

leader here — especially when it comes to perfect surface qualities and the lowest possible machining tolerances. This combination is giving us major opportunities in an increasingly important market,” Falk sums up the enormous potential opening up for LMT Fette.

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## Zoller

### OFFERS INSPECTION FOR HOB CUTTERS

Gear cutting is a challenging task. Only perfect and re-sharpened tools can guarantee correct workpieces, short setup times and low downtimes of expensive gear cutting machines. Complete documentation and logging are fundamental requirements. The measurement and inspection of hob cutters has remained the domain of highly complex and extremely expensive measuring systems. Tactile sensors are in wide-spread use, requiring especially trained operators and considerable time. High costs and supply bottlenecks are the result.

With its new *hobCheck* Zoller now offers a quantum leap for the measurement of hobs: the first truly shop floor compatible and at the same time economical specialist for the overall measurement of hob cutters. Zoller combines image processing technology with

a measuring sensor, a swiveling optic carrier and six CNC-driven axes to provide distortion-free complete measurement of hobs. This gives the user an exact replica of the tooth profile on the cutting edge.

The user-friendly software *pilot 3.0* offers a simple operation by displaying the desired parameters according to DIN 3968. The calculation of the quality classes and graphic logging is fully automated. The link to *esco*, the standard software for hobs, avoids duplicate

data entry, saves time and guarantees an error-free measured result taking current parameters into account.

These include concentricity and run-out, deviations in the shape and position of the cutting face, of the cutting edge, tooth thickness and flute direction. The quality class is assigned automatically and marked appropriately in the protocol.

The *hobCheck* not only solves the challenge of measuring hobs economically with high precision, but also



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includes all the standard functions of a measuring machine. The complete measurement of standard and special tools (drills, step drills, form cutters and milling cutters) is possible without any difficulties. This is a distinct added value, especially for re-sharpening businesses.

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# Drake Manufacturing

CO-EXHIBITS WITH VMT AT IMTEX 2013

Drake Manufacturing Services of Warren, Ohio, with its representatives, VMT Technologies India, displayed a high accuracy work head and linear motor demonstration unit in its booth at IMTEX. The unit helped visitors visualize the technologies used in Drake machines. The display featured Drake's high-accuracy work

head and the various components of the linear motor platform including linear motor and magnets, rails, and roller cars and 8-million count Heidenhain encoders. Linear motor drives mean no drive train windup, backlash, or lead error due to aging ball screws, couplings, or bearing blocks. Drake also demonstrated its built-in *Part Smart* programming and menu screens on a Fanuc CNC control system. With Drake's *Part Smart* menus, no programming knowledge is required. The *Part Smart* approach allows users to run parts and change-over jobs with menu-driven ease. In conjunction with IMTEX, Jim Vosmik, Drake's president, presented, "The Latest Developments in Fine Pitch Thread Grinding" on January 23 at the International Seminar on Machining Technologies (ISMT). Attendees learned about the latest developments in wheel, machine, and dressing design for fine-pitch thread grinding. Drake has many machine installations in India and throughout Asia including thread grinders, ball screw grinders and profile gear grinders for a variety of applications. Local Indian sales, service and support is handled by VMT Technologies-Bangalore.

**For more information:**

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

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