



MC News

News Bulletin from Micromatic Grinding

Micromatic Grinding

RESOLVE

You may be whatever you resolve to be
...Thomas Stonewall Jackson

Resolve to perform what you ought, perform without fail what you resolve
...Benjamin Franklin

How few there are who have courage enough to own their faults, or resolution enough to mend them.
...Benjamin Franklin

The pessimist sees difficulty in every opportunity. The optimist sees the opportunity in every difficulty
... Winston Churchill

Always bear in mind that your own resolution to succeed is more important than any one thing
... Abraham Lincoln

HOPE is the thing with feathers, that perches in the soul and sings the tune without words, and never stops at all
.....Emily Dickinson

Learn from yesterday, live for today, HOPE for tomorrow
.....Albert Einstein

HOPE

Once you choose HOPE, anything's possible
.....Christopher Reeve

Optimism is the faith that leads to achievement. Nothing can be done without HOPE and confidence
.....Helen Keller

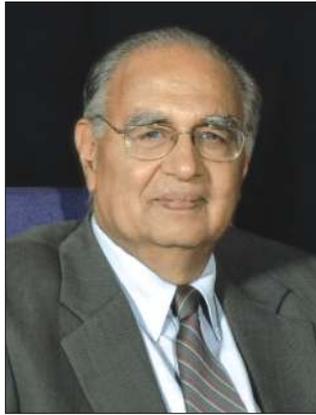
HOPE is like a road in the country there was never a road, but when many people walk on it, the road comes into existence.
....Lin Yutang

2008 Special

We look forward to your visiting us at IMTEX 2009 - Stand No B 109 : Hall 2A

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CMD's MESSAGE

Dear Friends

In this great continuum of life, every calendar year end is a defining moment. A moment for one to look back – and more importantly a moment to look ahead.

As 2008 comes to an end and as we stand at the threshold of 2009, I wish you and your family the very best for 2009. May 2009 have the choicest of blessings, abundant happiness and excellent health and spirits for you.

I also look back at the year gone by and am left with a diverse mix of experiences of 2008, but 2 feelings stand out significantly. That there is HOPE and there is FAITH. Faith in the opportunities that will present themselves and more importantly faith in ourselves and our capabilities to meet these opportunities. Faith and self confidence- that we will continue to do our best to delight our customers, and faith and self confidence- that you will reward us with your continued patronage.

I look ahead to 2009, and despite the irrationality of it, again I see HOPE ! With Hope, there is RESOLVE, a commitment and maybe a little impatience to enhance and add higher value to relationships with employees, suppliers, technology providers, academic institutions, collaborators, JV partners.....
... all this with the hope and resolve of being able to add more value to that one relationship that is the raison d'arte of Micromatic Grinding- the bond with you – our customer.

This 2008 special issue carries our message of hope and the reasons and investments behind that hope. It also carries our resolve which we carry into 2009 as a guiding light to our collective endeavour.

As we move ahead with hope and resolve – we assure you of both adhering to our values and of Becoming the Best – and rediscovering ourselves to going to that elusive Next Level.

I personally assure you of our highest commitment to enhancing trust in our relationship.

Yours truly

NK DHAND

Chairman & Managing Director

.... That our Bangalore plant will enhance and add value to our customer relationships in the South.

With a view to more closely serve its southern customers, MGT invests in a new plant at Bangalore. The plant is located at Dobbaspet near Bangalore and has a plot area of 17,200 sqm. MGT is investing over Rs 250 Million into the plant in the first phase with a covered area of 4500 sqm and a production capacity of 200 machines. In the second phase, MGT will further invest Rs. 250 million to up the production capacity further.



MGT's BANGALORE PLANT

- 1 Oct 2008 - MGT commissions its Bangalore plant within one year of Bhoomi Pujan.
- 2 SNK high speed 5 face machining centre to machine bed castings. Other mother machines include turning, milling, radial drilling and surface grinding machines.
- 3 Dec 2008- The first set of 3 machines for a leading fuel injection manufacturer under proving at Bangalore plant.
- 4 Dec 2008 – First machine rolls out of Bangalore plant – a happy occasion for the customer and a happier occasion for all of us at MGT !



