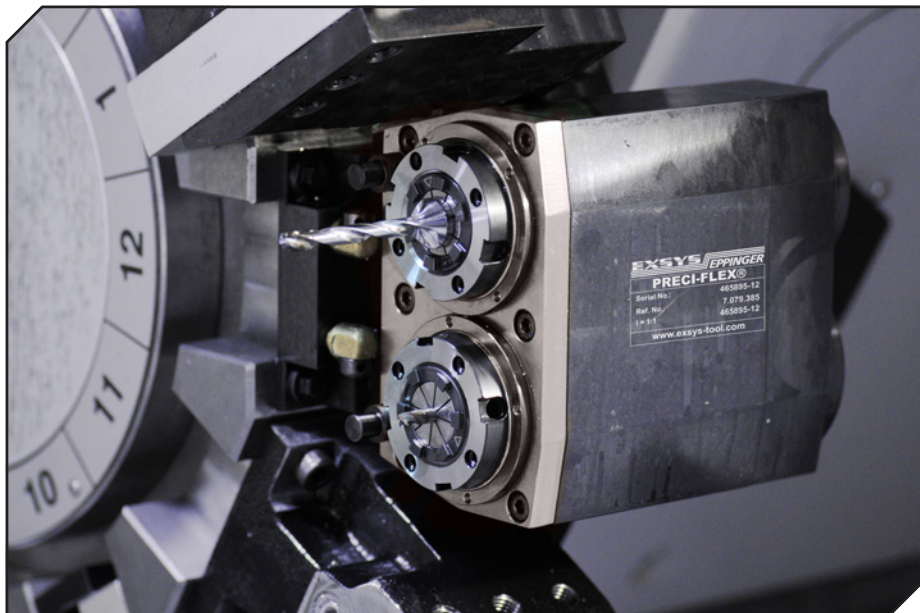


# EXSYS

## OFFERS TOOLING TECHNOLOGY AT SOUTHTEC 2019

Exsys Tool, Inc. will offer attendees at Southtec the chance to experience its comprehensive range of tooling technology for turning machines and innovative gearbox solutions at the Greenville Convention Center in Greenville, South Carolina, October 22–24. Visitors to Booth 1829 will have the opportunity to learn how Exsys' modular toolholding solutions and Eppinger's gear-making expertise offer exceptional cost-savings and greater manufacturing efficiency.

In addition to its Preci-Flex modular toolholding system, which speeds turning center tooling changeovers and improves productivity with longer tool life, Exsys will showcase the Deco-Flex tooling interface, which adds flexible precision for small-part manufacturing and includes holders for all generations of Star CNC brand Swiss-style machines. Exsys will also highlight Eppinger gear solutions and their German-made precision, including standard spiral bevel,



planetary, planetary bevel, hypoid and cycloidal gearboxes, along with custom gear-making services.

### For more information:

Exsys Tool, Inc.  
Phone: (800) 397-9748  
[www.exsys-tool.com](http://www.exsys-tool.com)

# GMTA

## EXTENDS ITS PRODUCT OFFERING TO INCLUDE BASKETS, TROLLEYS AND LIFT TABLES



GMTA is adding to its product line. Known for gear cutting and honing, parts washing, special machine tools, tooling, laser welding, surface grinding, deburring machines, multi-spindle lathes and multi-station vertical machinery, GMTA is now selling baskets, trolleys and lift tables.

Walter Friedrich, GMTA's president said, "We felt that we needed to have an intermediate step between the machining and cleaning processes."

Products available include bearing turntables, lift tables, custom carts and conveyor systems. Lift tables include single position lift tables, single position lift and rotate tables, single position lift and tilt tables, rotate tables, hydraulic lift tables, air spring lift tables and fork free

lift tables for cart access. In addition, custom carts for manufacturing and production operations are available. These include 4-wheel carts, 6-wheel carts, low profile carts, flat top carts, rotate carts and tilt carts, fork free carts and custom part sequencing carts.

Besides being a link between gear-making machines and parts washers, GMTA makes these products available to users in the material handling industry.

### For more information:

GMTA  
Phone: (734) 973-7800  
[www.gmtamerica.com](http://www.gmtamerica.com)

**BIG BANG**  
for your buck.



## KAPP NILES KN<sup>e</sup>3P

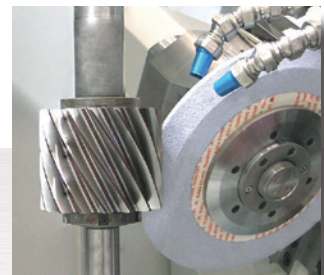
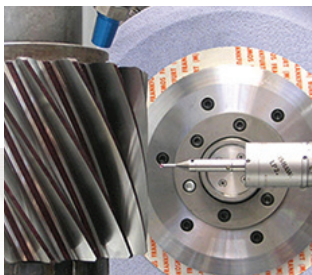
gear profile grinding

**Installation and set-up in a blink!**

The KN<sup>e</sup>3P comes with machine mounted electrical panel and is easily accessible. New KN<sup>g</sup> grind software graphically guides you through applications.





