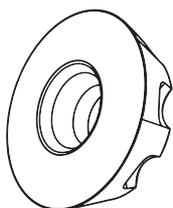


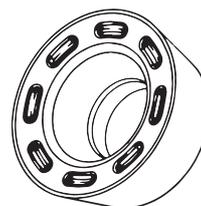


## 77 Family Geometries



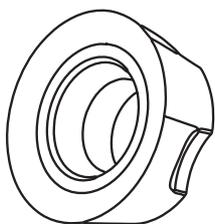
**-25**

This geometry is specifically designed for heavy roughing applications and is the first choice for Steels and Cast Iron.



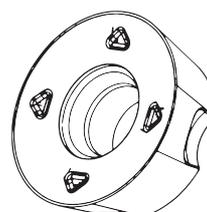
**-422**

This positive geometry features an 11° chip angle and an “E” edge preparation for roughing and semi finishing applications in difficult to machine materials.



**-41**

This general purpose utility geometry has a positive cutting action and reinforced cutting edge for medium roughing and semi-finishing applications.



**-442**

This NEW positive roughing and semi-finishing geometry features an 11° chip angle and an “E” edge preparation to minimize the pressure from chip formation.



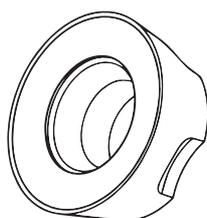
**-42**

This general purpose roughing and semi-finishing geometry features a positive rake and T-land to create a strong cutting edge designed to withstand high cutting forces and interrupted cuts.



**-701**

This precision ground extreme high positive geometry is especially suitable for finishing a wide range of materials at low feed rates and delivers excellent performance when machining thin-walled components.



**-421**

This high positive geometry features high accuracy periphery grinding for precise control of the cutting edge. For semi-finishing and finishing applications.

Tool	-25	-41	-42	-421	-422	-442	-701
7700VR08		●			●		●
7710VRD20	●		●				
7713VR10		●		●	●		●
7713VR12		●		●		●	●

### Material Guide – Key to Recommended Inserts

#### Material Designation

Unalloyed Steels  
 Alloyed Steels  
 Stainless Steels  
 PH Stainless  
 Cast Irons  
 Aluminum & Alloys  
 High Temp. Alloys  
 Hard Materials