CHIRON America invites you to join us at IMTS 2016 as we present innovative machining solutions and technologies covering both ends of the manufacturing spectrum – flawless precision and high-volume production efficiency. Whether you’re exploring new strategies to maintain your automotive competitive advantage, interested in learning how exceptional medical parts can be produced using only a single process, or seeking powerful milling solutions that can accommodate large aerospace applications with ease and flexibility - CHIRON offers a complete range of capabilities and competency to address your manufacturing challenges.

Check out these three video links
If you could make your parts in half the time...why wouldn’t you?
Well, consider the CHIRON/STAMA Twin spindle machining centers...two spindles with two or four parts being machined.
Machine takes just about the same space as a single spindle...a little more money yes but with great big savings! For 3 or 4 axis parts - four parts is the way to go.
For FIVE AXIS parts then two parts...and with our simple fixture you will be a top producer of Aluminum or Titanium parts for aerospace or any product in any material.
Send us your part drawing with your run time and we will show you how.
You Ji CY-550H+APC (Pallet Changing) Vertical Lathe

The CY-550H+APC Vertical Turning Center is a compact, high precision, heavy duty machine with an integrated pallet uninterrupted changer for production. The rigid vertical column and base are meehanite castings, heavily ribbed for reduced thermal distortion and vibration dampening. It is designed for turning of medium sized workpieces.

- Turning Diameter: 21.65/27.5”
- Maximum Swing: 29.5”
- Y Axis: Optional
- C Axis and live tools: Optional

Johnford ST 80 CH+C+Y Large Capacity Lathe

Heavy duty, high precision CNC Turning Center cast from Meehanite iron. Full advantage of the 50-100HP spindle motor and 4 speed gear box is taken by the one piece, 60 degree slant bed design.

Swing Over Bed: 36.2”
Swing Over Cross Slide: 27.5”
Center Distance: 80”
Spindle HP: 35-60
Spindle Drive: 2/4 Speed Gear Box
C and Y Axis: Optional

Fryer Machine Systems

Toolroom Area:
- MB-10R with ATC
- MB-14Q with new integrated quill scale
- ET-18 with tool post
- ET-21 with turret
- CM-15 with larger 8 tool ATC
- New CL-12 with collet closer and 8 tool turret
- All toolroom equipment will feature the 828 CNC

Production Area:
- HR-40 with new sliding ATC
- CM-18 with mini trunnion table and Fanuc robot
- New VT-60 fully redesigned with live tool and C axis
- New UM-30 universal swivel table 5 axis VMC
- New Laserfab 3D hybrid, features a 2KW laser with powdered metal print head for additive machining and a 15K spindle for subtractive machining.

MACHINES & METHODS ‘when you need a better way!’
The C 52 is intended for the simultaneous 5-axis machining of workpieces weighing up to 2000 kg/4409.245 lb - with unbeatable accuracy and precision. Parameters that always represent a challenge for the machine dynamics. Hermle has overcome these challenges by developing and designing a precise and high-performance machining center.

On display at the booth:
- The all new C250 with Heidenhain iTNC 640 control
  - General job shop/aerospace steel part on this machine. Complex bores.
- A C42U with Heidenhain CNC
  - American eagle being machined in aluminium
- A C52U MT (Mill Turn) with Siemens CNC
  - A large Alu fan stage will be machined

Hermle machines also at the following booths:
- A C12U at HAIMER
  - A complex steel mug will be milled.
- A C22U at EMUGE
  - Demo of fast and efficient HPC moves and strategies.

On display at IMTS:
- GPD-20.43
  - Double-drive cylindrical grinder
- GPES-30.60
  - CNC eccentric/polygon grinder
- GPV-10.20
  - Vertical CNC cylindrical grinder
- GPS-30B.75
  - CNC cylindrical grinder

The GPS-30B CNC cylindrical grinder meets the need for unparalleled quality, flexibility and productivity. User-friendly conversational programming. Quick and easy interaction. Fast setups. Simple traverse and taper movements. Efficiency and economy. Shigiya created the GPS-30 to satisfy these customer demands and more.
Compact Automation Solution
LIEBHERR’s Rotary Loading System (RLS) is designed to provide cost-effective entry into high-efficiency production with one or two machining centers – promoting machine utilization of more than 90%. Workpiece weights of up to 800 kg (RLS 800) or 1,500 kg (RLS 1500) and dimensions up to 1,300 mm. Using the RLS to extend a machine’s running time makes investing in an additional machines unnecessary in certain cases. For batch size one and above, the RLS is designed to provide considerable efficiency potential.
Optimum machine utilization and reduced staffing requirements result in decreased unit costs of up to 20%, so the investment can pay for itself in less than two years.

Machine Concept
Generating and profile grinding machine LGG 180/280
HT45 cell with collaborative robot by Fanuc, Renishaw Equator dimensional gaging system, and a drawer system from Ultra Tech. Quite the attraction as the robot is designed to work alongside humans with no guarding.

VT 260 with Fanuc 31i Has rear discharge chip conveyor. Aimed at medium to high volume production, machines can be installed with the least amount of space in the production plants.

Scale model of the Umill 1800 (5) axis machine which will be displayed on a video screen showing it in production setting and running through the capabilities and advantages over the competition.

Tabletop training machines for which we are well known, a Concept Mill 55, and a Concept Turn 60.

Explore ToolRoom 2016
A brand new machine configurator. New collision protection. Improved wheel models. New gun drill tool type And that's just a few of the new features and enhancements in ANCA's latest software release.

TXCELL, FX3, MX7, EDG, FX5 and TX7 on display
Enhanced Accuracy Upgraded Technology
4-Axis, heavy duty machining: innovative processes for flexible production, elegant solutions for your most difficult parts

5-axis, heavy-duty machining: various options for greater long-term productivity and flexibility

Mill/Turn: Combined process machining centers for compete machining in one setup

Heller Profi-Trainer: for realistic training in a configurable desk top machine with full CNC machine operation

HELLER’s PCU-100 Work Unit, the Universal (C-Axis) head which is the workhorse of our 5-axis Machining Center line.

HELLER’s XPC-100 Work Unit, a fixed horizontal spindle unit for extreme metal cutting. The XPC Work Unit generates 2292 Nm / 1690 ft-lbf of torque and 60kW / 81 hp for cutting tough materials. The display unit will be equipped with HELLER’s Face Clamping for ancillary devices like spindle extensions, HD milling heads or HD angle heads (many of which are changeable through the ATC) and HELLER’s Feed-Out System for U-Axis capability. The XPC-100 is available on H5000 through H16000 size horizontal machining centers.

HELFER Technology will be conveyed with four static displays:

DIAMOND is a gantry style machining center with 3 or 5 axis for high speed molds/dies machining as well as aerospace jobs. It features a monobloc structure with a gantry moving saddle and stationary workpiece. Machine available also in configuration "Linear", with linear motor for 3 machine axes and torque motor for rotary axes.

Applications:
Aerospace | Automotive - Die & Mold

MACHINES & METHODS ‘when you need a better way!’

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