Trunnion 5-Axis Machining Centers

Compact, accurate 5-sided machining in a single setup



AS-300/5AX
TRUNNION · A/C



AS-350/5AX
TRUNNION · A/C



AS-620/5AX
TRUNNION · B/C

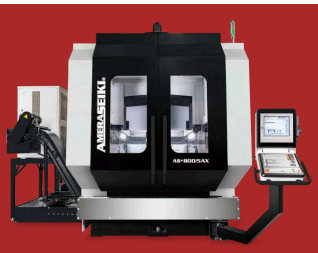
SPECIFICATION	AS-300/5AX TRUNNION · A/C	AS-350/5AX TRUNNION · A/C	AS-620/5AX TRUNNION · B/C
GENERAL			
Configuration	Trunnion	Trunnion	Trunnion, movable column C-frame
Rotary Axes	A / C	A / C	B / C
CNC Control	Fanuc	Fanuc 0i-MF (15")	Heidenhain TNC640 / Siemens ONE
TRAVEL			
X Travel	1,020 mm (40.2")	630 mm (24.8")	620 mm (24.4")
Y Travel	610 mm (24.0")	630 mm (24.8")	520 mm (20.5")
Z Travel	510 mm (20.1")	510 mm (20.1")	460 mm (18.1")
Spindle Nose to Table	40–550 mm	70–580 mm	150–610 mm
TABLE & ROTARY AXES			
Table Size	Ø350 mm	Ø350 mm	Ø650 mm
T-Slots	8 x 12 mm x 45°	8 x 12 mm x 45°	5 x 18 mm x 100 mm
Table Load	200 kg horiz. / 150 kg tilt 441 / 331 lb	200 kg horiz. / 150 kg tilt 441 / 331 lb	300 kg horiz. / 200 kg tilt 661 / 441 lb
Tilt Range	A: −120° to +30°	A: −120° to +10°	B: −50° to +110°
C-Axis Rotation	360°	360°	360° (worm gear or double DD motor)
SPINDLE			
Transmission	Direct type	Direct drive	Direct (opt. built-in)
Taper	BT40	BBT40	BBT40 / DIN40 (opt. HSK-A63)
Spindle Speed	12,000 rpm (opt. 15,000)	12,000 rpm	12,000 rpm (opt. 15,000)
Spindle Motor	7.5/11 kW (10/15 HP)	7.5/11 kW (10/15 HP)	10/12.5 kW (13/17 HP)
FEEDS, TOOLING & FOOTPRINT			
Rapids (X/Y/Z)	36/36/36 m/min	36/36/36 m/min	36/36/36 m/min
ATC Capacity	24 tools	32 tools (opt. 48/60)	32 tools (opt. 40/60)
Max Tool Diameter	Full Ø100 mm / Next empty Ø150 mm	Full Ø75 mm / Next empty Ø125 mm	Full Ø75 mm / Next empty Ø125 mm
Floor Space (L x W x H)	3,910 x 2,415 x 3,760 mm	4,418 x 2,966 x 3,184 mm	2,200 x 3,320 x 3,100 mm
Machine Weight	8,500 kg (18,739 lb)	9,500 kg (20,944 lb)	8,200 kg (18,078 lb)

Spindle motor power depends on motor selection. Specifications subject to change — confirm with your Amera-Seiki representative. Imperial conversions approximate.

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Gantry & Tilting-Head 5-Axis Machining Centers

Rigid, high-capacity 5-axis machining for large and heavy parts



AS-800/5AX
GANTRY · A/C



AS-600T/5AX
TILTING HEAD · B/C



AS-800T/5AX
TILTING HEAD · B/C

SPECIFICATION	AS-800/5AX GANTRY · A/C	AS-600T/5AX TILTING HEAD · B/C	AS-800T/5AX TILTING HEAD · B/C
GENERAL			
Configuration	Gantry	Tilting spindle head	Tilting spindle head
Rotary Axes	A / C	B (head) / C	B (head) / C
CNC Control	Heidenhain TNC640 / Siemens ONE	Heidenhain TNC640 / Siemens ONE	Heidenhain TNC640 / Siemens ONE
TRAVEL			
X Travel	800 mm (31.5")	1,300 mm (51.2")	1,600 mm (63.0")
Y Travel	1,245 mm (49.0") incl. tool change travel	700 mm (27.6")	900 mm (35.4")
Z Travel	620 mm (24.4")	700 mm (27.6")	850 mm (33.5")
Spindle Nose to Table	100–720 mm	—	—
TABLE & ROTARY AXES			
Table Size	Ø800 mm	700 x 1,450 mm Rotary table Ø630 mm	850 x 1,800 mm Rotary table Ø800 mm
T-Slots	7 x 14 mm x 100 mm	18 mm x 5 x 125 mm	22 mm x 5 x 150 mm
Table Load	1,000 kg horiz. / 500 kg tilt 2,205 / 1,102 lb	1,000 kg | 600 kg 2,205 | 1,323 lb	1,500 kg 3,307 lb
Tilt Range	A: −120° to +30°	B (head): −120° to +30°	B (head): −120° to +30°
C-Axis Rotation	360° (built-in motor)	360°, DD motor 120 | 1,200 rpm max	360°, DD motor 60 | 500 rpm max
SPINDLE			
Transmission	Built-in	Built-in	Built-in
Taper	HSK-A63	BBT40 | HSK-T63	BBT40 | HSK-T63
Spindle Speed	15,000 rpm	15,000 | 12,000 rpm	15,000 | 12,000 rpm
Spindle Motor	21/25 kW (28/34 HP)	21/25 kW (28/34 HP)	21/25 kW (28/34 HP)
FEEDS, TOOLING & FOOTPRINT			
Rapids (X/Y/Z)	48/48/48 m/min	30/30/24 m/min	16/16/16 m/min
ATC Capacity	32 tools (opt. up to 120)	24 tools (opt. 30/32/40)	24 tools (opt. 30/32/40)
Max Tool Diameter	Full Ø75 mm / Next empty Ø125 mm	—	—
Floor Space (L x W x H)	3,850 x 4,849 x 3,887 mm	4,850 x 3,450 x 3,150 mm	6,920 x 4,910 x 1,930 mm
Machine Weight	20,000 kg (44,092 lb)	12,000 kg (26,455 lb)	19,000 kg (41,887 lb)

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