

 **equilibrium**

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MGT BEYOND **50**

From Legacy to Leadership



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Managing Director's Address

As we celebrate more than five decades of Micromatic Grinding Technologies, "MGT Beyond 50" is More than just a theme—it is a declaration of intent. It signals that while we honour the past, our eyes are firmly set on the future. The first 50 years have given us an identity built on Precision, Integrity, Customer-centricity, long-term partnerships, Ethics, Trust & Caring for the Society & the Environment. The years ahead call for Speed, Adaptability, Digitalization, Transformation, Sustainability & Global outreach.

Honouring the Journey So Far

Over the decades, MGT has grown from a single-unit machine tool pioneer to a multi-plant, multi-technology organisation serving global customers. This journey was made possible by generations of team members whose belief, passion, and perseverance turned vision into reality.

To every member of the MGT family—past and present—I offer my heartfelt gratitude.

Gratitude to the Board: Our Guiding North Star

Our journey and achievements have been made possible under the steady guidance, vision, and wisdom of our Board of Directors. I want to sincerely thank:



Mr. N.K. Dhand

Chairman Emeritus & Co-Founder

Whose pioneering spirit and values remain at the heart of everything we do.



Mr. Surender Kakkar

Chairman and Director

Whose decades of stewardship and insight continue to shape our direction.



Mr. Chandrashekhar Sharma

Independent Director

For his thoughtful guidance and sharp governance that strengthens our decisions.

We deeply value the continued involvement and direction from our Board as we enter this next phase of accelerated growth and global relevance.



Kapil Dhand

Managing Director and Vice Chairman, Micromatic Grinding Technologies

Welcoming a New Leadership Core

As we prepare for the future, we are strengthening our leadership with a group of passionate, capable professionals who bring fresh perspectives, deep experience, and strong alignment with MGT's values.

I am pleased to welcome



Mr. Kumar Rashmirathi

Chief Executive Officer (CEO)

who has joined our leadership team as Chief Executive Officer (CEO), bringing execution focus and a customer-centric approach.



Ms. Riddhima Bajaj

Chief Human Resources Officer

to lead the people and culture transformation across all units.



Mr. C.S. Venkatesh

Plant Head – Bengaluru

to drive manufacturing excellence and operational discipline.



Dr. Pavan A. Poosarla

Head – R&D & Innovation

to lead our future technology roadmap & engineering evolution.



Mr. Huzefa Soni

Head of Finance

to ensure robust financial governance, business insight, and capital stewardship.

We also recognize and thank:



Mr. Deenabandhu T.G.

Who led the Bengaluru plant through its most critical growth phase. He now moves into the role of Director Technology, focusing on strategic platform and product development.



Mr. Mahesh Samaria

An 18 years veteran in MGT's Design & Application Engg., takes on the role of Head – Sales and Marketing for India and exports. His insights and customer connect will guide our growth in both established and emerging markets.

Vision Beyond 50: A New Way of Working

Reaching new heights in a fast-evolving industrial landscape will require us to **rethink how we work**. Our future will be defined not just by what we build—but by the **speed, discipline, and intelligence** with which we operate.

Here are key shifts we must embrace:

SPEED in Execution

Speed is now a differentiator—across customer response, order fulfilment, product development, and internal decision-making. We must act with urgency and ownership.

Process-Based Working

To scale and sustain quality, we must standardize and strengthen our core processes. Consistency, reliability, and continuous improvement should become second nature.

Leadership at Every Level

Leadership is no longer confined to titles—it must be visible in every individual who takes initiative, solves problems, and develops others.



Data-Driven, Scientific Thinking

Our decisions must be grounded in facts, analysis, and structured problem-solving. Whether on the shopfloor or in boardrooms, science must guide our thinking.

Cross-Functional Collaboration

Silos slow us down. The future demands a shared vision, open communication, and coordinated execution across functions, units, and regions.

Together, Beyond 50

As we step into this exciting new phase, we do so with gratitude for our legacy and confidence in our future. With strengthened leadership, a committed team, and continued support from our Board, MGT is ready to build a future that is faster, smarter, more agile, and globally competitive. Let's move forward with renewed energy, greater speed, and a shared sense of purpose. Here's to the journey ahead. Here's to going beyond 50—together.

