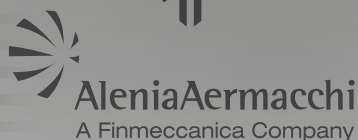
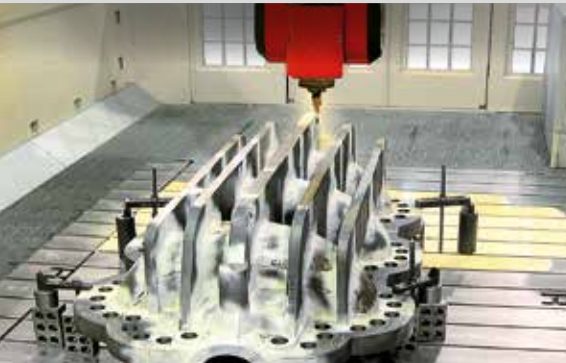


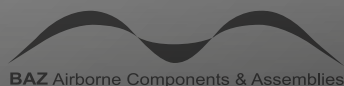
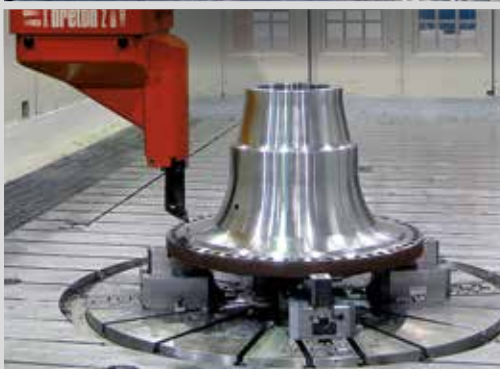


High performance multipurpose
machining centres

breton
Machine Tools









5-Axes High speed vertical machining centre, for milling high precision components. Range of materials: super alloys, titanium, steel, aluminium and composites.

XCEEDER

		XCEEDER 900	XCEEDER 1200	XCEEDER 1400
"X"- "Y"- "Z" Stroke	mm	900 - 900 - 600	1.200 - 1.000 - 700	1.700 - 1.600 - 1.000
"X"- "Y"- "Z" Axes rapid feedrate	m/min	60 - 60 - 40	60 - 60 - 40	50 - 50 - 40
"A" Axis rotation		-30° ÷ +110°	-30° ÷ +120°	± 120°
"C" Axis rotation		continuous	continuous	continuous
Spindle power S6(40%) / S1	kW	40/40 or 41/37 or 55/40	85/74.6 or 41/37 or 40/40	85/74.6 or 41/37 or 40/40
Spindle torque S6(40%) / S1	Nm	137/100 or 89/64 or 22/16	480/300 or 89/64 or 137/100	480/300 or 89/64 or 137/100
Spindle speed	rpm	18.000 or 28.000 or 40.000	14.000 or 28.000 or 18.000	14.000 or 28.000 or 18.000
DIN 69893-1 milling tool taper		HSK-A63	HSK-A63	HSK-A100
Loading capacity	kg	1.000	1.500	up to 2.500



5-Axes High Performance vertical machining centre for milling of medium and very large parts. The best combination of performance and precision. Range of materials: super alloys, steel and aluminium.

