

MCU Line

1100V[T]-5X | 1400V[T]-5X



Multitasking five-axis machining centers

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NEW Multitasking five-axis machining centers

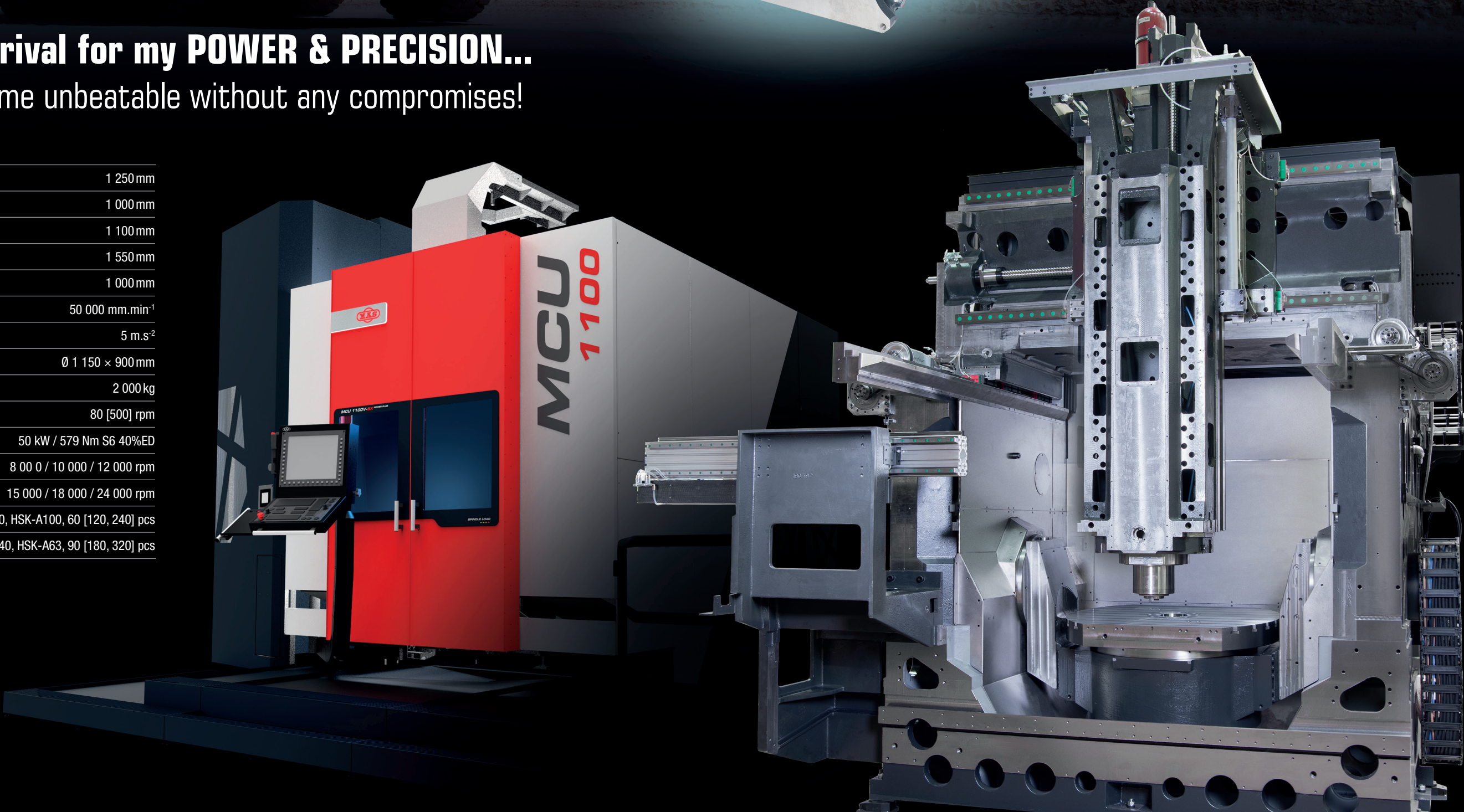
MCU 1100VITJ-5X

There is no rival for my **POWER & PRECISION...**
...become unbeatable without any compromises!

