

Freedom Forge

COMMON MATERIALS



Wood



Composites



Aluminum



Plastics



Foam



The Freedom Forge represents the next generation of DMS engineering, built upon the trusted Freedom platform and forged for greater strength, precision, and performance. With a reinforced base and the advanced Fagor Optima Drive System, the Freedom Forge provides exceptional rigidity, delivering smoother motion control and better cut quality even under demanding loads.

Designed for small to mid-size US manufacturers who demand more from their machines, the Freedom Forge embodies the spirit of American innovation and craftsmanship tougher, faster, and engineered to perform at the highest level.

KEY BUYER BENEFITS

1. **Unmatched Precision & Stability** – Reinforced frame and upgraded rails deliver tighter tolerances, superior cut quality, and repeatable accuracy.
2. **Built for Long-Term Performance** – Engineered for durability with extended service life and support for future retrofits and upgrades.
3. **Lower Total Cost of Ownership** – Reduced vibration, minimized wear, and standardized components decrease maintenance and service costs.
4. **Faster Service & Maximum Uptime** – Readily available spare parts and simplified layouts reduce downtime and speed up troubleshooting.
5. **Simplified Maintenance & Faster Delivery** – External routing and streamlined design improve accessibility, shorten lead times, and ensure competitive pricing.



TECHNICAL DATA

MIN - MAX AXES STROKES				TRANSMISSION TYPE	MOTOR ENCODERS	HMI + NCs	MACHINE ENVELOPE	MAX ACCURACY	REPEATABILITY	TOOLCHANGER		
										Max Capacity		
X	Y	Z	C									
48"	96"	12"	C-Axis Optional	Spinning Ball Nut & Recirculating Ball Screw	All absolute encoded Fagor servo motors	Fagor + Fagor	4'x8'	±0.003"	±0.001"	10	Rack-Man	

OPERATING UNITS AND SPINDLES

MAX POWER	MAX RPM	SPINDLES RANGE (MIN - MAX KW)	UNITS RANGE
8kw	24,000	4.5-8kw	MT200 MT201 PT300 PT402



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