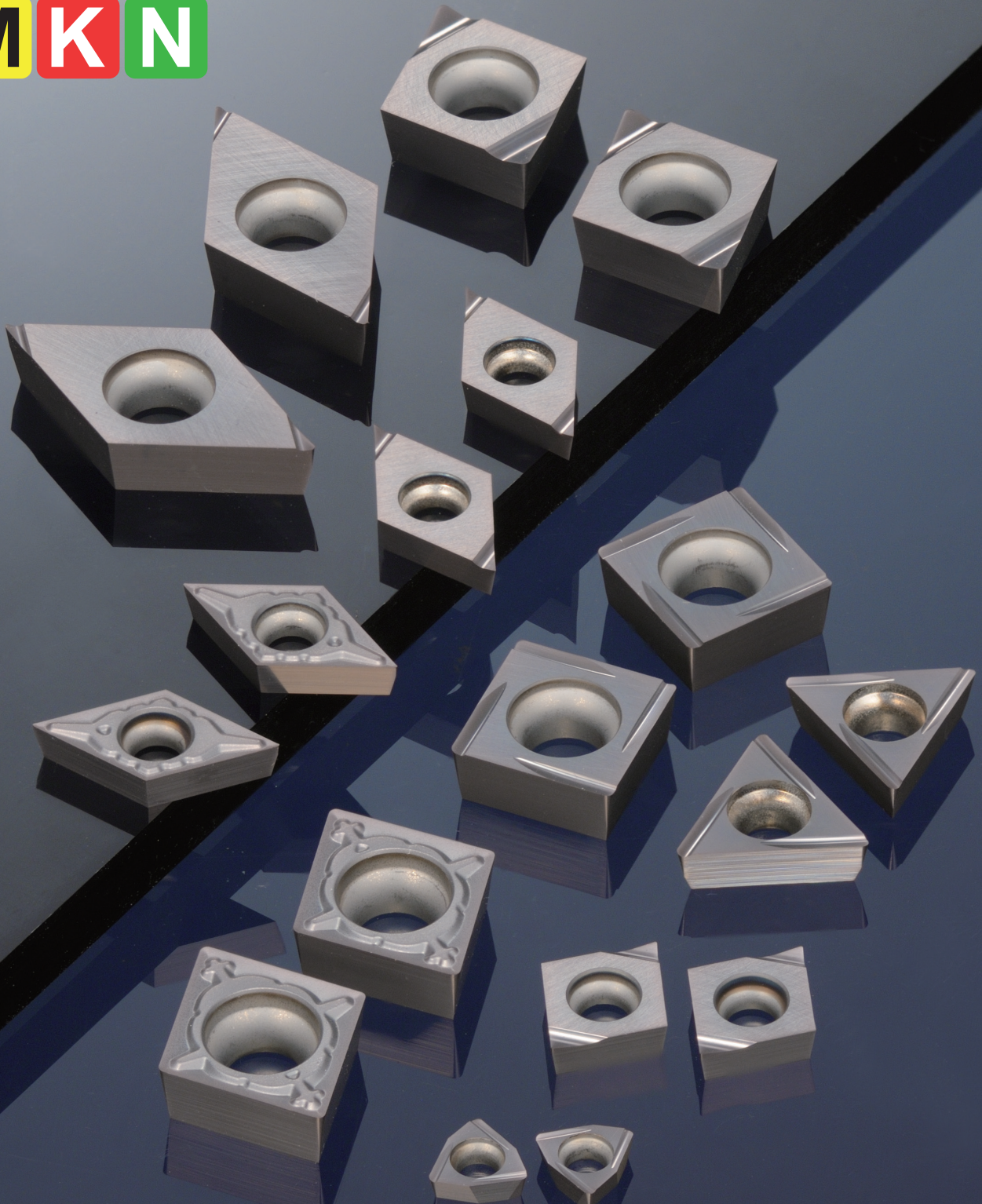


Grade for Small Parts Machining
AC1030U Series

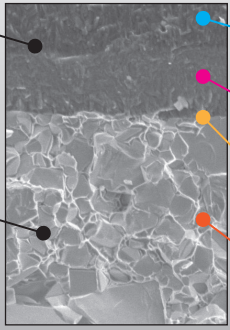
P M K N



New Grade for High Precision Machining

■ Features & Benefits

Superior Wear & Chipping Resistance



New Multi-layer Coating

New Carbide Substrate

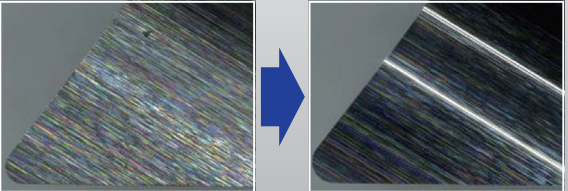
- Smooth Anti-chipping Layer**
Excellent surface finish
- High Hardness/Heat Resistance**
Better wear resistance
- High Adhesion Technology**
