



**YG-1 Technical Center**  
**11001 Park Charlotte Blvd. • Charlotte, NC 28273**  
**980.318.5348**  
**[www.YG1usa.com](http://www.YG1usa.com)**



**CHARLOTTE  
TECHNICAL CENTER**  
**60,000 SQUARE FEET OF TOOL-MAKING  
INNOVATION UNDER ONE ROOF**

# DESIGN, SIMULATE, PRODUCE AND TEST IN THE INDUSTRY'S MOST ADVANCED FACILITY

## INTRODUCING THE ULTIMATE SOLUTION IN TOOL-MAKING TECHNOLOGY

The YG-1 Technical Center is your one-stop center for all your tool making needs. With more than 30 state-of-the-art manufacturing assets, including: 25, 5-axis CNC stations, 25 high-performance grinding and milling machines plus 10 flexible programming testing modules, the YG-1 Tech Center gives you a turnkey solution to tool design, testing and manufacturing.



### DESIGN

- Advanced CAD/CAM assisted application simulation to assure precise design integrity
- On-site R & D specialists for advanced high-production solutions
- Expertise in aerospace, automotive, power generation and general engineering



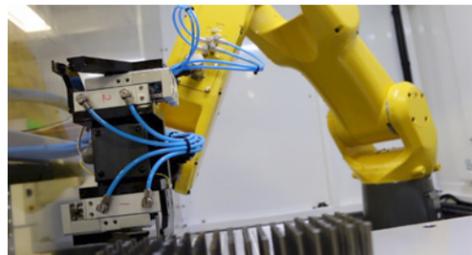
### SIMULATE

- Computer aided simulation to assure cost-effective manufacturing
- Machining solutions for hard metals and composites in aerospace applications
- Three-dimensional simulation provides predictable performance data consistency



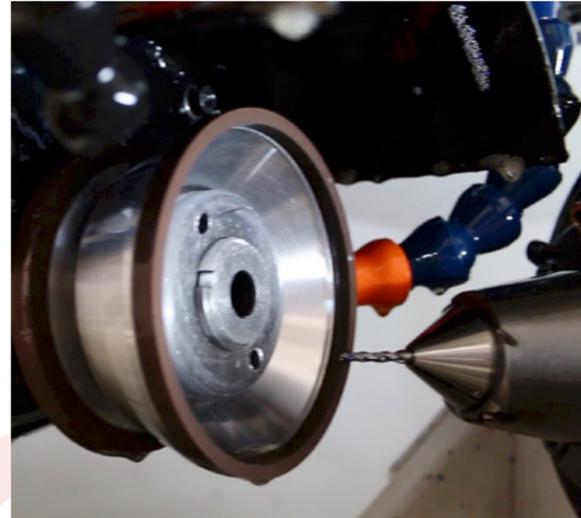
### TEST

- Threshold testing in extreme applications for reliable performance
- Laser-assisted measuring for high tolerance reliability
- Prototype testing in actual conditions to assure best cost per piece



