

HARDINGE CUSTOM SOLUTIONS

Productivity and profitability
solutions for a highly-competitive
global market.



800-843-8801
WWW.HARDINGE.COM

 **HARDINGE**

CUSTOM SOLUTIONS PROVIDER

Hardinge and their well-respected spectrum of products, resources, knowledge and experience is ready to tackle your next machining challenge. As the only machine tool OEM offering turning, milling, grinding, workholding and custom manufacturing solutions, Hardinge is ideally positioned to provide you with an innovative, cost-effective custom solution that meets your expectations.

The Hardinge Custom Solutions team of electrical, mechanical, process and software engineers have over 243 combined years of service and experience in all major industries.

- Over 500 custom solutions
- Largest single project totaling 11.1 million dollars

PART PROCESS DEVELOPMENT

Our highly-skilled group of applications engineers are qualified to assist shops lacking the key engineers needed to develop new processes for new applications. Complete services include specifying the proper machine, tooling and workholding, as well as CNC programming and complete process development.

EQUIPMENT AND CELLULAR AUTOMATION

Hardinge has the experience and the resources to design, manufacture or purchase innovative components for cellular automation. Examples include, robotics, bowl feeders, gantry loaders, part washers, inspection and gaging equipment. Benefits include reduced labor cost, improved consistency and thru-put, improved worker safety, improved machine efficiency and reduction in overall part cost.

MACHINE MODIFICATIONS

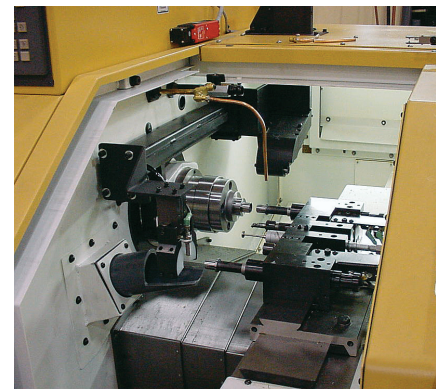
Productivity-improvement modifications include auto door, part probing, broken tool detectors, high-speed tooling spindle motors, mist collection systems, high-pressure coolant, thru-spindle coolant and custom software, to name a few.

CUSTOM-DESIGNED MACHINES

Hardinge has a long, proven track record for custom machine and workholding design and manufacture to accommodate special requirements.

FIELD WORK

We'll travel to your location for part process development, operator training and custom software.



Hardinge GT27 SP SUPER-PRECISION® Gang-tool CNC Lathe with "Insta-Load" automatic part load and unload system.



JOHN DEERE



AT&T

DELPHI

Driving Tomorrow's Technology



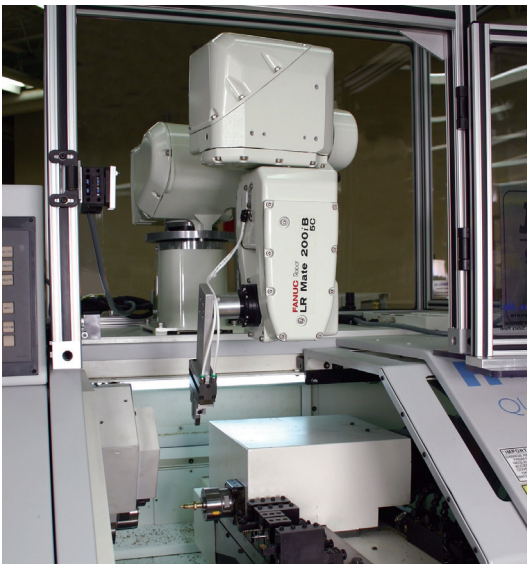
MICROAIRE
SURGICAL INSTRUMENTS

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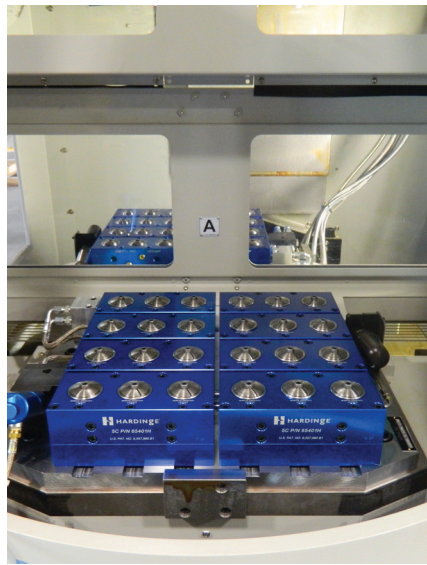


SIEMENS

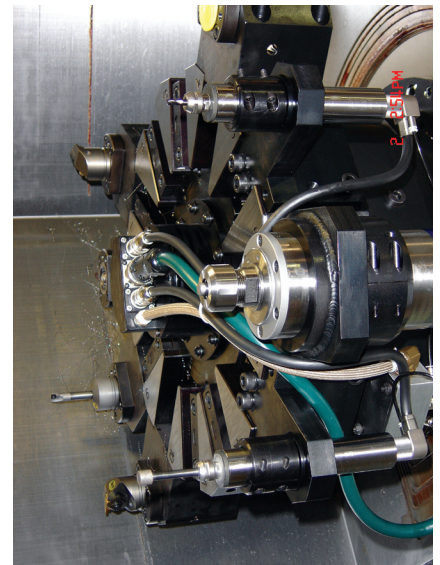




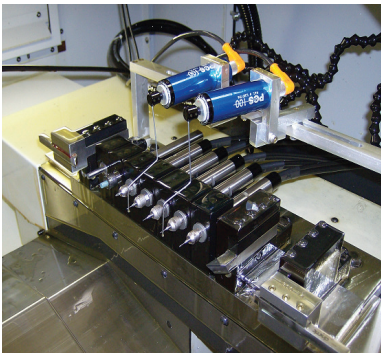
Hardinge GT27 SP SUPER-PRECISION® Gang-tool CNC Lathe with top mounted Fanuc Robot, Marposh gaging and part's cleaning process.



