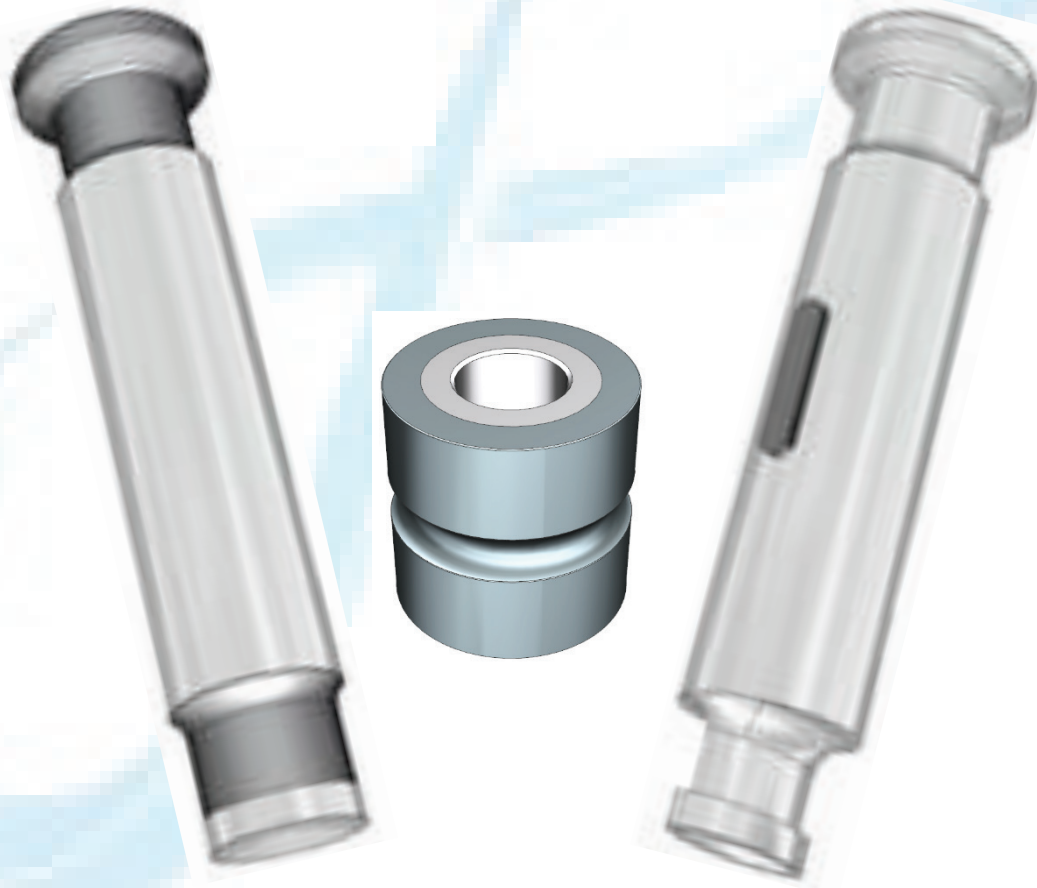


INTRODUCING

**CEREEL**

Ceramic Technology





**INNEX** is a world leader in designing, developing and manufacturing Technical Ceramic materials and Customized Steel Components for some of the World’s largest tablet producers across vast industries.

**With** over 30 years of experience, INNEX has revolutionized the use of ceramic technology for longer lasting tooling components and a more efficient tooling process.

**CEREEL** is a brand name of our new patented technical Ceramic material that has been developed in collaboration with Alfred University.

**It** combines the perfect combination of extreme Metal Detection, Toughness and Hardness that will revolutionize the Pharmaceutical, Food, and Beverage markets. Performance under extreme pressures, temperatures, and in abrasive environments.

**With** this new CEREEL technology, we are proud to introduce our new product line of tableting tools that are commercialized to compete with stainless steel, tool steel and hybrid that combine a combination of increased fracture toughness and wear life.

