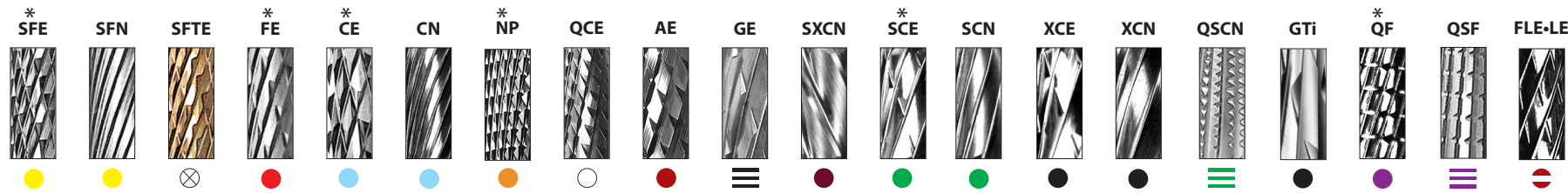
















# Application Chart • Tungsten Carbide Cutters

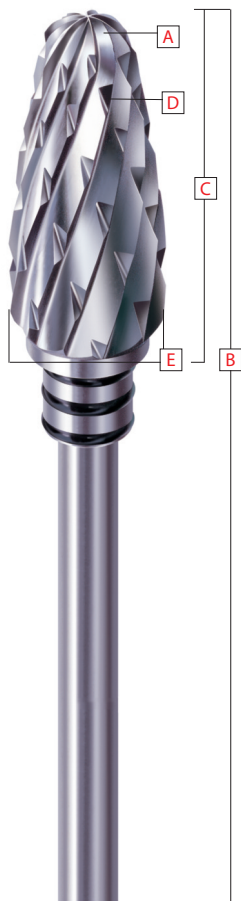


Materials		Application	
 <b>ceramics</b> metal ceramics / full ceramics	<div><div></div> SFE*</div> <div><div></div> SFN</div> <div><div>⊗</div> SFTE</div>	Used for finishing and smoothing surfaces, refining margins and fissures.	
 <b>precious and semi - precious alloys</b>  inlays, onlays, crowns, bridges, combination and telescope works	<div><div></div> SFE*</div> <div><div></div> SFN</div> <div><div>⊗</div> SFTE</div> <div><div></div> FE*</div> <div><div></div> QF*</div> <div><div>≡</div> QSF</div> <div><div>⬮</div> FLE</div> <div>L-Cut Special Cutters</div>	Used for finishing and smoothing surfaces and refining margins.	
  <b>non - precious alloys</b> crowns & bridges combination and telescope works	<div><div></div> SFE*</div> <div><div></div> SFN</div> <div><div></div> FE*</div> <div><div></div> NP*</div> <div><div>≡</div> QSF</div> <div><div></div> QF*</div> <div><div></div> CE*</div> <div><div>⬮</div> FLE</div> <div>L-Cut Special Cutters</div>	Used for finishing and smoothing surfaces, contouring occlusal areas and refining margins.	
  <b>TITANIUM</b> crowns, bridges	<div><div>≡</div> QSF</div> <div><div></div> QF*</div> <div><div></div> GTi</div>	Trimming, contouring, Fine adjustment.	
  <b>CrCo, CrNi, alloys for partial dentures</b>	<div><div></div> CE*</div> <div><div></div> FE*</div> <div><div></div> NP*</div> <div><div>⬮</div> LE•FLE</div>	Bulk trimming, contouring. Fine adjustment and smoothing of surfaces.  L-Cut Special Cutters	
  <b>CAD / CAM</b> <b>PEEK / PMMA</b>	<div><div>○</div> QCE</div>	Contouring.	