Superior peeling resistance
- Tough Carbide Substrate**
Improved chipping resistance

Edge Type	AC1030U	Conventional	Competitor
Pre Cut Edge			
Worn Edge			
	No Chipping!	Chipped Coating	Chipped Coating

Excellent Surface Finish!

High Quality Ground Insert
Greatly Improved Ground Edge Finish

Conventional **AC1030U**



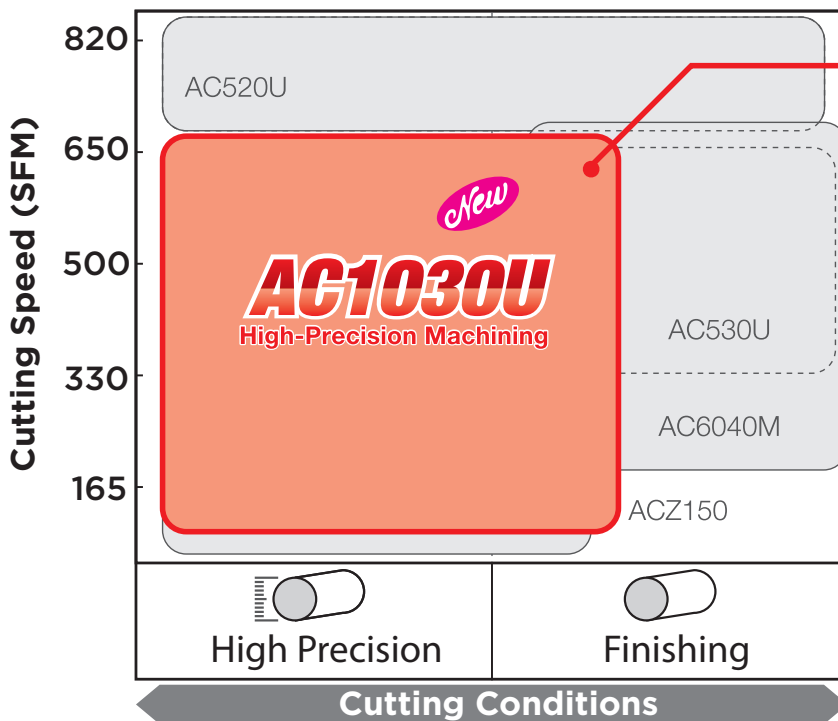
$R_z = 1.20 \mu m$ $R_z = 0.65 \mu m$

Controlled micro-chipping & adhesion for improved surface finish!