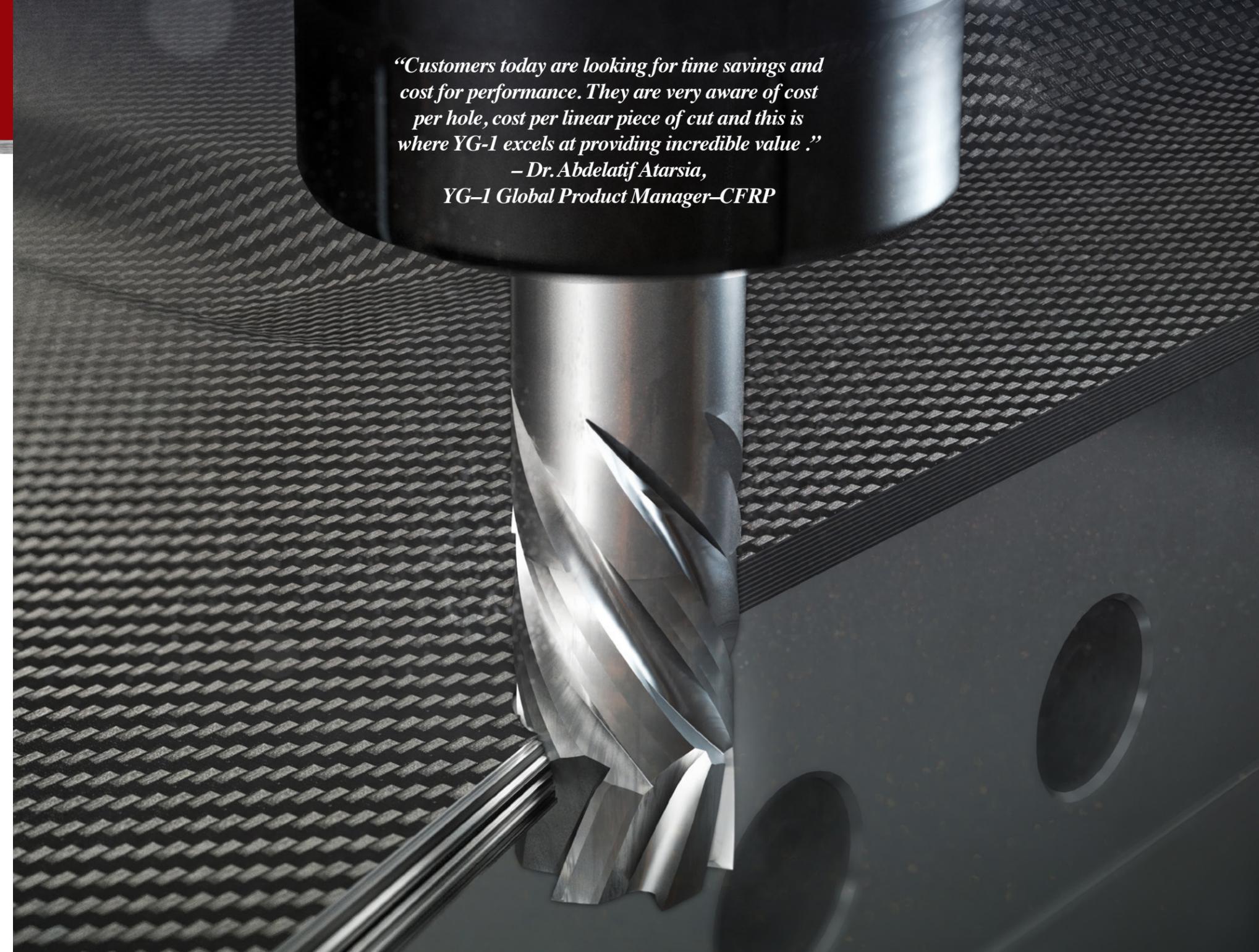
### PRODUCE

- Twenty-five 5-axis CNC grinding machines for rapid production
- World-class sub micron carbide blanks to assure increased tool life
- Latest generation in PVD and CVD coatings for enhanced wear resistance and edge protection



*"Customers today are looking for time savings and cost for performance. They are very aware of cost per hole, cost per linear piece of cut and this is where YG-1 excels at providing incredible value."*

*– Dr. Abdelatif Atarsia,  
YG-1 Global Product Manager–CFRP*



# OUR PROMISE. THE BEST SOLUTION IN LESS TIME WITH LESS EXPENSE

WE BUILT OUR REPUTATION ON ONE SIMPLE PRINCIPLE —  
SATISFYING EACH CUSTOMER WE SERVE



“For all our automation requirements,  
YG-1 tools have helped us increase  
both our quality and our throughput.”

- Site Manager, International Aircraft Manufacturer

“We are drilling our second ship set with  
new robots and it’s performing great!”

- Automation Engineer, Major Aerospace Manufacturer

## PUT US TO THE TEST

With over 30 years of tooling experience for some of the world’s most successful companies, YG-1 can handle your most demanding design, testing and manufacturing needs. And now with our state-of-the-art Charlotte Technical Center, you have a place that can do it all. So when you’re looking for the best solution at the most efficient cost, come to YG-1. Call us at 980.318.5348 or contact our distributor partners to discuss your machining solution needs.



*“When we work with customers, the first thing we want to do is to understand their specific problems. Whether it’s the machine tool, the material they are machining or the volume they are producing, it’s how we give them the best value and best finished product.”*

*– Mark Ford, YG-1 Director Global Product Management – Holemaking*

# BRING US YOUR DESIGN CONCEPTS, YOUR SMALL BATCH RUNS, AND YOUR FULL-BLOWN PRODUCTION NEEDS

## COLLABORATION IS KEY

From your first design concepts to prototyping to final tooling, YG-1 will work with you at every turn. It's this partnership that keeps our customers on the cutting edge with the most cost-effective tooling solutions in the industry. For group training, collaboration with our designers and engineers, the Tech Center features an expansive training room with a live demonstration area.



## VALUE-PERFORMANCE ENGINEERING

- Engineered for reliability and consistency in performance
- Complete understanding of demand requirements
- Optimized for the most cost-effective solution
- Best cost-per-part value

## DESIGNED TO ACCOMMODATE YOUR NEEDS

- Capabilities for small-batch production
- Ready access to world-class engineering
- Complete re-sharpening services
- Fast turnaround for one-of-a-kind tools and solutions



*"I really like seeing the tools demonstrated and actually cutting – it's very helpful to see how the tools perform in actual conditions in a wide variety of different materials and styles."*

*– Tier-One Automotive Manufacturer*