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# Manufacturing ENGINEERING

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Photo courtesy Cincinnati Machine, MAG-IAS



## Metalcutting: Cells and Machining Centers

*Manufacturers can ramp up product*



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There will be more than one new machine introduced at IMTS 2006 that will be billed as a beater, or as an India and rest-of-Asia beater, for that matter.

U.S. manufacturers ranging from entrepreneurial job shops to Tier suppliers and general engineering manufacturers will have a chance to hone their competitiveness with the latest advanced technology. The usual ways to sharpen that edge are to reduce labor content and times, extend untended manufacturing capability, and deliver parts machined complete in a setup to required precision-finish quality.

### ***Twin-Spindle Machines***

Xi-Mill in 3 x 3 MM configuration is a twin carriage dual-spindle high-speed machining center for higher vc

single and/or dual workzone machining. The X-Mill features two independently operating three-axis spindle modules. Two spindles are always machining either the same or two different parts. The X-Mill modules traverse at 2363 ipm (60 m/min), feed to 1181 ipm (30 m/min), accelerate at 0.5 g and have two 30 hp (22-kW), 15,000-rpm spindles.

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