

**ISO 9001:2015/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, President

Perry Johnson Registrars, Inc. (PJR)  
755 West Big Beaver Road, Suite 1340  
Troy, Michigan 48084  
(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. was founded in 1967 to provide the aerospace industry with a dependable source for high-precision motor 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 40 years of experience in customized manufacturing for the following industries:

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



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

We are proud of our history of supplying HIGH QUALITY motion control components and rotor assemblies to our Customers. Our philosophy is based on a trained staff supported by a qualified dedicated Quality Team. ALL of our Team Members are COMMITTED to CUSTOMER SATISFACTION. Our continued ability to supply products to our customers on time is a testimony to the quality and service we provide, which is the foundation of ARC Systems, Inc. philosophy.

We can provide:

- Cast Aluminum Rotors**
- Copper Bar Rotor Cores**
- Rotor Shaft Assemblies**
- Rotor Shaft and Bearing OD Precision Grinding**
- Rotor Balancing**

**FINAL INSPECTION REPORT**

ARC P/N: 400-545 CUSTOMER: Parker NAD CUSTOMER P/N: F2-146-1 QUANTITY: 3

Serial Number	Part Number	Quantity
0001	0002	0003
1.464-1.466	1.466	1.466
77.002 A-B	001	001
36 X 9 x 11"	Pass	Pass
2 X 0.3743-3753	3746	3746
1.001 A-B	0005	0005
0.3748-3753	0004	0004
1.001 B	0004	0004
1.076 ± 0.05	Pass	Pass
15-17	16.3	16.2
0.4683-4688	466	466
1.001 A	0004	0004
9.05 ± 0.05	Pass	Pass
1.365-1.395	1.378	1.378
2 X 1.20 ± 0.05	1.22	1.23
0.095 ± 0.05	0.02	0.02
0.127 ± 0.05	0.15	0.15
0.063 ± 0.05	0.06	0.06
110 ± 0.05	Pass	Pass

INSPECTED BY: R.P. DATE: 5/30/08

QC39013003

1.464-1.466  
77.002 A-B  
36 X 9 x 11"  
SERIAL 0001

1.464-1.466  
77.002 A-B  
36 X 9 x 11"  
SERIAL 0002

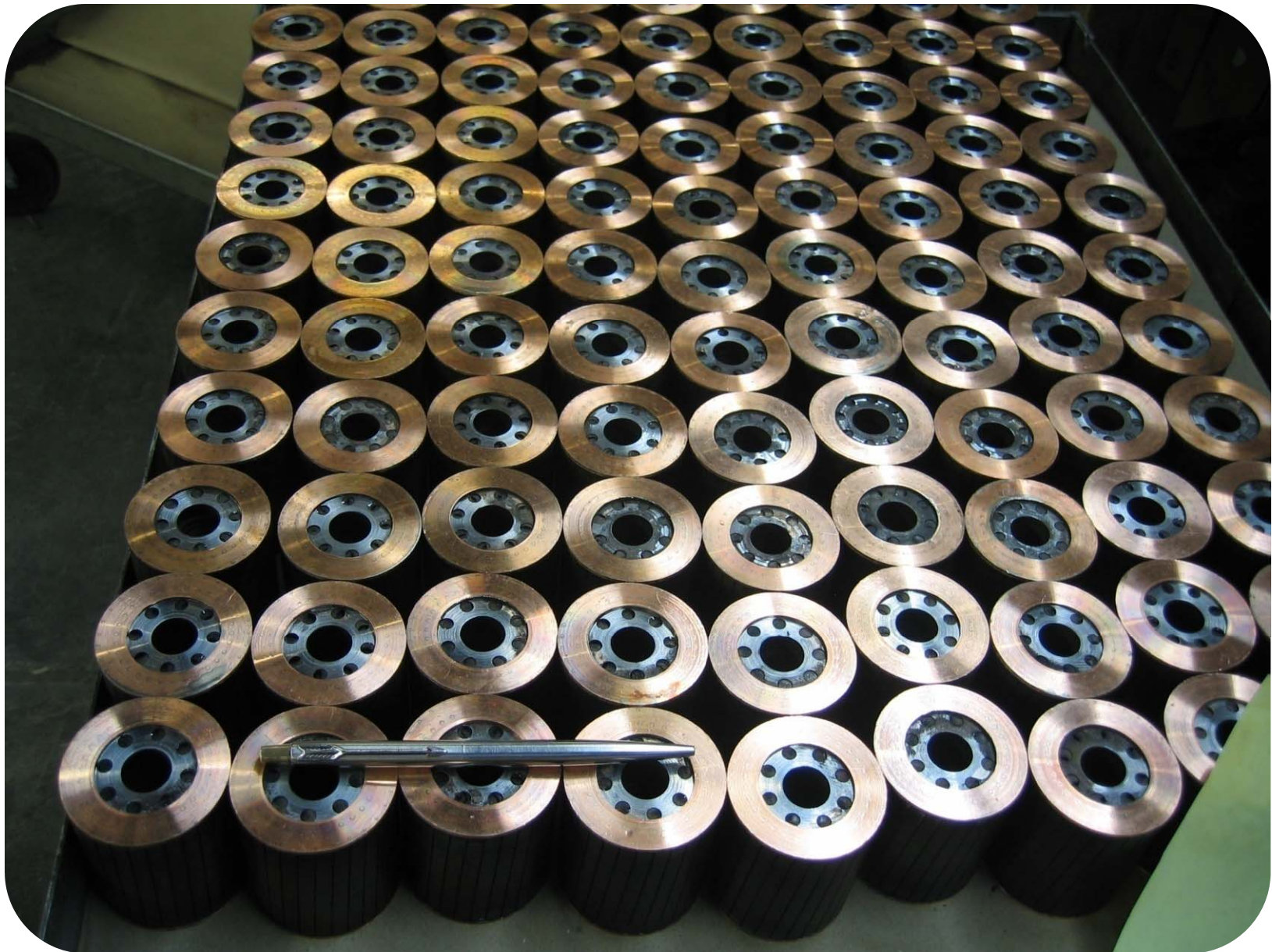
1.464-1.466  
77.002 A-B  
36 X 9 x 11"  
SERIAL 0003