**Not rocket-science to operate! Well-known KAPP NILES quality.**



**KAPP Technologies**

2870 Wilderness Place Boulder, CO 80301

 [kapp-niles.com](http://kapp-niles.com) @ [info@kapp-niles.com](mailto:info@kapp-niles.com)  (303) 447-1130



# Mitutoyo America

## INTRODUCES SHOP FLOOR CNC MACHINE

Mitutoyo America Corporation is pleased to announce the release of the MiSTAR 555 CNC Shop Floor Coordinate Measuring Machine to its CMM product line that operates without compressed air and on conventional 120V 20 AMP electrical service with movement speeds of 606mm/s and acceleration of 2,695mm/s<sup>2</sup> (3D).

The MiSTAR 555 is a compact, space-saving in-line or near-line CNC coordinate measuring machine designed for high-speed, high-accuracy measurements with accuracy assurance from 10°C to 40°C. It features an open-structure design with a single support moving bridge enabling users to mount work-



**Gearing your past to power your future.**

**Breakdown Services**

We understand the urgency of meeting critical deadlines. We offer our customers expedited services without sacrificing quality.

**Heat Treatment**

Our in-house heat treat facility performs a full range of services that include annealing, carburizing, and thru hardening.

pieces from the front, rear and right for installation and a walk-up inspection station for easier operability.

The modular control unit and PC are stored in the base of the main body structure, making the MiSTAR more compact, reducing the installation area to approximately 70 percent from a conventional moving bridge model for location flexibility. The MiSTAR also uses a Mitutoyo-designed and manufactured robust scale detection system with a high resistance to airborne contaminants, eliminating the need for costly environmental controlled enclosures.

The MiSTAR features several Industry 4.0 integrations, including the Mitutoyo-developed Smart Measuring System (SMS), which enables monitoring the operation state required by smart factories and a Status Monitor that retrieves current CMM status features using the MTConnect protocol. Condition Monitor provides a system that collects and evaluates different operational information such as measuring, movement lengths, machine error, probe functions, and many more for long-term preventative maintenance and machine use statistics.

**For more information:**  
 Mitutoyo America Corporation  
 Phone: (630) 820-9666  
[www.mitutoyo.com](http://www.mitutoyo.com)



B&R Machine and Gear Corporation is a full service gear manufacturing facility driven to power your equipment with reliable and durable gears that are built to perform and last. Find the perfect mesh. No matter the gear, we've got you covered.

VISIT OUR WEBSITE [BRGEAR.COM](http://BRGEAR.COM) FOR MORE INFORMATION



connected

## From Design to Finished Gear

A visit to the Gleason booth connects you to powerful gear and transmission design tools, economical Chamfer Hobbing, hard finishing innovations like Combi Honing™ and polish grinding, in-process laser inspection as well as productive new tooling and services. All working together to connect your gear manufacturing to maximum efficiency, from design to finished gear.

[www.gleason.com/emo2019](http://www.gleason.com/emo2019) [www.gleason.com/mpt2019](http://www.gleason.com/mpt2019)



BOOTH D 108, HALL 26



BOOTH #3400

Total Gear Solutions

**Gleason**

# Index

## HIGHLIGHTS LATHE AND TURN-MILL CENTER AT CMTS 2019

At CMTS 2019, Index and Mitcham Machine Tools recently demonstrated how to increase output per operator via integrated automation and single-machine production of complex parts.

The TNL20-11 features eleven linear axes, frontworking attachment with six stations, autonomous counter spindle and two turrets, each with eight stations providing up to 12,000 rpm and 2.0kW of power. The TNL20-11 can apply up to four tools simultaneously, and the lower turret can be equipped with a backwork-



## Innovative Gear & Spline Measurement



- ✓ Gages
- ✓ Master gears
- ✓ Double flank gear check
- ✓ Shaft measurement



- ✓ Individual design
- ✓ Stable instruments for the shop floor use
- ✓ From a single source



- ✓ DAkS-Calibration
- ✓ VDA-5 Certificate
- ✓ Wear measurement
- ✓ Cause Analysis



