

It's good to stir things up and here at KAPP Technologies we are certainly doing our part. With the introduction of two machines, the NILES ZP B (pg. 2), and KAPP KX 500 FLEX (at IMTS 2008), plus the first Rocky Mountain Gear Finishing School in October (page 3), we have our hands full. Our manufacturing team works round the clock, our design engineers have papers covering every surface (no clean desks around here!) New technologies, people, events and ideas, and well...we are busy. We take the old adage "work hard and you will be successful" one step further. Work hard and believe in what you are working for, and you will be successful." We do believe in what we work for, and we are definitely working hard. What follows is predictable then, isn't it? It's all good. Hope it is for you, too! Best always,



GoTheExtraMicron

by Bill Miller
Vice President Sales
KAPP Technologies

A micron = 0.000001 meter = 0.001 mm or about 0.00004".....not big news in the gear world anymore. Many automotive tolerances are as tight as aerospace gears. Large module wind turbine gears are specified with modifications and tolerances beyond DIN or AGMA classification standards.

Modern machines in our industry are designed with position feedback resolution of 0.1 micron, high speed direct drive spindles and guide-way systems allowing feed rates up to 10m/min. So it would seem that accuracy and productivity are assured with any

In this issue

Go the Extra Micron	1
The NILES ZP B.....	2
Employee Updates	2
Rocky Mountain Gear Finishing School	3
Customers Say it Best.....	3
Wheels of Fortune	4



modern machine. Yet the true quality, capability and value of a machine are still a function of traditional variables. Precision spindles, grinding tools, clamping, automation, control, software and most of all know-how, are all elements of the system required for peak performance.

For companies with small lot batch production or even single piece requirements, machine performance is primarily measured by the time it takes to get the first good piece. Kapp and Niles machines are designed and tuned with this in mind. On-board measurement that correlates well with traceable lab inspection, calculation of corrections, and a robust, stable machine design are all essential. The successful response of a machining system to a micron-change is an important gauge of performance. The ability to reproduce this change quickly on subsequent setups is vital. Attention to detail as related to

NILES Presents the ZP B

NILES has introduced the ZP B hybrid machine built to meet the highest demands of large gear grinding and designed for the complete finishing of external spur gears—including gear teeth, bores, and end faces—merging two technology machines into one and making it exceptionally productive and cost effective.

NILES ZP machines are already used in industries where large gear grinding is required, but the ZP B combines internal cylindrical grinding and face grinding, providing quality and economic benefits by performing all tasks in a single clamping.

ergonomics and tooling design, aid in the ability to reproduce mechanical setups with precision.

The know-how that comes from our extensive experience in providing all elements of a system, is what we think sets us apart. The phrase “Go the extra micron” encapsulates this philosophy and practice. The success of our customers and longevity of our machines is perhaps the ultimate testimony.

Employee Updates



ZP B machines use a variety of tools. Dressable ceramic tools are offered for grinding gears as well as bore and end-faces, non-dressable tools may be used for gear grinding. Additionally, machines come equipped with two dressing devices. For gear grinding, the machine offers a CNC dressing unit for the profiling of corundum and sintered corundum grinding wheel. Via the machine control and controlled axis, arbitrary profiles may be generated. A second dresser is used for bore and face grinding. The cup grinding wheel dressing tool can dress the outer diameter and the end faces of the grinding tool.



Rick Reenan has joined KAPP Technologies as the newest member of our sales team. Rick will serve as an authorized sales representative for the Kapp and Niles lines of precision gear grinding machines in the western region of the US and Canada.

Rick brings 27 years of gear industry related experience to the Kapp Technologies' sales force. He has sold hobbing, shaping, shaving, grinding, and honing machines. This broad background along with the applications engineering, tool design and service being provided by KAPP Technologies in Colorado, will serve our customers well.



KAPP Technologies welcomes Michael Ruppert to the company as our new Manager of Manufacturing. Michael will oversee a staff of over 25 shop technicians for the manufacturing of KAPP CBN-plated tools and Coroning® Rings. Michael graduated

from the University of Applied Sciences in Coburg, with a degree in Mechanical Engineering. He has replaced longtime shop manager Erwin Stolz, who retired in 2007.