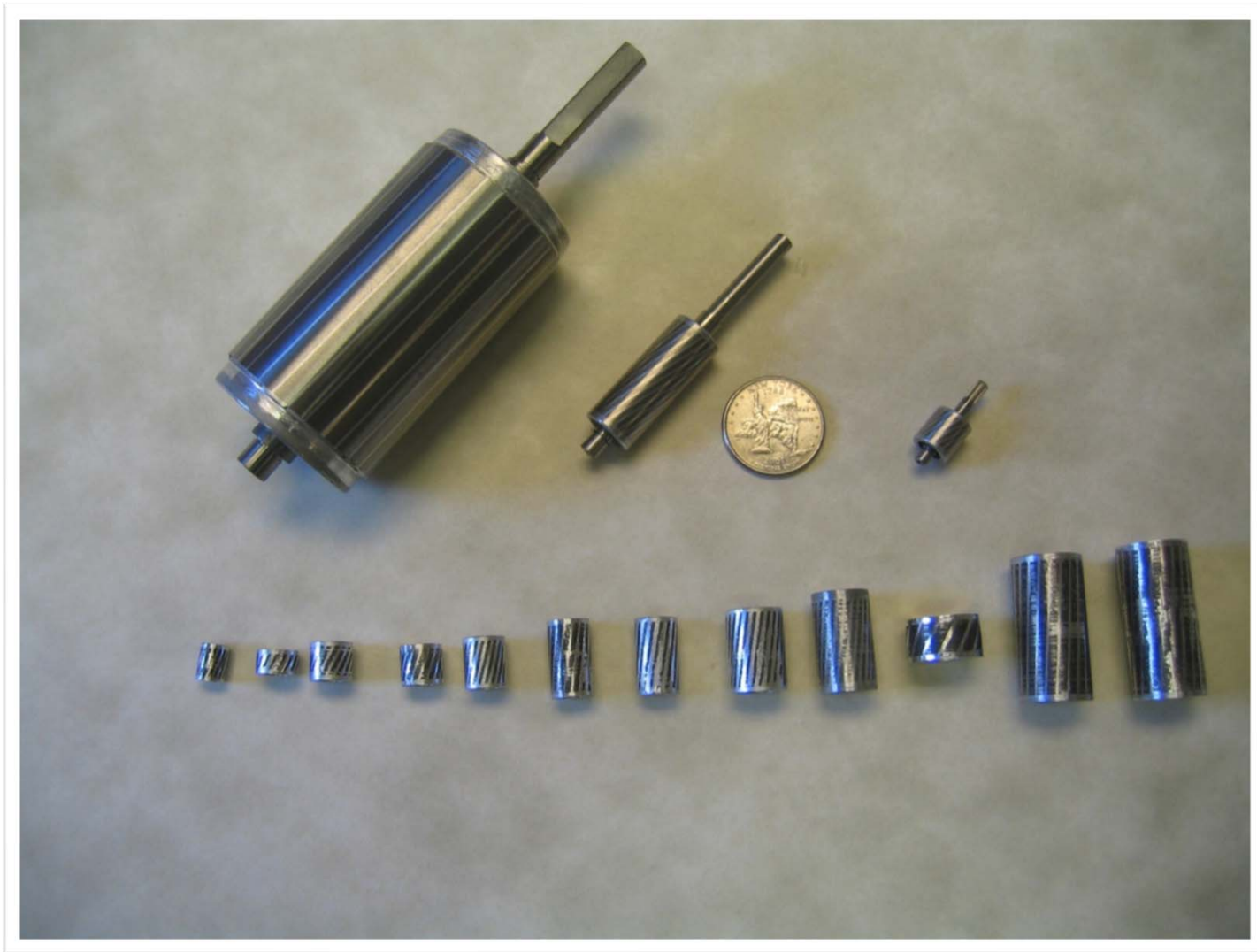








ARC Systems, Inc. offers rotor castings to be assembled on shafts and ground as kits to become an integral part of your assembly.



