Why Preforms?

If you want to produce a rotary cutting tool, you reduce your grinding drastically when using a preformed blank:

Are you making this?

Why start with this...

...when you can start with this?

Save time and money, increase your throughput and profit by starting with a custom preform.
Toolmaker Solutions by CERATIZIT offers blanks and semi-finished products for solid carbide and PCD tools, as well as tools with replaceable heads and tool shanks, according to your individual specifications.

Years of experience in the field of blank machining combined with state-of-the-art manufacturing facilities make it possible for us to produce the most complex, near net shape geometries with short delivery times. With customer-specific preforms from CERATIZIT, you reduce grinding and EDM to a minimum.

CERATIZIT’s high quality carbide grades for preforms are ideal for even the most sophisticated executions, problematic jointing applications and critical forms.

**Advantages & Benefits**

**Custom blanks for:**
- Solid carbide drilling tools and milling cutters
- PCD tools
- Threading tools
- Reamers
- Countersinks
- Tool shanks
- Replaceable tool head systems

**Rely on CERATIZIT for:**
- Industry leading delivery times
- Consistent performance and quality
- Market competitive pricing
- World-class grades
- Highly knowledgeable staff for your support

**Made in the US**
- Up to 2" OD
- Up to 10" OAL
- OD Grinding
- Straight Flutes
- Helical Flutes < 30 Deg
- Lapped Centers
- PCD Pockets
- Axial Coolant Holes
- Radial Coolant Holes

**US Standard Grades:**
- CTS20Z
- CTS20D
- CTS12D
- CTS24Z
- CTS30D

**Made in Austria**
- Up to 11.8" OD
- Up to 19.5" OAL
- OD Grinding
- Straight Flutes
- Helical Flutes
- Lapped Centers
- PCD Pockets
- Axial Coolant Holes
- Radial Coolant Holes
- ID/OD Threading

**Austrian Standard Grades:**
- CTS20D
- CTS12D
- CTS15D
- CTS30D
- CTF25E

**Capabilities**

CERATIZIT offers custom preform solutions to meet your specific needs. The size, finish, and tolerance can all be tailored to your unique requirements here in our USA operation.

When your needs exceed the manufacturing envelope of our Michigan facility, our Austrian family can step in to meet your requirements as well.

**Grades**

We offer blanks and preforms in specially developed carbide grades that guarantee a stable and high quality tool due to their homogeneous microstructure. We will be happy to assist you in choosing the right grade according to your specific needs.

**Our Standard Grades for Preforms:**
- **CTS12D:** for machining aluminum alloys, fiber-reinforced plastics (carbon-fiber and glass-fiber reinforced), composite materials, graphite; particularly suitable for diamond coating.
- **CTS15D:** for machining grey cast iron, tempered cast iron, non-alloyed steel, non-ferrous metals and plastics.
- **CTS20D:** for the universal machining of alloyed and non-alloyed steels, titanium alloys and nickel-based alloys. Improved toughness ensures a reduced risk of ruptures on the cutting edges.
- **CTS30D:** with very high toughness for difficult machining conditions.
- **CTS20Z:** for rotating solid carbide tools. For machining stainless steels, acid and heat-resistant steels, chromium alloyed steels, nickel & cobalt alloyed steels, titanium alloys, non ferrous metals, plastics.
- **CTS24Z:** for improved machining of titanium alloys and stainless steels as well as increased drilling performance in alloy steels.
- **CTF25E:** for the production of PCD tools and tool shanks. The increased cobalt content and the coarser grain improve brazability while increasing fracture toughness.