Materials		Application	
 <b>alloys for partial dentures</b> <b>Composite</b>	<div><div></div> SFE*</div> <div><div></div> SFN</div> <div><div></div> QF*</div> <div><div>≡</div> QSF</div>	For trimming and smoothing acrylic and metal surfaces, contouring occlusal areas and refining margins of PFM restorations.	
 <b>Denture acrylics and tray materials</b>	<div><div></div> AE</div> <div><div></div> FE*</div> <div><div></div> CE*</div> <div><div></div> CN</div> <div><div></div> SCE*</div> <div><div></div> SCN</div> <div><div></div> XCE</div> <div><div></div> XCN</div> <div><div>≡</div> QSCN</div> <div><div></div> QF*</div> <div><div>≡</div> QSF</div> <div><div>≡</div> GE</div> <div><div>⬮</div> LE•FLE</div> <div>L-Cut Special Cutters</div>	Removal of sprues. Rough trimming.	
 <b>Plaster</b> Model plasters/Stone	<div><div></div> CE*</div> <div><div>≡</div> GE</div> <div><div></div> SXC�</div> <div><div></div> SCE*</div> <div><div></div> SCN</div> <div><div></div> XCE</div> <div><div></div> XCN</div> <div><div>⬮</div> LE•FLE</div> <div>L-Cut Special Cutters</div>	Working on stone dies. Wet and dry plaster, bulk material reduction.	
 <b>Soft reline materials</b>	<div><div>≡</div> QSCN</div>	Trimming.	

Selected shapes from cuts marked with a "\*" are also available as *Millennium Cutters*.

# Application Chart • Tungsten Carbide Cutters

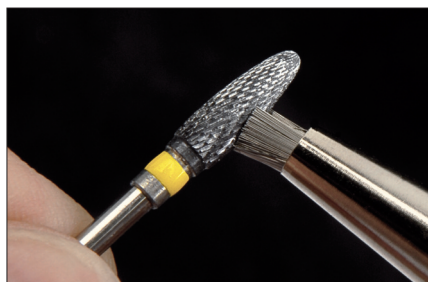


REF **HF251GE-060**












ISO **500 104 274 221 060**

- A** Material of the working part  
**500** = Tungsten Carbide
- B** Shank and Overall Length in mm  
**104** = Handpiece HP
- C** ISO Shape No.  
**274** = Round End Taper, Grenade long
- D** Type, Model  
**221** = Bulk Cross Cut
- E** Nominal Size of head diameter in 1/10 mm  
**060** = Size 6.0 mm

## Maintenance of TC Cutters







Clean steel and tungsten carbide instruments with wire brush P6820.

Graphic symbols	Cut	ISO	Cut
	<b>SFE*</b>	<b>110</b>	Superfine Cross Cut
	<b>SFN</b>	<b>102</b>	Superfine Plain Cut
	<b>SFTE</b>	<b>110</b>	Superfine Cut, titanium nitride coated
	<b>FE*</b>	<b>140</b>	Fine Cross Cut
	<b>CE*</b>	<b>190</b>	Standard Cross Cut
	<b>CN</b>	<b>175</b>	Standard Plain Cu
	<b>NP*</b>	<b>180</b>	Cut extrafine
	<b>QCE</b>	<b>145</b>	Cross Cut
	<b>AE</b>	<b>224</b>	Acrylic Cross Cut, transverse
	<b>GE</b>	<b>221</b>	Bulk Cross Cut
	<b>SXCN</b>	<b>225</b>	Safety Cut
	<b>SCE*</b>	<b>220</b>	Coarse Cross Cut/Special Acrylic Cutters
	<b>SCN</b>	<b>215</b>	Coarse Plain Cut
	<b>XCE</b>	<b>223</b>	Supercoarse Cross Cut

	<b>XCN</b>	<b>222</b>	Supercoarse Plain Cut
	<b>QSCN</b>	<b>176</b>	Coarse Straight Blade Cross Cut
	<b>GTi</b>	<b>194</b>	Special cutter for titanium, Cross Cut with Fewer Blades
	<b>QF*</b>	<b>134</b>	Spiral Fine Cut
	<b>QSF</b>	<b>137</b>	Spiral Superfine Cut
	<b>FLE, LE</b>	<b>140/240</b>	L - Cut Spezial Cutters

Selected shapes from cuts marked with a "\*" are also available as *Millennium Cutters*.

## Graphic symbols for dental instruments (EN ISO 21531)

-  Crown and bridge technique
-  Acrylic technique
-  Model casting technique
-  Model fabrication

## Recommended speeds for TC Cutters

The recommended speeds are based on the diameter of the instrument's working head, and enable optimum work results. For safety reasons, the maximum speeds must not be exceeded.

Tungsten Carbide Cutters / Millennium Cutter	ISO ø 1/10 mm	opt./rpm	max./rpm
	008 - 023	25.000	40.000
	025 - 045	20.000	30.000
	050 - 080	15.000	20.000
GTi Special cutter	016 - 040	15.000	20.000