

Volume 48

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Micromatic Grinding  
partnering customer's  
progress offering  
"Reliable Customer friendly  
grinding solutions"

**PRODUCT FOCUS**

Heavy Duty CNC  
Cylindrical Grinder  
for Printing Rolls

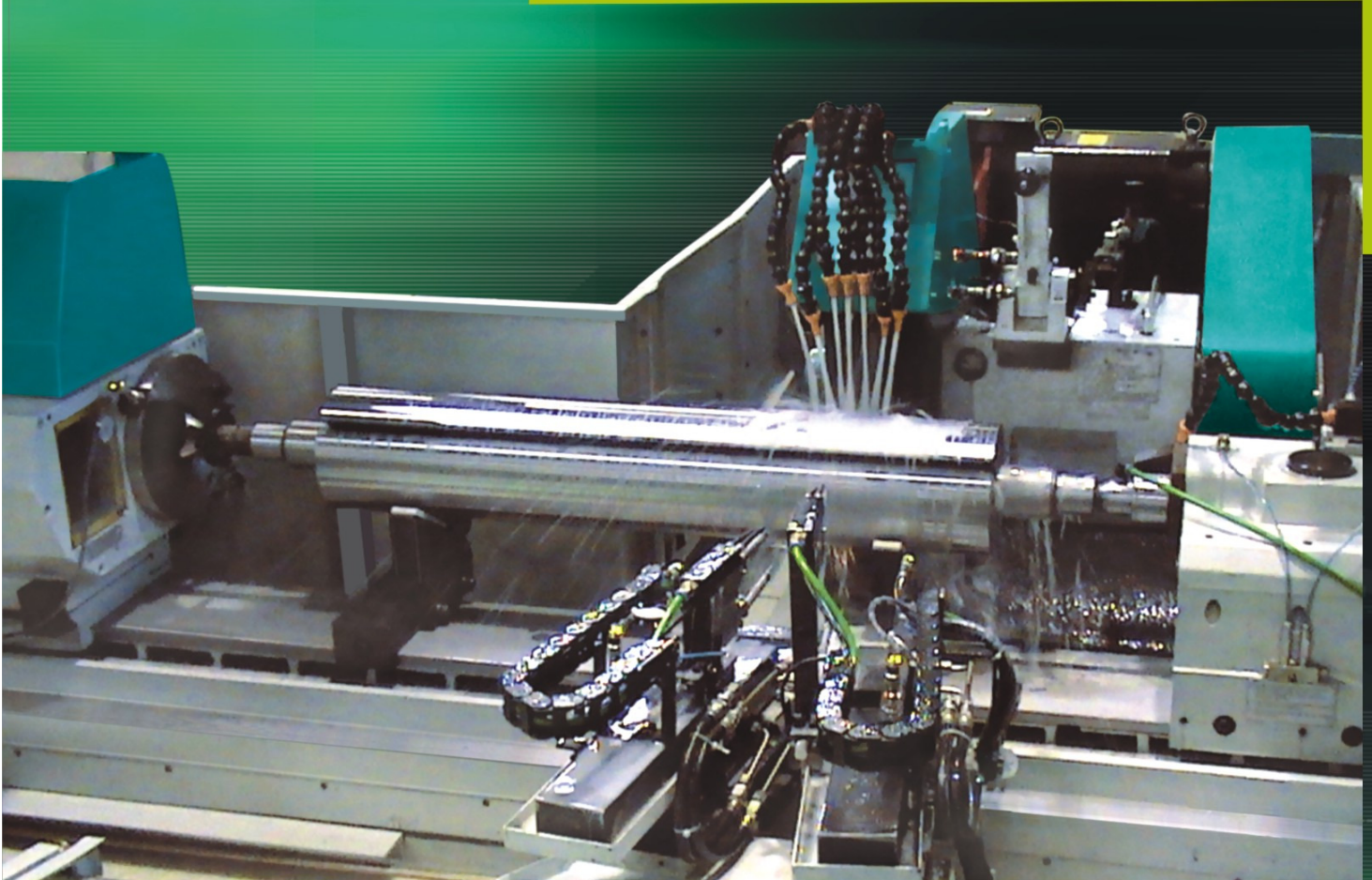


Model GCHE 440 X 1600



# NEWS

News Bulletin from Micromatic Grinding





# news contents

# Editorial



Pg.3 & 5



Customer Focus

Pg.4  
**Exclusive Interview**

Mr. Anoop Gupta  
-DGM Engg.,  
SONA KOYO

Pg.6

**What's New?**

MGT Expansion Project

Happening's at MGT



Pg.7

Pg.8 LCC Study by  
MGT & IIT-Delhi



Pg.9

**MGT at**



Pg.10

**New Product**



**Flexi-65**

**Product Focus**



Pg.11

**GCHE 440x1600**

Dear Readers,

In a competitive business scenario, we must find ways to differentiate ourselves from others and maintain an economic advantage by offering superior products & services to our customers. The distinct edge of every manufacturing industry is how one plans its resources and processes them for best optimized results. MGT has always been a front-runner in adopting world class system approach in manufacturing. After about eight months of preparation, we are proud to announce that we have achieved one more mile stone in the History of MGT. State-of-the-art ERP system from World renowned SAP was successfully implemented at MGT. The new system attained "Go-live" status on 12<sup>th</sup> November, 2007. I am sure that with this major step, we will be better equipped to service the requirements of our customers more efficiently and in a shorter time. Special thanks to the team from WIPRO and MGT SAP Core Group who have worked day & night to make this happen.

MGT firmly believes that a satisfied customer is the only way to growth. Opinion of some of our satisfied and valued customers is included in this issue. Wish you all a very Happy & Prosperous New Year.

Sidhartha E. Dhand  
Director

From the desk of

## Chairman & Managing Director



Dear Friends,

At the outset, please allow me to wish you, your associates and your families a Very Happy, Healthy, Peaceful & Prosperous New Year. Our desire to keep pace with constantly changing customer demands, empowering them with new and more productive products and leveraging our technological strength for customer growth drives us to offer "Reliable Customer Friendly Grinding Solutions".