- ✓ Support and calculation
- ✓ Seminars
- ✓ Literature
- ✓ Software

[www.frenco.com](http://www.frenco.com)

**MOTION+POWER**  
TECHNOLOGY EXPO

Visit us at Motion + Power Technology Expo:  
Detroit, Mi  
Booth 3209  
October 15 -17, 2019  
Euro-Tech Corporation

pure  
perfection

**FRENCO**

FRENCO GmbH | Verzahnungstechnik | Messtechnik | 90518 Altdorf - Germany | [www.frenco.com](http://www.frenco.com)  
Exclusive FRENCO distributor in the U.S.: Euro-Tech Corporation | [www.eurotechcorp.com](http://www.eurotechcorp.com)

ing attachment capable of allowing independent machining of the rear of a part. The machine offers identical, twin liquid-cooled spindles with up to 10,000 rpm, 5.5kW of power and 17.2Nm of torque.

When integrated with the iXcenter robot cell, the TNL20-11 becomes even more productive. With compact vertical storage of up to 14 pallets, this cell uses an articulated arm to load and unload parts.

The G220 features fluid-cooled, identical main and counter spindles that provide power of 31.5/32kW (100%/40%), torque of 125/ 170Nm and maximum speed of 5,000 rpm. The fluid-cooled, five-axis motorized milling spindle is available in both HSK-T40 and HSK-T63 configurations. The HSK-T40 version offers power of 11kW, torque of 19/30Nm and speed of up to 18000 rpm, while the HSK-T63 version offers power of 17kW, torque of 62/90Nm and speed of up to 12,000 rpm. Both milling spindle options feature hydrostatic bearings in the Y and B axes, and a stable circular guide further ensures excellent rigidity and damping. The Y axis features a ±80mm stroke, while the B axis is driven directly by a torque motor and has a swivel range of -50/+230 degrees. With a large travel distance in the X direction, machining at up to 30mm below the turning center height is possible.

The G220's motorized milling spindle operates using a one-row tool chain magazine which features space for 70 tools for the HSK-T40 configuration or 50 tools for HSK-T63. An optional double-row tool magazine enables setup during machining and accommodates twice as many tools as the standard solution.

### For more information:

Index Corporation  
Phone: (317) 770-6300  
[www.index-usa.com](http://www.index-usa.com)

# Dillon Manufacturing

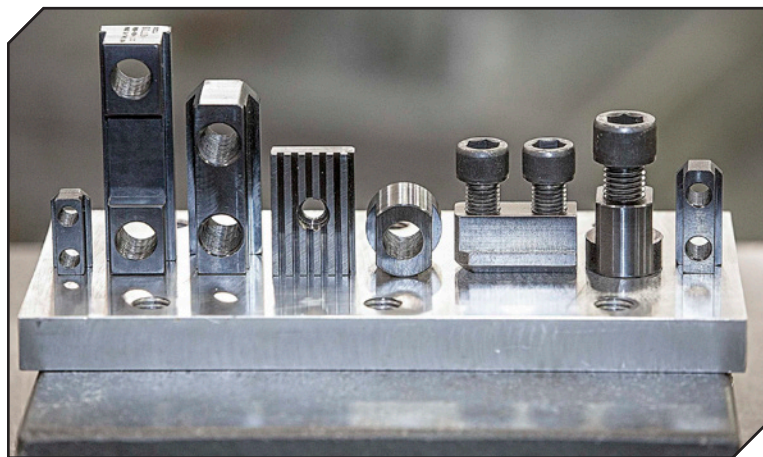
OFFERS JAW NUTS AND KEYS TO IMPROVE CHUCK SAFETY, ACCURACY AND PERFORMANCE

As machine tool technology continues to advance, including greater horsepower, larger material cuts, and higher machine tool speeds, the stress and mechanical forces upon jaw nuts and t-nuts being used within these operating conditions has also increased. Jaws nuts and keys made from case hardened 1018 CRS can fracture, crack, and break under high speed machine stress loads causing damaged workpieces and chucks, and endangering operators. Dillon Jaw Nuts and Keys, manufactured from 4140 heat treated steel, provide superior wear resistance, impact resistance, higher tensile strength, and extended jaw nut life. Operator safety and chuck life are greatly improved by eliminating the use of low carbon jaws nuts and t-nut in the machining process.

Dillon Jaw Nuts, T-nuts, and Keys are available to fit all popular power chucks from 6" in diameter to 24" in diameter including Forkhardt, Gamet, Howa, Kitigawa, Matsumoto (MMK), Nikko, Pratt Burnerd, Rohm, Samchully, Schuck, SMW, SMW-Autoblok, and more. Standard sizes are stocked for immediate shipment. They are ideal for workholding applications requiring durability and high strength such as high speed machining. Dillon also offers a special T-Nut design and manufacturing service for custom workholding requirements.

