

HIGH ACCURACY
HIGH SPEED
HIGH RIGIDITY

PRECISION TSUGAMI

New World Precision Multi-function Machine

Precision Turning and Machining Automation

TMA8-II

Complete part machining
performed by an all-in-one flexible machine

■ **High speed automatic tool changer is standard**

Tool to tool speed is 0.8 seconds

Turning and milling tools with a common shank in a common magazine unit

■ **High speed, high accuracy turning, milling, drilling, tapping, and boring**

Machine is available for either chucking or bar working

Tool adapters are of a double face contact type for high accuracy and rigidity

■ **Powerful milling capability**

5.5kw built-in motor tool spindle capable of milling center performance

■ **Wide machining range**

Combination of X, Y, Z, C, and B axis attain wide range of capability

Machine in 6-face planes on C model machine

■ **High rigidity cross slide structure**

High precision of X, Y, and Z slide structure ensures high accuracy in complex machining

■ **High accuracy**

Positioning repeatability (X/Y/Z-axis) $\pm 0.001\text{mm}$

C-axis repeatability $\pm 0.002^\circ$

■ **Selection of tooling system**

Kennametal KM40 standard

Sandvik Coromant Capto® optional