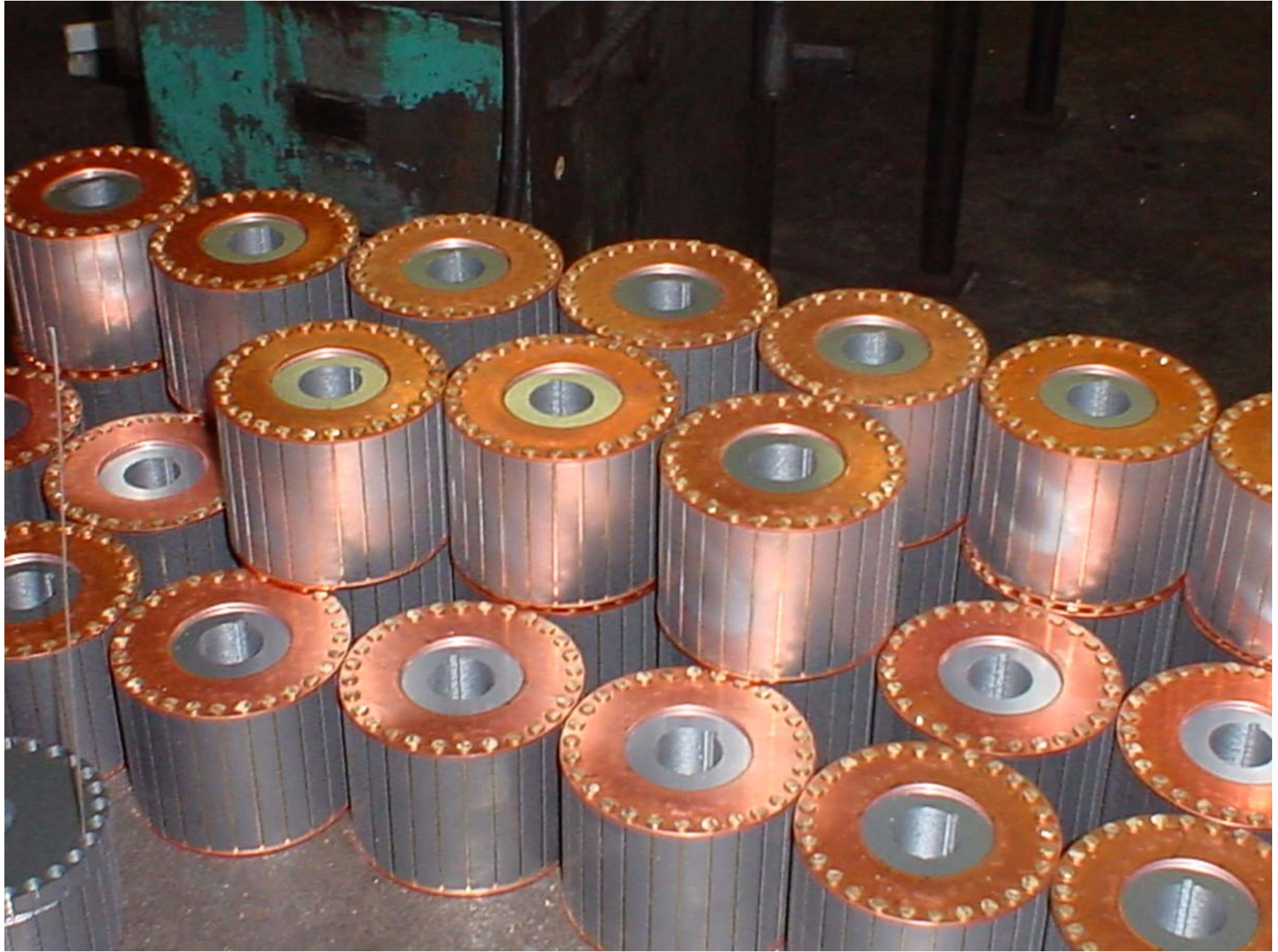


**ARC Systems,  
Inc. is committed  
to being the  
absolute best and  
most  
comprehensive  
source for Motion  
Control  
Components.**