Looking back, exactly 30 yrs ago in 1977, the first machine manufactured by us ( a Hydraulic Universal Grinder GC 200U ) made debut in IMTEX 1979 and won prestigious CMTI – PMT Trust award and FIE Foundation award. This machine was delivered to Pragati Automation, our associate Group Company in Bangalore. It is a matter of great pride to us that this machine is still working with original accuracies and productivity at Pragati Automation. Now after 30 years, history repeated itself when we delivered our first CNC Universal CNC Cylindrical Grinder to Pragati Automation in 2007 to grind their Fixed Coupling component of turrets. Considering high accuracy requirements, OD, ID and face of the component has to be ground in a single setup. This machine has been developed with a lot of technical inputs and very active support from Pragati Automation. This is yet another case of MGT working pro-actively with the customer to provide "Reliable Customer Friendly Grinding Solutions".

MGT during its entire existence of more than 34 years has been associated with all its customers as a partner and has thus been able to provide many innovative solutions to their grinding requirements. This has of course helped MGT also to grow and enjoy the confidence of the entire manufacturing industry.

I wish to assure that in times to come, we will continue this tradition of working as partners with our customers.

Sincerely,

N.K.Dhand  
Chairman & Managing Director

## History Repeating After 30 Years!!



Recently delivered CNC Universal Grinder FLEXI 65 to Pragati Automation Pvt. Ltd. (Product Details on Pg.11)



First machine GC 200U delivered in 1979 to Pragati Automation Pvt. Ltd. still running under production

# Customer Focus

## Cummins Turbo Technologies Ltd.



Cummins Turbo Technologies is the world's largest manufacturer of turbochargers for the medium-heavy duty diesel engines market and the reputation for bringing innovative solutions to the specific product requirements of this key market sector. To Support their customers Cummins Turbo Technologies has manufacturing plants located in Europe, North and South America and India, with a joint venture in China.

Cummins Turbo Technologies has been designing turbochargers since 1960 and the company has an outstanding track record in class-leading turbocharger technology, being the first to market with the variable geometry turbine (VGT)™ turbocharger for heavy duty diesel engines.

**Expansion Plans:** Cummins Turbo Technologies will open a new world-class facility in Pithampur, India. The initial \$15 Million USD investment will create 80,000 square foot facility and will generate up to 300 new employment opportunities over the next few years and substantially expand Cummins Turbo Technologies capacity while allowing room for further growth.

CTT facility in Dewas has expanded and is now operating at full capacity.