Surface Finish	AC1030U	Conventional	Competitor
	$R_z = 2.0 \mu m$	$R_z = 4.1 \mu m$	$R_z = 4.3 \mu m$
	No Tearing! Good Surface Roughness	Tearing	Tearing

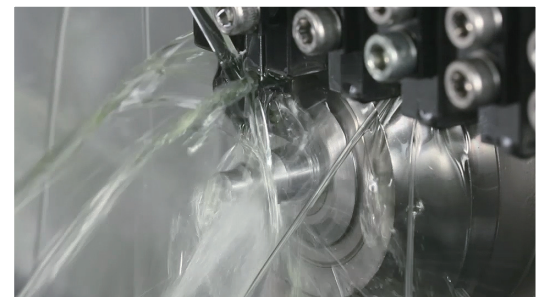
Work Material: 4137 Steel OD Finishing Insert: DCGT32.50.5RFY
Cutting Conditions: $V_c = 160$ SFM $f = 0.002$ IPR $a_p = 0.004"$, Wet

■ Application Range



AC1030U *New*

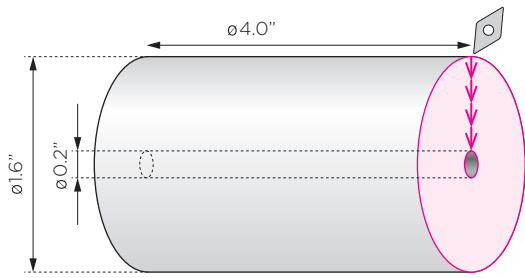
New PVD Coating "Absotech Bronze" and special substrate. High quality cutting edge yields excellent resistance against adhesion and micro-chipping, resulting in better surface finish.



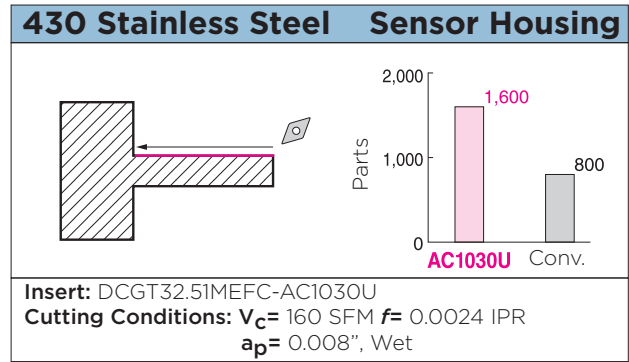
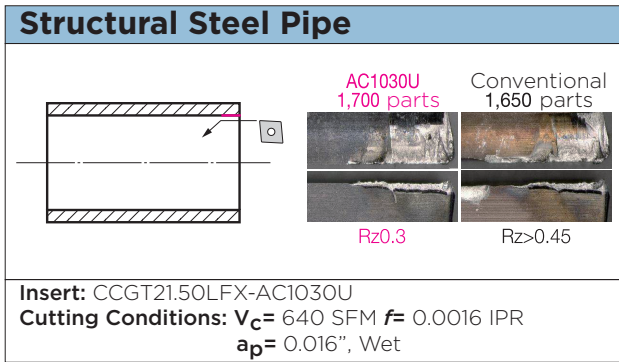
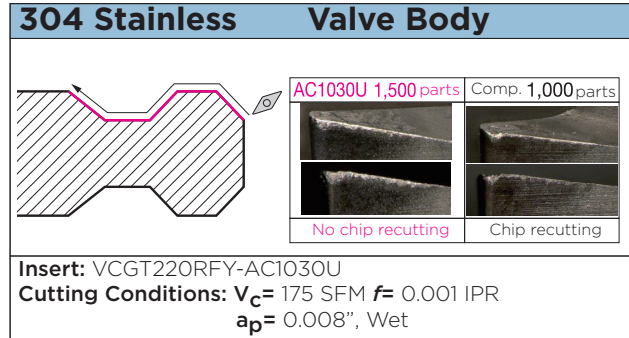
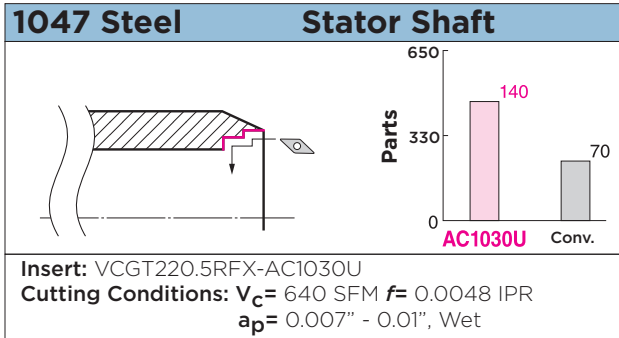
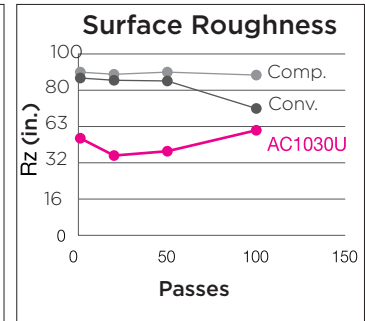
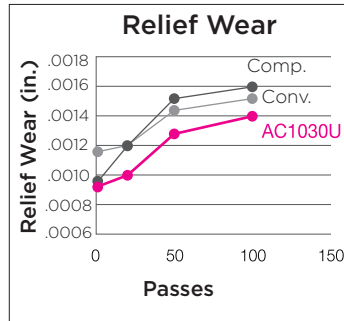
■ Recommended Cutting Conditions

