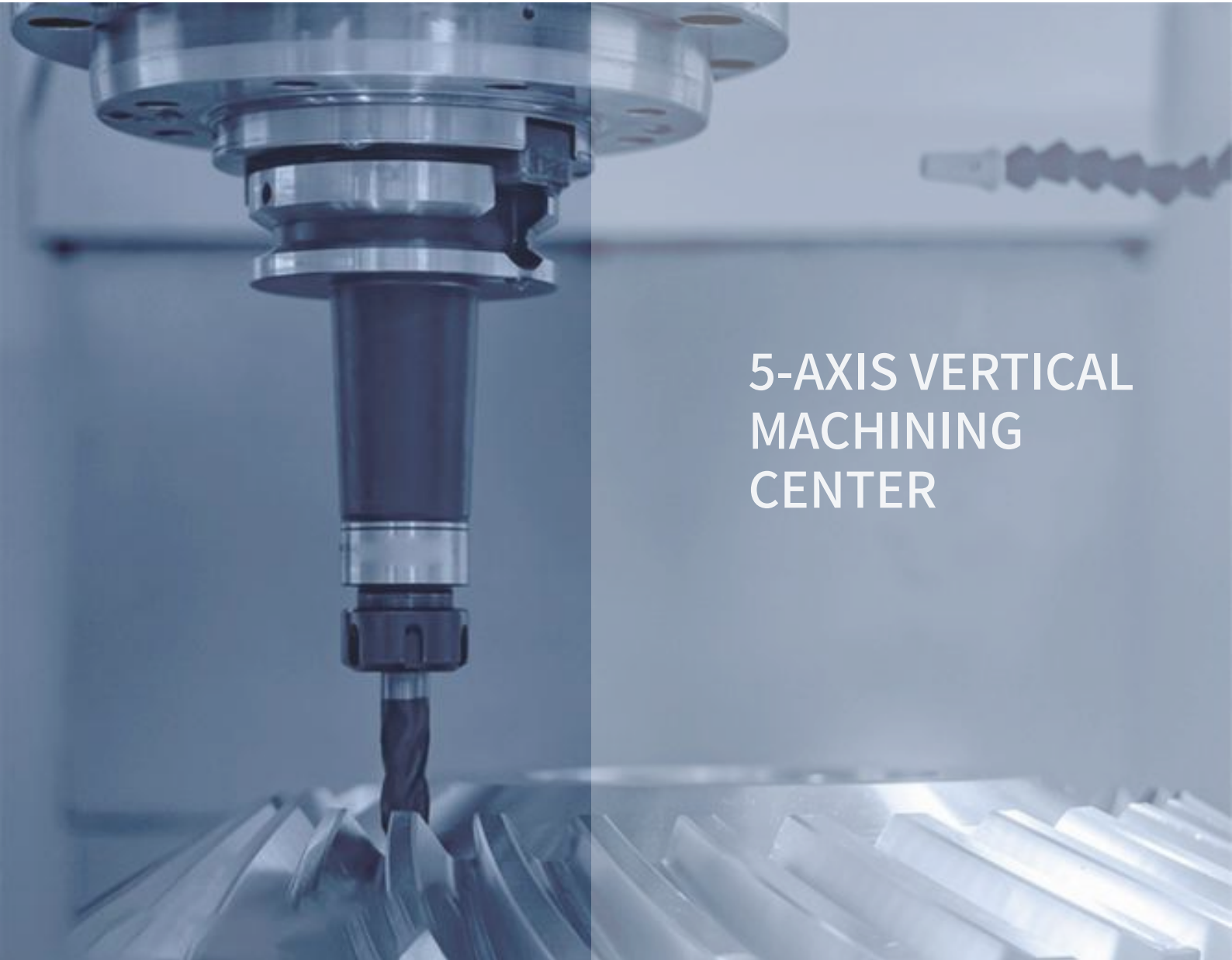


BF Techno

SGM800



5-AXIS VERTICAL
MACHINING
CENTER

SGM800

5-Axis Vertical Machining Center



SGM800 5-axis vertical machining center is a medium-to-large-sized machine with its base and column cast using a mineral casting formula sourced from Germany. After a single setup, the workpiece can be automatically processed through multiple operations such as milling, drilling, boring, reaming, tapping, countersinking, and threading. The machine is suitable for the production of complex parts such as small and medium-sized box-type, plate-type, disc-type, valve-type, housing-type, and mold components in small to medium batches. The machine is equipped with high-precision hollow water-cooled linear guides and ball screws, providing superior dynamic response and high-speed performance. It enables high-speed cutting and low-speed operation without crawling, making it widely applied in precision parts, 5G product hardware, automotive parts, and medical device industries.



Parameters

SGM800	Item	Unit	Parameter	Remark
Capacity	Table size	mm	Φ800X590	
	X-axis travel	mm	1000	
	Y-axis travel	mm	1000	
	Z-axis travel	mm	700	
	A-axis swing angle (A-axis)	mm	-120/120	
	C-axis rotation angle	°	n×360°	
	Spindle nose to table	mm	150-850	
5-axis table	C-axis worktable size	mm	Φ800	With circular grating
	Maximum loading of C axis	Kg	1000	
	T-shot (No.-width * distance)	mm	8-18H7	
	Minimum indexing of A-axis	°	0.001	With circular grating
	A/C axis rapid traverse speed	r/min	30/50	
Spindle	Motor power	kw	30	
	Motor torque	N.m	72	
	Maximum spindle speed	r/min	18000	
	Spindle diameter	mm	190	
	Spindle taper	-	HSK A63	
Axis guide	X axis	mm	55 roller	4 slider
	Y axis	mm	55、45 roller	4 slider+2 slider
	Z axis	mm	45 roller	6 slider
screw	X/Y/Z screw	mm	5016/5016/4016	
Speed	Cutting feed	mm/min	1-12000	
	X/Y/Z axis rapid feed	m/min	48/48/48	Screw plate
	X/Y/Z axis rapid feed	m/min	60/60/48	X/Y linear motor version
Accuracy (closed loop)	Positioning accuracy (X/Y/Z)	mm	0.005/300	GB/T18400-2-2010
	Positioning repeatability (X/Y/Z)	mm	0.003/300	
	Positioning accuracy (A/C)	Sec	6	
	Positioning repeatability (A/C)	Sec	4	
	Five-axis RTCP accuracy	mm	0.04	GB/T39953-2021
ATC	Number of tools	set	32/40/60	
	Max.tool weight	kg	8	
	Max. tool length	mm	300	
	Max.tool diameter(full/adjacent empty)	mm	Φ75/Φ150	
Others	Control system		-	Siemens one / Fagor
	Air source	Flow	L/min	≥280 (ANR)
		Air pressure	MPa	0.6~0.8
	Equipment capacity		KVA	50
	Cooling box volume		L	800
	Machine size (length* width* height)		mm	4700*3050*3790
Machine weight		Kg	18000	