Warm regards,

Kapil Dhand

Managing Director and Vice Chairman
Micromatic Grinding Technologies



MGT'S NEW PRECISION COMPONENTS & ASSEMBLIES PLANT AT GAJRAULA

MGT is proud to announce the upcoming launch of its new **Precision Components & Assemblies Plant** at Gajraula, built to serve aerospace, medical, machine tools, robotics, and other high-precision engineering industries.

Spreading across **42,000 sq. meters**, the plant is designed as a global-standard manufacturing hub. **Phase-1**, covering **3,500 sq. meters**, will be operational by **March 2026**, marking a major step in expanding MGT's advanced machining capabilities.

World-Class Machining Infrastructure

The new facility will house a powerful mix of high-precision equipment, including:

- **SNK Japan 5-Axis Gantry Machining Centre**, enabling machining of large, complex components up to **6 meters** in length.
- **DOOSAN 800 x 800 HMC**, boosting capacity for medium-to-large precision parts.
- An existing and expanding fleet of **40+ work centers**, comprising HMCs, VMCs, turning centers, grinding machines, and quality systems for **micron-level accuracy**.



End-to-End Finishing Capability

A dedicated **spray paint line** adds complete finishing capability under one roof, ensuring consistent quality and faster turnaround.

Built for Growth

Strategically located near **Delhi-NCR**, the Gajraula plant strengthens MGT's ability to supply high-precision components and assemblies across global industries. Designed for multi-phase expansion, it will play a key role in MGT's journey towards creating a world-class precision manufacturing ecosystem.

ENGINEERING THE FUTURE: MGT BANGALORE'S GROWTH MOMENTUM



MGT Bangalore Expansion: Precision, Capacity & a Modern Workplace

MGT Bangalore is progressing through a major expansion that strengthens manufacturing capability, improves workplace experience, and prepares the plant for our future growth ambitions. This thoughtful combination of **advanced machines already installed** and a **new office + technology center under development** positions MGT Bangalore for the decade ahead.

Advanced Precision Machines Already Installed

To enhance machining accuracy, reliability, and throughput, the Bangalore plant has recently commissioned several world-class machines:

- **Okamoto Precision Surface Grinder (Japan)**
For ultra-precise flat grinding of slides, guideways, and critical components.







- **WELE 5-Face Gantry-Type Milling Machine**
For machining medium-sized parts with improved rigidity and geometric accuracy.
- **DIXI Jig Boring Machine**
To achieve superior positional accuracy for high-precision assemblies.
- **New Metrology Lab with Zeiss CMM**
Strengthening our inspection and validation capability at micron-level precision.



These installations significantly advance our ability to manufacture complex, high-accuracy parts required across all grinding platforms.

New Office Building & Technology Center – Ready by March 2026

A new 2,700 sq. meter modern office building is under construction, targeted for completion by March 2026. This facility will include:

-  A Grinding Technology Center for trials, demos, and process development
-  A fully equipped Training Center
-  Canteen, recreation, and employee comfort spaces
-  Contemporary office areas designed to promote collaboration and efficiency



This new space has been designed to elevate both customer experience and employee well-being. Shifting existing office and support functions into this new building will also release valuable shopfloor area, enabling additional assembly capacity for 18 machines—improving production flow without expanding the factory footprint.

Strengthening Speed & Capability for Customer Needs

With upgraded machines already operational and expanded assembly space planned, MGT Bangalore is better equipped to respond to the growing demand for shorter deliveries, higher precision, and consistent quality across our grinding platforms.



A Strategic Step Forward

The Bangalore expansion reflects MGT's commitment to continuous improvement, innovation, and sustainable growth. As we enter this next phase, the strengthened infrastructure and enhanced capacity will play a pivotal role in meeting the evolving needs of customers in India and across the world.

CONSISTENCY AND ACCURACY IN EVERY GEAR



Grinding Precision That Drives Gear Performance

How MGT's IG-150U helped a global gear manufacturer achieve world-class accuracy.

In the gear industry, precision is everything. Even the smallest deviation in bore-to-face alignment can compromise transmission efficiency, shorten gear life, and create costly downstream failures. When a leading gear manufacturer began observing flatness deviations of over 20 microns, their production line and customer confidence were at risk. This was not just a technical issue, it was a business challenge demanding a robust, dependable solution.

