

JTEKT Exhibits at 10th China International Machine Tool Show

The 10th China International Machine Tool Show hosted by the China Machine Tool Builders' Association was held at the International Exhibition Center in Beijing City for a total of seven days, beginning from the 9th of April, 2007. The total number of visitors recorded was the highest ever at 279 500 (Table 1), making the exhibition an extremely lively one (Figs. 2 and 3) and one which reflected the prosperous conditions of the current Chinese market (Fig. 1).

JTEKT gave a demonstration of the operations of the GC20M-63 CBN camshaft grinder and FH630SX horizontal machining center. JTEKT also exhibited products such as the programmable logic controller (PLC) TOYOPUC-PCS and PC10G, and support bearings for precision ball screws.

In addition, Koyo Electronics (Wuxi) Co., Ltd and TOYODA VAN MOPPES LTD. - JTEKT Group companies - exhibited a compact programmable logic controller (PLC) and diamond rotary dressers respectively.

Table 1 Outline of exhibition

	2001	2003	2005	2007
Exhibition space	34 000 m ²	35 000 m ²	72 000 m ²	72 000 m ²
Number of visitors	136 000 visitors	66 000 visitors	240 000 visitors	279 500 visitors
Overseas exhibitors	430 companies	500 companies	550 companies	570 companies
Domestic exhibitors	650 companies	600 companies	550 companies	570 companies

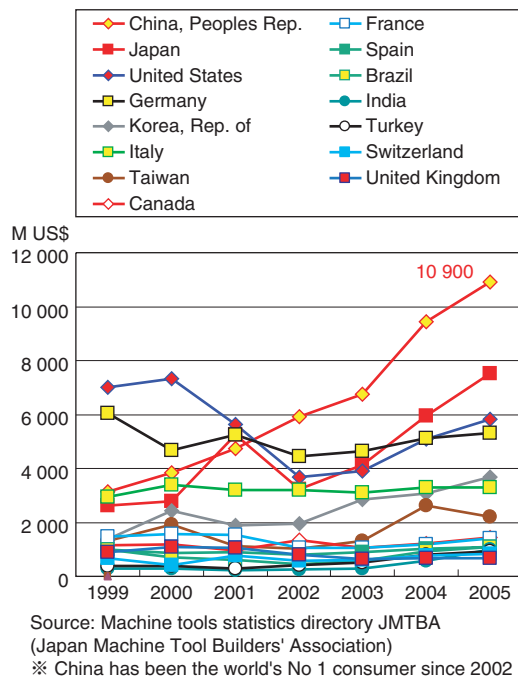


Fig. 1 Transition of worldwide machine tool consumption



Fig. 2 The opening ceremony

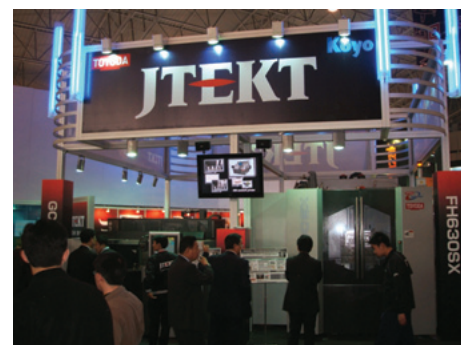


Fig. 3 JTEKT booth

Technical Introduction of Exhibit Machinery

1) GC20M-63 CBN Camshaft Grinder



- Grinding removal amount constant control (Fig. 4)
 Makes automatic decision to override spindle rotational speed by tracking the change in cam grinding allowance. 20% reduction in grinding time.

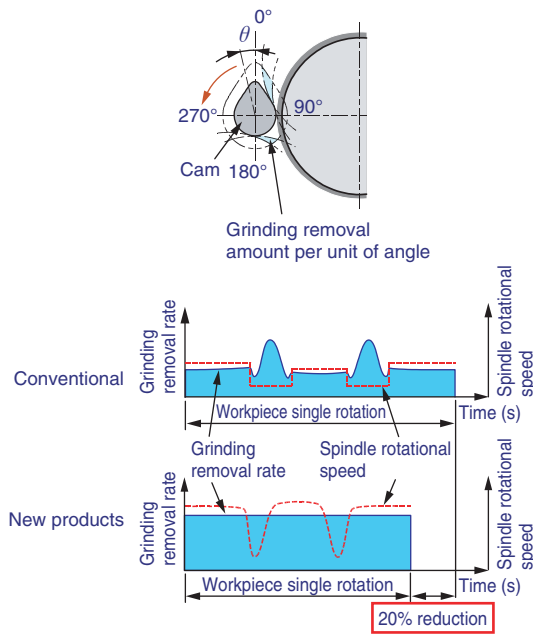


Fig. 4 Grinding removal amount constant control

- Change to linear motor driven wheel head feed (Fig. 5)
 Improved accuracy by making the change to linear motor drive for the wheel head feed spindle and removing the spring element of the ball screw.

