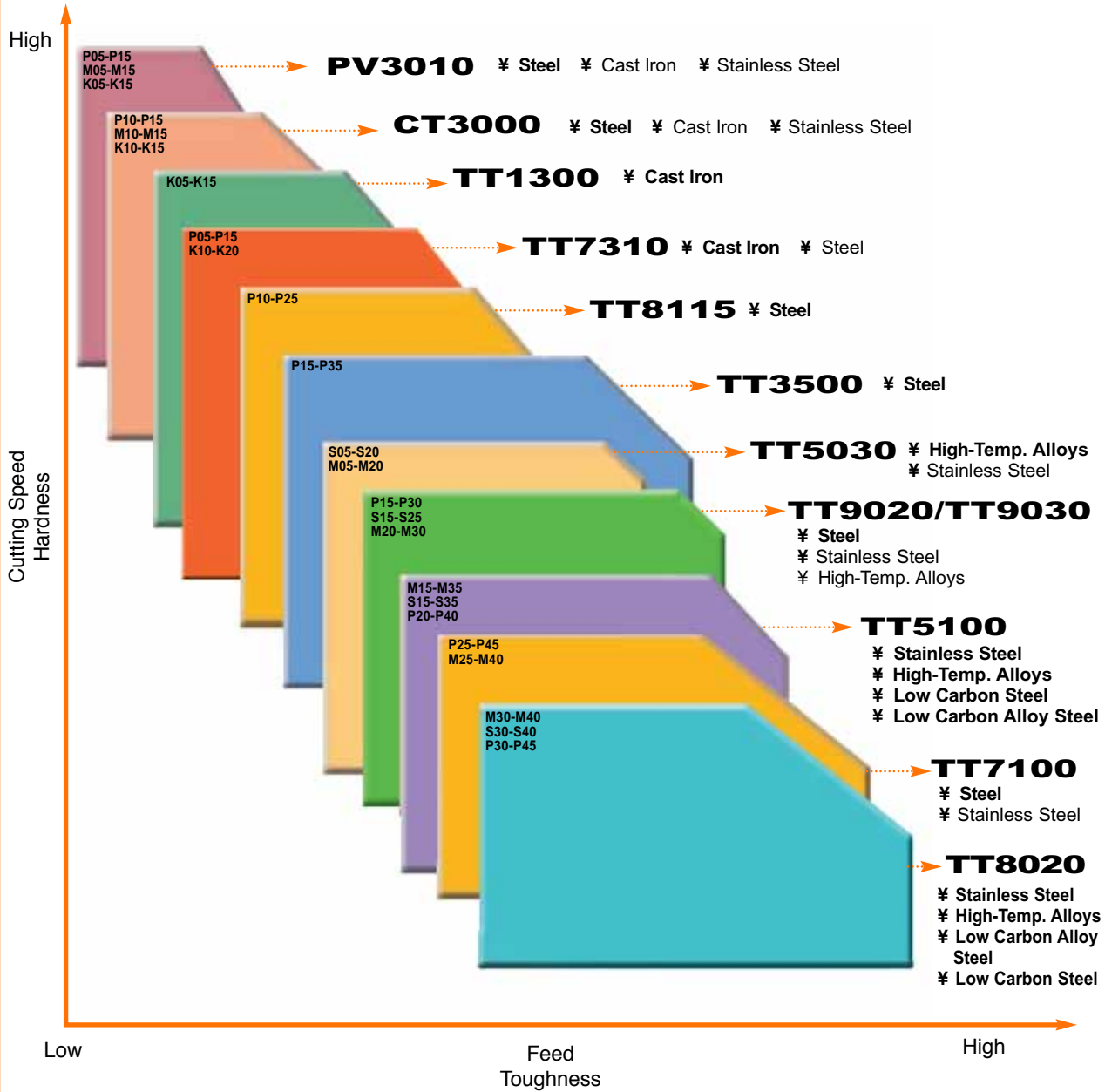


## Insert Grades



- **PV3010**: PVD coated cermet, **CT3000**: uncoated cermet
- **TT1300, TT3500, TT5100, TT7100, TT7310, TT8115**: CVD coated carbide
- **TT5030, TT8020, TT9020, TT9030**: PVD coated carbide

