

# GEAR Burnishing

...from the Source

Remove nicks, burrs, heat treat scale  
and improve gear tooth surface.

Over 30 years ago, ITW Heartland developed the gear  
burnishing process. Put your trust in the people who invented the process.

#### MACHINE FEATURES INCLUDE:

- Fully automated systems.
- High speed machines.
- Patented Gerac Oscillation System.
- Automatic spherical positioning.
- Tri-variable die design.
- Horizontal or vertical axis machines.
- Variety of gear types.



Working components of the  
Horizontal Burnisher



ITW Vertical Burnisher

For additional information on Gear  
Burnishing and/or Functional Gear  
Inspection, visit our website at:  
[www.itwgears.com](http://www.itwgears.com)

**ITW Heartland**

1205 36th Avenue West  
Alexandria, MN 56308 U.S.A.  
Ph: (320) 762-8782  
Fax: (320) 762-5260  
E-mail: [itwgears@rea-isp.com](mailto:itwgears@rea-isp.com)

TURKEY SYSTEMS AVAILABLE.  
CUSTOMIZE YOUR APPLICATION:  
BURNISHER + WASHER + INSPECTION GAGE.

## SPIRAL BEVEL GEARS (Transmissions)



Spiral & Straight Bevel Gear Manufacturing.  
Commercial to aircraft quality gearing.  
Spur, helical, splined shafts, internal & external,  
shaved & ground gears. Spiral bevel grinding.  
Midwest Transmissions & Reducers.  
ISO compliant.



MIDWEST GEAR  
& TOOL, INC.  
12024 E. Nine Mile Road  
Warren, MI 48089

CONTACT:  
CRAIG D. ROSS  
(586) 754-8923  
FAX (586) 754-8926

## TECHNICAL CALENDAR

September 4-11—International Manufacturing Technology Show 2002. McCormick Place, Chicago, IL. See page 15 for complete IMTS 2002 coverage.

September 11-13—Fundamentals of Gear Design. University Center for Continuing Education, University of Wisconsin-Milwaukee, Milwaukee, WI. This course will provide attendees with a beginning knowledge of modern gear system design and analysis. A knowledge of geometry, trigonometry, and elementary algebra is required. \$1,095. For more information, contact the University Center for Continuing Education at (414) 227-3100 or visit the center's web pages via [www.uwm.edu](http://www.uwm.edu).

September 23-24—11th Annual Gear Failure Analysis Seminar. Big Sky Resort, Big Sky, MT. Attendees will learn the causes of and prevention methods for gear failure. Types of gear failure such as macropitting and micropitting, scuffing, tooth wear and breakage will be discussed. \$625 for AGMA members, \$795 for non-members. For more information, contact the AGMA at (703) 684-0211 or by e-mail at [tech@agma.org](mailto:tech@agma.org).

October 21-25—AGMA School for Gear Manufacturing. Richard J. Daley College, Chicago, IL. Attendees will receive training in gearing and nomenclature, principles of inspection, gear manufacturing methods, and hobbing and shaping. \$650 for AGMA members, \$775 for non-members. For more information, contact the AGMA at (703) 684-0211 or by e-mail at [fentress@agma.org](mailto:fentress@agma.org).

November 13-14—Advanced Gear Processing and Manufacturing with Tabletop Exhibits. Hilton Northbrook, Northbrook, IL. Sponsored by the Society of Manufacturing Engineers, this program analyzes the issues in processing and manufacturing high quality gears. \$795 for SME members, \$895 for non-members. For more information, contact the SME by telephone at (800) 733-4763 or on the Internet at [www.sme.org](http://www.sme.org).

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