Material	Soft Steel		Carbon Steel		Stainless Steel		Brass		Cast Iron		Exotic Material	
	V_c (SFM)	f (IPR)	V_c (SFM)	f (IPR)	V_c (SFM)	f (IPR)	V_c (SFM)	f (IPR)	V_c (SFM)	f (IPR)	V_c (SFM)	f (IPR)
AC1030U	160 - 650	.0008 - .006	160 - 650	.0008 - .004	160 - 500	.0008 - .004	230 - 980	.002 - .008	160 - 650	.0008 - .004	100 - 200	.0008 - .004

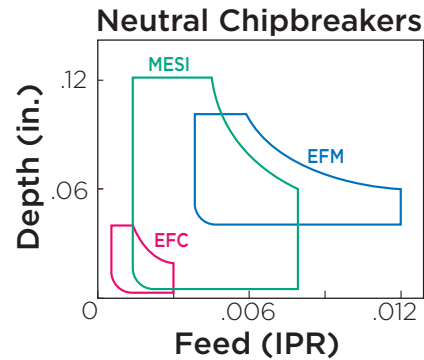
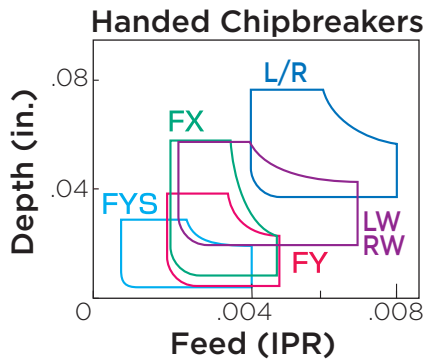
Application Examples



Work Material: 304 Stainless Insert: DCGT32.50.5RFY
 Cutting Conditions: $V_c = 330$ SFM $f = 0.002$ IPR
 $a_p = 0.004$ ", Wet

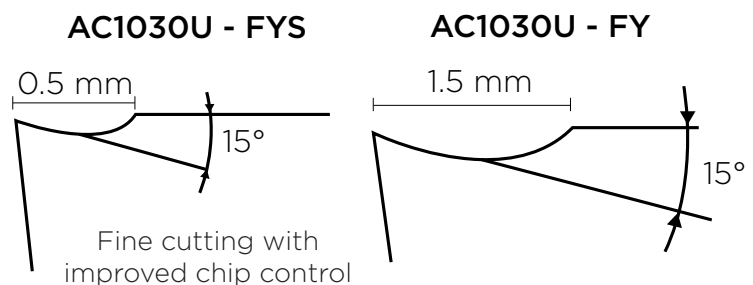


Chipbreaker Application Range



New FYS Chipbreaker

- Improved chip control and crater wear in soft material machining
- Less damage on cutting edge with AC1030U