FLYMILL

		FLYMILL 1000	FLYMILL 1300	FLYMILL 1600	FLYMILL 2000
"X"- "Y"- "Z" Stroke	mm	2.000:8.000 - 2.500:4.000 - 1.000	2.000:8.000 - 2.500:4.000 - 1.300	3.000:8.000 - 4.000 - 1.600	4.500:8.000 - 3.500 - 2.000
"X"- "Y"- "Z" Axes rapid feedrate	m/min	60 - 60 - 40	60 - 60 - 40	60 - 60 - 40	60 - 60 - 40
"A" Axis rotation		-105° ÷ +120° / 0° ÷ +135°*	-105° ÷ +120° / 0° ÷ +135°*	-105° ÷ +120° / 0° ÷ +135°*	-105° ÷ +120°
"C" Axis rotation		continuous	continuous	continuous	continuous
Spindle power S6(40%) / S1	kW	40/40 or 41/37 or 85/75*	40/40 or 41/37 or 85/75*	40/40 or 41/37 or 85/75*	40/40 or 41/37
Spindle torque S6(40%) / S1	Nm	137/100 or 89/64 or 480/300*	137/100 or 89/64 or 480/300*	137/100 or 89/64 or 480/300*	137/100 or 89/64
Spindle speed	rpm	18.000 or 28.000 or 14.000*	18.000 or 28.000 or 14.000*	18.000 or 28.000 or 14.000*	18.000 or 28.000
DIN 69893-1 milling tool taper		HSK-A63 HSK-A100*	HSK-A63 HSK-A100*	HSK-A63 HSK-A100*	HSK-A63

* Only HD version



5-Axes Turning and Milling vertical machining centre, for combination of milling and turning of high precision components.
Range of materials: superalloys, titanium, steel, aluminium and composites.

ULTRIX

		ULTRIX 800	ULTRIX 1000	ULTRIX 1200
"X"- "Y"- "Z" Stroke	mm	800 - 900 - 600	1.150 - 1.000 - 700	1.700 - 1.600 - 1.000
"X"- "Y"- "Z" Axes rapid feedrate	m/min	60 - 60 - 40	60 - 60 - 40	50 - 50 - 40
"A" Axis rotation		-30° ÷ +110°	-30° ÷ +120°	± 120°
"C" Axis rotation		continuous	continuous	continuous
Spindle power S6(40%) / S1	kW	40/40 or 41/37 or 55/40	85/74.6 or 41/37 or 40/40	85/74.6 or 41/37 or 40/40
Spindle torque S6(40%) / S1	Nm	137/100 or 89/64 or 22/16	480/300 or 89/64 or 137/100	480/300 or 89/64 or 137/100
Spindle speed	rpm	18.000 or 28.000 or 40.000	14.000 or 28.000 or 18.000	14.000 or 28.000 or 18.000
DIN 69893-1 milling/turning tool taper		HSK-A63/C6	HSK-A63/C8 or HSK-A100/C8	HSK-A63/C8 or HSK-A100/C8
Loading capacity	kg	1.000	1.500	up to 2.500



5-Axes High speed vertical machining centre for aeronautical components and moulds.
Range of materials: steel, aluminium and composites.

MATRIX 1000-1300

		MATRIX 1000	MATRIX 1000 DYNAMIC	MATRIX 1300 DYNAMIC
"X"- "Y"- "Z" Stroke	mm	2.500:6.000 - 2.200:3.000 - 1.000	2.500:6.000 - 2.200:3.000 - 1.000	3.000:8.000 - 3.000:4.000 - 1.300
"X"- "Y"- "Z" Axes rapid feedrate	m/min	40 - 40 - 20	60 - 60 - 40	60 - 60 - 40
"A" Axis rotation		±105°	-105° ÷ +120°	-105° ÷ +120°
"C" Axis rotation		±220°	continuous	continuous
Spindle power S6(40%) / S1	kW	22/20 or 41/37	40/40 or 41/37 or 96/70	40/40 or 41/37 or 96/70
Spindle torque S6(40%) / S1	Nm	60/48 or 89/64	137/100 or 89/64 or 94/67	137/100 or 89/64 or 94/67
Spindle speed	rpm	28.000 or 28.000	18.000 or 28.000 or 28.000	18.000 or 28.000 or 28.000
DIN 69893-1 milling tool taper		HSK-A63	HSK-A63	HSK-A63



High speed multipurpose vertical machining centre, with 6 axes, offering the widest range of machining options such as milling, vertical turning and grinding of medium and big size parts. Range of materials: superalloys, titanium, steel, aluminium and composites.