Pithampur will work in tandem with Dewas to enable the company to better meet demand from the domestic as well as global markets.

## MGT Commitment to CTT

Mr. Amit Shrivastava – Sr. Engineer, Manufacturing Engineering. CTT-India

“MGT has played a phenomenal role in setting up initial processes at CTT and has shown commitment to deliver cost effective and value-for-money machines in recent times. CTT appreciates the internal

controls of MGT to deliver quality machines. Logical approach and understanding of customer requirements down the level is good. MGT is one of those very few machine tool builders who have potential to practice manufacturing excellence. But we are also aware that improvement opportunities always exist! CTT perceives and has witnessed following strengths in MGT:

- Technical capabilities and ability to understand process risks and requirements.
- Ability to meet quality criteria and productivity needs.
- Professionalism of the persons involved during pre-order and execution phase.”



## Mr. Anoop Gupta – DGM Engg., SONA KOYO

with an **Exclusive Interview** by  
Mr. Amit Goel – Dy.Mgr.,MMT.-Delhi



Mr. Anoop Gupta

### **Sona Koyo Steering Systems Ltd. Is the flagship company of Sona group.**

**Sir, Please brief us about your company and your collaborations?**

In May 1997 Koyo increased the equity to 20.5% from 8%, and the company's name changed to Sona Koyo Steering Systems Ltd. from Sona Steering Systems Ltd. Sona Koyo has three plants – Gurgaon, Chennai and Daruhera. There are three technology partners for Sona Koyo. JTEKT, formerly known as Koyo Seiko Co. Ltd, is the main partner. Sona Koyo is QS 9000, TS 16949 and IS 14001 certified. Japan Union of Scientists and Engineers awarded us with coveted Deming Prize in the year 2003 in recognition of our TQM practices. In November 2005 we were awarded with Forst and Sullivan award for achieving excellency in manufacturing.

**What are range of products under present manufacturing and your future plans?**

Our company manufactures manual and hydraulic power steering gear assemblies, Rack and Pinion type and Re-circulating ball screw type for passenger cars, multi-utility vehicles and light commercial vehicles. Our product profile also includes drive line products, such as Axle Assemblies, Propellor Shafts, Differential Assemblies and Drive Shafts.

**What are your future expansion plans?**

Recently we have set-up three joint venture companies, they are JTEKT Sona Automotive, Sona Fujikiko and AAM Sona Axles. To serve our customers better we are setting up plants at three different locations at Daruhera, Pant Nagar and West Bengal.

**Mr.Gupta, since you are buying a lot of Indian and Imported machine tools, how do you rate presales process of Micromatic Grinding?**

First of all I appreciate the well structured coordination between the MGT factory team with their front line marketing team MMT. The response from the MMT is not only good but their approach to understand our specific requirements is appreciable. Proposal from MGT is always a well done job, having total clarity on our requirements and the offered scope. I will say MGT-MMT approach not only focused on clarifying scope of order but help us shorten the cycle of ordering process.

**What about the machine delivery, machine commissioning support?**

Sona Koyo being a OEM supplier, deliveries are extremely critical for the success of each project. Our expectations from machine tool builder is not just the delivery but finally the date the machine is in full production. At MGT, most of the time, machine readiness exceeds our expectations and commissioning and support in terms of training to our operators and proving of components is in line with our production plan.

**How do you rate the machine performance in production?**

There is absolutely no compromise on quality of components produced and productivity. We are highly satisfied from MGT about product quality and consistency on performance of machine even though we operate the machines in 3 shifts.

**Today every body is talking about plus features and relationship of buyer and supplier. How do you rate MMT in this regard?**

MMT is undoubtedly proving best in delivering services and we highly appreciate not only the timely deputation of service engineer but also the positive attitude and the capability of service engineers in solving the problems.

**Our final question, what in your opinion are the top three strengths of Micromatic Grinding and your overall satisfaction level?**

In my opinion top three strengths of MGT are:

- Positive attitude for improvements
- Commitment to delivery
- Prompt after sale service

Overall satisfaction is more than 80%

Thanks a lot Mr. Anoop Gupta on behalf MGT & MMT for your valuable time and feed back and we re-affirm our commitment to live up to your expectations.

