

**High-Speed Vertical
Double-Column Machining Center**

KMC-123EU

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Specifications

NEW

	KMC-1200/1800DV		KMC-123 EU
X axis (mm)	1340 mm	1940 mm	800 mm
Y axis (mm)	1200 mm		1000 mm
Z axis (mm)	700 mm		520 mm
Spindle nose to table top (mm)	150-850 mm		30-550 mm
Table area (mm)	1200*1120	1800*1120	G2DTF630H - Ø630
Table Type	-		A/C Axes
T-slot	18*11*100		14*7
Max. table load	2200 kg	3500 kg	500/300 kg
Positioning accuracy	± 0.005mm/Full Travel		
Reproducibility	± 0.002mm/Full Travel		
Indexing Accuracy (Encoder)	-		10°(Rotary)/20°(Tilt)
Repeatability (Encoder)	-		4°(Rotary)/4°(Tilt)

Specifications

NEW

	KMC-1200/1800DV		KMC-123 EU
Spindle Taper	BT40/BBT40		HSK-A63
Spindle Speed (rpm)	15 000		24 000
Spindle Type	Direct-drive/Built-in		Built-in
Spindle Motor (Cont./30 min)	15/18.5 KW		25 KW
Rapid Traverse Rate (m/min)	40/40/24	30/40/24	30/40/24
Tool Magazine Capacity	32 ATC (opt. 40 ATC)		32 ATC (opt. 40 ATC)
Maximum tool diameter (mm)	Ø75		Ø75
CNC Controller	Fanuc OiMF Plus		Fanuc OiMF Plus

Comparison with competitor machines specifications

	AV-95X	DMX-500-NEW	NFX-400	KMC-123EU
X/Y/Z (mm)	900/600/500	600/900/560	650/520/480	800/ 1000 /520
Table area (mm)	Ø500	Ø500	Ø350	G2DTF630H - Ø630
Max speed of the table (A/C Axes)	6.25/12.5rpm	16.6/11.1rpm	25 rpm	16.6/11.1rpm
Max. table load	500 kgs	300/250 kgs	200 kgs	500/300 kgs
Rapid Traverse Rate (m/min)	20/20/20	30/30/30	36/36/36	30/40/24
ATC	20	24	24	32(opt. 40 ATC)
Max tool length	220 mm	300 mm	280 mm	300 mm
Max tool weight	7 kg	7 kg	6 kg	8 kg
Spindle Speed	24000 rpm	12000 rpm	12000-15000 rpm	24000 rpm
Spindle Taper	HSK-A63	BBT40	BBT40	HSK-A63
Spindle Type	Built-in	Direct-drive	Direct-drive	Built-in
Spindle Motor	29KW	11KW	11/15/18.5/22 KW	25KW

Machine technical features introduction

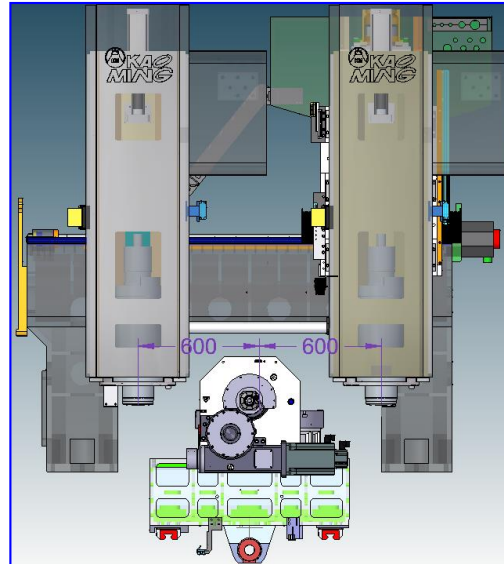
1. Double-column machine structure
2. A/C-Axis Rotary Table
3. Built-in Spindle
4. Linear guide ways
5. Tool magazine