AC1030U Availability

CCGT 80° Diamond/ 7° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
CCGT21.50MEFC	●	.250	.094	.0039	.110
CCGT21.50.5MEFC	●	.250	.094	.0078	.110
CCGT21.51MEFC	●	.250	.094	.0156	.110
CCGT32.5.001MEFC	●	.375	.156	.0012	.1732
CCGT32.50MEFC	●	.375	.156	.0039	.1732
CCGT32.50.5MEFC	●	.375	.156	.0078	.1732
CCGT32.51MEFC	●	.375	.156	.0156	.1732
CCGT32.50MESI	●	.375	.156	.0039	.1732
CCGT32.50.5MESI	★	.375	.156	.0078	.1732
CCGT32.51MESI	●	.375	.156	.0156	.1732
CCGT21.5.001EFM	●	.250	.094	.0012	.110
CCGT32.5.001EFM	●	.375	.156	.0012	.1732
CCGT21.50.5MEFM	●	.250	.094	.0078	.110
CCGT21.50.5MEFM	●	.250	.094	.0078	.110
CCGT32.50MEFM	●	.375	.156	.0039	.1732
CCGT32.50.5MEFM	●	.375	.156	.0078	.1732
CCGT03X1003L-FYS	★	.1378	.055	.0012	.071
CCGT03X1003R-FYS	★	.1378	.055	.0012	.071
CCGT03X101L-FYS	★	.1378	.055	.0039	.071
CCGT03X101R-FYS	★	.1378	.055	.0039	.071
CCGT03X102L-FYS	★	.1378	.055	.0078	.071
CCGT03X102R-FYS	★	.1378	.055	.0078	.071
CCGT03X104L-FYS	★	.1378	.055	.0156	.071
CCGT03X104R-FYS	★	.1378	.055	.0156	.071
CCGT04X1003L-FYS	★	.1693	.071	.0012	.087
CCGT04X1003R-FYS	★	.1693	.071	.0012	.087
CCGT04X101L-FYS	★	.1693	.071	.0039	.087
CCGT04X101R-FYS	★	.1693	.071	.0039	.087
CCGT04X102L-FYS	★	.1693	.071	.0078	.087
CCGT04X102R-FYS	★	.1693	.071	.0078	.087
CCGT04X104L-FYS	★	.1693	.071	.0156	.087
CCGT04X104R-FYS	★	.1693	.071	.0156	.087
CCGT03X101LFY	●	.1378	.055	.0039	.071
CCGT03X101RFY	★	.1378	.055	.0039	.071
CCGT03X102LFY	●	.1378	.055	.0078	.071
CCGT03X102RFY	★	.1378	.055	.0078	.071
CCGT03X104LFY	●	.1378	.055	.0156	.071
CCGT03X104RFY	★	.1378	.055	.0156	.071
CCGT04X101LFY	●	.1693	.071	.0039	.087
CCGT04X101RFY	★	.1693	.071	.0039	.087
CCGT04X102LFY	●	.1693	.071	.0078	.087
CCGT04X102RFY	★	.1693	.071	.0078	.087
CCGT04X104LFY	●	.1693	.071	.0156	.087
CCGT04X104RFY	★	.1693	.071	.0156	.087
CCGT21.5.001LFX	★	.250	.094	.0012	.110
CCGT21.5.001RFX	★	.250	.094	.0012	.110
CCGT21.50LFX	●	.250	.094	.0039	.110
CCGT21.50RFX	★	.250	.094	.0039	.110
CCGT21.50.5LFX	●	.250	.094	.0078	.110
CCGT21.50.5RFX	●	.250	.094	.0078	.110
CCGT21.51LFX	●	.250	.094	.0156	.110
CCGT21.51RFX	★	.250	.094	.0156	.110
CCGT32.5.001LFX	★	.375	.156	.0012	.1732
CCGT32.5.001RFX	★	.375	.156	.0012	.1732
CCGT32.50LFX	●	.375	.156	.0039	.1732
CCGT32.50RFX	●	.375	.156	.0039	.1732
CCGT32.50.5LFX	●	.375	.156	.0078	.1732
CCGT32.50.5RFX	●	.375	.156	.0078	.1732
CCGT32.51LFX	★	.375	.156	.0156	.1732
CCGT32.51RFX	★	.375	.156	.0156	.1732
CCGT32.52LFX	★	.375	.156	.0313	.1732
CCGT32.52RFX	★	.375	.156	.0313	.1732