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

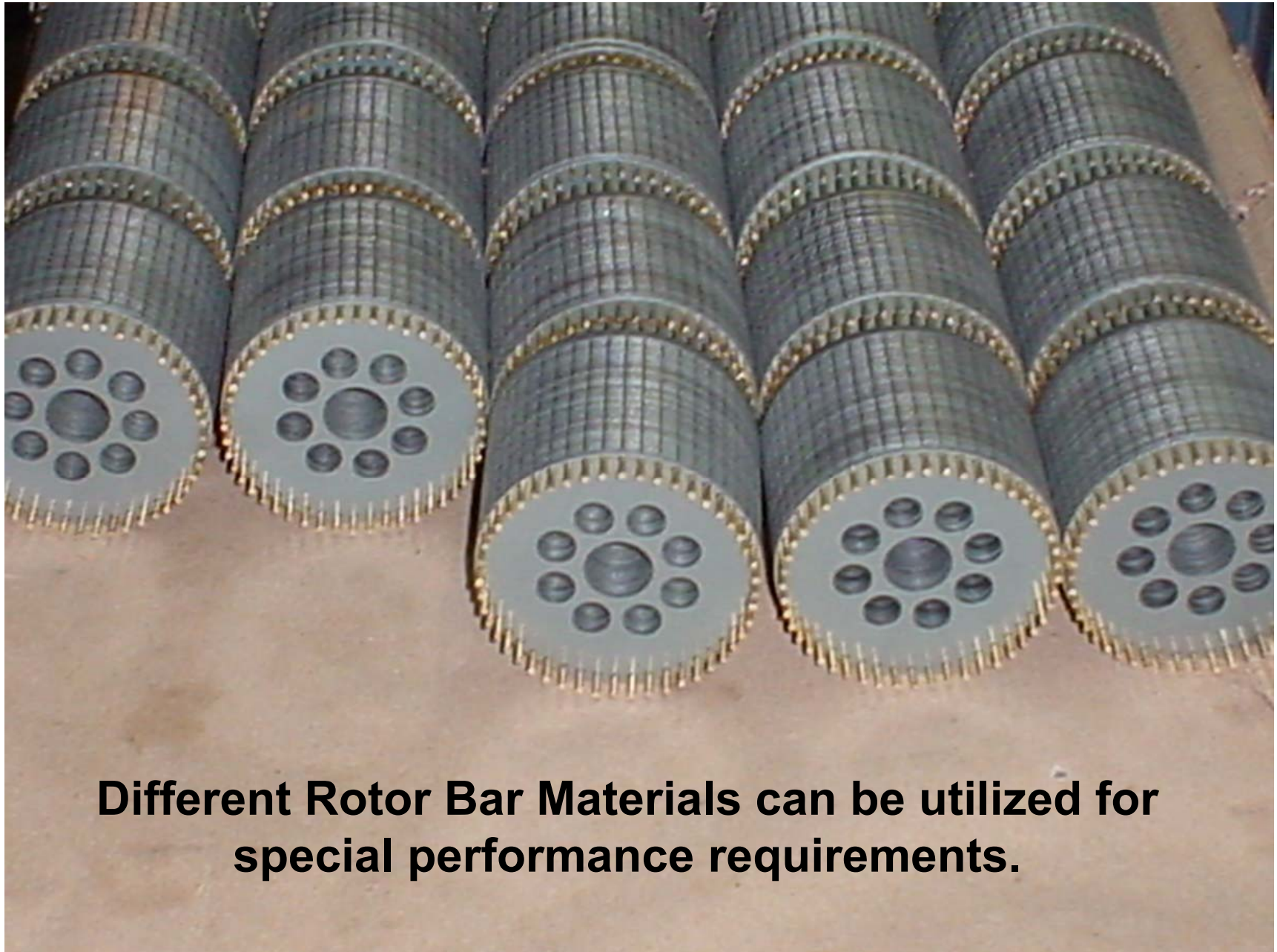




Speed and torque can be tailored to individual requirements by changing the conductivity of the rotor bars.