1. Double-column machine structure

Without

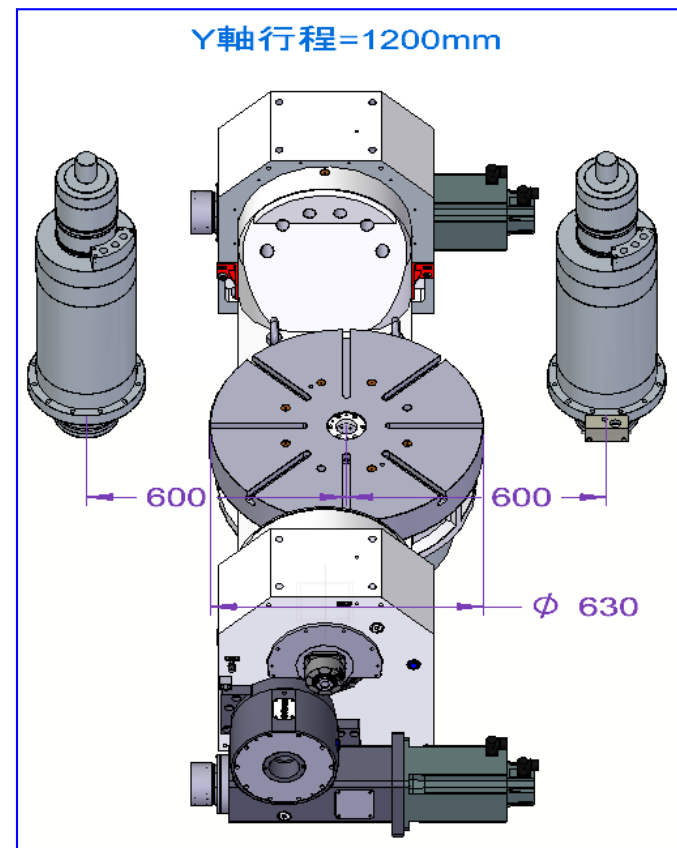
overlapping load
overhang problems

Enhanced Rigidity



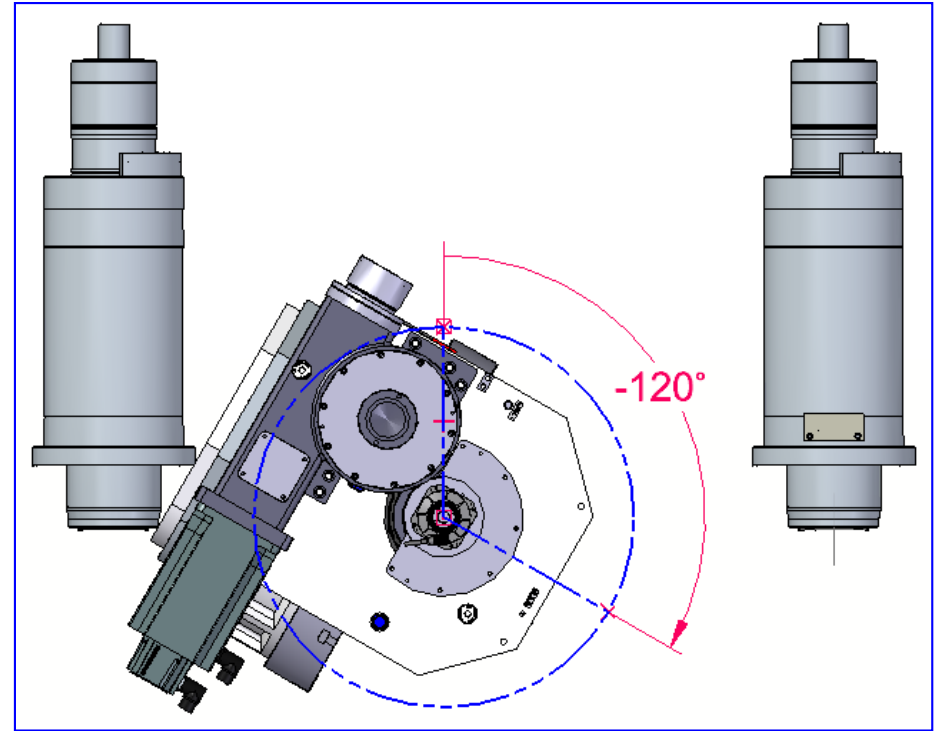
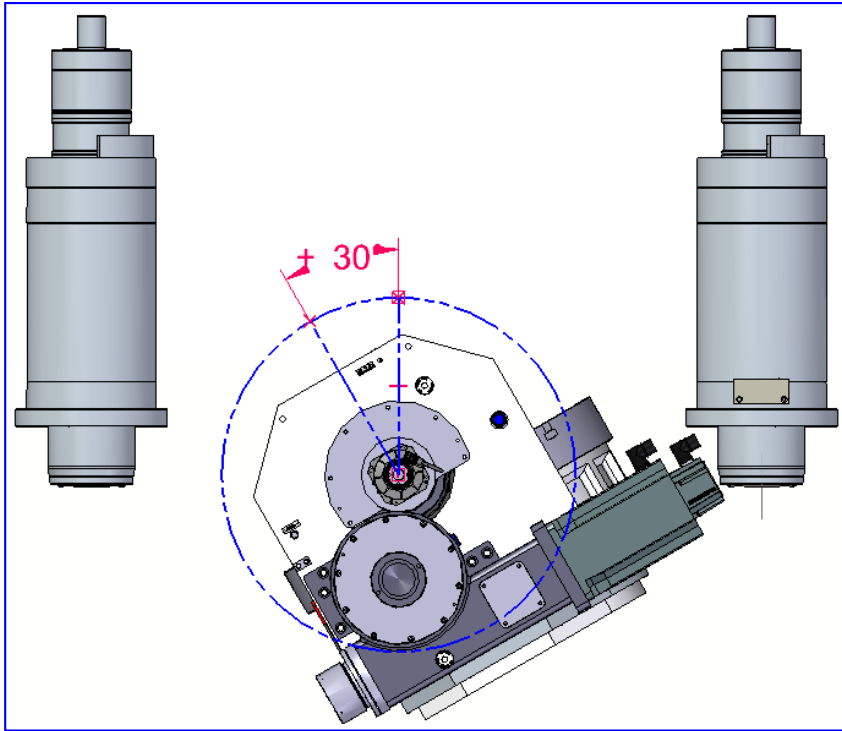
2. A/C-Axis Rotary Table