● = USA Stocked item

★ = World Wide Warehouse Item

M = Negative nose radius tolerance (-0.0001" to -0.0004")

DCGT 55° Diamond/ 7° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
DCGT21.5.001MEFC	●	.250	.094	.0012	.110
DCGT21.50MEFC	●	.250	.094	.0039	.110
DCGT21.50.5MEFC	●	.250	.094	.0078	.110
DCGT21.51MEFC	★	.250	.094	.0156	.110
DCGT32.5.001MEFC	●	.375	.156	.0012	.1732
DCGT32.50MEFC	●	.375	.156	.0039	.1732
DCGT32.50.5MEFC	●	.375	.156	.0078	.1732
DCGT32.51MEFC	●	.375	.156	.0156	.1732
DCGT21.50MESI	●	.250	.094	.0039	.110
DCGT21.50.5MESI	●	.250	.094	.0078	.110
DCGT21.51MESI	●	.250	.094	.0156	.110
DCGT32.50MESI	●	.375	.156	.0039	.1732
DCGT32.50.5MESI	●	.375	.156	.0078	.1732
DCGT32.51MESI	●	.375	.156	.0156	.1732
DCGT32.52MESI	●	.375	.156	.0313	.1732
DCGT21.5.001EFM	●	.250	.094	.0012	.110
DCGT21.50MEFM	●	.250	.094	.0039	.110
DCGT21.50.5MEFM	●	.250	.094	.0078	.110
DCGT32.5.001EFM	●	.375	.156	.0012	.1732
DCGT32.50MEFM	●	.375	.156	.0039	.1732
DCGT32.50.5MEFM	●	.375	.156	.0078	.1732
DCGT32.51MEFM	●	.375	.156	.0156	.1732
DCGT32.52MEFM	●	.375	.156	.0313	.1732
DCGT21.5.001LFYS	★	.250	.094	.0012	.110
DCGT21.5.001RFYS	★	.250	.094	.0012	.110
DCGT21.50LFYS	★	.250	.094	.0039	.110
DCGT21.50RFYS	★	.250	.094	.0039	.110
DCGT21.50.5LFYS	★	.250	.094	.0078	.110
DCGT21.50.5RFYS	★	.250	.094	.0078	.110
DCGT21.51LFYS	★	.250	.094	.0156	.110
DCGT21.51RFYS	★	.250	.094	.0156	.110
DCGT32.5.001LFYS	★	.375	.156	.0012	.1732
DCGT32.5.001RFYS	★	.375	.156	.0012	.1732
DCGT32.50LFYS	★	.375	.156	.0039	.1732
DCGT32.50RFYS	★	.375	.156	.0039	.1732
DCGT32.50.5LFYS	★	.375	.156	.0078	.1732
DCGT32.50.5RFYS	★	.375	.156	.0078	.1732
DCGT32.51LFYS	★	.375	.156	.0156	.1732
DCGT32.51RFYS	★	.375	.156	.0156	.1732
DCGT21.5.001LFY	★	.250	.094	.0012	.110
DCGT21.50LFY	★	.250	.094	.0039	.110
DCGT21.50RFY	★	.250	.094	.0039	.110
DCGT21.50.5LFY	★	.250	.094	.0078	.110
DCGT21.50.5RFY	★	.250	.094	.0078	.110
DCGT21.51LFY	★	.250	.094	.0156	.110
DCGT21.51RFY	★	.250	.094	.0156	.110
DCGT32.5.001LFY	★	.375	.156	.0012	.1732
DCGT32.5.001RFY	★	.375	.156	.0012	.1732
DCGT32.50LFY	★	.375	.156	.0039	.1732
DCGT32.50RFY	★	.375	.156	.0039	.1732
DCGT32.50.5LFY	★	.375	.156	.0078	.1732
DCGT32.50.5RFY	★	.375	.156	.0078	.1732
DCGT32.51LFY	★	.375	.156	.0156	.1732
DCGT32.51RFY	★	.375	.156	.0156	.1732
DCGT21.5.001LFX	★	.250	.094	.0012	.110
DCGT21.5.001RFX	★	.250	.094	.0012	.110
DCGT21.50LFX	★	.250	.094	.0039	.110
DCGT21.50RFX	★	.250	.094	.0039	.110
DCGT21.50.5LFX	●	.250	.094	.0078	.110
DCGT21.50.5RFX	★	.250	.094	.0078	.110
DCGT21.51LFX	●	.250	.094	.0156	.110
DCGT21.51RFX	★	.250	.094	.0156	.110
DCGT32.5.001LFX	★	.375	.156	.0012	.1732
DCGT32.5.001RFX	★	.375	.156	.0012	.1732
DCGT32.50LFX	★	.375	.156	.0039	.1732
DCGT32.50RFX	★	.375	.156	.0039	.1732
DCGT32.50.5LFX	●	.375	.156	.0078	.1732
DCGT32.50.5RFX	●	.375	.156	.0078	.1732
DCGT32.51LFX	★	.375	.156	.0156	.1732
DCGT32.51RFX	★	.375	.156	.0156	.1732