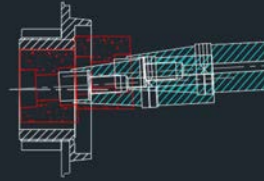


The MGT Response

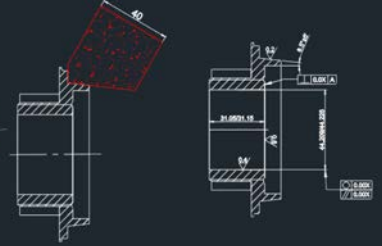
MGT deployed its IG-150U Universal Grinder, enhanced with:

- Tilttable ID wheel head for superior ID-face grinding
- Cone grinding with external wheel head for OD tolerance
- Part seat check for proper loading
- Modified grinding cycle engineered by MGT experts

OPERATION 1-ID GRINDING



OPERATION 2- FACE GRINDING



Results Delivered

Parameter	Required	Achieved
ID Tolerance	0.016 mm	within 0.002 mm
Parallelism	0.025 mm	0.015 mm
Surface Finish	Ra 0.40	Ra 0.19
Process Capability	1.67	3.08
Cycle Time	153 sec	162 sec

Process capability nearly doubled, and surface finish improved by 50%.



By refining its process, MGT not only solved a customer's challenge but also reinforced its reputation for delivering precision solutions that improve performance and productivity.



ENVIRONMENT FOCUS: CLEAN ENERGY AND COMMUNITY COMMITMENT

Building a Greener Tomorrow

From pond revival in villages to clean power at plants, MGT makes sustainability real.

Sustainability in manufacturing is no longer optional—it's a responsibility. At MGT, we see our role extending beyond shop floors to the communities and ecosystems around us. From the groundwater that nourishes villages, to the air quality in our cities, our choices have lasting impact. That's why we are committed to concrete action, reviving neglected water bodies and reducing our carbon footprint through clean energy transitions.



The MGT Response

1. Pond Revival in Latifpur Tibra Village

- Pond area: 9,740 sq. m.
- Constructed soft pits to block polluted drains.
- Expected groundwater recharge: **4.5 crore liters annually**.
- Adopted as a cultural centerpiece for village events.

2. Clean Power Shift

- Replaced **four diesel gensets** with **three PNG gas gensets** (2 × 125 kVA and 1 × 315 kVA), improving efficiency and safety.
- Reduced **CO₂ emissions by ~366 kg per day (~110 tons annually**, considering 300 working days).
- Achieved **50% fuel cost savings (~₹20 lakhs annually)**, eliminated diesel storage and transportation, reduced noise, and ensured compliance with local regulations.



Impact

- Cleaner air & water for communities.
- A model for eco-friendly industrial practices.

Together with local impact and global thinking,

MGT is shaping a cleaner, greener future.



GURUKUL – CENTRE FOR EXCELLENCE

Gurukul: Learning Today, Leading Tomorrow.

MGT's in-house training hub prepares employees for the future of manufacturing.

In an era where technology evolves faster than ever, the strength of any manufacturing company lies in the skills of its people. Machines may drive productivity, but it is people who drive progress. Recognizing this, MGT created Gurukul – a training ecosystem where employees can learn, unlearn, and re-skill in real manufacturing scenarios. More than a training center, it's a hub of continuous learning and empowerment.

The MGT Response

- Real-world training stations with sub-assemblies, components, and controls.
- Central learning portal with manuals and digital resources.

Focus areas:

- Skills Enhancement – sharpening core abilities
- New Skills – automation, digital controls, advance machining
- Awareness – safety, PPE, accident prevention

Impact

- Builds technical confidence.
- Fosters a culture of discipline, safety, and innovation.



"The well-organized, 15-day Gurukul training at Micromatic Grinding Technologies was highly beneficial. It provided critical practical knowledge on cylindrical grinding machines, their parts, assembly processes, and hydraulic/CNC systems—information far beyond my academic learning. I also found the focus on 5S principles and company culture very inspiring. This training made my departmental work much easier, and I thank Kundan Sir for his excellent support."

