

Koepfer EMAG

MODERNIZES ATTACHMENT ON GEAR HONING CENTER

The VSC 400 PH from Koepfer EMAG is designed for precision finishing of hardened gears of 20–160 mm in diameter.

According to the company's press release, a newly developed two-axis honing attachment with dynamic drives produces high quality workpieces. The power honing center's design also includes component assemblies for hard machining applications.

The VSC 400 PH is based on a series of 5,000 well-established machines, and its individual elements are similar to those of the VSC 250/400 DUO WF gear hobbing center. The headstocks for turning, gear hobbing, internal grinding and power honing are of the same construction, as they are part of the same modular design.

According to Koepfer EMAG, the hydrostatic work spindle bearing in the Z-axis boosts vibration damping and leads to high quality surface finishes. The diamond-coated master gears that serve as dressing tools are stored in a stationary magazine for retrieval. Furthermore, the number of tool positions can be adapted to suit individual customer requirements.



Other features include a high degree of process stability, tight manufacturing tolerances on gear profiles; minimal setup effort, since a single machine axis controls pick-up function and radial infeed; integrated automation; and a small footprint. ■

For more information:

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Hexagon Metrology

DEBUTS CNC
MEASURING ARM AT
FABTECH



Hexagon Metrology introduced a new CNC articulated measuring arm at Fabtech that president and CEO William Gruber calls "our version of a concept car."

According to the company's press release, the pre-production arm incorporates components of a ROMER Infinite measuring arm and applies CNC motion to create a measuring arm that combines the portability of an arm CMM with the programmability and repeatability of a fixed CMM. The CNC version of the measuring arm frees the operator from repetitive or awkward measuring tasks that can be subject to operator fatigue and can affect the repeatability of results.

The CNC arm can be configured in many different ways, depending on the application. Probing options include laser scanning non-contact probes, touch probes or infrared tube measuring probes. The unit weighs 88 lbs. and can be mounted in many different positions and configurations, including fixed linear rail or tripod. ■

For more information:

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Midwest Motion Gearmotor

ACCEPTS
12-VOLT DC SOURCES

The Model No. MMP-TM55-12V GP52-022 DC gear motor from Midwest Motion can accept any 12-volt DC source, including battery power, says the company. The motor measures 2.14" in diameter by 7.25" long and has a keyed output shaft of 12 mm by 25 mm long.

According to Midwest Motion's press release, easy mounting is accomplished with four face mount M5 threaded holes equally spaced on a 40 mm diameter bolt circle.

The output of the gear motor is rated for 2.5 Nm continuous torque at 209 rpm and 9.0 Nm peak. The motor requires 7.2 amperes at 12 volts to generate its full load output torque.

Typical options include integral optical encoders, failsafe brakes, analog tachometers and planetary gearheads with standard ratios from 3:1 to 450:1 with standard or low backlash precision gearing available. ■

For more information:

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Index

UPGRADES MACHINE CONTROL TO INCLUDE VIRTUAL FUNCTIONS



Index Corp. has upgraded its machine controls to include a virtual machine function, which fully simulates, on a PC, all machine motions and functions related to any machine program.

Users can sample complete programs and programming changes without any risks and avoid potential problems during the machining cycle, according to the company's press release.

The machine control software and a mirror of the actual machine configuration data allow the user to program, set up and operate the virtual machine in exactly the same manner as the real machine. Virtual machines contain copies of the Siemens CNC kernel of the SINUMERIK S840D control, allowing them to perform 3D machine modeling in the TECHNOMATIX simulation system and to directly execute the unmodified CNC program.

"This is the only way to guarantee that workpiece machining and program execution will proceed exactly as in the machine and allow existing CNC programs to be edited without another adaptation being necessary. All of this takes place without loss in production time or risk of collisions or damage to the machine," says a company spokesman.

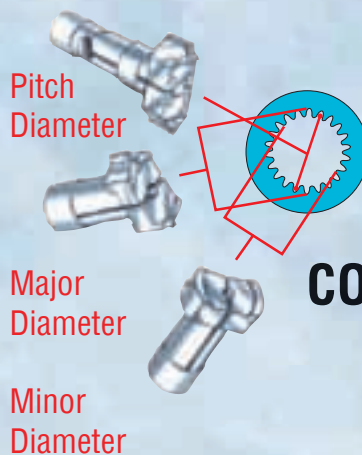
In addition, order changes, modifications to the machining in progress or optimizations are simplified once the operator is familiar with machine operation. Work orders will be passed to production after thorough testing and optimization off-machine. ■

For more information:

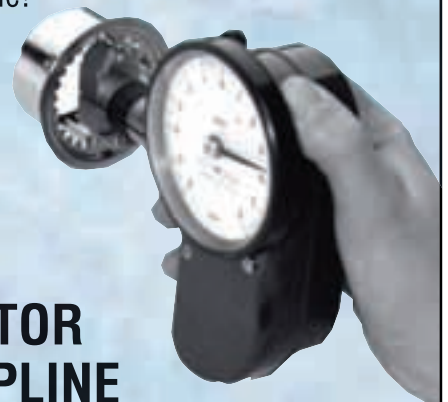
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Klingelnberg

INTRODUCES
FIRST VERTICAL
SPIRAL BEVEL GEAR
MACHINE



The Oerlikon C29 from Klingelnberg is a vertical spiral bevel gear cutting machine specially designed for dry cutting.

The development of the new spiral bevel gear machine for car and small truck gear sizes was used to implement new

features, including use of direct drive technology for the root angle swivel axis C, increases in axis speeds, improvement in machine rigidity, diverse installation variants, and additional flexibility for the machine-integrated deburring process. ■

For more information:
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Saint-Gobain

GASKETS SEAL
IN TEMPERATURE
EXTREMES

The OmniGasket from Saint-Gobain is constructed with a layer of PTFE, a PolyTetraFluoroEthylene plastic, adhered to an alloy base.

According to the company's press release, the gasket will deliver long lasting seals even in extreme temperatures with various torque loads, provide universal chemical compatibility with self-lubricating PTFE and prevent metal-to-metal contact to eliminate marring and galling of surfaces.

The gasket is available with outer diameters up to 65 mm, in a variety of thicknesses, with a temperature rating of -100 to +200°C and will withstand high pressure and shear strength.

The gasket is designed for gearboxes, freeze plugs and oil seals, engine oil pan seals, transmission box pan seals and noise reduction discs, along with other industrial and automotive applications. ■

For more information:
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Donner + Pfister

INTRODUCES NEW MEASURING EQUIPMENT

The ES 4100 portable pitch measuring instrument from Donner + Pfister offers measuring data. Operational convenience is achieved by the built-in processing of the measuring data and the tip-up screen.

According to the company's press release, the machine checks the gear teeth according to DIN or AGMA evaluation procedures. The result is displayed immediately by the apparatus itself and then stored. For documentation purposes, the result can be printed out.

Existing pitch apparatuses, such as the ES401 from the MAAG Co., can also be updated by request, and the monitor is rotatable. ■

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