

CAPABILITIES – 2015

CYLINDRICAL GRINDING

Cylindrical grinding (also called center-type grinding) is used to remove material from the cylindrical surfaces and shoulders of the workpiece. The workpiece is mounted and rotated by a workpiece holder, also known as a grinding dog or center drive. Cylindrical grinding machines may also include a swivel to allow for the forming of tapered surfaces. The five types of cylindrical grinding are: outside diameter (OD) grinding, inside diameter (ID) grinding, plunge grinding, creep feed grinding, and centerless grinding.

Tolerances for cylindrical grinding are held within two ten-thousandths of an inch (± 0.0001) (metric: ± 2.5 μm) for diameter and one ten-thousandth of an inch (± 0.00005) (metric: 1.27 μm) for roundness.

We operate both manual and CNC cylindrical grinders for ID and OD work.

We will run jobs from single part or prototypes to quantities in the thousands. From very small parts to very large shafts.

MANUAL CYLINDRICAL GRINDING

O.D. on centers	22" max. O.D. x 105" long
I.D.	16" max. I.D.

CNC CYLINDRICAL GRINDER

Distance between centers	64.0 inches
Max grinding diameter	14.9 inches