Prince Chauhan

Investing in people is investing in progress—Gurukul strengthens both individuals and MGT's leadership in grinding excellence.

TURNING MICRONS INTO MILESTONES

Made in India, Trusted by the World

MGT's CNC Bearing Grinders deliver world-class precision for global bearings manufacturers.



The global bearings market is on a steep growth trajectory, but with growth comes sharper demands: tighter tolerances, higher throughput, and zero-defect quality. For manufacturers, the ability to produce bearings with micron-level precision is the difference between being a global contender or being left behind. For MGT, this challenge became an opportunity to prove that high-performance, Indian-made grinding machines could compete—and win—on the world stage.

CYCLE TIME OPTIMIZATION

Productivity Increase: 40%



Result: 4.6 Seconds Reduction

The MGT Response

- ID grinding with AE sensors, magnetic chucking, real-time gauging.
- OD grinding with carbide shoes, stable Dia-roll dresser.

Results Delivered

- Roundness: 4–5 μ → 2 μ
- Rejections: 3% → 0.2%
- Cpk > 1.67 maintained
- Cycle time: 11.5 sec → productivity up

With the global bearings market expanding, MGT is poised to lead with innovative, localized, precision solutions.

1122 MM OF PERFECTION

Precision Without Limits

Grinding a 1122 mm shaft with holes and slots—done right, the first time.



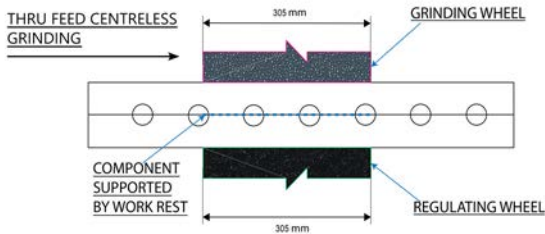
Long shafts are among the most demanding components to grind. At over a meter in length and full of design complexities like slots and holes, even a minor distortion can throw an entire assembly off balance. When a customer approached MGT with such a requirement, it was more than a job—it was a test of engineering ingenuity. The project pushed boundaries of tooling, process control, and machine stability.

The MGT Response

- Selected CNC CLG 6030 TG
- Developed custom 1800 mm rest blade for stability.
- Designed process to ensure accuracy across full length.

Results Delivered

- Tolerance: $\pm 2 \mu$
- Roundness: 3μ
- Straightness: 9μ
- Surface finish: Ra 0.3
- Target cycle time achieved



This project sets a new benchmark for long-shaft grinding in India, boosting customer confidence in local precision solutions.



PRECISION REIMAGINED – CBN TWIN WHEEL HEAD GRINDER

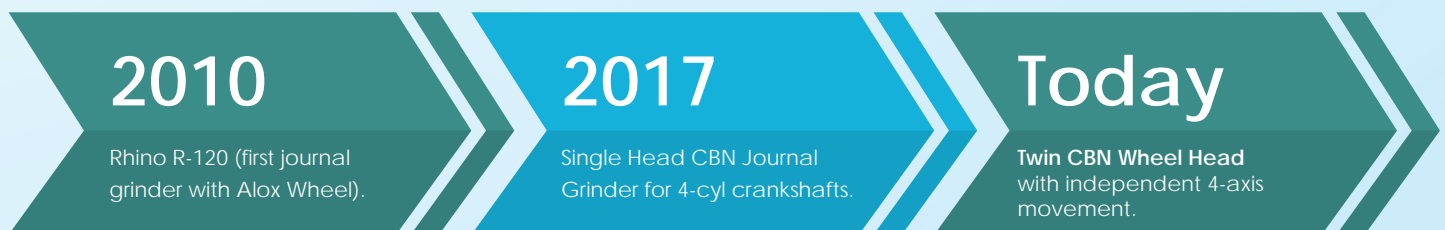
Redefining Productivity with Twin CBN Wheels

From Rhino R-120 to twin-wheel CBN, MGT sets new benchmarks in Crankshaft Journal Grinding.



Crankshafts are the beating heart of every engine and grinding them demands extreme accuracy and repeatability. Over the last decade, MGT has been steadily raising the bar in crankshaft grinding technology—from Alox wheels to CBN innovations. The journey reflects more than machine evolution; it reflects our commitment to help automakers achieve better fuel efficiency, lower emissions, and longer engine life through world-class grinding solutions.