WE
HOPE...

.... That our relationships and alliances with global thought and technology leaders will contribute to technological enhancements and learnings for us- which we will turn into strategic advantage for our customers

Co working with our 2 Swiss partners

Switzerland – the home of the precision watch industry has the world's top watch brands like Rolex, Rado, Swatch etc. And they have an individual as well as national reputation to maintain.

Naturally, wherever there is the need for precision, there is the need for grinding- and that is where our 2 Swiss partners come in.

In a unique co-working arrangement we mutually finalized, Wälti & Fumasoli discuss intricate grinding requirements of clients, design solutions, and obtain contracts. MGT designs and manufactures the basic machine and exports it to Switzerland. Rewitech SA, then tools up the machines and outfits the basic machines with the automation devices designed by Wälti & Fumasoli. All 3 of us then serve the customer collectively.

Till date the W&F-MGT-Rewitech association has supplied 20 machines to different customers

REWITECH SA Rewitech SA (established in 1988) and located at Lelocle in Switzerland which is near French border is managed by Mr. F. Wittwer- a renowned precision grinding expert.

Rewitech has a team of people with extensive domain and application competence, and manufactures SPMs for the high precision grinding of Rolex, Rado, Swatch and others in Europe.

Rewitech serves the precision requirements of diverse applications in aero space, machine tools, automobile, watches and has a total customer base of more than 250 spread all over Europe.

MGT's
GLOBAL
ALLIANCES-
THE
SWISS
CONNECTION



W&F is based at Grenchen in Switzerland. The company is managed by Mr. Werner Wälti and Mr. Ezio Fumasoli. Mr Werner Wälti is a veteran with over 40 years experience in the design and manufacture of high precision cylindrical grinders. Prior to setting up W&F, he was Technical Director of a renowned cylindrical grinding company in Switzerland. The other partner, Mr Ezio Fumasoli was the Head of Sales and Service in the same company and he also has over 30 years experience.

W&F has tremendous capability to design solutions for practically any grinding requirement and then outfit the machines with a tooling and automation suite. They also have the unwavering commitment from their satisfied customers and have a full sales team.

MGT's China foray



In China, the Ace Micromatic Group has set up its own company Mi Ace. Currently Mi Ace is staffed by 5 people (2 from India and 3 Chinese), there are 5 dealers and we are expanding fast. Mi Ace is based at Shanghai and is currently selling to nearby provinces of Jiangou, Zhejiang, Henan and Guangdong. Watch this space for more on Mi Ace

- ① M/s Werner Walti, E Fumasoli (of W&F), Lionel Biossenin, F Wittwer (of Rewitech) in discussions with the management of MGT (not in picture)
- ② Rewitech personnel proving the base machine supplied by MGT and tooled up by Rewitech based on W&F design inputs.

MGT's GLOBAL ALLIANCES- THE JAPANESE CONNECTION



Toyoda Micromatic Machinery India Limited

JTEKT Corporation is a Japanese conglomerate of hundreds of companies all over the world in the business of machine tools, bearings, steering systems, automotive products, hoses, diamond tools etc. The Group has a vision of driving intelligent motion technology.

The JTEKT Group employs around 40,000 employees all over the world and has turnover in excess of US\$ 13 billion.

It is a matter of great pride for all of us at MGT to have a JV with this Group. The new company formed under this JV is Toyoda-Micromatic Machinery India Limited. The JV will undertake sales and service of Toyoda high precision grinders, machining centres and other machine tools from Japan and Toyoda-Micromatic range to be manufactured in India.



After all these years of denial to the critical machine tool sector, 2008 was a refreshing and very welcome year for MGT when we forged critical technology alliances and JVs. We look forward to the future with tremendous faith and enthusiasm



MGT's other global partners

In other areas of the world including USA, UAE, Turkey, Thailand and Australia, MGT is represented by like minded agents who are sensitive to customers and technologically proficient themselves. We like to believe they are MGT partners not agents and are investing significantly to enhance these relationships and also forge many more.

