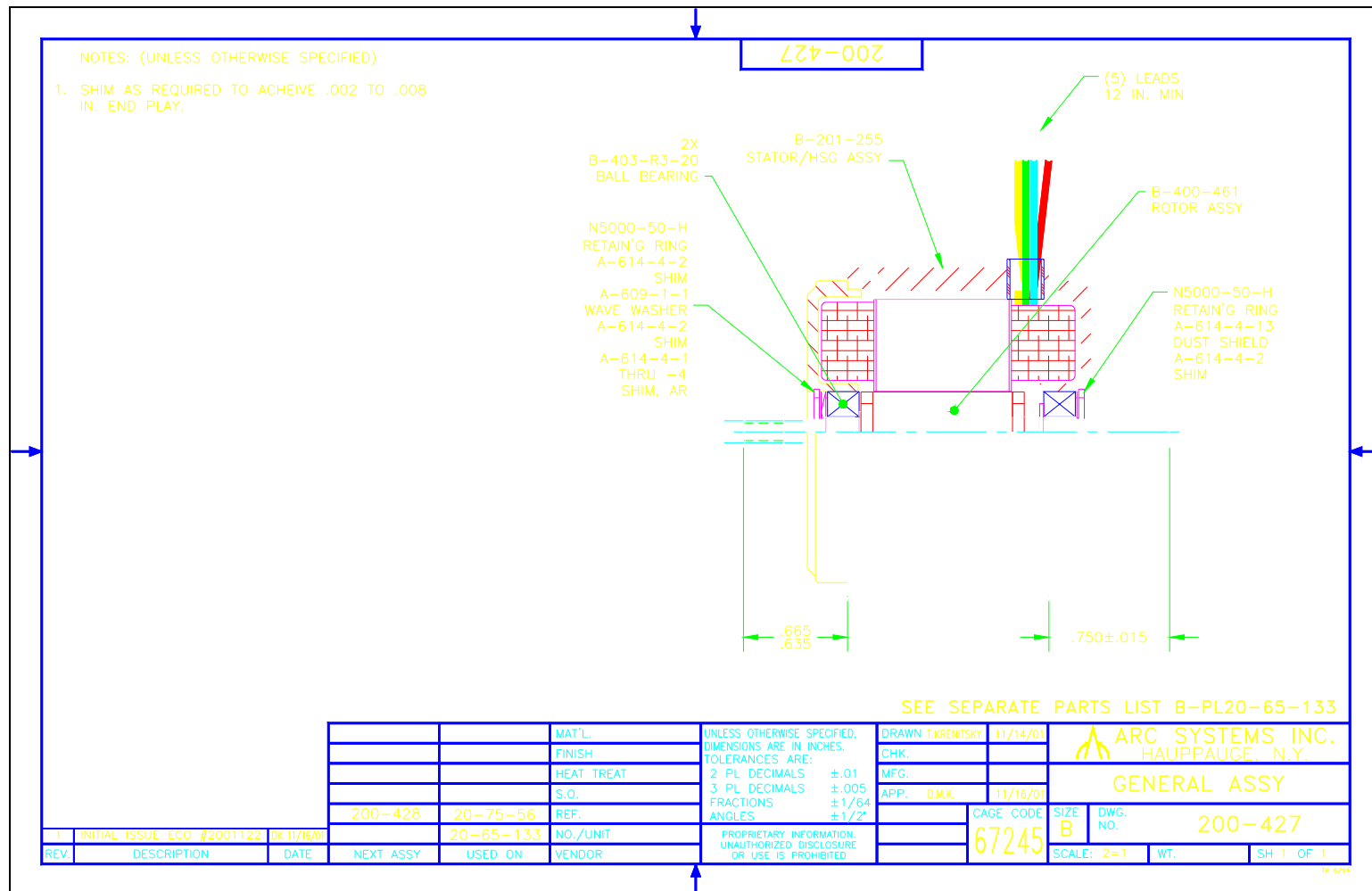
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BAG HOUSING ASSY, ROTOR ASSY, MAGNET ASSY AND ALL HARDWARE (SHIMS, RETAINING RINGS, FASTENERS AND OTHER ASSEMBLY ITEMS) AS SHOWN. KIT IS SUPPLIED WITHOUT BALL BEARINGS.
2. CAREFULLY BAG AND PACKAGE ITEMS SO THAT NO DAMAGE CAN OCCUR TO THE INDIVIDUAL PARTS.



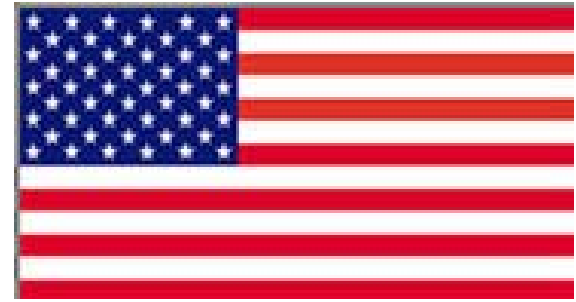
					MAT'L		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		DRAWN T.K.		9/26/01		 ARC SYSTEMS INC. HAUPPAUGE, N.Y.		
					FINISH		DECIMALS .010		CHK.				ASSEMBLY KIT		
					HEAT TREAT		.XXX .005		MFG.						
					S.O.		FRACTIONS ±.015		APP. D.K.		9/28/01				
					REF.		ANGLES ±1/2"								
1 INITIAL ISSUE ECO #2001106 DK 9/28/01			-		46-01K		NO./UNIT		CAGE		SIZE B		DWG. NO. 200-409K		
REV. DESCRIPTION DATE			NEXT ASSY		USED ON		VENDOR		67245		SCALE: NONE		WT.		
PROPRIETARY INFORMATION. UNAUTHORIZED DISCLOSURE OR USE IS PROHIBITED.											SH 1 OF 1				

These miniature squirrel cage motors operate at 60 Hz. or 400 Hz. and are available in 2, 4, 6, 8, and 12 pole designs. Custom units that operate at other frequencies are available.



**WHEN IT'S GOT TO BE RIGHT THE FIRST TIME....
CALL ARC SYSTEMS, INC.**





We are ISO 9001:2015 and AS9100D certified, and our ISO/AS procedures apply to all aspects of our organization. These procedures ensure that complete control is retained. We are committed to providing our customers with Reliable, High-Quality Products, and service. We would be happy to discuss your needs at your convenience.

AVAILABLE DESIGNS

- Induction Motors (Framed and Frameless)
- Single Phase Motors
- Three Phase Motors
- Servo Motors
- Brushless DC Motors
- Motor Gear Heads
- Winding Assemblies
- Kit Motors
- Fractional Horsepower Motors
- Hysteresis Synchronous Motors
- Actuators
- Motor Tachometer Generators
- Gears, Sprockets and Shafts
- Gear Assemblies and Timing Pulleys
- Brakes and Solenoids

For more information and application assistance contact D. Kirk in our Engineering Department at: dkirkarc@optonline.net

ARC Systems, Inc.

ISO 9001:2015 and AS9100D Certified

2090 Joshuas Path ♦ Hauppauge, NY 11788 ♦ Tel: 631-582-8020 ♦ Fax: 631-582-8038

Website: www.arcsystemsinc.com