Max. workpiece diameter:	1 250 mm
Max. workpiece height:	1 000 mm
X Axis Travel:	1 100 mm
Y Axis Travel:	1 550 mm
Z Axis Travel:	1 000 mm
Rapid Traverse X / Y / Z:	50 000 mm.min ⁻¹
Acceleration:	5 m.s ⁻²
Table size:	Ø 1 150 × 900 mm
Maximal Table load:	2 000 kg
Maximal Table speed:	80 [500] rpm
Spindle drive output up to:	50 kW / 579 Nm S6 40%ED
Max. Spindle speed:	8 000 / 10 000 / 12 000 rpm
	15 000 / 18 000 / 24 000 rpm
Tool Magazine, number of tools:	ISO 50, HSK-A100, 60 [120, 240] pcs
	ISO 40, HSK-A63, 90 [180, 320] pcs



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machine your future



TECHNICAL DATA			MCU 1100V-5X		MCU 1100VT-5X		MCU 1400V-5X		MCU 1400VT-5X	
Operating range	Maximum workpiece diameter	mm	Ø 1 250				Ø 1 415			
	Maximum workpiece height	mm	1 000				1 000			
	Distance spindle to table	mm	150 – 1 150				150 – 1 150			
Linear axes	X axis travel	mm	1 100				1 400			
	Y axis travel	mm	1 550				1 650			
	Z axis travel	mm	1 000				1 000			
	Rapid traverse X, Y, Z	mm.min ⁻¹	50 000				50 000			
	Acceleration in axes X, Y, Z	m.s ⁻²	5				5			
	Feed force X, Y, Z	kN	16 / 16 / 16				16 / 16 / 16			
	Positioning accuracy	mm	0,008				0,008			
	Repeatability	mm	0,004				0,004			
Rotation axes	A axis tilt range		175° (+45° / –130°)				175° (+45° / –130°)			
	A axis maximum speed	rpm	23				21			
	Accuracy of dividing A axis	sec	±2				±2			
	Accuracy of dividing C axis	sec	±2		±1		±2		±1	
Tables	Table clamping area size		Ø 1 150 × 900		Ø 1 000		Ø 1 350 × 1100		Ø 1 250	
	Maximum load on the table		2 000		2 000		2 500		2 500	
	Maximum speed	rpm	80		500		30		500	
	Nominal speed	rpm	80		256		30		256	
	Torque continuous	Nm	3 194		3 030		3 194		3 030	
	Power continuous	kW	80		76		80		76	
	T-slots (number × width × spacing)	mm	7 × 22H7 × 125		10 × 22H7 × 36°		9 × 22H7 × 125		10 × 22H7 × 36°	
Energy connections and consumption	AC voltage		3 × 400V, 50Hz				3 × 400V, 50Hz			
	Rated current	A	250				250			
	Total machine input	kVA	120				120			
	Recommended power line supply	mm²	5 × 95 Cu				5 × 95 Cu			
	Pneumatic pressure	MPa	0,6				0,6			
Machine dimensions	Compressed air consumption	m³/hod	8 - 20				8 - 20			
	Length (transport dimensions)	mm	6 500 (5 000)				6 500 (5 000)			
	Width (transport dimensions)	mm	4 800 (2 680)				5 400 (2 980)			
	Height (transport dimensions)	mm	5 000 (3 600)				5 000 (3 600)			
	Machine weight	kg	25 000 (20 000)				30 000 (25 000)			
Control system		TNC640 [SIN 840D SL]			SIN 840D SL [TNC640]		TNC640 [SIN 840D SL]		SIN840D SL [TNC640]	
Spindles	Type		POWER PLUS	POWER	SPEED PLUS	SPEED	SPEED	SPRINT	RAPID	
	Drive type		built-in	built-in	built-in	built-in	built-in	built-in	built-in	
	Taper – Universal		ISO 50 [HSK-A100]	ISO 50 [HSK-A100]	HSK-A100	ISO 40	HSK-A63	HSK-A63	HSK-A63	
	Multitasking Variant		Yes	No	Yes	No	Yes	Yes	No	
	Taper – Multitasking		HSK-A100	-	HSK-A100	-	HSK-A63	HSK-A63	-	
	Hydraulic Spindle Lock		Yes	-	Yes	-	Yes	Yes	-	
	Max. speed	rpm	8 000	10 000	15 000	12 000	12 000	18 000	24 000	
	Nominal speed	rpm	850	720	2 000	2 000	2 330	2 800	4 000	
	Power 25% / 40% ED / cont.	kW	59 / 50 / 39	42 / 36 / 20	98 / 84 / 63	53 / 45 / 33	56 / 48 / 32	29 / 25 / 20	29 / 25 / 19	
Tool magazine	Torque 25% / 40% ED / cont.	Nm	654 / 579 / 451	384 / 340 / 262	522 / 461 / 300	243 / 215 / 160	226 / 200 / 130	153 / 135 / 87	113 / 100 / 60	
	Tool storage capacity	ISO 50, HSK-A100	60 [120, 240]				60 [120, 240]			
		ISO 40, HSK-A63	90 [180, 320]				90 [180, 320]			
	Max. tool diameter	mm	130 (280)				130 (280)			
	(Without neighboring tool)	mm	80 (160)				80 (160)			
	Max. tool weight	kg	30				30			
		kg	20				20			
	Tool change time	s	4				4			
	Tool to tool	s	3				3			
Tool change time chip to chip	ISO 50, HSK-A100	s	8				9			
	ISO 40, HSK-A63	s	6				7			



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