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USA	RSS Grinders & Automation, Inc.	Mr. Sachin Shah	sales@rssgrinders.com
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THAILAND	Machinery Emporium Co. Ltd.	Mr. Sam Sang	gsam2k@ren2k.com

1 Mr Yokoyama San, President, JTEKT Corporation and Mr Narendra Dhand, CMD of MGT shaking hands while exchanging the JV documents – a very momentous occasion for all those associated with MGT.

2 The first Toyoda-Micromatic cbn cam shaft grinder model GC 20M-25S manufactured in India! The Japanese obsession with quality meant a cycle time of 4 years for building this machine!

WE RESOLVE...

.... That we will co-work with the global best and enhance India's capability in high precision grinding, that we will in the long run ensure that India is technologically a positive contributor in the field of precision grinding, machine tools & machinery manufacturing

WE
HOPE...

.... That our people competence will enhance to meet your increasing expectations, and that our relationships with old and new employees will continue to derive from mutual love and dedication to the common goal

People capability and people motivation is what makes the organization.

Technology denial in the past necessitated alternate modes of exposing our people to technology and more in-house thrust. With the current environment of technology access, we have global leaders providing training on technical areas.

This goes a long way in enhancing the technical skills of our people that impacts favourably for the customer.

Technical Area of Training	Impact
Precision scraping of bed castings	Improved machine life and reduced vibration
Process of manufacturing of work spindle	Achievement of roundness close to half a micron
Surface quality improvement in critical functional components	Improved precision of machines
Surface preparation and painting quality	Improved machine aesthetics
Art of machine assembly	Improved machine reliability and reduced failure rates

MGT
INVESTS
IN ITS
PEOPLE
CAPABILITY



- 1 Left to right M/s Narayan G Muramatti (CEO), Laxmeswar Math (AGM - Assembly) and Mahesh Samaria (AGM- Design & Application) of MGT Bangalore
- 2 2 technicians (Shailendra Yadav and Sitaram) and 1 Sr. Engr. (R A Yadav) from MGT get hands on training at the Rewitech facility in Switzerland. They were exposed to better technology and skills for scraping.
- 3 The result of the toil – scraping quality has been improved to obtain 20 spots per sq inch!
- 4 1 technician (Tej Bahadur) and 1 manager (Rajesh Kumar) from MGTL get hands on training at the JTEKT facility in Japan. They were exposed to better technology and skills for machine assembly as well as scraping.

WE
RESOLVE...

.... That we will make significant investments in upskilling our people, training them in technical skills, exposing them to global business scenarios, making them more accountable and professional, yet anchor that relationship with care and foresightedness

WE HOPE...

.... That our co- working relationships with customers will first result in better environmental conformance of our industry and more important ensure care and contribution to the future of our planet



MGT CARES FOR ENVIRONMENT

One of the biggest challenges facing the world today is the state of the environment. With increasing realization, regulatory bodies and governments all over the world are driving environmental conformance into corporate agenda.

Responsible corporates naturally respond to this.

Fuel injection is a significant area industry is working at. MGT works closely with the leading FI system manufacturers to provide solutions that enable them meet stringent requirements including Euro III & beyond!

Says **MK Jayaram**
Asth Engineer –PED of
Delphi TVS

“ In a fuel injection system, the heart is the fuel pump. Of the various parts more than 70% parts require to bear over 200 bar pressure and perform stringently all the time in field conditions. This entails very high accuracy needs.

We were importing machines from various global companies and have worked with MGT as well and we find them as good in the accuracy levels as the foreign machines. We think they compete very well.”

Adds **Jai Ganesh P**
Asth. Engineer of
Delphi – TVS

while proving trials are on
“ Basically the process starts by us sharing our component requirements with MGT. They then design the complete solution and prove the same to our requirements. We need sub micron accuracies with a CpK value of more than 1.67 which they are meeting, so we are happy.

