

MAMMOTH5



COMMON MATERIALS



Wood



Composites



Aluminum



Plastics



Foam



When your projects demand size, strength, and precision, the DMS Mammoth delivers. This large-format CNC router combines industrial power with unmatched reliability, making it the go to solution for industries where “standard size” simply won’t cut it. From aerospace molds to marine patterns, automotive prototypes to massive composite structures, the Mammoth provides the scale and versatility to bring your biggest ideas to life. Its heavy-duty steel frame ensures stability, while precision motion control guarantees accuracy on every cut no matter the size of the project.

KEY BUYER BENEFITS

- Large Work Envelope – Configurable table sizes accommodate oversized materials and projects, including molds, composite structures, and marine/automotive components.
- Rigid Construction – Heavy-duty steel gantry and frame ensure stability and vibration resistance during high-speed machining.
- Precision Motion Control – Rack-and-pinion systems provide tight tolerance machining.
- Material Versatility – Optimized for composites, aluminum, plastics, foams, and wood.
- Automation Options – Compatible with robotics, tool changers, and lights-out operation.



TECHNICAL DATA

MIN - MAX AXES STROKES					TRANSMISSION TYPE	MOTOR ENCODERS	FEEDBACK ENCODERS	MACHINE ENVELOPE	MAX ACCURACY	TOOLCHANGER	
X	Y	Z	B	C						STANDARD OPTION(S)	
										TYPE	MAX TOT
5'20"	5'100"	1220 (48") 1830 (72")	(+/-) 115° / 130°	DMS: (+/-) 363° (OPT. CONTINUOUS) HITECO: (+/-) 320°	RACK & PINION	ALL ABSOLUTE *EXCEPTION = ROTARIES ARE INCREMENTAL W/ CONTINUOUS C OPTION	SCALES AVAILABLE AS OPTION	BRIDGE STROKE: 5', 10', 12', 15', 20" DEPTH: MULTIPLES OF: 5', 12', 22'	.002"-.005"	RACK CAROUSEL MANUAL	10/12/18

OPERATING UNITS AND SPINDLES

MAX POWER	MAX RPM	SPINDLES RANGE (MIN-MAX KW)	UNITS RANGE
20KW	24000	10-20KW	TILT K PLUS, TILT H PLUS, DMS STANDARD YOKE, DMS CAST YOKES

DYNAMIC PERFORMANCES

AVG. SPEED (AVERAGE 3 AXIS)	AVG. ACCELERATION
INCH/MIN	INCH/MIN ²
1333	60

CNC

HMI + NCs
FAGOR + FAGOR

DMS

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