

Industries Served

Aerospace Applications

HLC provides tools for precision I.D. and O.D. finishing for major commercial aircraft and defense industry part suppliers. Our extensive industry knowledge also supports the demanding requirements for overhaul and repair of components for helicopter and fixed wing aircraft. Our tools are in use worldwide by commercial airlines, military, OEMs, major MRO repair facilities and sub-contract vendors for lapping a number of high technology components. The following is a list of typical aircraft components which utilize our tools:

- Landing Gear
- Fuel Supply Controls
- Turbine Shafts
- Servo Controls
- Helicopter Rotor Components



Ultra Precision Machining

Applications requiring ultra-precise roundness, concentricity, and cylindricity are well suited for Helical Laps. Holding tolerances on diameter size and cylindricity to the sub-micron level is routinely achieved. Tools can be made as small as .043 up to 6 inches in diameter and as long as 14 inches. Tools can be used for a wide range of materials including nonmetallic, non-ferrous, and ceramics. We can help you choose the right products and provide guidance on the best techniques for your application.

Hydraulic Components

Our tools can generate dimensional stability and precise bore geometry meeting the requirements needed for exceptional accuracy and control in the most demanding servo control systems. We provide the tools that enable our customers to meet the stringent requirements for tight tolerance and matched set componentry.



Diesel Remanufacturing

Helical Laps are designed to increase the efficiency of your lapping process combined with process repeatability and quality. We can provide a cost effective solution to help you stay competitive when alternative machining methods are too expensive or incapable of achieving the required tolerances.