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

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

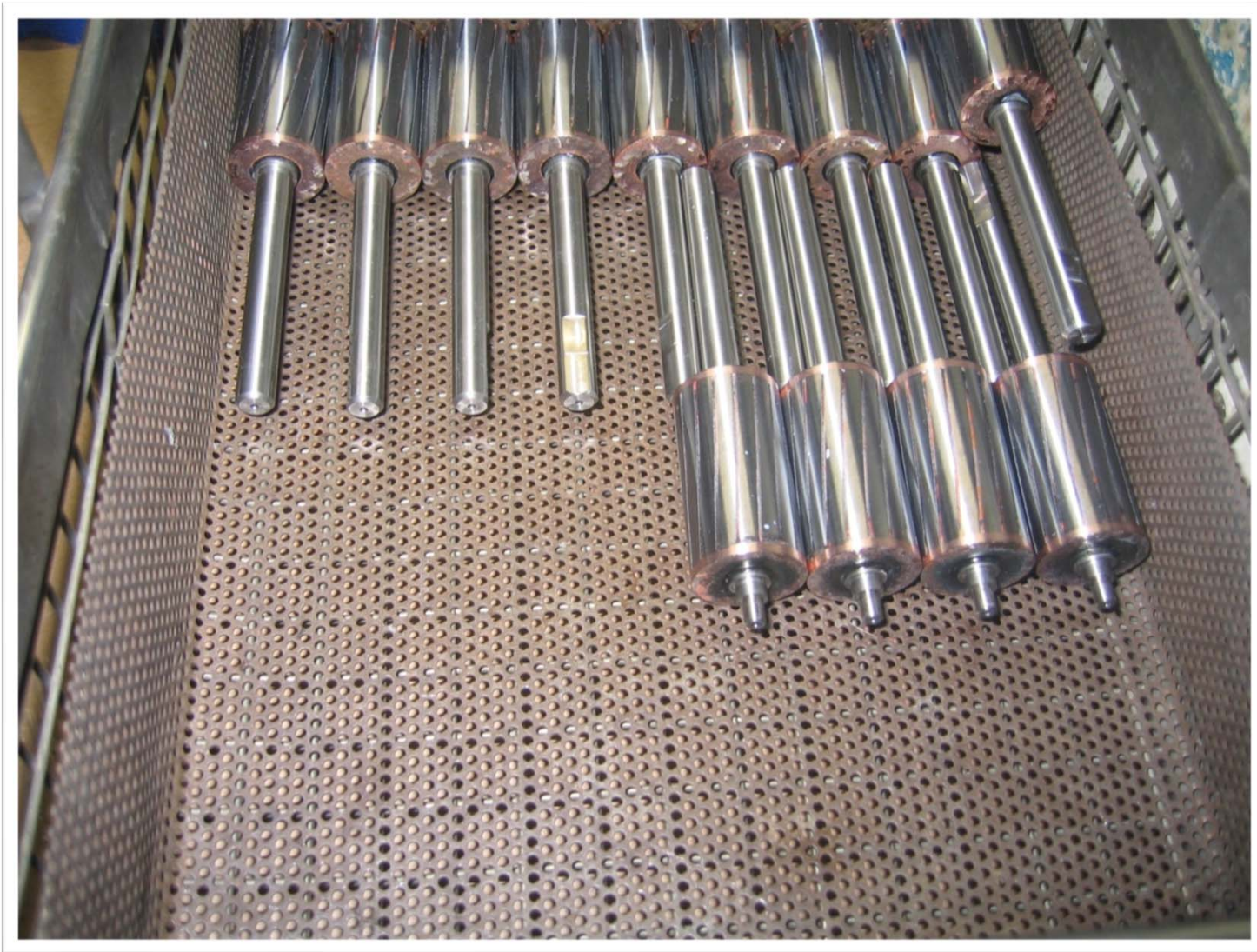




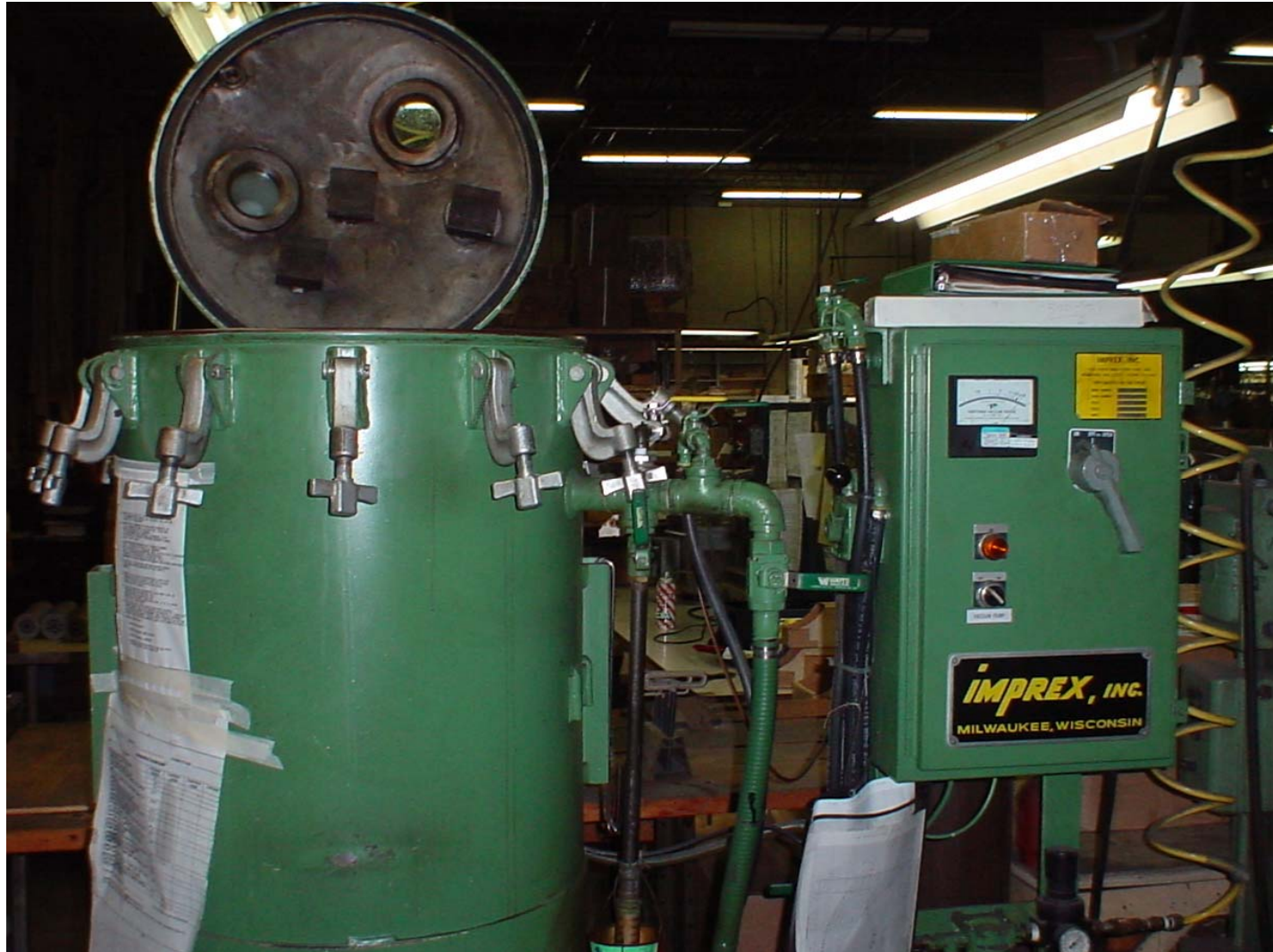




ARC Systems, Inc. provides excellent customer service by designing, manufacturing, and shipping the products ourselves, rather than relying on a distributor.



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.