SCGT 90° Square/ 7° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
SCGT2.51.50MEFM	●	.3125	.094	.0039	.134
SCGT2.51.50.5MEFM	●	.3125	.094	.0078	.134
SCGT32.50MEFM	★	.375	.156	.0039	.1732
SCGT32.50.5MEFM	●	.375	.156	.0078	.1732
SCGT32.50.5LFX	●	.375	.156	.0078	.1732
SCGT32.50.5RFX	●	.375	.156	.0078	.1732
SCGT32.51LFX	●	.375	.156	.0156	.1732
SCGT32.51RFX	●	.375	.156	.0156	.1732

TBGT Triangle/ 5° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
TBGT520.5L	★	.156	.0625	.0078	.090
TBGT520.5R	★	.156	.0625	.0078	.090
TBGT521L	★	.156	.0625	.0156	.090
TBGT521R	●	.156	.0625	.0156	.090
TBGT520LFY	●	.156	.0625	.0039	.090
TBGT520RFY	●	.156	.0625	.0039	.090
TBGT520.5LFY	★	.156	.0625	.0078	.090
TBGT520.5RFY	★	.156	.0625	.0078	.090
TBGT521LFY	★	.156	.0625	.0156	.090
TBGT521RFY	★	.156	.0625	.0156	.090
TBGT520.5LFX	★	.156	.0625	.0078	.090
TBGT520.5RFX	●	.156	.0625	.0078	.090
TBGT521LFX	●	.156	.0625	.0156	.090
TBGT521RFX	★	.156	.0625	.0156	.090