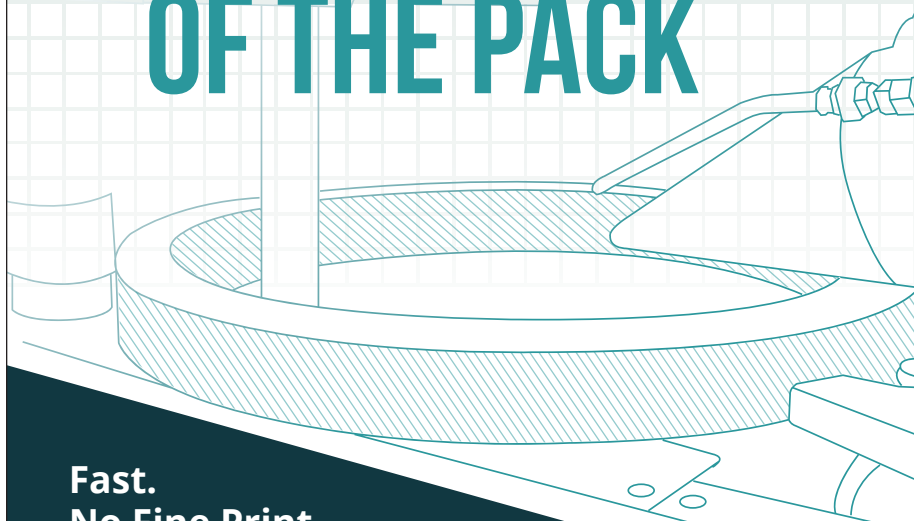
**For more information:**

Dillon Manufacturing  
Phone: (800) 428-1133  
[www.dillonmfg.com](http://www.dillonmfg.com)



# FORGING AHEAD OF THE PACK

VISIT US AT  
M+PT EXPO 2019  
Booth #2922



**Fast.  
No Fine Print.  
No Premium.**

At McInnes Rolled Rings, we provide quality products, shipped fast. And we partner that with exceptional customer service to forge the perfect partnership with our customers.

MADE IN THE  
**USA**

**McINNES**  
ROLLED RINGS

1.877.695.0280 • [www.McInnesRolledRings.com](http://www.McInnesRolledRings.com)

# Klüber Lubrication

OFFERS HEAT TRANSFER OILS FOR OPEN OR CLOSED HEATING AND COOLING SYSTEMS

Klüber Lubrication, a worldwide manufacturer of specialty lubricants, introduces heat transfer oils for use in open or closed heating and cooling systems in the wood-processing industry.

Lubricants used in wood processing must withstand extreme temperatures, high loads and aggressive media. The excellent thermal properties of new heat transfer oils from Klüber Lubrication make them ideal for wood-processing applications. Specially formulated for use in indirect closed heating units, the high resistance of these



**PRECISION GEAR MANUFACTURING AND DESIGN ENGINEERING**

MOTION+POWER TECHNOLOGY EXPO  
BOOTH 3018

**SATISFACTION GEARANTEED.**

**CINTI**

**CINCINNATI GEARING SYSTEMS**  
cincinnati gearsystems.com | 513-527-8600 | sales@cincinnati gear.com

in @CincinnatiGear

Gear Units | Component Gearing | Design Engineering | Repairs & Rebuilds | Heat Treating

**Manufactured Domestically, Trusted Internationally.™**

oils to thermal degradation ensures reliable, lasting performance. With good oxidation stability, the oils protect equipment and prevent deposit formation. They maintain viscosity, even in low temperatures, and have a long service life.

Klüberfluid HT 1 Series is a highly refined mineral oil heat transfer fluid that offers excellent thermal stability. Its advanced formulation supports long service life without viscosity changes or deposit formation.

Klüberfluid HT 4 US Series is a synthetic heat transfer oil designed to overcome heat stress that high-temperature heat transfer mediums endure. Its synthetic hydrocarbon base stock combats issues related to carbon formation as well as extends fluid life compared to petroleum-based fluids. The extremely low vapor pressure and subzero pour points of the oil increase efficiency and reduce pressure buildup and evaporation losses.

The tough requirements of the wood-processing industry demand high-performance lubricants. The advanced formulations of new heat transfer oils from Klüber Lubrication ensure reliable performance under extreme heat-related stress.

**For more information:**

Klüber Lubrication  
Phone: (603) 647-4104  
[www.klueber.com](http://www.klueber.com)