**What's  
New?**

# MGT Expansion project at Bangalore in its full pace

M/s Micromatic Grinding Technologies Limited has now taken up an expansion plan at Plot No. 5/A, KIADB Dobaspet Village Somapura, Neelmangla, Bangalore with total area 4.3 acres. The site is located at a distance of about 33 kilometers from Bangalore towards Tumkur on NH-7 ( Bangalore – Pune ) highway. Thus the site is well connected with road and rail network and hence no difficulty is envisaged in transportation of raw materials and finished goods. Through this expansion plan the installed capacity of the company will go up to 500 numbers of high precision cylindrical and special grinding machines. An investment of Rs.15 crores in next 2 years has been planned on plant and machinery that includes SNK High Speed Five Face Machining Centre for machining of bed castings for all the Grinding Machines manufactured by the company.

The Civil work has already started. It is envisaged that company would commence operation from May 2008.

Through our Bangalore plant we assure following direct benefits to our Customers:

Lot of finishing ( hand scraping ) work is presently done manually at our Assembly. Installation of five face machining centre at Bangalore will reduce lead time, improve quality & achieve higher accuracies to produce machine.

Because of production pressure at our Ghaziabad plant, we could not fulfill 100% demand of SPM's of our customers . We are planning to take up all these challenges from Bangalore plant.

Leading Machine Tools manufacturers and our group companies Ace Designers, AMS, Pragati all are in Bangalore, which has lead to evolve better supply chain management at Bangalore. We are sure this will help MGT unit at Bangalore in reliable outsourcing and will also help MGT – Ghaziabad.

Major manufacturing growth happening in south, MGT will be closer even to the customers from south.

## Strengthening MGT team for our Bangalore Unit.

Mr. Narayan G. Muramatti has joined us as CEO – Bangalore Unit. Mr.Muramatti has done B.E. (Mechanical Engineering) from Karnataka University in 1982 & has more than 25 years of working experience. He belongs to Dharga, Hosur.

Mr. Mahesh Kumar Samaria has joined us as AGM (Design & Application Engg.) – Bangalore unit. Mr.Samaria is a B.E. (Mechanical Engg.) from REC Jaipur in 1991 & MBA from FMS, MDS University, Ajmer in 1997. Mr.Samaria has wide experience in Cylindrical grinders designed for Pin and Journals of Crankshaft and many other SPM's. He belongs to Ajmer, Rajasthan.

We welcome Mr. Narayan G. Muramatti & Mr.Mahesh Kumar Samaria in MGT family.



Site under Construction



Inspecting the site (MGT Team)from left  
Mr.S.K. Dujari, Mr. N.G. Muramatti,  
Mr. Vijay Kumar & S.E.Dhand

# Customer Focus Contd...

## Highway Industries Limited



Highway Industries Limited is a part of Hero Group – The glorious journey of Highway Industries Ltd. began in 1971 when it established its cold forging unit for manufacture of bicycle components. After achieving a landmark of being the largest manufacturer of single and multi speed freewheels in the country, it has diversified its activities to manufacture hot and cold forged and precision machined components

HIL is an ISO/TS:16949:2002 certified company and has been awarded ISO:14001:2004 and OHSAS:18001:1999 Heavy duty imported forging presses and state-of-the-art machines coupled with highly trained technical staff, in-house machine tools building capability and latest testing equipments have made Highway capable to produce parts as per customer requirement. Highway produces a wide range of forgings and finished components such as crank shafts, connecting rods, kick starter spindle, arm assembly, flange axle, variety of shafts and flanges, sleeves, tractor parts, other engineering products, etc. Under the dynamic leadership of its visionary Managing Director, Mr. Umesh Munjal, the Company achieved spectacular progress and it has, now, three divisions situated in an area of 8 million sq.ft. in Ludhiana. With a turnover of about USD 30 Million in the year 2006-07, Highway has a work force of over 1400 persons.

### MGT Supporting HIL in Exports

**From the desk of Mr. Amrik Singh, Sr. Vice President, Highway Industries Limited**



Our association with MGT goes back to almost eight years. Initially, we were using their machines for manufacturing automobile components for domestic market but with their machines proving that they are second to none, we have added few more machines, sometimes at the cost of imported machines. We appreciate MGT's highly talented marketing and after sales services teams. A single call is enough for them to be at our doorstep to take care of our requirements. Commitment to customers' delivery schedule is also satisfactory. Quality of parts made on MGT's machine had been a challenge in the past but we found that MGT took it head on, as a result of which, we are, now, processing a number of critical components on their machines for some reputed overseas buyers. Always, there is scope for improvements and we feel that MGT is on the right track. In my opinion top three strengths of MGT are:

- Ability to understand customer's needs
- Resolve to meet customer's production and quality parameters
- Timely support for after sales service

All things considered overall satisfaction with Micromatic Grinding is more than 80%.



