



# NIFTY BAR

GRINDING & CUTTING SOLUTIONS, INC.



## DOUBLE DISC GRINDING SERVICES



**Nifty Bar Grinding and Cutting Solutions, Inc. specializes in Double Disc grinding applications. Our array of Double Disc grinders includes oscillating feed, rotary feed, and thru-feed equipment suitable for a wide variety of high-precision applications.**



### Double Disc Technology

With Double Disc grinding technology, parts are passed between two counter-rotating grinding wheels one or more times. Double Disc grinding removes material from both sides of the part simultaneously, providing surfaces that are flat and parallel in just one operation. This technology can be used for economical production of one-of-a-kind parts through millions of parts per year.



### Dimensional Control

Double Disc ground parts can be precisely controlled for thickness while achieving superior surface finishes. Even difficult-to-grind materials such as inconel and titanium can be ground flat and parallel through Double Disc grinding where the parts are processed by flat wheel surfaces instead of wheel edges. Double Disc grinding can also be used to produce products with very thin cross sections while minimizing part stress.

### Diverse Applications

Double Disc ground materials and components are used for many diverse applications including:

- Blades and Knives
- Component Part Blanks
- Connecting Rods
- Cutters and Dies
- Extrusions
- Gages
- Gears and Gear Blanks
- Laminations
- Medical Devices
- Shims/Spacers/Washers
- Stampings
- Substrates
- Valve Plates

### Speed and Economy

For rotary feed and thru-feed applications, parts can often be completely processed at high speed in a single pass for quick turnaround and maximum economy.

Our oscillating feed equipment can be used for large parts and applications that require more material removal than is practical with rotary feed or thru-feed equipment.

### Material Expertise

We have experience Double Disc grinding all types of magnetic and nonmagnetic materials including:

- All Alloys of Stainless Steel including 17-4 and 15-5
- Aluminum and Cast Aluminum
- Brass
- Bronze
- Copper
- G10 Glass Epoxy
- Hastelloy
- Inconel
- Invar
- Plastics including Delrin
- Steel
- Titanium