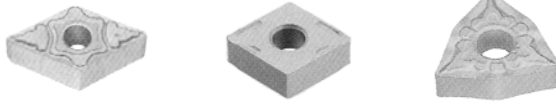


# TUNGALOY INSERTS

## TUNGALOY INSERT GRADES



**Featuring AH120-The Super Grade!**  
Special PVD TiAlN coated carbide combined with super tough substrate. Ideal for general turning of steels, stainless and super alloys!



### CERMET GRADES

Cermet	Properties	Application
<b>NS530</b>	Has high wear resistant and excellent thermal and mechanical shock resistance. Performs well in wet cutting	General purpose grade covering a wide range of cutting conditions from <b>low to high speeds for various steels</b>
<b>AT530</b>	TiAlN coated cermet. Provides superior resistance to flank wear and adhesive wear	Suitable for <b>high speed turning of steels and stainless steels</b> requiring better surface roughness and longer tool life

### COATED CARBIDE GRADES

Coated Carbide	Properties	Application
<b>T9005</b>	Ti + AlOxide; DISK Technology substrate with advanced coating	<b>High speed cutting of steels and cast irons</b>
<b>T9015</b>	Ti + AlOxide; DISK Technology substrate with advanced coating	For <b>general purpose turning of steels and stainless steels</b>
<b>T9025</b>	Ti + AlOxide; DISK Technology substrate with advanced coating	For <b>general purpose turning of steels and stainless steels including interrupted and heavy cutting</b>
<b>T9035</b>	Ti + AlOxide; DISK Technology substrate with advanced coating	For <b>general purpose turning of steels and stainless steels including severely interrupted and heavy cutting of steels</b>
<b>T6020</b>	Ti + AlOxide; tough substrate with new advanced coating	For <b>general purpose turning of steels and stainless steels</b>
<b>T6030</b>	Ti + AlOxide; extra tough substrate with advanced coating	For <b>rough and heavy turning of stainless steels</b>
<b>T5020</b>	Ti + AlOxide; well balanced wear resistance and toughness	<b>Roughing and interrupted turning of cast irons</b>
<b>SH730</b>	Coated carbide with advanced coating- <b>NEW!</b>	Ideal for <b>stainless steels</b>
<b>AH110</b>	TiAlN coating; heat resistant coating and hard substrate allows excellent wear resistance	Turning of <b>super (high temp) alloys and Non ferrous metals</b>
<b>AH120</b>	TiAlN coating; heat resistant coating and extremely hard substrate allows highest wear resistance	Turning and Milling of <b>super (high temp) alloys, steels, stainless steels - great all purpose grade.</b>
<b>GH330</b>	TiCnO Coated carbide	General <b>milling and turning of steels</b>

### UNCOATED CARBIDE GRADES

Uncoated Carbide	Properties	Application
<b>KS05F</b>	Uncoated carbide with good overall wear resistance	Ideal for <b>Aluminum</b>
<b>TH10</b>	K10(C2) type uncoated carbide - good overall wear resistance	General turning of <b>Non Ferrous materials</b>
<b>H10T</b>	Used for positive (boring) inserts; K10(C2) type uncoated carbide - good overall wear resistance and toughness	General boring of <b>Non Ferrous materials</b>

## TUNGALOY INSERT CHIPBREAKERS



Chip Breakers	Descriptions
<b>TS</b>	For <b>Finishing</b> - landless sharp cutting edges and large rake angle; excellent all round chipbreaker for finishing <b>Steels</b>
<b>TM</b>	For <b>Medium cutting</b> - unique breaker geometry with sharp cutting edges and large rake angle assures free cutting action in a wide range of cutting conditions - excellent for medium cutting of <b>steels and super (high temp) alloys</b>
<b>TH</b>	For <b>Heavy cutting</b> Double sided 3 dimensional chipbreaker with a wide land and broad groove used for medium to heavy cutting including interrupted cuts and in poor conditions - excellent for heavy and interrupted cutting of <b>steels, stainless and super (high temp) alloys</b>
<b>SS</b>	For <b>finishing</b> - 3 dimensional chipbreaker with a large rake angle; very free cutting and most suitable for <b>stainless steels and mild steels</b>
<b>SM</b>	For <b>Medium cutting</b> - 3 dimensional chipbreaker offers low cutting forces over a wide range of cutting conditions - especially suited for medium cutting of <b>stainless steels and mild steels</b>
<b>SA</b>	For <b>finishing</b> - designed to reduce contact area between tool and chip, preventing the insert from raising temperature during cutting - designed especially for medium cutting of <b>stainless steels and super (high temp) alloys</b>
<b>P</b>	For <b>non ferrous metals</b> - very sharp cutting edges
<b>PM</b>	3 dimensional chipbreaker - has positive yet strong edge, provides good chip control for <b>medium to rough cutting.</b>
<b>PP</b>	For <b>general boring of Non Ferrous metals</b> - high positive rake and very sharp cutting edges - low cutting forces and no chatter
<b>PS</b>	For <b>finish to medium boring</b> on positive inserts - <b>steels, stainless steels</b>
<b>28</b>	For <b>general turning of Non ferrous metals</b> - high positive rake angle for low cutting forces and excellent shearing ability - <b>also effective for stainless steels and super (high temp) alloys</b>

**Call Us Today For All Of Your Machine Tool Needs!**