



PRECISION
MACHINING
POWER & ENERGY

Unrivaled Expertise. Unparalleled Results.



Extreme Materials for Severe Environments

Plastic Machining for Reliability and Efficiency

We're not your conventional machine shop.

AIP has machined high performance polymers into complex custom parts for the energy sector for well over 35 years. Our material knowledge coupled with proprietary in house processing skill gives AIP the ability to deliver the perfect custom critical components our customers demand.

AIP's process ensures all products are manufactured from superior materials and specific to their particular application. You can trust AIP as a manufacturing partner to provide polymer components that elevate your infield performance.



Material Expertise

AIP has experience working with over 100+ plastics & composites.



Quick Turnaround

We offer complex prototypes machined with precision in as little as 10 business days.



Quality Assurance

Precision is ensured with reliable and accurate inspection reports from concept to completion.

35+ Years Experience in Choosing the Right Material for Your Power & Energy Applications

AIP's extensive material library and expertise includes precision machining for:

POLYMERS	FLEXURAL STRENGTH (PSI)	FLEXURAL MODULUS (PSI)	TENSILE STRENGTH (PSI)
NYLATRON GSM®	16,000	500,000	10,500
30% GF ULTEM®	30,000	900,000	24,500
CIP GRADE 202 B®	–	280,000	11,000
PEEK 450G®	25,000	600,000	16,000
TORLON 4203®	24,000	600,000	24,000
60% CARBON FIBER FILLED PEEK OR PEKK	129,630	7,453,000	90,793



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NYLATRON is a registered trademark of Quadrant Engineering Polymers
TORLON is a registered trademark of Solvay Polymers
ULTEM is a registered trademark of Sabic Polymers
CIP 121/303B is a registered trademark of Columbia Industrial Products
PEEK 450G/450GL30 is a registered trademark of Victrex Polymers

724 Fentress Boulevard
Daytona Beach, Florida 32114
Phone: 386.274.5335
AIPrecision.com
AIP.Sales@AIPrecision.com