

From blueprint
to finished part...
Hygrade does it all!



Single Source
Precision Machining,
Grinding and Lapping
Specialists

CNC MACHINING

DOUBLE-DISC GRINDING

ID / OD GRINDING

FLAT GRINDING

BLANCHARD GRINDING

FLAT LAPPING

SURFACE TEMPER ETCH

AS9100
ISO900 1: 2000 CERTIFIED
NADCAP APPROVED-FOR CHEMICAL PROCESSING



**Hygrade Precision
Technologies, Inc.**
329 Cooke Street
Plainville, CT 060062
(800) 457-1666
Fax (860) 747-3179

www.hygrade.com



MACHINING, GRINDING, LAPPING SPECIALISTS SINCE 1962

FLAT GRINDING

HYGRADE is the largest and most experienced flat grinding resource in the Northeast.

Double-Disc Grinders

Simultaneously grind both sides of your part to precise dimensions for thickness, flatness, parallelism and microfinish. Thin parts are a natural application for double-disc grinding.

Paddle Grinder

Our double-sided, high-tech production grinding machines have capacity for parts as small as .5" and as large as 12.5". The cornerstone of this department is a twin-spindle horizontal paddle grinder with in-process gauging. Rapid stock removal rates on the toughest materials are routine.

Blanchard Grinders to 60"

Our large-diameter flatness capability is tooled to grind various magnetic and non-magnetic materials such as aluminum and exotic stainless steels.



FLAT LAPPING

Whether your parts need sized to millionths, mirror finished or simply a smoother, flatter surface...count on **HYGRADE** to get the job done right!

Single-Sided Lapping to 14.5"

Helium light band tolerances of 11.6 millionths (.0000116) are routinely achieved on various materials, including solid carbide and chrome plate.

Double-Sided Lapping to 14"

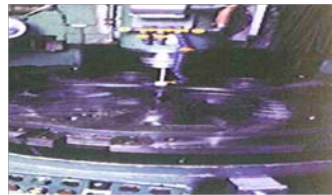
When both sides of a part can be processed simultaneously, our electronically controlled, double-sided lapping machines can achieve flatness, parallelism and microfinish much faster than single-face lapping systems.

HYGRADE combines state-of-the-art machinery and highly skilled craftsmen to give you superior products delivered on time at competitive prices.

PHONE: (800) 457-1666

FAX: (860) 747-3179

**SALES @HYGRADE.COM
WWW.HYGRADE.COM**



***SINGLE
SOURCE
PRECISION***

CYLINDRICAL GRINDING

Horizontal & Vertical Equipment

Grinds parts as small as .236" diameter or as large as 48.000" diameter (60.000" swing) to your exact requirements on the most difficult materials, including specialized coatings and chrome plate.

CNC Grinding

Precision grinding center features a 16" swing x 6" stroke and travel rates up to 800in/min with hydrostatic way repeatability and rigidity. Computer-controlled, high-frequency spindles and in-process dressing compensation allow seemingly impossible tolerances, including corner radii, to be held with ease.

HYGRADE is an approved source for the grinding of plasma coating for aerospace defense contractors.



CNC MULTI-AXIS MACHINING

Whether you require precision machines parts or aerospace components, our full compliment of CNC equipment can service your needs. Two key components of our extensive CNC department are a 5-axis vertical machining center with 60" x 25" travel and 27" swing x 39" length enable full-service precision machining, complete to print.

HYGRADE has developed a manufacturing cell allowing One-Piece Flow for "Families of Parts" requiring a similar sequence of operations. This reduces lead-time, resulting in improved delivery.



SURFACE TEMPER ETCH

Certified for Nital-Etch chemical processing by NADCAP, Boeing & Sikorsky.