

Kosmo Machine Specifications



MAZAK 3 AXIS MILLS

ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	A/B TRAVEL	4TH AXIS A/C	THRU-PUT	SPINDLE RPM	SECONDARY (SUB) RPM	COOLANT PSI	ORIENTATION	OPTIONS
CN07	VCN700D	60"	27"	32.5"		9" CHUCK	2.75" BAR	12,000		200	VERTICAL	PROBE, SIDE PANELS, HIGH SPEED
CN18	VCN410	30"	16.14"	20"				12,000		200	VERTICAL	PROBE, SIDE PANELS
CN19	VCN530MILL-1	41"	20.5"	25"		9" CHUCK	2.75" BAR	12,000		200	VERTICAL	PROBE, SIDE PANELS
CN22	VCN-430A	22.05	16.93	20.08				15,000		100-1000	VERTICAL	HIGH SPEED
CN23	VCN530MILL-2	41.18	20.87	20.08				15,000		100-1000	VERTICAL	HIGH SPEED, ENGRAVING
CN24	VCN530MILL-3	41.18	20.87	20.08				15,000		100-1000	VERTICAL	HIGH SPEED, ENGRAVING

MAZAK 4 AXIS MILLS (HORIZONTAL)

ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	A/B TRAVEL	4TH AXIS A/C	THRU-PUT	SPINDLE RPM	SECONDARY (SUB) RPM	COOLANT PSI	ORIENTATION	OPTIONS
CN05	H6000-2	31.5"	31.5"	31.5"	360° ±.01°INC			10,000		1000	HORIZONTAL	
CN26	HCN-8800	55.12	47.24	52.17	360° ±.001			10,000		100-1000	HORIZONTAL	PROBE, HI-SPD, ENGR, SCALE FEEDBACK

MAZAK 5 AXIS MILLS

ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	A/B TRAVEL	4TH AXIS A/C	THRU-PUT	SPINDLE RPM	SECONDARY (SUB) TURNING RPM	COOLANT PSI	ORIENTATION	OPTIONS
CN30	VARIAXIS i600	20.08"	35.83"	20.08"	A(-120°)TO(30°)	22" CHUCK	0"	18,000		1000	5 AXIS	HIGH SPEED - SMOOTH, PROBE
CN06	VARIAXIS i630T	28.875"	28.875"	29"	A(-120°)TO(30°)	22" CHUCK	0"	18,000	1100	1000	5 AXIS	HIGH SPEED - SMOOTH, PROBE
CN20	VCU500	19.84"	19.84"	18.5"	B(-45°)TO(90°)	9" CHUCK	0"	12,000		200	5 AXIS	HIGH SPEED - SMOOTH, PROBE
CN27	VARIAXIS i700T	24.8"	43.31"	23.62"	A(-120°)TO(30°)	22" CHUCK	0"	18,000	1100	1000	5 AXIS	HIGH SPEED - SMOOTH, PROBE
NNS1	VARIAXIS i700T	24.8"	43.31"	23.62"	A(-120°)TO(30°)	22" CHUCK	0"	18,000	1100	1000	5 AXIS	HIGH SPEED - SMOOTH, PROBE
NNS1	PALLETECH HIGH RISE 2-LEVEL SYSTEM									24 AUTOMATIC TRANSPORT OF PALLETS WITH FIXTURES AND WORK PIECE		
NNS2	VARIAXIS i700T	24.8"	43.31"	23.62"	A(-120°)TO(30°)	22" CHUCK	0"	18,000	1100	1000	5 AXIS	HIGH SPEED - SMOOTH, PROBE
NNS2	PALLETECH HIGH RISE 2-LEVEL SYSTEM									24 AUTOMATIC TRANSPORT OF PALLETS WITH FIXTURES AND WORK PIECE		

MAZAK LATHES WITH MILLING

ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	C-AXIS	CHUCK	THRU-PUT	SPINDLE RPM	(LIVE/SUB) RPM	COOLANT/PSI	ORIENTATION	OPTIONS
CN11	SQT28M	22"		82"	NON-LOCKING	12"CHUCK	3.06" BAR	2,500	4,000	90-125	HORIZONTAL	
CN12	QTN250MY	14.75"	±1.99"	19.58"	LOCKING	10" CHUCK	3.0" BAR	4,000	4,000	200	HORIZONTAL	
CN13	QT200(SMART)	14"		20"	N/A	8" CHUCK	2" BAR	4,000	N/A	200	HORIZONTAL	
CN14	SQT10	9"		12"	N/A	6" CHUCK	1.625" BAR	4,000	N/A	200	HORIZONTAL	PARTS CATCHER
CN16	SQT15MS	13"		24"	NON-LOCKING	8" CHUCK	2" BAR	3,000	4,000/3,000	90-125	HORIZONTAL	PARTS CATCHER
CN21	QTN450MY	23"	±4.0"	82.8"	LOCKING	18" CHUCK	6.5" BAR	2,000	4,000	200	HORIZONTAL	STEADY REST 3.145" TO 21"
CN25	QT200MY	14.75"	±1.99	21.285"	LOCKING	8" CHUCK	2" BAR	5,000	4,500	200	HORIZONTAL	PARTS CATCHER
CN28	QT250MY	14.75"	±1.99	40"	LOCKING	10" CHUCK	2" BAR	5,000	4,500	200	HORIZONTAL	
CN29	QT350MY	16.54"	±1.99	60"	LOCKING	12" CHUCK	3" BAR	5,000	4,500	200	HORIZONTAL	

