



ROUSHYATES
MANUFACTURING SOLUTIONS



WORLD-CLASS CONTRACT MANUFACTURING

MOORESVILLE, NC, USA | RoushYatesMFG.com



AEROSPACE



DEFENSE



SPACE



MEDICAL



MOTORSPORTS

AS9100 REV D | ISO 13485 CERTIFIED BY NSF-ISR



HISTORY

Roush Yates Engines was formed in 2003 by Robert Yates, Jack Roush, and Doug Yates with the support of Ford Motor Company to create a world-class race engine company that would compete at the highest levels of the Motorsports Industry.

Out of the passion for power and performance excellence, Roush Yates Manufacturing Solutions was formed. Roush Yates Manufacturing Solutions machines high performance engine components to support design, development, and production engine builds.

Although rooted in motorsports racing, Roush Yates Manufacturing Solutions has leveraged their passion for CNC manufacturing excellence into the motor-

sports, aerospace, defense, space, and medical markets.

We have created a world-class facility, staffed by a diversified professional team from the aerospace, defense, motorsports, power generation, and high-tech sectors from around the United States.

Our dedication to quality is exhibited by our commitment to meet AS9100 Rev D, ISO 13485 certified by NSF-ISR and ITAR registration standards. This is paramount to our continued success and growth.



Two facilities located in Mooresville, NC, minutes from Charlotte. One 88,000 Sq. Ft. and one 55,000 Sq. Ft.





MISSION

Utilize our state-of-the-art facilities, equipment, and vertically integrated supply chain to provide high precision manufacturing solutions. Deliver industry leading quality, service, and on-time delivery to each of our partners. Foster an environment of continuous improvement for our team.

VISION

To provide world-class manufacturing solutions focused on aerospace, defense, space, medical, and motor-sports industries

CORE VALUES

- People
- Process
- Product



SCOPE OF WORK

Our expertise is in the CNC machining of complex geometry parts for critical applications that require robust process control and post machine surface treatments. We provide an array of automated CNC manufacturing on 5 and 4 axis mills. In addition, we offer multi-axis mill turns, turning, Swiss Turn, and waterjet machining. We also offer post machine surfacing, secondary treatment processes, and sub-assembly services in-house and through a network of validated and approved process suppliers.

MORI SEIKI
NL2000

MILL TURN WITH LIVE TOOLING



MACHINING CENTER - 36 PALLET SYSTEM

9-AXIS MILL TURN

MORI SEIKI
NT4250 DCG





MAKINO HORIZONTAL MACHINING CENTER



TSUGAMI HORIZONTAL SWISS LATHE



5-AXIS



5-AXIS WITH TAPER COMPENSATION





MAKINO a6Inx

MACHINING CENTER, 36 PALLET SYSTEM

VERTICAL INTEGRATION

ONE SOLUTION

We've implemented a vertical integration strategy to increase yield and speed to market, starting with paint and assembly. Chemical Conversion, Passivation, and Powder Coat followed by other key processes will continue to evolve and expand our capabilities. Controlling a majority of the production process in-house allows us the ability to streamline production and lower cost. Transparency of workflow through our paperless system provides us the benefit of monitoring all projects going through our facility simultaneously.

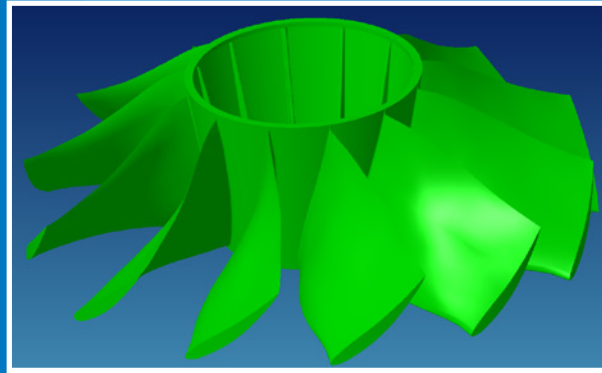
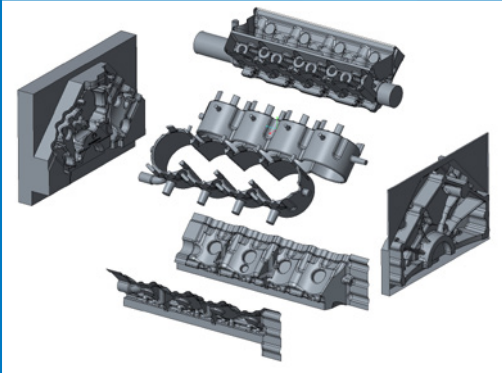
KEY BENEFITS:

- Consistent quality of part
- Lower production cost
- Reduced production time
- Eliminate transportation cost
- Control over processes



ENGINEERING SERVICES

Our Engineering team consists of highly skilled CAD and CAM engineers, CNC programmers, and machinists that are ready to collaborate with you through the CNC manufacturing process. They are experts in part design and analysis, designing for manufacturability, and developing solutions for our customers to create cost effective manufacturing.



KEY BENEFITS:

- Design to manufacturer support
- Problem solving support
- Evaluate material selection: billet, forged, and casting
- In-house part design, analysis, and testing
- Turn-key solution
- Reduction in manufacturing costs
- Reduction in lead times

QUALITY

Rough Yates Manufacturing Solutions quality management system is AS9100 Rev D, ISO 13485 certified by NSF-ISR. The aerospace focused quality system sets an impeccable standard for us to achieve the highest level of quality for our customers.