The Journey



Key Specs

- ABC: 1300 mm
- Max grinding length: 1200 mm
- Wheel speed: 80 mps
- Dual independent Z/X movement

Impact

- Higher throughput
- Improved accuracy
- Reduced cycle times

This innovation underscores MGT's philosophy: continuous evolution to empower customers with confidence and precision.

YOUNG MINDS



Fresh Energy for the Next 50 Years

Welcoming young talent into MGT 2.0.

Every new chapter in a company's journey is written by people. At MGT, the past 50 years have been shaped by experience, perseverance, and deep technical mastery. But the next 50 years will be written by the bold ideas of a new generation. As young engineers and professionals step into MGT, they bring not only fresh skills but also a cultural shift—towards digital thinking, innovation, and a fearless outlook on what's possible in Indian manufacturing.



"Thankful for the continuous learning that refined my understanding and allowed me to add greater value through my work."

~KUMAR GAURAV



"Working on automation projects gives me confidence to shape the future."

~Manas Sinha



"The culture of curiosity encourages innovation."

~Aditya Dixit



"Grateful for this opportunity to explore new domains, learn more about precision grinding and assembly, and grow with a great team."

~ANKITH KACHINTHAYA



"Though young, I prioritized long-term strategy at Micromatic for the rich learning opportunities."

~SIDDARAMAIAH K M

Young minds are not just joining MGT—they are reimagining what precision, productivity, and

performance will mean for the next 50 years.



CSR JOURNEY



Building Brighter Futures Together

Education, health, and skill development through MGT's CSR.

Corporate Social Responsibility at MGT is not just about compliance—it's about compassion. We believe that the true measure of success lies in the positive change we bring to communities around us. Whether it's transforming a rural school into a vibrant learning space, funding education for young girls, or equipping youth with employable skills, every initiative reflects our belief that progress must be shared.

The Initiatives

Brightening Young Minds (Bangalore)



Refurbished Government Higher Primary School (GHPS), Honnenahalli — enhancing hygiene and infrastructure with a new toilet block and a fresh coat of paint.



Transformed the school environment with vibrant wall artwork, creating a brighter and more engaging learning space.

Empowering Communities (Ghaziabad)

- 150 children supported across four villages in Ghaziabad with education, health, and nutrition through a partnership with GNK.
- 50 girl students empowered with scholarships at Ram Chameli Chadha Vishwas College for a brighter future.
- 200 youths supported through CARTE Institute, Ghaziabad — vocational training, computer and sewing courses, arts education, and medical aid for underprivileged families.

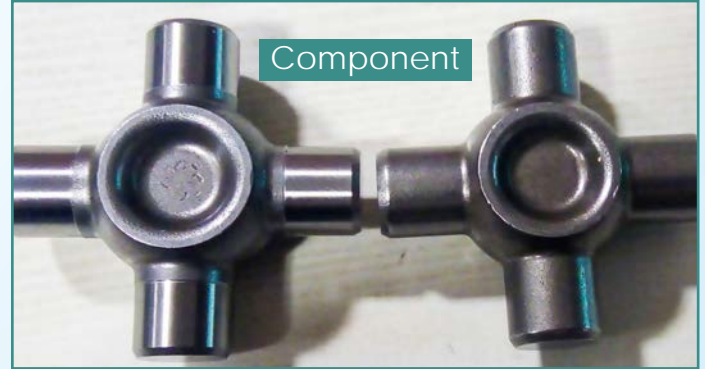


Impact

- Improved school environment.
- Enhanced educational opportunities for underprivileged youth.
- Empowered women through vocational training.

Every CSR step by MGT is a step toward stronger communities and brighter futures.