# Happening's at MGT

## Freshers enthralled at Grand MGT Freshers' Party

Celebrations are always events to look forward to in the organization and this year our Freshers Party was held on the very first day of the year 2008 at Hotel ADR, Ghaziabad. Freshers had a gala time in the evening with abundant enthusiasm and vigor. They got a chance to make themselves familiar with each other and also with senior members of MGT to generate a feeling of involvement & enjoyment. The event was superbly organized and the flavour of the evening was enhanced by live music and of course the high energy level of our freshers who could barely stay off the dance floor. Freshers had spectacular opportunity to showcase their talents and also got ample chance to mingle with each other. The party ended with the gift distributions and the surprise element of lucky draw spiked the whole gathering. Gifts were distributed by our CMD Mr. N.K. Dhand. This recreational activity was an ice-breaker with the freshers and was certainly a remarkable experience having gelled well with everyone around. It was indeed an evening that would be remembered by all of us, we hope to continue this tradition of inducting new members in our family, making them feel welcomed. Freshers are now having a blast being an integral part of MGT family.



## SAP Go Live In MGT

The attainment of excellence is an ongoing initiative, MGT constantly seeks new avenues to acquire exemplary technology skills and quality-centric processes. Following this philosophy MGT recently commissioned a world class enterprise solution from SAP Germany.(Expanded form of SAP AG – "Systeme, Anwendungen und Produkte in der Datenverarbeitung ("Systems, Applications and Products in Data Processing")").

After a day & night working for almost eight months, a team of nearly 35 people from MGT and WIPRO has finally succeeded in implementing SAP in MGT.

While we compliment our team, we would like to share how SAP will benefit not only MGT but also our customers.

### Business Benefits to MGT and our customers

- Improve alignment of strategies and operations, hence workforce aiming for a common goal
- Improve operational efficiency and productivity within the enterprise.
- Reduce costs through increased flexibility, improved, process standardization, efficiency, and adaptability.
- Support changing industry requirements
- Improve financial management and corporate governance.
- Retain top performers through clearly defined career and development plans.



SAP Lab at MGT.

Mr. N.K. Dhand  
Releasing the first  
Machine Invoice  
from SAP.





Would you rather feel  
**Smart** for a day  
or for  
**years to come?**



**“ How many of us really know that “Supporting costs are 2 to 20 times greater than the initial Purchase Cost”**

*.....By H.Paul Barringer  
Barringer & Associates, Inc USA*

**Micromatic Grinding technologies is looking for ways to evolve OPTIMAL SYSTEM DESIGN FOR LIFE CYCLE COST: A RELIABILITY AND MAINTENANCE CENTERED APPROACH FOR MACHINE TOOLS. This Study is being jointly undertaken by MGT & IIT Delhi**

Our customers are in constant threat of competition from cheaper imported products. Exports have also become tougher due to a new found strength of Indian Rupee. In this situation customers are becoming increasingly cost conscious. They not only expect good quality and reliability at low price, but also want a low life cycle cost for the products they buy.

Let us understand first the basics of Life Cycle Cost (LCC)

#### **“What is LCC?”**

Life Cycle Cost is the total cost of ownership of any equipment over its entire lifespan. It includes:

- a. Acquisition Cost
- b. Sustaining Cost (Operation Cost & Maintenance Cost)
- C. Disposal Cost

Good News for our Customers: We as manufacturer of Cylindrical Grinding Machines focusing now to integrate all the issues of product's life cycle with design decisions. Seen in this light, the proposed research aims to develop/manufacture products with minimum environmental impact and optimized life cycle costs.

