

- Varying calcium additions to optimize castability.
- Steel cleanliness versus casting time.
- Comparison of inclusion content to standard analytical methods.
- Degasser circulation and optimization.
- Quality assessment of steel cleanliness.
- Slab, billet or bloom disposition.
- Alloy development.
- Hardware changes, such as tundish linings and their overall effects.

Most EDS-based analyzers are found in research laboratories and not on the production floor, largely due to their inability to handle adverse environments. In addition, the operators need to be SEM and EDS experts. When requirements are more than a traditional SEM/EDS system can offer, the MQA delivers a turnkey solution to metals processing to provide the customized information required for process improvement and stabilization. Whether it's heat trending or inclusion chemistry, the MQA provides the information needed. The major advantage of the MQA system is its ability to deliver the information in a rapid and concise manner. The MQA dynamically scans the sample by utilizing the electron

microscope, not the EDX system, for control.

Contact: ASPEX Corp.,
175 Sheffield Drive,
Delmont, PA 15626-1723
Phone +1.724.468.5400,
Fax +1.724.468.0225,
dallison@aspexcorp.com or
www.aspexcorp.com

Rexnord launches new Falk V-Class™ line of gear drives

Rexnord Industries announced the launch of the Falk V-Class™, a new line of gear drives designed for maximum uptime and durable performance. The Falk V-Class incorporates the latest advances in materials technology, engineering design and manufacturing processes to produce a tough, reliable gearbox that excels in today's demanding applications. These advancements, coupled with innovative mounting and cooling accessories, provide a reliable, sustainable gearbox. Features are built into the drive to bring customers maximum uptime in a smaller drive at a lower total cost of ownership.

One of the most distinguishable features of the Falk V-Class is the housing itself. Since customers asked for durability and reliability, the heavy-duty, horizontally split housing design

incorporates advanced gearing, optimized through the latest materials and technologies, to provide maximum performance under load. The housing shape and features were designed through the use of computational fluid dynamics, to enhance the drive's thermal dissipation qualities. Additional features were built into the Falk V-Class to increase productivity and profitability. The drive incorporates exclusive, Magnum no-leak seals with oil drain backs and purgeable grease chamber to eliminate oil leaks. An optional, eco-friendly DuraPlate™ cooling system requires no water or electricity to operate and achieves optimal cooling to fully utilize the unit's unparalleled torque density. Falk V-Class offers standardized monitoring and lubrication packages, 24-7 customer support, readily available spare parts and a dedicated product services team that offers on-site support. This performance commitment is backed by a 36-month warranty and excellent lead time capabilities.

Contact: Rexnord Industries LLC,
4701 West Greenfield Ave.,
Milwaukee, WI 53214,
Phone +1.414.643.3000,
Fax +1.414.643.3078 or
www.rexnord.com

This article was published in *Iron & Steel Technology*, (c) 2011, AIST, Warrendale, PA. All rights reserved. Visit www.aist.org.



The Material Advantage™ program provides college students with a single, low-cost membership to materials science and engineering professional organizations: ACerS, AIST, ASM International and TMS.

The Material Advantage program now has more than 3,100 members who receive the following benefits:

- Special conference rates, travel grants and publication discounts.
- The printed journal from each organization on a monthly rotating basis, including *American Ceramic Society Bulletin* (ACerS), *Iron & Steel Technology* (AIST), *Advanced Materials and Processes* (ASM) and *JOM* (TMS).
- Access to nearly \$600,000 in scholarships and grants through the societies and their various chapters and foundations.
- Complimentary membership, upon graduation, to all four societies for one year.

AIST's participation in Material Advantage provides a significant opportunity to reach a large student audience through communication between the students and AIST Member Chapters and Technology Committees.

Material Advantage currently has 85 active chapters at academic institutions throughout the United States, Canada and abroad. Each chapter has a faculty advisor to guide the students as they plan events, develop programs and enter contests. Most importantly, these advisors mentor the students in career opportunities and will serve as the key link to communication between AIST and the students.

Learn more about this exciting program by visiting materialadvantage.org.