## USER GUIDE - GRADES

### Coated Carbide, Cermet and Carbide Grades

TaeguTurn Grades	ISO	Characteristics & Applications
<b>NEW</b> <b>T-CAST</b> <b>TT1300</b> CVD Coated	<b>K05</b> – <b>K15</b>	<ul style="list-style-type: none"> <li>• For high speed turning of cast iron.</li> <li>• Thick aluminum oxide coating on a high wear resistant substrate.</li> <li>• First choice for machining gray cast iron (Rough and Finish) at high speeds.</li> </ul>
<b>NEW</b> <b>T-CAST</b> <b>TT7310</b> CVD Coated	<b>K10</b> – <b>K20</b> <b>P05</b> – <b>P15</b>	<ul style="list-style-type: none"> <li>• First choice for ductile cast iron.</li> <li>• Also for gray cast iron and finishing steels.</li> <li>• Tougher substrate than TT1300 with thick, black coating and smooth edge.</li> </ul>
<b>NEW</b> <b>TT8115</b> CVD Coated Replaces TT1500 as stock is depleted	<b>P10</b> – <b>P25</b>	<ul style="list-style-type: none"> <li>• For high speed turning of steel.</li> <li>• High crater and flank wear resistance.</li> <li>• First choice for finish machining of steel</li> </ul>
<b>TT3500</b> CVD Coated	<b>P15</b> – <b>P35</b>	<ul style="list-style-type: none"> <li>• Steel turning application.</li> <li>• Very good combination of wear resistance and toughness.</li> <li>• For finish to medium turning of steel.</li> </ul>
<b>TT5030</b> PVD Coated	<b>S05</b> – <b>S20</b> <b>M05</b> – <b>M20</b>	<ul style="list-style-type: none"> <li>• For a wide range of turning of high-temp alloys.</li> <li>• Very hard submicron substrate with good fracture toughness.</li> </ul>
<b>TT5100</b> CVD Coated	<b>M15</b> – <b>M35</b> <b>S15</b> – <b>S35</b> <b>P20</b> – <b>P40</b>	<ul style="list-style-type: none"> <li>• For a wide range of turning sticky materials such as stainless steel and low carbon steel.</li> <li>• Excellent chipping resistance and sticking resistance.</li> <li>• For finish and medium machining on stainless steel and low carbon steel.</li> </ul>
<b>NEW</b> <b>TT9020</b> <b>TT9030</b> PVD Coated	<b>P15</b> – <b>P30</b> <b>S15</b> – <b>S25</b> <b>M20</b> – <b>M30</b>	<ul style="list-style-type: none"> <li>• For medium speed turning of stainless steel, exotic alloys and low carbon steel.</li> <li>• Good combination of toughness and wear resistance.</li> </ul>
<b>NEW</b> <b>TT7100</b> CVD Coated Replaces KT450 as it is phased out	<b>P25</b> – <b>P45</b> <b>M25</b> – <b>M40</b>	<ul style="list-style-type: none"> <li>• For heavy roughing and interrupted cutting of steel and stainless steel.</li> <li>• Very tough grade, excellent toughness and chipping resistance at low speeds.</li> </ul>
<b>TT8020</b> PVD Coated	<b>M30</b> – <b>M40</b> <b>S30</b> – <b>S40</b> <b>P30</b> – <b>P45</b>	<ul style="list-style-type: none"> <li>• For medium to low speed turning of stainless steel, exotic alloys and low carbon steel.</li> <li>• Toughest grade in turning product line.</li> <li>• For interrupted cut on stainless steel and exotic alloys.</li> </ul>
<b>PV3010</b> PVD Coated Cermet	<b>P05</b> – <b>P15</b> <b>M05</b> – <b>M15</b> <b>K05</b> – <b>K15</b>	<ul style="list-style-type: none"> <li>• For high surface finish turning of steel, stainless steel and cast iron.</li> <li>• Excellent wear resistance and low coefficient of friction</li> <li>• Long tool life.</li> </ul>
<b>CT3000</b> Uncoated Cermet	<b>P10</b> – <b>P15</b> <b>M10</b> – <b>M15</b> <b>K10</b> – <b>K15</b>	<ul style="list-style-type: none"> <li>• Excellent surface finish turning on steel, stainless steel and cast iron.</li> <li>• Excellent wear resistance and low coefficient of friction</li> </ul>
<b>K10</b> Carbide	<b>K10</b> – <b>K20</b> <b>S10</b> – <b>S20</b> <b>N10</b> – <b>N20</b>	<ul style="list-style-type: none"> <li>• General turning of cast iron, exotic alloy and non-ferrous materials including aluminum and copper alloy.</li> <li>• Excellent wear resistant grade.</li> </ul>