MAXIMA

		MAXIMA 1600				MAXIMA 2000			
"X"- "Y"- "Z" Stroke	mm	3.000:8.000 - 2.500:3.500 - 1.300:1.700				3.000:8.000 - 3.500 - 1.300:1.700			
"X"- "Y"- "Z" Axes rapid feedrate	m/min	60 - 60 - 40				60 - 60 - 40			
"A" Axis rotation		0° ÷ +135°				0° ÷ +135°			
"C" Axis rotation		continuous				continuous			
Spindle power S6(40%) / S1	kW	85/74.6	or	40/40	or	41/37	or	90/80*	85/74.6 or 40/40 or 41/37 or 90/80*
Spindle torque S6(40%) / S1	Nm	480/300	or	137/100	or	89/64	or	1.300/1.000*	480/300 or 137/100 or 89/64 or 1.300/1.000*
Spindle speed	rpm	14.000	or	18.000	or	28.000	or	4.000*	14.000 or 18.000 or 28.000 or 4.000*
DIN 69893-1 milling tool taper		HSK-A63 or HSK-A100				HSK-A63 or HSK-A100			
Turning tool taper		Capto C8				Capto C8			

* 3 axes version



Metalquartz®

5-Axes High speed vertical machining centre for mould and die applications and aeronautics. Range of materials: steel finishing, aluminium and composites.

MATRIX 800

		MATRIX 800	
"X"- "Y"- "Z" Stroke	mm	2.500 - 2.000 - 800	
"X"- "Y"- "Z" Axes rapid feedrate	m/min	40 - 40 - 20	
"A" Axis rotation		±105°	
"C" Axis rotation		continuous	or ±220°
Spindle power S6(40%) / S1	kW	41/37	or 22/20
Spindle torque S6(40%) / S1	Nm	89/64	or 60/48
Spindle speed	rpm	28.000	or 28.000
DIN 69893-1 milling tool taper		HSK-A63	



High speed vertical machining centre, with 5 axes, for milling, trimming, routing & drilling of medium and big size parts. Range of materials: Composites and Resins.

RAPTOR

RAPTOR 1200				
"X"- "Y"- "Z" Stroke	mm	2.800 - 4.000 - 1.200		
"X"- "Y"- "Z" Axes rapid feedrate	m/min	80 - 80 - 40		
"A" Axis rotation		0° ÷ +115°		
"C" Axis rotation		±270°		
Spindle power S6(40%) / S1	kW	31/25	or	22/20
Spindle torque S6(40%) / S1	Nm	65/52	or	60/48
Spindle speed	rpm	16.000	or	28.000
DIN 69893-1 milling tool taper		HSK-A63		



5-Axes High speed vertical machining centre for milling, trimming, routing & drilling of aeronautical and general components. Range of materials: aluminium, composites and resins.

EAGLE

		EAGLE 1000	EAGLE 1500	EAGLE 2000	EAGLE 2500
"X"- "Y"- "Z" Stroke	mm	2.000:10.500 - 2.500:4.000 - 1.000	2.000:10.500 - 2.500:4.000 - 1.500	3.000:10.500 - 4.000 - 2.000	3.000:10.500 - 5.000 - 2.500
"X"- "Y"- "Z" Axes rapid feedrate	m/min	85 - 85 - 40	85 - 85 - 40	70 - 70 - 40	70 - 70 - 40
"A" Axis rotation		±115°	±115°	±115°	±115°
"C" Axis rotation		±270°	±270°	±270°	±270°
Spindle power S6(40%) / S1	kW	31/25 or 41/37	31/25 or 41/37	31/25 or 41/37	31/25 or 41/37
Spindle torque S6(40%) / S1	Nm	65/52 or 89/64	65/52 or 89/64	65/52 or 89/64	65/52 or 89/64
Spindle speed	rpm	16.000 or 28.000	16.000 or 28.000	16.000 or 28.000	16.000 or 28.000
DIN 69893-1 milling tool taper		HSK-A63	HSK-A63	HSK-A63	HSK-A63



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