ELECTRICAL DISCHARGE MACHINE (EDM) SINKER												
ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	WEIGHT LIMIT	LARGEST HOLE		MAX WORK HEIGHT	MAX WORK LENGTH	MAX WORK WIDTH		
E001	EDM POPPER	30"	12"	24"	500 LBS	0.125						
E002	MITSU C AXIS	9.84"	7.87"	9.84"	550 LBS			11.0"	25.5"	15.5"		
E003	MITSU SINKER	11.8"	9.8"	9.8"	1210 LBS			9"	24.8"	16.5"		
E008	MITSU EA 12S	15.7"	11.8"	11.8"	1543 LBS			16"	31.5"	21.6"		
ELECTRICAL DISCHARGE MACHINE (EDM) WIRE												
ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	WEIGHT LIMIT		WIRE ANGLE	MAX WORK HEIGHT	MAX WORK LENGTH	MAX WORK WIDTH		
E004	FANUC 1B 1	17.7"	11.8"	11.81"	992 LBS		30°	10.0"	29.5"	25.0"		
E005	FANUC 1B 2	17.7"	11.8"	11.81"	992 LBS		30°	10.0"	29.5"	25.0"		
E006	FANUC 1C 3	20.6"	14.5"	11.81"	992 LBS		30°	11.81"	31.1"	28.7"		
E007	FANUC C600	23.6"	15.75"	12.00"	2204 LBS		45°	11.81"	41.3"	32.28"		
E009	FANUC C400iC	20.6"	14.5"	11.81"	992 LBS		30°	11.81"	31.1"	28.7"		
ENGRAVING												
ID#	NAME	CAPACITY	TYPE									
EGR1	TECHNOMARK	MOBILE	DOT MATRIX									
EGR2	KEYENCE	4.7" x 4.7" X 12"	LASER									
GRINDERS												
ID#	NAME	X TRAVEL	Y TRAVEL		WEIGHT LIMIT	MAX DIA	MIN DIA					
GR01	24" SURFACE	24"	12"		680 LBS	N/A	N/A					AUTO FEED
GR02	CENTERLESS	N/A	N/A		N/A	4.5"	.125"					
HONE	SUNNEN	N/A	N/A		N/A	10"	1-3/4"					
GR03	32" SURFACE	32"	16"		1500 LBS	N/A	N/A					AUTO FEED
INSPECTION												
ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	WEIGHT LIMIT	PROBE				ACCURACY		OPTIONS
IN01	LK CMM EVO	40"	40"	32"	7500 LBS	RENISHAW PH10T M+				1.7μm		SP25M TACTILE SCANNING
IN02	WENZEL	47"	63"	31"	6600 LBS	RENISHAW PH10T M+SP25M TACTILE SCANNING MODULE				1.6μm		SP25M TACTILE SCANNING
IN03	IM 7000	7.8"	7.8"	3.5"	5 LBS	1" 6.6 MEGA PIXEL MONOCHROME CMOS				2μm		
IN04	FARO ARM	APPROX 60" CUBED			N/A	FARO CONTACT PROBE / FARO BLUE LIGHT LASER				.001"		
IN05	FARO ARM	APPROX 60" CUBED			N/A	FARO CONTACT PROBE / FARO BLUE LIGHT LASER				.001"		
IN06	LK CMM ALTERA	59.05"	39.37"	39.37"	7035 LBS	RENISHAW PH10+				1.5μm		SP25M TACTILE SCANNING
IN07	LK CMM ALTERA	40"	40"	32"	7500 LBS	RENISHAW PH10+				1.5μm		SP25M TACTILE SCANNING
	Mitutoyo LH-600E			38"	N/A	HEIGHT GAGE WITH AIR ASSIST - MULTI PROBE KIT				4μm		PRINTER OUTPUT
MANUAL LATHE												
ID#	NAME	X TRAVEL		Z TRAVEL		MAX LENGTH	THRU PUT	SPINDLE RPM			ORIENTATION	
LA01	KINGSTON	13"		48"		48"	1.5"	3000			HORIZONTAL	

MANUAL MILL												
ID#	NAME	X TRAVEL	Y TRAVEL	Z TRAVEL	WEIGHT LIMIT			SPINDLE RPM		COOLANT	ORIENTATION	
CN09	KONDIA	30"	12"	24"	500lbs			3,000		MIST	VERTICAL	
CN10	PROTOTRAK	32"	16"	24"	500lbs			3000		MIST	VERTICAL	
SAWS												
ID#	NAME	MAX WIDTH	MAX HEIGHT	MAX DIA					AUTO FEED	COOLANT	ORIENTATION	
SAW1	HORIZONTAL	14.5""	15"	14.5"					X	X	HORIZONTAL	
SAW3	HORIZONTAL	14.5""	15"	14.5"					X	X	HORIZONTAL	
SAW2	VERTICAL	36"	15"	15"							VERTICAL	
WELDERS												
ID#	NAME	WELD TYPE			WELD PROCESS							
WE01	DYNASTY 350	TIG/STICK			GTAW/SMAW							
WE02	MAXSTAR	TIG/STICK			GTAW/SMAW							
WE04	XMT 304	MIG/FLUX CORE			GMAW/FCAW							
WE07	DYNASTY 400	TIG/STICK			GTAW/SMAW							
WE08	DYNASTY 400	TIG/STICK			GTAW/SMAW							

500 Trampton Road
Sandston, VA 23150

For more information or to request a quote please call us
at (804) 326-6819 or visit our website KosmoMachine.com

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