## **Announcement from the desk of CMD**



**Mr. J.P. Malik-JMD in his Office**

“I am pleased to inform you that the Board of Directors of the company in the last Board Meeting had decided to promote Mr. J. P. Malik as Joint Managing Director of the company w.e.f. 1st January 2008. We all know that Growth, Targets and Competition today & in the future is becoming challenging like never before. Breakthrough improvements in quality, reliability & enhancing people competence are focus areas needing everyone's total commitment & dedication. I am sure that under his leadership and with your co-operation, MGT will achieve its VISION by meeting these challenges and attain Global Leadership for our products and create customer delight.”



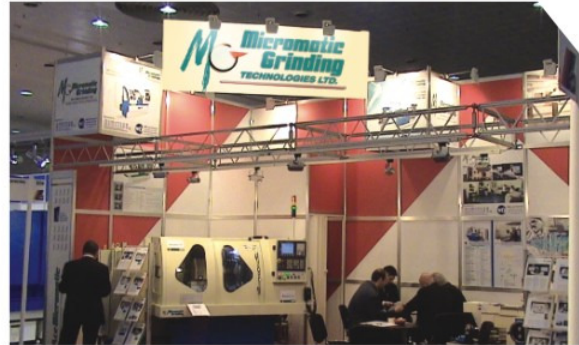
# MGT at EMO Hannover 17-22·9·2007

EMO Hannover is widely seen as the world's flagship trade show for metalworking and related technologies. In EMO 2007 there were 2,118 exhibitors from 42 countries and it attracted 166,000 visitors from all over the globe. Indian Machine Tool manufacturers made their enthusiastic and dynamic presence in this event.

Micromatic Grinding Technologies showcased its all new E GRIND 200 with a European look. The machine made a lot of visitors to stop, admire and register their enquiries. Micromatic Grinding also displayed its Precision Hydraulic Grinder GCU 260 X 630 with safety features meeting CE norms. MGT team that manned the stand included Mr.Lionel Boissenin from M/s REWITECH SA and Mr.Ezio Fumasoli from W+F our representatives for Europe. Their presence during the entire period of EMO helped a lot to interact effectively with European buyers.

“We are happy with the visitors’ response to Indian booths this year, dealers in particular. Most of our existing dealers in Europe were present at our booths during the EMO and there were lot of enquiries from new dealers as well for representing Indian companies in Europe, which clearly indicates the trend. Our (IMTMA) meeting with various European Machine Tools Associations should help strengthen our presence in Europe.”

N.K.Dhand,  
CMD MGT and  
President IMTMA



# New Product



## FLEXI-65

### CNC UNIVERSAL CYLINDRICAL GRINDER

The versatile universal cylindrical grinding machine is designed for grinding medium sized work pieces in small and large-batch production. It can be adapted precisely to the demands made on it.

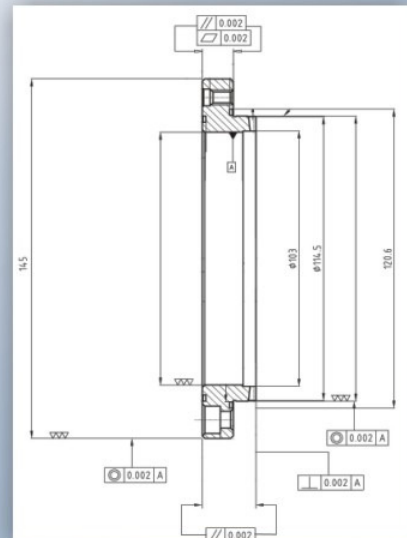
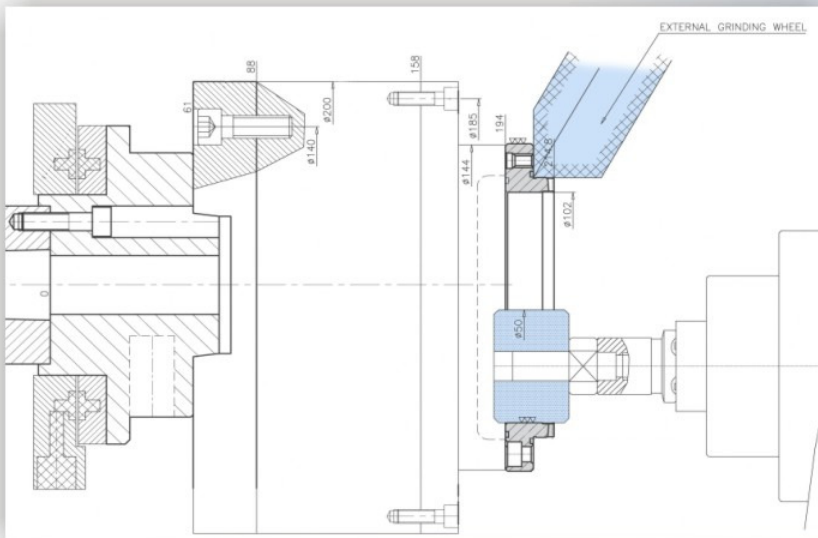
### ADVANTAGES