Joe Passalacqua, who joined Kapp Technologies in 2006 as a regional manager will be continuing his career with us in a new capacity. Joe will be covering the Gulf States as an independent authorized sales representative. Joe remains based in Boulder and will be selling additional complementary equipment in addition to Kapp and Niles products and services. We wish him well in his new endeavors and look forward to continuing our work with him in the future.

KAPP O NILES

P r e s e n t s

Rocky Mountain Gear Finishing School

October 20- 22, 2008
in Boulder, Colorado

Learn the basics of all modern gear grinding methods from Kapp and Niles technology managers

- Pre-finish guidelines for grinding
- Different grinding processes
- Dressable and form grinding
- Wheel design, manufacture, and re-plating
- Planned tours:

KAPP Technologies
Aerocom Industries, Inc.
National Renewable Energy Labs



Contact Pattea Carpenter at: 303-447-1130 ext.113
or patteac@kapp-usa.com for additional information
about the Rocky Mountain Gear Finishing School.

IMTS Showcases Two Machines

Shown for the first time in the US the KAPP KX 500 FLEX Gear Center will be on display at the International Manufacturing Technology Show in Chicago September 8-13, 2008.

The KX 500 FLEX offers the flexibility of application-specific solutions including continuous generating grinding, discontinuous profile grinding, or a combination of both methods, and features a turn table, tailstock, and dresser.



KX FLEX Table

NILES will bring their ZE 400 Gear Profile Grinder, an economical and ergonomic machine which uses non-dressable and CBN grinding wheels. **Come see us at booth B-6748**

Customers Say it Best

The e-mail below was sent to us following a service call to Aero Gear by longtime KAPP Service Engineer, Erich Boehm.

"I just wanted to let you know how much we appreciated Erich's quick response to our need to get our VUG-432 repaired. Our machine was damaged as the result of a programming error during the week of November 19, and we immediately contacted Erich. We found that he was planning to leave for Germany on holiday November 25. After explaining what had happened, he changed his vacation plans, and arranged to arrive at Aero on Sunday evening (11-25-07). He was on hand at Aero on Monday to start repairing our machine. The machine was back in service on Tuesday afternoon. Then he spent some time giving the operators on both day and night shifts some additional training to help avoid this situation occurring again. He finally left Aero at mid-day on Wednesday to start his holiday.

This is more than just good service; and this is one of the reasons that when we decided to purchase a Niles ZE400 a few months ago. We've come to expect Kapp's engineering, parts, and service to be excellent, but then when we have something like this happen, we realize how uncommonly good Kapp is! Thank you very much, and best wishes for a pleasant Holiday from Aero Gear."

KAPP NILES

Geared to make things move.

KAPP Group 2008 Trade Shows



AMB

**Stuttgart, Germany
Sept. 9 - 13**

Hall 8, booth D12

— KAPP KX 500 FLEX Gear Center

IMTS

**Chicago, IL, USA
Sept 8 - 13**

Hall B, booth 6748

— KAPP KX 500 FLEX Gear Center
— NILES ZE 400 Gear Profile Grinder
— KAPP CBN, DIA-plated, DIA dressing rolls

JIMTOF

**Tokyo, Japan
Oct 30- Nov 4**

Booth E5012

— KAPP KX 300P Gear Center
— KAPP CBN, DIA-plated, DIA dressing rolls

KAPP Wheels of Fortune



8mm OD CBN wheel
on integral shank



280 mm OD CBN
for special profiles

The size range of Kapp CBN electroplated wheels is demonstrated in the above photos. In most cases the workpieces have total tolerance bands of 0.010 to 0.015 mm and even smaller so the tools must be made to a fraction of these tolerances. Call us in Boulder at 303-447-1130 with your applications.



The KAPP Group has knowledgeable sales and service representatives worldwide. In the US, please call us at our KAPP Technologies location to speak with someone about the cost-savings and increased production advantages of using KAPP and NILES machine tools.

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