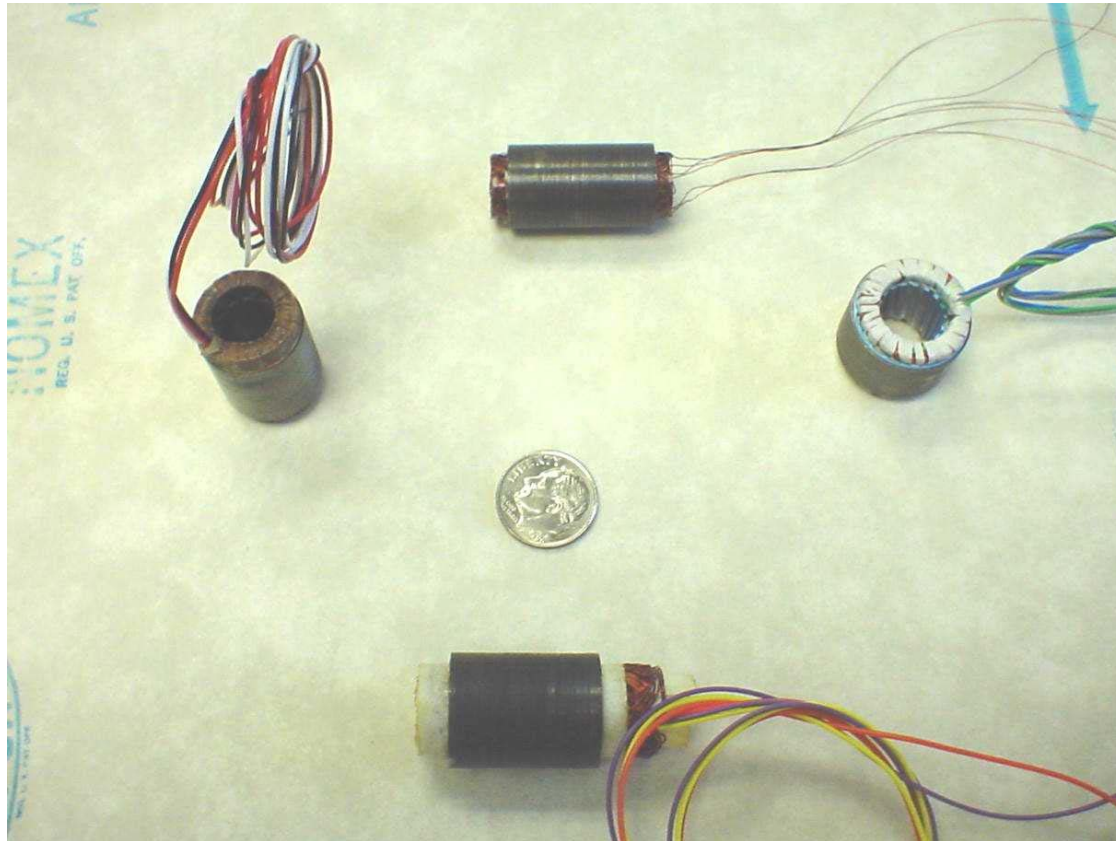
**ARC Systems, Inc. can also offer stator and rotor components as kits to become an integral part of your assembly, saving space and reducing weight.**

**Capabilities**

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

**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.**





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.