- Turret wheel head with automatic swivel (-15° to 225°)
- Two external wheels and one internal wheel enabling external, internal and face grinding in the same setup
- Frequency-controlled motor-driven grinding spindles for external and internal grinding
- C-axis option for work head enabling form and thread grinding
- Full enclosure
- Siemens PCU50 with windows XP control

### Technical Specifications of B-axis Machine

General Data		
Swing diameter:	mm	350 (External)
max length between centres	mm	650
Max Diameter of G/W	mm	350(400)
Peripheral Wheel speed	m/sec	33(45)
Swivelling range of B-axis	deg	-15 to 225
Max length of bore to be ground	mm	150
Job Length (With Chuck)	mm	240
Work head Taper:		MT5/A2-5
Tailstock Taper:		MT4

**Accuracies proved with in the tolerance as mentioned in the drawing**



# Product Focus

Heavy Duty CNC Cylindrical Grinder Model GCHE 440x1600



Good news for customer looking for precision cylindrical grinding machines for large and heavy jobs like Printing Rolls.

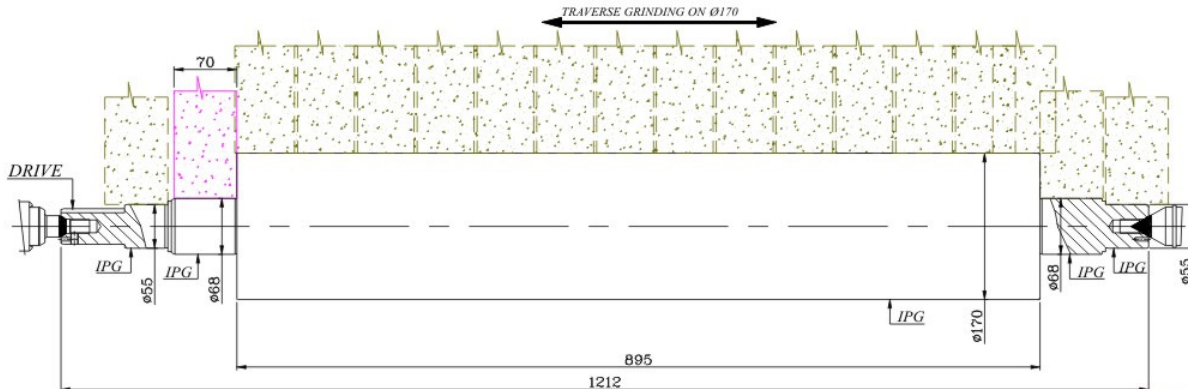
MGT has recently supplied Heavy Duty CNC Cylindrical Grinder to M/s The Printer House for grinding their printing rolls of lengths upto 1500mm and weighing upto 200kgs between centers. MGT has supplied 67 nos. Heavy duty cylindrical grinders H Grind & GCH series to various customers for diverse heavy-duty production applications ideally suited for end journals of long crankshafts in single plunge and grinding of Printing Rolls, Heavy duty punches, large shafts for different applications, big couplings and hubs etc. for automobile, agriculture and other heavy engineering industries.

The key features of this machine are

- Robust cast iron box structured design ensures high static and dynamic stability.
- MT6 Work head
- MT5 tailstock has a single piece construction with clearance adjustment facility.
- Less than 2 micron roundness accuracy is standard on live spindle.

SPECIFICATIONS	GCHE 350 / 440
Swing over Table	350/440mm
Admit Between Center	800/1600 /2000 mm
Grinding Wheel (Dia x Width)	660 x 100mm
Wheel Motor power	11kW

It is our continuing endeavour to catalyze your engineering ideas with the best possible inputs. Inputs that will help your manufacturing processes become smoother, faster, safer, and more profitable.



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