Bridgeport® GX480 APC with custom collet block pallets for multiple part processing.



Customized live tooling stations with rotary union power supply installed for high-speed drilling and grinding of up to 60,000 RPM.



Fixturing and interfacing of high-speed live tooling motors and broken tool detectors in a Gang-tool CNC Lathe.



Hardinge GS Turning Center with integrated gantry system.



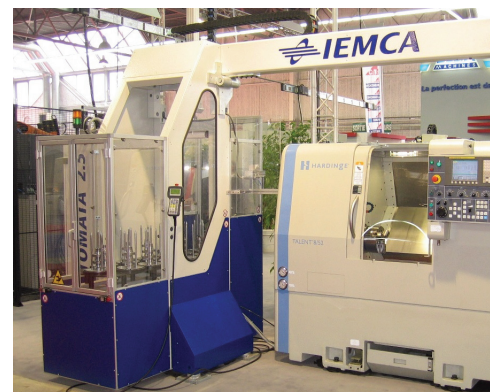
Integrated gantry-style automation system with part staging, washing and post-process gaging systems.



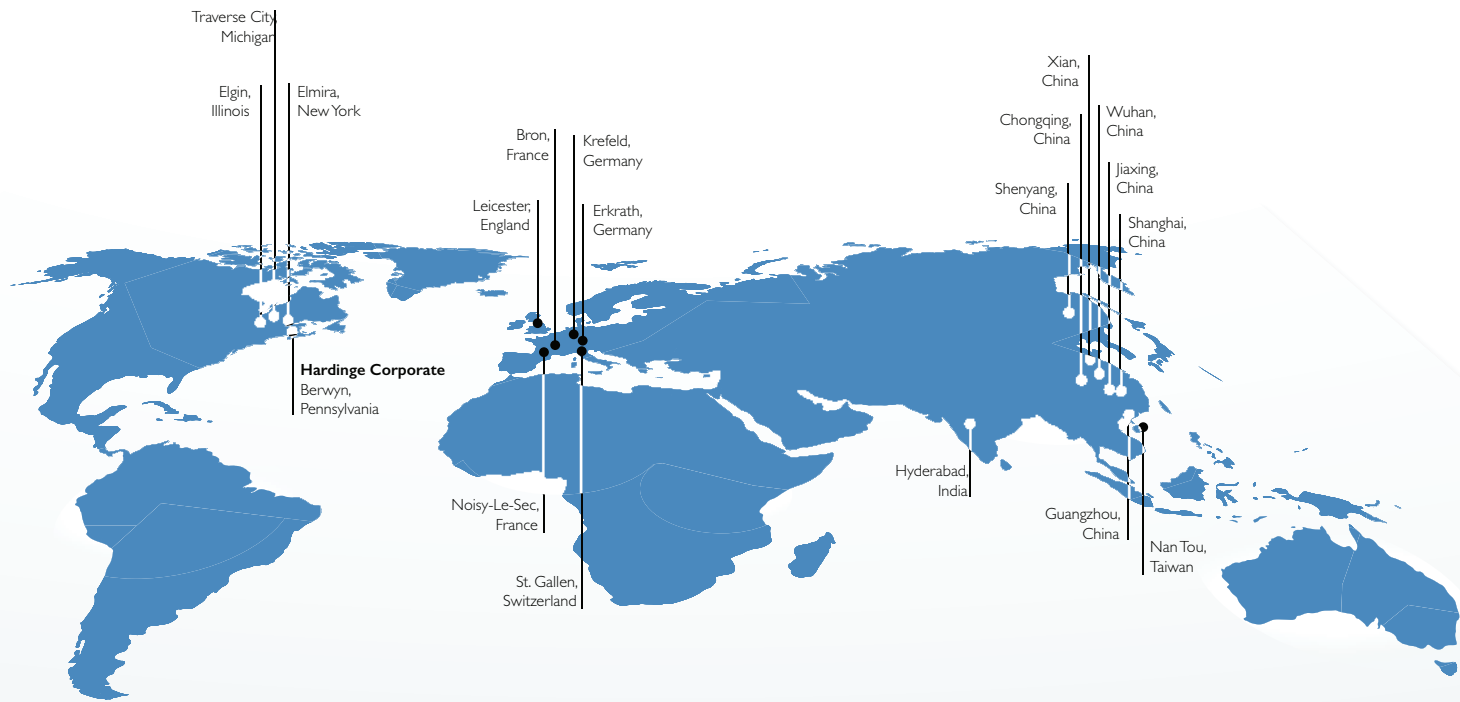
Front cover photo: Hardinge T51 SUPER-PRECISION Turning Center with Fanuc robot and Renishaw comparative gaging.



Gang-tool CNC Lathe with internal grinding wheel for fine surface finish requirements. Elevator conveyor drops blanks into bowl feeder to orient parts for robot pickup. In-process gaging.



Customized IEMCA 2-axis gantry for turning and grinding applications. Palletized parts system.



HARDINGE COMPANIES WORLDWIDE

Hardinge is a leading international provider of advanced metal-cutting solutions. We provide a full spectrum of highly reliable CNC turning, milling, and grinding machines as well as technologically advanced workholding accessories.

The diverse products we offer enable us to support a variety of market applications in industries including aerospace, agricultural, automotive, construction, consumer products, defense, energy, medical, technology, transportation and more.

We've developed a strong global presence with manufacturing operations in North America, Europe, and Asia. Hardinge applies its engineering and applications expertise to provide your company with the right machine tool solution and support every time.

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