



VICTOR Newsletter

~ TIMTOS'05 Preview (March 15~20)

25/NOV/2004

Introduction:

Following the market trend for *high speed machining* and *short cycle times*, Victor Taichung will exhibit a number of new machines which will broaden our range of machine tools and at the same time offer more advanced technology to compete in today's rapidly changing market. *All the exhibits at TIMTOS 2005 will demonstrate the cutting performance on the show floor* to reveal our technical progress on manufacturing and application for these past two years.

TIMTOS'05 Exhibits

1. VturnII-20YCV with Sauter servo turret for Y-axis milling

- Sauter® Y-axis turret (0.5.354.216) with right hand VDI-30 tooling offers Y-axis travel ± 45 mm for milling application.
- Servo driven turret offers quick tool exchange to shorten the cycle
- Rapid feed rate 20/24 m/min for X/Z axis on the box slideways with high rigidity maintained.
- Direct Drive Spindle (DDS) with dual winding reaches high clamping torque at low rpm and quicker spindle acc/deceleration time to guarantee high angular accuracy $\pm 0.01^\circ$.



2. Vcenter-H630Linear with linear motor for high speed machining

- Rapid feed rate 80/80/80 m/min for X/Y/Z axes and Rapid feed acceleration 1G by **LINEAR MOTORS** feature high speed machining for high efficient manufacturing.
- Fanuc 18i-MB control with latest μ (nano) technology and HP μ CC (600 look-ahead blocks) upgrades the control performance and facilitate faster cutting feeds and more precise control.
- Built-in DDS 20000rpm spindle with HSK-A63 tooling offers output power 18.5/22kW for high speed machining.
- 630x630 mm CNC table machining, 60 tool magazine and spindle-through coolant meets industrialized standard for high productivity.



3. Vcenter-205 Traveling column VMC with long fixed table for pendulum machining

- C-framed traveling column with rapid feed 30/30/30 m/min reduces spindle idle time and feature easy access to load/unload the components.
- Long fixed worktable assures the evenly distributed loading and features for uniform accuracy at full stroke of X-axis travel even when oversized parts of off-center parts are loaded.
- **Moving CRT** facilitates to operate the machine at each side easily.
- **Central partition guarding with offset design** enables the pendulum machining like APC (Auto Pallet Changer) on two different lengths of parts.
- **Bellows canvas** fully covers the open top of machine to avoid drenching the operator by the high pressure coolants.
- Spindle motor is *directly coupled* to the spindle (DCS) to avoid the vibration resulted from belts and enhance surface finish on components.
- Easy installation for the 4th axis rotary tables and/or hydraulic fixtures which cannot be activated for conventional VMC with 2 pallet APC.



4. Vturn-36W24-OP3 Mirror machining for big size 24" wheels

- Fanuc 18i-T control with Victor's own PLC enables the mirror cutting on the road side of wheels (OP-3) to offer a cost effective solution for wheel machining.
- Specific finger chuck with flexible and changeable jaws covers the cutting range on 17"~24" wheels.
- 300 liter large coolant tank reduces chip build-up inside machine. The upgraded 3-grooved labyrinth for spindle further prolongs spindle service life.
- User-friendly design with ready-to-fit interface for air & coolant guns and big handler for easier door-moving.