We are well on our way to meet the emission requirements of the future and are happy to have partners like MGT who work closely with us for that”

Says **G R Pradeep**
Engineer of Bosch at
Bangalore

“ As you already know the pump component demands sub micron accuracies and we need CpK of more than 1.33 and CmK of more than 1.67- so MGT has to specifically tailor make their machines for us, which they are doing well and we are happy”

Adds **Mohd Asifulla**
Superintendent
Manufacturing at
Bosch

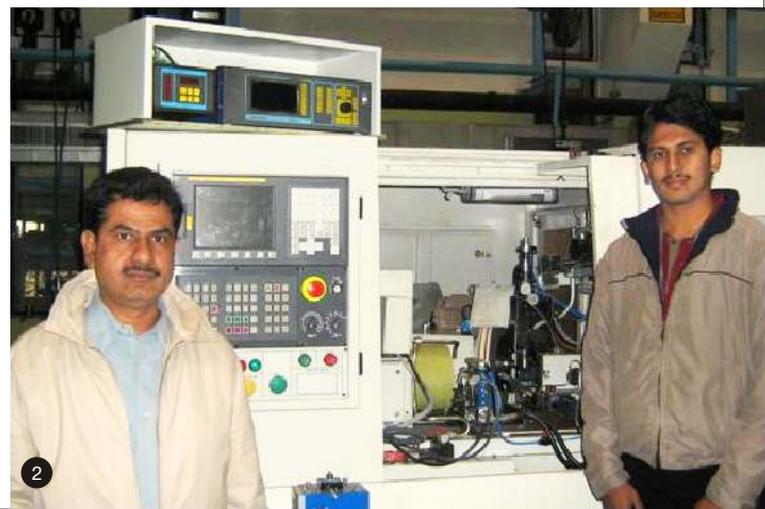
“ We have good experiences with the global companies and now that we have worked very closely with MGT, we feel they are nearly as good and we are getting the accuracies we need and the cooperation and technical inputs as well. We will be able to meet even Euro III requirements from our Jaipur plant.

It is good to have Indian companies with the type of competence like MGT which is very much required for us”

DELPHI - TVS
Diesel Systems Limited

 **BOSCH**

- ❶ MK Jayaram and Jai Ganesh of Dephi TVS, Sriperumbudur at the Micromatic factory while taking trials of their products
- ❷ Mohd. Asifulla and G R Pradeep of Bosch Bangalore at the Micromatic factory while taking trials of their products on MGTL machine.



WE RESOLVE...

.... That we will be significantly guided in all our relationships to reduce waste, emission, pollution. That we will make investments to ensure better energy efficiency and use technology to continually improve our environmental care

WE HOPE...

.... That our technology initiatives, our enhanced design expertise and our spirit of innovation will coalesce with our customer relationships to create solutions for a wider variety of precision grinding applications in a wide variety of sectors

MGT's APPLICATION SUITE

AUTOMOTIVE



In the developed economies, just around 40% of grinding requirements emanate from the traditional and core automotive sectors. In India, nearly 90% of grinding comes from the core sector.

With an eye on the future, MGT is developing capability and acquiring domain expertise of other sectors disposed to precision grinding.

Some initial successes have already happened and MGT is poised to meet the diversity of requirements from other non core grinding sectors.

Automotive

1. Fuel injection
2. Power Train
3. Transmission
4. Engine valves

Other precision sectors

1. Printing
2. Pumps

3. Cutting tools
4. Electrical & Electronics
5. Medical
6. Machine Tools
7. Tooling
8. Steel mills
9. Aerospace
10. Other sectors

- Bearings
- HVAC
- Textiles
- Instrumentation
- Hydraulics & pneumatics
- Tool room
- Agriculture

WE RESOLVE...

.... That we will make investments in innovative machine building and significantly enhance our knowledge bases and understanding of the non traditional sectors of precision grinding

.... That our capability in machine designing, building, testing, and proving as well as our knowledge of grinding will be enhanced and ahead of industry standards.

MGT's NEW RANGE Stallion Series

In 1985, we developed our first CNC machine – an extension of the hydraulic machines we had till then.