The focus on waste minimization within our management system includes Lean Manufacturing practices. Quality, Production, Engineering, and Procurement all work together to continuously improve our safe work environment, quality, delivery efficiency, and reduce waste.

Our state-of-the-art inspection equipment and reporting system is one of our most valued assets. Our QA labs and supporting metrology equipment are strategically positioned throughout the facility to monitor components as they flow through the production process, monitoring critical tolerances and measurements. In addition, our electronic work flow process is utilized for traceability of components; matching work order with material, tools, prints, and machines for a seamless work flow and 100% accurate components.



QUALITY EQUIPMENT:

- DCC CMMs
- Vision Systems
- Optical Comparator
- Hardness Testing
- Surface Roughness Testing
- Erowa Pallet Loader





GLOBAL S



QUALITY LAB: TWO CMMs AND EROWA ROBOT COMPACT 80



FACILITY

We take great pride in the cleanliness and organization of our equipment and facility. During a facility tour, a Safety and Health Specialist from NC State University's IES commented on the impressive cleanliness of our CNC manufacturing facility.



**"When your shop is
this clean, show it off!"**
*-Production Machining,
October 2020 issue*



THE TEAM

“Our greatest asset is our employees.” Doug Yates, President & CEO, Roush Yates Engines

Roush Yates Manufacturing Solutions has assembled a highly experienced team of aerospace, defense, motorsports, power generation, and high-tech professionals. Part experience includes commercial aerospace and defense components.







MFI HZ-160 CENTRIFUGAL BARREL FINISHING (CBF)



TYKMA ELECTROX ENGRAVER



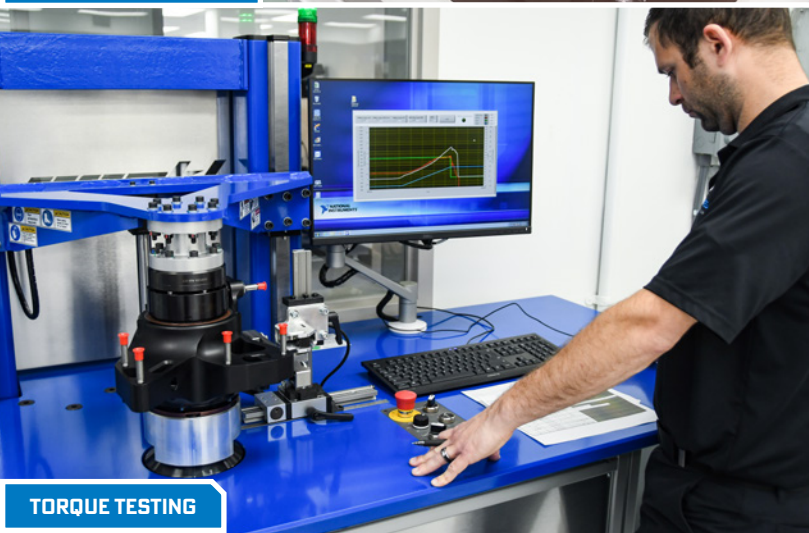
EROWA ROBOT EASY 250 PALLET SYSTEM



CHEM FILM SERVICES



DOT-PEEN



TORQUE TESTING



PAD PRINTING

FAST FACTS

Facilities & Staff

- 88,000 Sq. Ft. Mooresville, NC Facility
- 55,000 Sq. Ft. Mooresville, NC Facility
- 100+ employees

CNC Machines

- Mori Seiki
- DMG Mori
- Makino
- Yasda PX30i
- OKK
- Haas Automation
- Tsugami Swiss Lathe
- Flow Waterjet
- Makino Pallet Pool
- Halter Robot / EROWA Robot

Quality Assets

- Nikon Altera 10.10.8 DCC CMM
- Hexagon GLOBAL S BLUE 9.15.8 CMM
- Hexagon GLOBAL TIGO SF 5.6.5 CMM
- Brown & Sharpe Global 12.15.10 DCC CMM
- ZEISS Contura G5 9.12.8 CMM
- ZEISS Duramax 5-5-5 CMM
- ZEISS Surfcom 130A
- Mitutoyo Formtracer SV-C3200
- Mahr MMQ 400-2
- Starrett AV450, AVR300, HDV400 CNC Vision Systems
- Calypso
- PC-DMIS

Internal Post-Processing

- Paint
- Chem Film
- Citric Passivation
- Powder Coat
- Laser Engraving
- Pad Printing
- Clean Room
- Non-Destructive Testing

Registrations & Certifications

- AS9100 Rev D certified by NSF-ISR
- ISO 13485 certified by NSF-ISR
- DUNS 159458277
- CAGE Code 855Z8
- ITAR Registered
- SAM Registered
- NIST Compliant
- Exostar Registered
- Primary NAICS 332710
- Federal Small Business
- DOD Contractor

Programming

- Mastercam
- SOLIDWORKS
- VERICUT
- PTC Creo
- Esprit

Operational Management Systems

- ProShop - Shop Management System
- SAGE EM

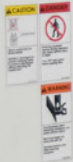


**TAKE ADVANTAGE OF OUR
COMPETITIVE ADVANTAGES!**



**ROUSHYATES
MANUFACTURING
SOLUTIONS**

 MAKINO
F5



 ELSOLVA
Robot Compact 80

 MAKINO
DA300







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