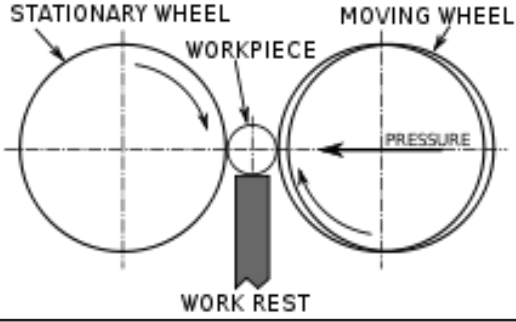


Abrasive Definitions

Term	Definition
Centerless Grinding	<p>A type of grinding in which abrasive cutting is used to remove material from a workpiece. Centerless grinding differs from centered grinding operations in that the workpiece is secured between two rotary grinding wheels.</p> 
Center-Type Cylindrical Grinding	Cylindrical grinding in which each end of the workpiece is mounted on a pointed bar, or center.
Chuck	Piece of equipment that holds a workpiece in place.
Collet	Holding device that forms a collar around the object to be held and exerts a strong clamping force on object once tightened.
Concentricity	Quality of having the same center/common center.
Creep Feed Grinding (CFG)	CFG is used for high rates of material removal, depths of cut are used along with low work piece speed.
Cutoff	Separating a workpiece into two or more parts.
Cylindrical Grinding (center-type grinding)	Used to grind cylindrical surfaces and shoulders of a workpiece to make parts concentric. The abrasive wheel and workpiece are rotated by separate motors and at different speeds. Types of cylindrical grinding: outside diameter, inside diameter, plunge, creep feed, and centerless grinding.
Depth of cut	How far a grinding wheel plunges into the workpiece.
Formed grinding wheel	An abrasive wheel designed to be used to grind shapes or outlines into a workpiece.
Grade	Describes the hardness of the bond in an abrasive wheel.
Milling	Process using rotary cutters to remove material from a workpiece advancing in a direction at an angle with the axis of the tool.
Offhand Grinding (freehand grinding)	Grinding operations performed with hand-held tools. Typically held in the operators hand then placed against a grinding wheel in operation.
Regulating Wheel	In centerless grinding the regulating wheel (usually rough rubber-bond abrasive) is positioned to apply lateral pressure to the workpiece and pull it through the operation.
Snagging	Type of rough grinding that is used to take off excess material without concern for the surface finish.
Support Roll	Holds and positions the workpiece against the regulating wheel in internal centerless grinding.
Surface Grinding	Used to produce a smooth finish on flat surfaces by feeding workpiece under a rotating grinding wheel.
Through Feed	Movement of a workpiece through an operation.
Tolerance	Deviation from the desired dimension.
Work Rest Blade	Supports cylindrical parts during centerless grinding
Workholding Device	Any device used to secure a workpiece and hold it in place against the forces of machining.