This high performing GCE series which has become a favourite with our demanding customers is gradually being phased out and will be replaced by our **new Stallion Series**.

MGT STALLION SM 40 CNC –ideal for mass production of medium sized components

- Substantially downsizing the component loading height and loading distance Micro taper correction on Tailstock as standard +/- 75 microns
- Machine width less than 2.5meters Swivel type pendent for ease in operation
- All electrical ducts are now inside well away from mist zone
- Belt covers are with rubber seals to avoid mist entry
- Cover for Guide ways are foolproof from coolant and mug entry.

MGT STALLION SH 63 CNC –ideal for mass production of large and heavier components

- Higher wheel surface speed 60 m/s for higher productivity
- All major components like bed, table, carriage etc. designed to permit adequate and smooth flow of coolant and avoid coolant / oil mixing.
- Swivel type pendent for ease of operation. Design does not permit ingress of grinding mist.
- Bigger front opening for convenient loading/unloading of component. Bigger wheel load/unload door for quick and safe operation

SM 40 CNC



Description	Unit	Specification
Swing over table	mm	320
Admit between centers	mm	400
Grinding length	mm	400
Grinding diameter	mm	100
Peripheral Wheel speed	m/sec	45
Spindle power	kW	7.5
Work head taper	MT	5
Tail stock taper	MT	4
Micro taper correction range	mm	+/-0.075

SH 63 CNC



Description	Unit	Specifications
Admit between center	mm	630
Swing over table	mm	320
Grinding length	mm	630
Grinding diameter	mm	200
Peripheral Wheel speed	m/sec	60
Spindle power	Kw	11/15
Work head taper	MT	6
Tail stock taper	MT	5
Microtaper correction range	mm	+/-0.040

MGT's new Stallion series

Medium Series	Heavy Series	Hydrostatic series
SM 40	SH 40	SH 40 S
SM 63	SH 63	SH 63 S
SM 100	SH 100	SH 100 S

WE
HOPE...

.... That our relationships and alliances with industry associations, NGOs and individuals will contribute to better understanding, improved empathy, enhanced sensitivity and heightened concern for those less fortunate elements of society

As a responsible corporate, MGT firmly believes in giving back to society and helping – rather enabling our less fortunate brothers and sisters. MGT has been supporting a grass roots NGO , Gram Niyojan Kendra which works in Ghaziabad. Some glimpses of our successes (we consider this as important as our technology success!)

MGT CARES FOR SOCIETY



- 1&2 CII, Northern region conducted a workshop on “ Women's Empowerment” at MGT premises on 15th December 2008. MGT is taking initiative to propogate the message of Women's empowerment and Gender equality in the Ghaziabad district.
- 3 Sonia is one of the 17 girls trained in tailoring by Gram Niyojan Kendra, a grass roots NGO supported by MGT. Today she is able to earn over Rs 1500 per month from home and there is a different confidence and glow in her personality after this intervention.
- 4a&4b Manisha and Indu are amongst the 7 girls trained in beauty treatment. With the assistance of Gram Niyojan Kendra they have started their own parlours and earn Rs 3000 per month. Micromatic supports Gram Niyojan Kendra to encourage young people into entrepreneurship by training them on vocational subjects.
- 5 Micromatic supported Gram Niyojan Kendra is run by 2 PhDs and aside of vocational training , they organize Self Help groups, Health awareness camps, Health care attendant training and other capability building activities. Raispur, the village only 4 km from MGT, Ghaziabad where these activities are run has witnessed a vast change in incomes, social awareness and gender sensitivity.



WE
RESOLVE...

.... That we will be an active proponent of change in society, contribute a diversity of resources to bridging the gaps and work tirelessly to ensuring a smile on the face of every one around

.... That our relationships with suppliers, R&D laboratories, academic institutions, and every other enhancing relationship will coalesce to create a sustained competitive advantage for us – and intrinsically improve our ability to add value to you

MGT- India's only SME to be acknowledged by the Humanistic Network, Switzerland

The Humanistic Network, Switzerland works towards the propagation of humanistic values in economic activity and the maximization of societal benefits from business rather than individual profits.