	KMC-123 EU
Table area	G2DTF630H - Ø630
A axis tilting angle	+30°~-120°
C axis tilting angle	0°~360°
Motor specifications	α8i (β12i) / α22i(β22i)
Max speed of the table (A/C Axis)	16.6/11.1rpm
Max. table load	500/300kg
T-Slot	14x7



2. A/C-Axis Rotary Table

Tilting angle $+30^{\circ} \sim -120^{\circ}$



3. Built-in Spindle

◆ The High-Speed Spindle (24000 rpm 25KW) Advantages:

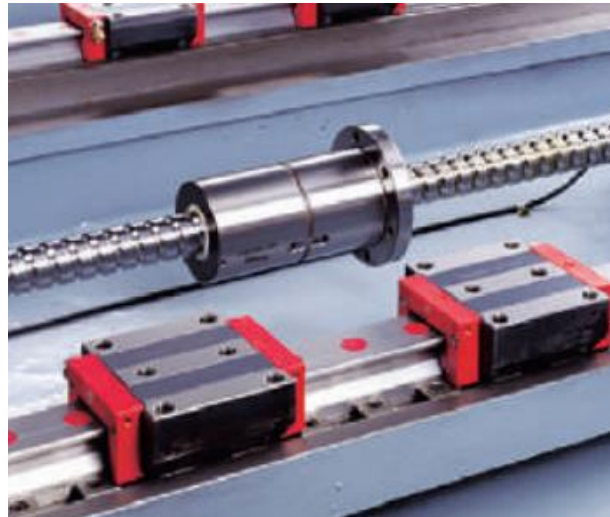
1. Low noise, **small thermal displacement**
2. Easy to achieve **ultra-high speed**, suitable for mold processing
3. Small size, but **high spindle power**
4. **Dynamic rotation precision**

◆ Spindle Taper: **HSK-A63**



4. Linear guide ways

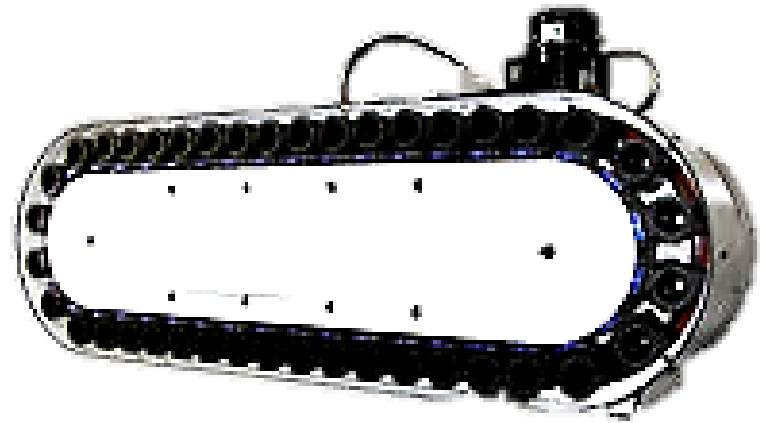
- ◆ 3 Axes utilize **linear guide ways** for fast and smooth axial movement.
- ◆ X/Y/Z axes have a **6/4/6 slide block design** for ensuring high-speed and high-rigidity machining.



5. Tool Magazine

Standard: 32 ATC

Optional: **40 ATC**



THANK YOU

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