COMPLEX LOW VOLUME MACHINING

MILITARY | AEROSPACE | DEFENSE

TECHNICAL WHITE PAPER

Precision Parts in Support of the Warfighter

Today's defense environment demands a stronger domestic industrial base and responsive manufacturing partners. PTI Tech is ready and willing to support Department of Defense needs with precision-machined, complex, low-volume components. Our U.S.-based machining, EDM, grinding and DFM expertise helps translate urgent program requirements into practical manufacturing plans.

25	11	5	9
MILLING MACHINES	LATHES	EDM SYSTEMS	GRINDERS

A Manufacturing Route for Demanding Geometry

Multi-Axis Milling	3-, 4- and 5-axis capability supports prismatic parts, angled features and multiple machined faces. Process planning considers tool access and datum relationships across setups.
Turning + EDM	Eleven 2- and 3-axis lathes support rotational features. Four wire EDM systems and one sinker EDM provide additional routes for conductive parts with intricate profiles, narrow features or internal detail.
Grinding + Marking	Surface and water grinding complement milling and turning where flatness and finish matter. Two marking systems support part identification requirements.

DUNS 173788126
CAGE 0BLR5
UEI J9W3BFJW3HM1
SIC 3089060

Certifications

AS9100
ISO9001
ITAR
CMMC Level 2

NAICS Codes

326199
332999
332117

OTA Participation

NAC (DOTC)
NEST
CORNERSTONE
AMTC
MSTIC & NSTIC
SBIR / STTR

Responsive Engineering for Evolving Defense Needs

PTI Tech works directly with customers to review geometry, tolerance priorities, workholding and feature access before production. For development hardware, design changes and low-volume sustainment needs, this collaboration helps resolve manufacturing challenges early. In-house tooling and complementary molding expertise provide additional options as program requirements evolve.

OUR COMMITMENT: Engage early, evaluate requirements promptly and work with customers to deliver precision parts that support readiness. Bring us complex housings, brackets, mounts, precision interfaces and tooling, along with your drawing, material, quantity, quality and delivery requirements.

Ready to support the mission with precision parts.

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100% MADE IN USA

Equipment: PTI Tech Equipment Capabilities, Nov. 2026. Capabilities subject to application review.
Context: 2026 Economic Report of the President, Ch. 8, Strengthening the U.S. Defense Industrial Base.