MGT is India's only SME to be included in their case study compilation. The others from India are the TATA Group and AMUL.



MGT- IIT, Delhi co work towards LCC(Life Cycle Cost) reduction

MGT is co working with IIT Delhi to use Life Cycle Cost Analysis into design elements with a view to sustainably reduce LCC for MGT customers. LCC analysis gets into:

- Reliability of elements
- Reliability of design
- Operating costs
- Breakdown costs
- Space costs
- Service responsiveness costs
- Diagnosis costs

You can now expect MGT machines to be the most valuable choice for you!



MGT - IIT, Madras co work towards assessment of MGT grinder for non steel applications

MGT and IIT Madras are co working to assess the validity of CNC OD grinder manufactured by MGT for precision finishing of different materials including glass, plastics, semi conductors(



silicon wafers). The project is supported by the global leader - St Gobain. Dr. K. (Subbu) Subramanian, Director - Core Technology (SPT), Saint Gobain Co., Higgins Grinding Technology Center, USA is to help as the Technical Advisor, and utilize the CNC grinder from MGT as the test platform.

Micromatic Manufacturing Systems (P) Ltd. (MMS) – New sister company set up with MGT support for establishing a sheet metal fabrication unit.

MGT has given a base load commitment to the fledgling MMS to set up a top-of-the-line sheet metal unit at Ghaziabad. MGT in its quest for quality inputs would source all its sheet metal requirement from MMS. MMS is investing in:

- CNC Laser cutting machines
- Press brakes
- Welding machines
- Powder coating and drying plant



MMS would go into production from January 2009 and is gearing up its processes. CNC laser cutting machines will ensure high accuracy and productivity of cutting a wide variety of metals. Pre treatment will be by using nano ceramic materials to provide for uniform coating thickness and also be environmentally caring.

Powder coating and other finishing will be as per global standards. MMS will also supply to other demanding industries like electrical panel manufacturers, other machine tool companies, HVAC industry, DG industry and telecom industry.

MGT's NEW TAG LINE

The best input for maximizing your output
The best input for maximizing your output
The best input for maximizing your output
Reliable Customer friendly grinding solutions
Reliable Customer friendly grinding solutions
Reliable Customer friendly grinding solutions



The new tag line should convey to our customers that there is renewed commitment and energy at Micromatic Grinding to go that extra mile for the customer. And also that in a spirit of partnership, we are on the same side of the table as and with our customer.

JP Malik, Joint Managing Director



The new tag line reflects our commitment to move our customer relationships to the next plane. Ever since our inception, we have always been sensitive to our customers, we were the first in industry to conduct Customer Satisfaction surveys- now we desire to take our customer relationships to the plane of friendship and partnership. Our processes are being geared up accordingly.

SE Dhand, Director



Having worked in design function, the focus was at creating solutions for customers to enable them get better productivity and accuracy. Now working in Manufacturing & Quality, the focus is on implementing lean manufacturing concepts – again so that customers may get cost effective solutions and faster pace of response. I am happy that our new tag line reflects this customer focus and friendliness as well as our commitment to provide total solutions, not products alone.

Kapil Dhand, Director



I had worked for 19 years in industry and even before joining MGT, I had the impression that MGT is a highly reliable, quality conscious, and technologically oriented company. Now having worked for around a year, the refreshing difference in approach to customer is also becoming apparent. On many occasions I have felt that MGT personnel believe they are working for themselves and that it is their company. This spirit has helped MGT to become very customer focused and friendly. I am happy that our new tag line reflects this special trait of the company.

NG Murammatti, CEO –MGT Bangalore



We were in any case a quality oriented company. But with this new tag line of ours we want to give a message to our customers that now we are managing ourselves not by management guidelines but by customer needs and desires. Every worker today knows that he is building a machine for so-and-so customer and takes pride in that.

Rajesh Sharma, Asst. Manager – Assembly shop

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