HIGH EFFICIENCY ATC
POWERFUL, HIGH SPEED ATC

The standard tool magazine is equipped with 32 tool capacity and can be upgraded to 40, 50, 60, or 90 tool capacity. The unique double-arm tool change design prevents tool collision at high speed and greatly reduces tool change time to less than 6 sec (1 to 1). The tool change process and retainer echest is accomplished by a high-quality, high-performance bi-directional hydraulic motor which further enhances the ATC.

CONVENIENT TOOL LOADING SYSTEM

Tool loading and unloading can be performed at either the spindle or tool magazine. A fast pedal is provided at both locations allowing for easy handling of even larger tools.

AUTOMATIC TOOL CHANGER

The ATC-H (Horizontal) is integrated into the original ATC-4 Vertical, which features simple construction and innovative design.

The 2-pinion AAC (Automatic Attachment Changer) is designed to improve productivity. The angular attachment and vertical head cap are put into the AAC magazine, which has an upper and lower seats and moves back and forth — separately or together. The unique design of AAC magazine can be extended with more stations for various applications.

The automatic angular attachment can be indexed into 72 positions with 5° increment and has ±3 seconds indexing repeatability accuracy.

AUTOMATIC ATTACHMENT CHANGER

Standard Head
Optical Head
Optional Head
Optional Head

Horizontal Head
Max. Speed: 3500 rpm
Max. Power: 18.5 / 22 kw

Extension Head
Max. Speed: 4000 rpm
Max. Power: 22 / 26 kw

30° Angle Head
Max. Speed: 3500 rpm
Max. Power: 18.5 / 22 kw

Universal Head
Max. Speed: 1500 rpm

CUTTING EXAMPLE

(HORIZONTAL ANGULAR)

Face Mill Cutter
Ø125
Work Material
545C
Spindle Speed (rpm)
250
Cutting Width (mm)
105 (4.1")
Cutting Depth (mm)
6 (0.23”)
Feedrate (mm/min)
600 (23.6”)
Cutting Capacity (m/min)
493 (19.3”)

KMC-M
KMTCS - Kao Ming Thermal Compensation System (Optional)

KMTCS is using unique integrated techniques for the intelligent spindle cooler with thermo-compensation cord and PLC software. The system is keeping the spindle at a constant temperature to program when the spindle temperature rises or falls at different working speeds. For high speed machining of small spindle revolution, such as for finish machining of disk, KMTCS is essential to offer stable and accurate performance. Moreover, in this case, it is possible to control the spindle elongation deviations within 0.03mm or even 0.01mm under specific conditions. The other thermo-compensation system PWK-4K is selectable as option. PWK-4K features an intelligent use of the shift function and the integration techniques from NC, PLC and thermo-compensation cord.

COM 补偿 RESULTS ON LONG-TERM PERIOD

MACHINING RANGE

FLOOR SPACE

CHIP CONVEYORS SELECTION (Option)

LINK-TYPE CHIP CONVEYORS

SCRAPER TYPE CHIP CONVEYORS (Suction for dry chip and oil-filtered)
KAO MING MACHINERY INDUSTRIAL CO., LTD.

http://www.kaoming.com

HEAD OFFICE
No.861, Sanfong Rd., Fengyuan District, Taichung City, 42073 Taiwan.

CTSP
No.53, Houke S. Rd., Houli District, Taichung City, 42152 Taiwan.
TEL: +886-4-25577650 FAX: +886-4-25577630
E-MAIL: km@kaoming.com.tw

DOUBLE COLUMN MULTI CENTER

KAO MING MACHINERY INDUSTRIAL CO., LTD.