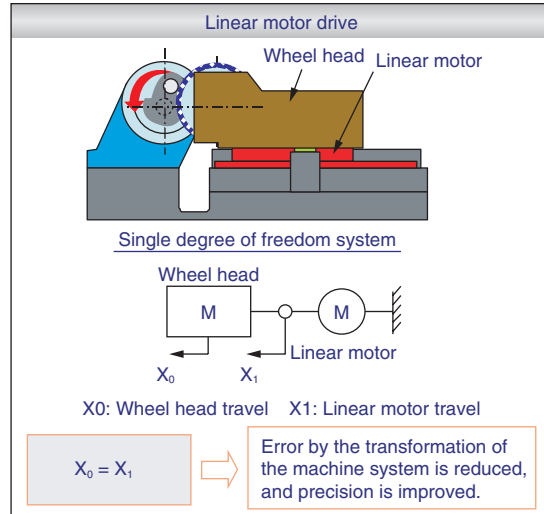


Fig. 5 Linear motor driving section

2) FH630SX Horizontal Machining Center



- Equipping with a heat displacement compensation function is standard. This function directly measures and compensates the amount of expansion caused by the heating of the ball screw using a gap sensor positioned on the tip of the ball screw

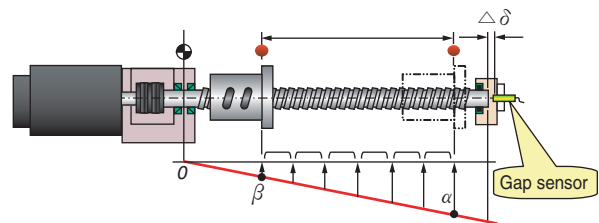


Fig. 6 Ball screw compensation function

Chinese Machine Tool Industry Trends made apparent at the Exhibition

Chinese machine tool manufacturers utilize protective trade policies to strictly control tax exemption privileges for imported machinery, and financial support extended by the government, which contributes to improvement in the level of technology through both absorption of overseas advanced technology and self-development. The exhibition of horizontal machining centers, for which technical improvement is difficult and which will presumably be a market for imported machines for the foreseen future, turned heads. The exhibited number of machining centers was around 210 machines, a significant increase to the 110 shown at the last exhibit. Out of those, Chinese-made machines numbered 120, whereas foreign made numbered 90. (As a reference, the transition of Chinese machine tool production volume on a global scale is shown in Fig. 7.)

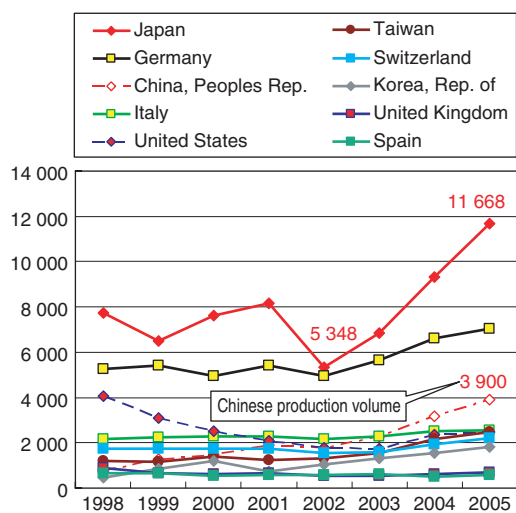


Fig. 7 Transition of Chinese machine tool production volume

In Conclusion

Many people visited the JTEKT booth not only for the purpose of study, but also to partake in serious business discussion (Fig. 8).

As a lot of inquiries received were for the FH630SX horizontal machining center, we are putting our best efforts into sales activities for this model in the hope of obtaining actual orders.

Using this exhibition as a springboard, we will now focus all our efforts on further sales expansion in the Chinese domestic market.



Fig. 8 Active business discussion