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



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



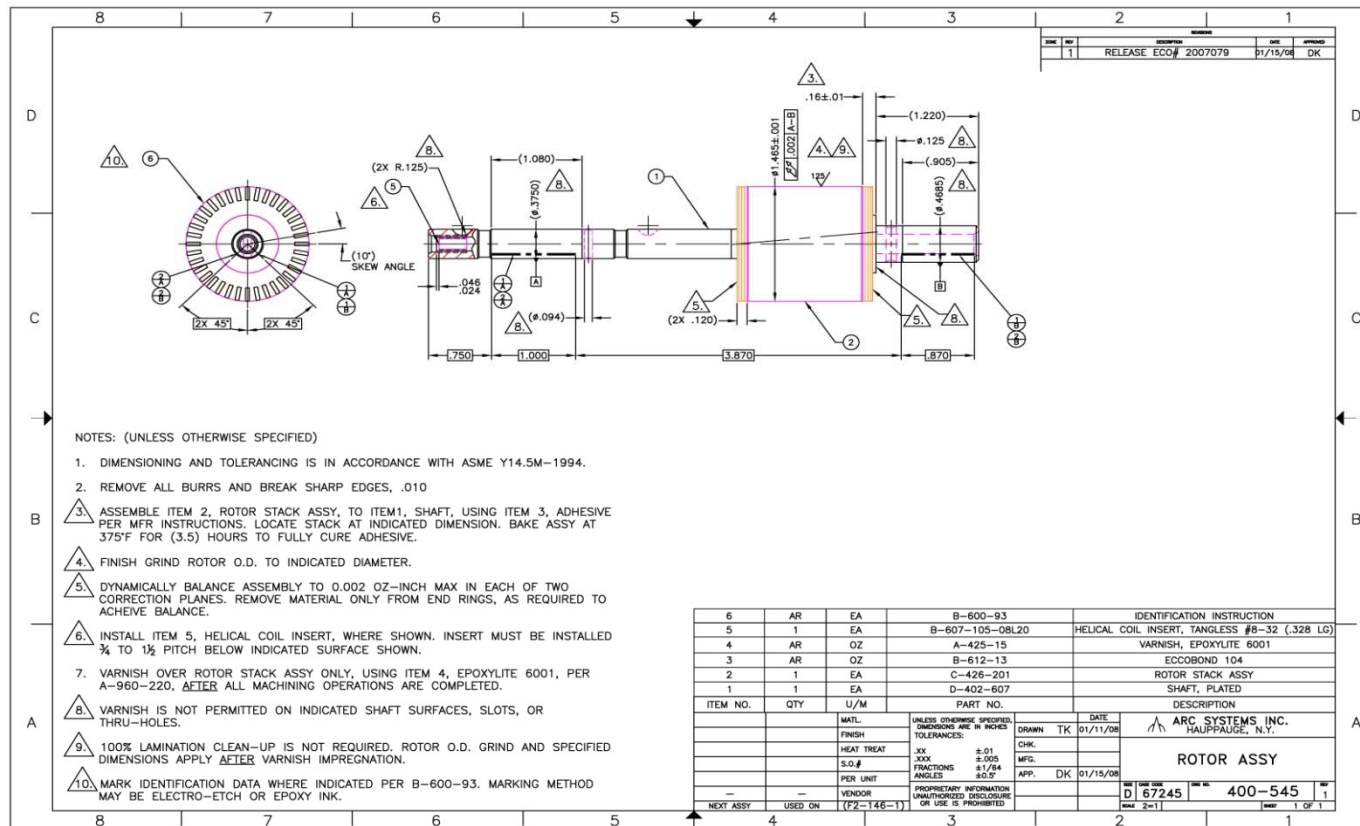
Our engineers interact continuously with our customers from concept through manufacturing.