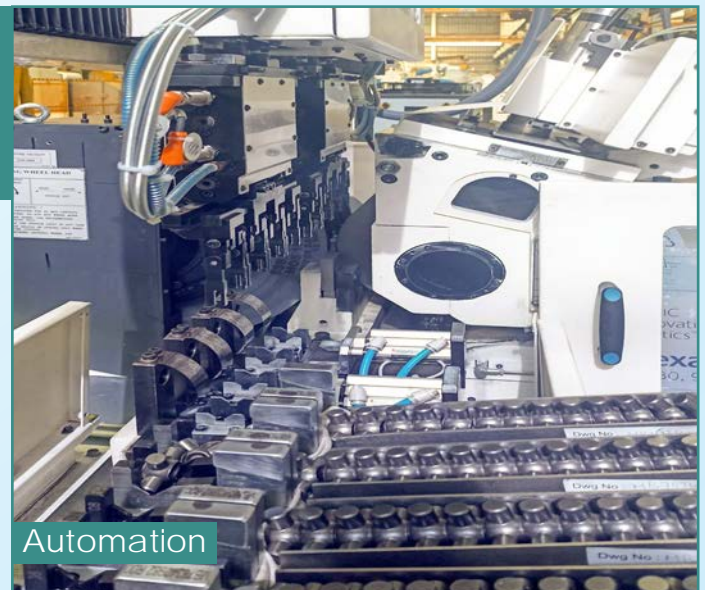
DRIVING PRODUCTIVITY FORWARD (CLG 5020)



More Output, Same Machine

How process re-engineering unlocked 40% higher productivity on CLG 5020

In high-volume manufacturing, every second matters. The ability to grind one extra component per cycle, or shave off a few seconds from cycle time, can mean thousands of additional parts a year. For one customer producing Spider parts, the CLG 5020 grinder was reliable but limited. The challenge: push productivity further without compromising accuracy. For MGT engineers, it became a classic case of rethinking processes to unlock hidden capacity.



The MGT Response

- Reconfigured CLG 5020 to handle 4 components.
- Integrated automated loading/unloading.
- Corrected wheel diameter variation, automation fouling, chatter marks.

Results Delivered

- OD accuracy: $\text{Ø}10.040 \pm 0.005$ mm
- Roundness: 0.002 mm
- Surface finish: Ra 0.278 μm
- Cycle time: 16 sec vs 18 sec target

Continuous improvement on trusted machines helps customers achieve more—higher productivity, consistent accuracy, and cost savings.

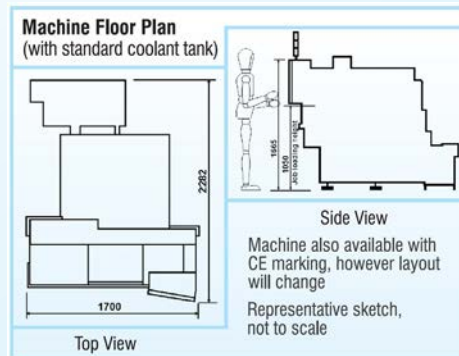
PRECISION GRINDING, COMPACT DESIGN



PLUTO 18 is designed to meet below needs of the Industry

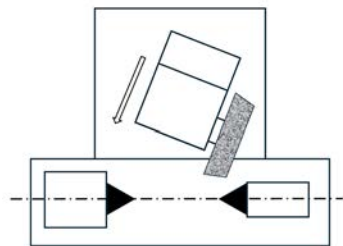
PLUTO 18

- ◆ Space Saving
- ◆ Competitive Grinding solution
- ◆ High performance
- ◆ Ease of operation

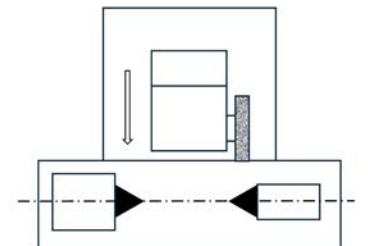


Machine Variants available

Angular
Wheel Head



Straight
Wheel Head



Key Features for Your Production Success:

- ◆ **High Precision Output:** Designed for producing high precision shaft type parts.
- ◆ **Versatile Operations:** Excels in both plunge and traverse grinding operations.
- ◆ **Space-Saving Design:** A truly compact solution to maximize your floor area.
- ◆ **Ready for Automation:** Easily adapted for various automation solutions, including gantry and robot integration.
- ◆ **Flexible Variants:** Available with both Straight Wheel Head and Angular Wheel Head options.
- ◆ **Industry-Leading CNC:** Equipped with user-friendly Standard Graphics screen and compatible with Fanuc, Mitsubishi, or Siemens CNC Systems.

Legacy is not leaving something for people.
It's leaving something in people.



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