**Services**

Ceramic wear solutions

New material/technology development

Product /process design development

Rapid prototyping

Testing for Hardness, Density, Fracture Toughness, Abrasion, Surface Finish and Metal Detection

CAD/CAM Unigraphics, NX8.5, SmartCam, Mazacam

5 Axis CNC fabrication

3D solid modeling using Unigraphics (UGNX8.5)

**Discover your cost-savings at INNEX**

Our staff ceramic experts will work with you to design a CEREEL system specifically to reduce costs for your application



**INNEX** engineers innovation into our Tooling designs that allow customers the ability to utilize our Solid ONE piece OR THREE piece design. The design makes it easy to replace the worn off Tip or Head and still re-use the barrel by simply sending it back to INNEX to be refurbished or purchasing just the spare tip or head and changing it in house.

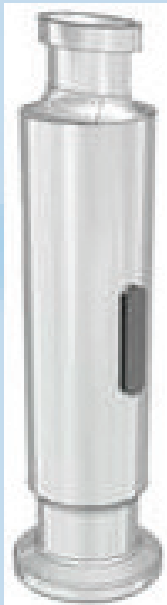
**COMBINING**, our unique rework cycle and patented ceramic technology increases tool wear life four to five times and leads to significant cost savings when compared to continually purchasing disposable replacement parts.

**Our strong infrastructure** of technicians, material scientists, and engineers enables Powder-To-Precision Machining- To-Finished Parts capabilities. We are committed to superior customer service, and rapid prototyping which positions us to be your Total Solutions Provider.

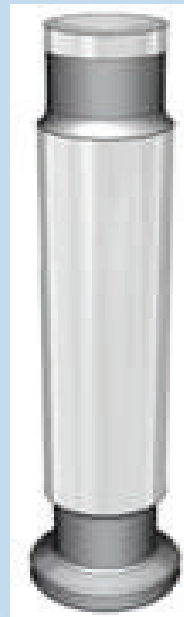
**Benefits** 4-5 X wear life of Steel

- 2 X the Metal Detection of Steel
- Ability to Recycle 80% of part
- Drastically reduces powder sticking
- 24-7 Operation, eliminating costly maintenance and shut down
- Reduces the risk of Metal Toxicity
- Anti-Pitting/ Corrosive
- Reduced Lubrication
- Replaceable components
- Slows the growth from Bacteria
- Costs less than Steel parts
- Green

**ONE Piece Design**



**THREE Piece Design**





Designed for maximum **Durability** and **Toughness**

## Material Comparison

### We're growing and expanding applications for ceramic technology

**INNEX** utilizes the latest, technology and production techniques in the ceramics industry to ensure our clients the quality that they have come to expect.

- ✗ Patented compaction tool design
- ✗ World-class R&D infrastructure and engineering staff
- ✗ Complete tool room for building in house fixtures, tools, and gages.
- ✗ ISO 9001:2008 Quality Management System
- ✗ Lean Manufacturing and Automation Techniques
- ✗ 3D solid modeling and design for documentation assemblies (Unigraphics UGNX8.5)
- ✗ Iso-static Presses, Vacuum Furnace
- ✗ Green Machining Capabilities
- ✗ Testing Lab
- ✗ Machining, heat-treating, and finish grinding of tool steel with specialized coatings used in the production of compaction tooling.
- ✗ Well-equipped Temperature Controlled Inspection Room
- ✗ Multiple operation production up to and including finishing and assembly of parts or units



## Wear Components include:

- ✗ Punches
- ✗ Dies
- ✗ Blades
- ✗ Plungers
- ✗ Screens



## Markets we can serve:

- ✗ Pharmaceutical
- ✗ Supplements
- ✗ Vitamins
- ✗ Herbal
- ✗ Confectionary

## Types of Materials Include but not limited to:

Patented Ceramics, Zirconia's, Alumina's  
CEREEL™

**INNEX INNOVATIVE INDUSTRIES** provides the perfect combination of materials and tooling.

## INNEX Innovative Industries

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[www.innexind.com](http://www.innexind.com)

