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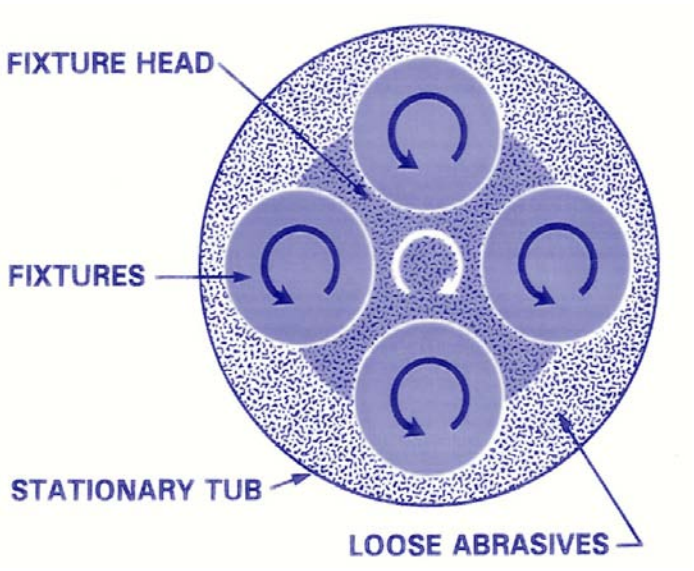
Spindle or Drag Finishing

Walther Trowal Drag Finishing Machines

The drag finishing systems developed by Trowal represents a special technology for surface finishing of high value, delicate components, parts with many contours and complex geometry and extremely hard materials which are difficult to machine. The applications for the Trowal drag finishing technology range from aggressive grinding to surface smoothing and high gloss polishing of decorative parts.

Examples: surgical implants, turbine blades, precision parts, i.e. pumps and compressors, parts made from hard metal, sintered parts, etc.



Drag finishing features a rotating head that moves several counter rotating vertical spindles on which the parts are attached and "dragged" through the loose abrasive or polishing compound in a planetary movement. The process provides up to 30%-40% faster grinding or polishing performance than vibratory equipment. The parts are individually attached to the fixtures which eliminates part on part impingement.

Drag finishing is designed to produce a variety of surface finishes on all types of ferrous and non-ferrous parts ranging from a satin finish to a comparable buff finish using specially designed dry compounds. Two machines can be used together with a transfer of fixtures from one machine containing a cutting abrasive to the another with a polishing compound. The number of parts per fixture depends on the size and shape of the parts as well as the size of the equipment.

Drag finishing is precision finishing in which complex shaped parts with many irregular surfaces and angles are difficult or impossible to finish with hand buffers or polishers or other automatic equipment. Since this operation is a mechanical process, drag finishing produces a consistent finish every cycle with infinite repeatability.

Drag Finished Part