

FOR IMMEDIATE RELEASE

Dynomax Introduces New Robotic Abrasive Grinding Spindles

WHEELING, IL, January 28, 2011 – Combining its spindle expertise with its in-depth knowledge of harsh grinding environments, Dynomax Inc. introduces its new Dynogrand™ spindle series designed specifically for robotic grinding of abrasive materials such as glass, ceramic, composite and forged materials.

Long considered a relatively low-tech process, industrial grinding has quickly transformed into a vital procedure requiring the highest levels of precision and control. With applications in the aerospace, automotive, renewable energy, and robotic industries, just to name a few; manufacturers must tackle a host of unique challenges and adapt the latest technology and process to stay on the cutting edge.

“All Dynomax abrasive grinding spindles employ our proprietary Dynoguard™ technology,” said Walter Zic, Dynomax Vice President. “Specifically designed to protect against abrasive environments, the Dynoguard™ sealing system outperforms other products in the industry, increasing spindle life from months to years. Dynomax’s extensive field trials have resulted in mean time between failures (MTBF) of up to two years. The Dynoguard™ system also reduces the frequency of replacing the machine housings typically destroyed by the abrasive spray.”

With a maximum range of 18,000 RPM, the Dynomax Dynogrand™ spindle series is modularly designed for a variety of applications. “The HSE070-812289 model was designed from the beginning to be a lightweight solution for robotic abrasive grinding applications,” added Zic. “It weighs a mere 33 lbs (15 kg) while still providing plenty of power to get the job done. At 8.5 HP (@ S1 Duty) and roughly 12,000 RPM, the spindle will generate 3.8 lbf-ft of torque – the ideal level for glass and ceramic grinding applications.”

As a fully tested turnkey system designed for optimal performance, the Dynogrand™ spindles are equipped with a complete abrasive grinding package. The features and benefits include:

- The standard HSK tool change system allows quick tool change for increased productivity and accuracy, especially when operating at higher speeds. An optional automatic system is ideal for closed-cell machining and further reduces the time required for tool changes. It keeps machines running when minutes count. The custom tool adapter is more accurate when a high-precision tolerance is required, is quicker to change grinding disks, and has the ability to spin in both directions, allowing for versatility with applications. The spindles are also available with other tooling systems.
- The included industry standard power management/interconnect system provides complete protection from the slurry, dust, water, and other invasive materials present during abrasive grinding applications. The interconnect system is specifically designed to handle the flexibility demands of robotic applications.
- The closed-loop cooling system is specially engineered for easy installation and low maintenance, improving spindle performance and increasing spindle life.
- Dynomax electrical engineers fully commission the frequency drive to the customer’s requirements, reducing the potential for operating errors.

With over 25 years of experience, Dynamax Inc. is the leading designer, manufacturer and supplier of standard and custom precision machine tool spindles for virtually any application.

An AS9100 and ISO 9001 registered company, Dynamax designs, manufactures, and develops high-precision machined components, sub-assemblies and specialty machines. Its customers include some of the largest names in aerospace, defense, transportation, energy, mining, and construction industries. Dynamax provides turnkey automation technology solutions that enable its customers to improve their competitive advantage in today's marketplace.

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