



DOUBLE-SIDE LAPPING PELLET TOOLS

Why Change to Diamond Impregnated Pellets?

Traditional loose diamond abrasive lapping requires high pressures, and therefore has very limited application to double-side processing of thin, fragile materials. Excessive double-side lapping pressures result in poor flatness and parallelism, and typically lead to crashes due to strength limitations of thin carriers (workholder) and parts. The P.R.Hoffman diamond composite pellet tools are engineered to work with a lapping coolant at pressures more suitable for double-sided lapping processes. The P.R.Hoffman pellet tool processes result in rapid removal rates, while maintaining superior flatness, parallelism, subsurface damage, and high yield.

BENEFITS OF P.R.HOFFMAN PELLET TOOL TECHNOLOGY

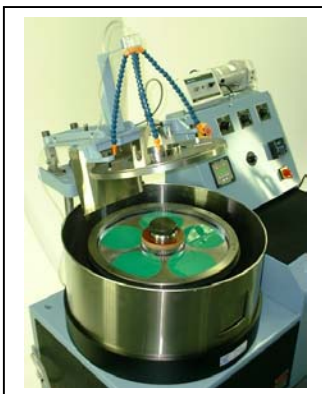
- 1. Dramatic reductions of machining time:**
 - a. Process runs faster (more parts per machine hour).
 - b. Fewer machines are required, utilizing less floor space.
 - c. No time loss mixing conventional abrasives.
 - d. Lower part cleaning time over conventional abrasives.
- 2. Higher yields:**
 - a. Lower lapping pressures result in less part breakage.
 - b. Improved surface finish resulting in less sub-surface damage.
 - c. Higher yields allows increased machine and operator utilization.
- 3. Lower abrasive costs:**
 - a. With long pellet life and reduced waste, pellets are less expensive than loose abrasives.
 - b. Diamond pellet coolant is re-circulated, reducing waste over conventional abrasives.
 - c. Diamond pellet coolants are environmentally friendly.



PR-1 85 Tooth Diamond Pellet Lap Plate



Servo RS™ 3100



PR-1 Series

LAPPING PLATES - New and Retrofit

P.R.Hoffman is a leading supplier of high-quality lapping machinery and replacement lapping plates for many brands and models of double-side lapping machines. Therefore, whether you wish to lap sapphire on a Speedfam or fused silica on a Fujikoshi, P.R.Hoffman has an engineered plate and pellet solution for you, **at an affordable price**.

Our diamond composite pellet tools are suitable for many materials. Our engineers are available to discuss your lapping requirements.

Please call today to discuss how we may propose a pellet tool process for your parts.