

TOLL PRESSING

GENERAL CHARACTERISTICS

Boron Products, LLC owns and operates two of the largest vacuum hot presses in America. These presses are designed to press powdered ceramic materials into highly dense shapes. The presses are capable of extremely high temperatures and pressures while maintaining the protection of a vacuum or inert gas atmosphere.

Boron Products' toll pressing services utilize customer owned or provided starting material to achieve final shapes and product characteristics. At these extreme conditions, only simple shapes such as blocks, cubes, plates, and cylinders are possible. Boron Products has experience pressing boron carbide, boron nitride, silicon carbide, titanium and zirconium diborides, aluminum nitride and several customer proprietary materials. The capabilities of these presses are:

<u>Characteristic</u>	<u>Value</u>
Pressing force	400 tons and 700 tons
Temperatures	To 2200 °C
Vacuum	To 40 microns
Die size	34" diameter, 60" tall
Typical die material	Carbon / graphite

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