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

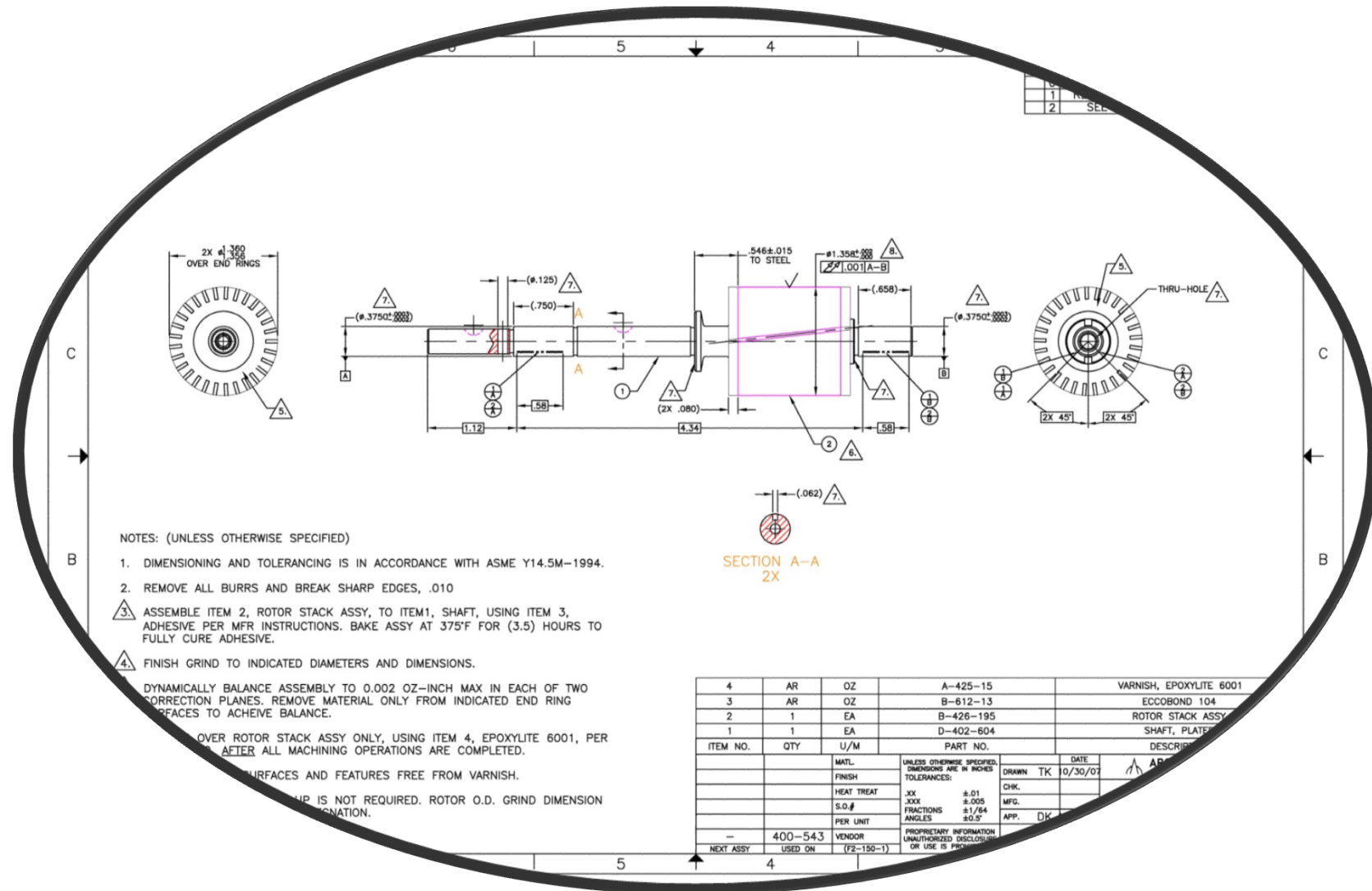


We can provide equipment built to existing drawings or by working concurrently with your engineers, we can provide custom design products to your specification. Let us be your contract manufacturer for aerospace actuators, assemblies, and motion control components. Build to print offers our customers assembled, fully tested, and ready-to-install precision mechanical and electromechanical assemblies.





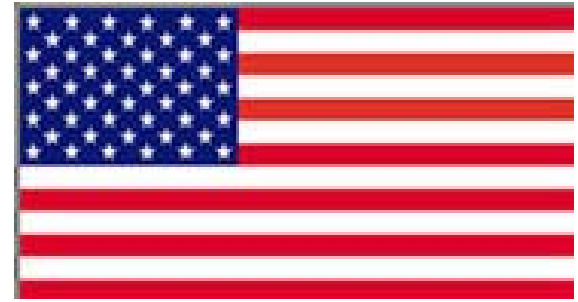
Our engineers interact continuously with our customers from concept through manufacturing. We support our capabilities with a state-of-the-art Computer Aided Design (CAD) system and a proprietary magnetic design program that was specifically developed at ARC Systems.



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







We are ISO 9001:2015/AS9100D certified,  
and our ISO 9001:2015/AS9100D 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**

- Rotor Castings
- Rotor Shaft Assemblies
- Induction Motors (Framed and Frameless)
- Servo Motors
- Brushless DC Motors
- Motor Gear Heads
- Winding Assemblies
- Kit Motors
- Fractional Horsepower Motors
- Hysteresis Synchronous Motors
- Actuators
- Motor Tachometer Generators
- Brakes and Solenoids

For more information and application assistance contact D. Kirk in our Engineering Department at: [dkirk@arcsystemsinc.com](mailto:dkirk@arcsystemsinc.com)

**ARC Systems, Inc.**

**AS9100D/ISO 9001:2015 Certified**

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