TCGT Triangle/ 7° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
TCGT630MEFM	●	.1875	.094	.0039	.090
TCGT630.5MEFM	●	.1875	.094	.0078	.090
TCGT1.81.50MEFM	★	.219	.094	.0039	.098
TCGT1.81.50.5MEFM	★	.219	.094	.0078	.098
TCGT21.50MEFM	●	.250	.094	.0039	.110
TCGT21.50.5MEFM	●	.250	.094	.0078	.110
TCGT21.51MESI	★	.250	.094	.0156	.110
TCGT1.81.50LFY	★	.219	.094	.0039	.098
TCGT1.81.50RFY	★	.219	.094	.0039	.098
TCGT1.81.50.5LFY	★	.219	.094	.0078	.098
TCGT1.81.50.5RFY	★	.219	.094	.0078	.098
TCGT21.50LFY	★	.250	.094	.0039	.110
TCGT21.50RFY	★	.250	.094	.0039	.110
TCGT21.50.5LFY	●	.250	.094	.0078	.110
TCGT21.50.5RFY	★	.250	.094	.0078	.110
TCGT1.81.50LFX	★	.219	.094	.0039	.098
TCGT1.81.50RFX	★	.219	.094	.0039	.098
TCGT1.81.50.5LFX	★	.219	.094	.0078	.098
TCGT1.81.50.5RFX	★	.219	.094	.0078	.098
TCGT21.50LFX	★	.250	.094	.0039	.110
TCGT21.50RFX	★	.250	.094	.0039	.110
TCGT21.50.5LFX	★	.250	.094	.0078	.110
TCGT21.50.5RFX	★	.250	.094	.0078	.110

BTR for SBT Type Holder (mm)

	AC1030U	Inscribed Circle	Thickness	L	r
BTR3505	●	6.8	3.8	3.5	.05
BTR3515	●	6.8	3.8	3.5	.15
BTR5505	★	6.8	3.8	5.5	.05
BTR5515	●	6.8	3.8	5.5	.15
BTR8005	★	6.8	3.8	8.0	.05
BTR8015	★	6.8	3.8	8.0	.15

See page 228 of 17-18 General Catalog for SBT holders

AC1030U Availability

TPGT Triangle/ 11° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
TPGT220.5MEFC	★	.250	.125	.0078	.130
TPGT221MEFC	●	.250	.125	.0156	.130
TPGT630.5L	●	.1875	.094	.0078	.090
TPGT630.5R	●	.1875	.094	.0078	.090
TPGT631L	●	.1875	.094	.0156	.090
TPGT631R	●	.1875	.094	.0156	.090
TPGT220.5L	●	.250	.125	.0078	.130
TPGT220.5R	●	.250	.125	.0078	.130
TPGT221L	★	.250	.125	.0156	.130
TPGT221R	●	.250	.125	.0156	.130
TPGT222L	●	.250	.125	.0313	.130
TPGT222R	●	.250	.125	.0313	.130
TPGT63.001LFY	●	.1875	.094	.0012	.090
TPGT63.001RFY	●	.1875	.094	.0012	.090
TPGT630LFY	●	.1875	.094	.0039	.090
TPGT630RFY	●	.1875	.094	.0039	.090
TPGT630.5LFY	★	.1875	.094	.0078	.090
TPGT630.5RFY	★	.1875	.094	.0078	.090
TPGT631LFY	★	.1875	.094	.0156	.090
TPGT631RFY	★	.1875	.094	.0156	.090
TPGT1.81.50LFY	★	.219	.094	.0039	.102
TPGT1.81.50RFY	★	.219	.094	.0039	.102
TPGT1.81.50.5LFY	★	.219	.094	.0078	.102
TPGT1.81.50.5RFY	★	.219	.094	.0078	.102
TPGT1.81.51LFY	★	.219	.094	.0156	.102
TPGT1.81.51RFY	★	.219	.094	.0156	.102
TPGT22.001LFY	★	.250	.125	.0012	.130
TPGT22.001RFY	★	.250	.125	.0012	.130
TPGT220LFY	★	.250	.125	.0039	.130
TPGT220RFY	★	.250	.125	.0039	.130
TPGT220.5LFY	★	.250	.125	.0078	.130
TPGT220.5RFY	●	.250	.125	.0078	.130
TPGT221LFY	★	.250	.125	.0156	.130
TPGT221RFY	●	.250	.125	.0156	.130
TPGT222LFY	●	.250	.125	.0313	.130
TPGT222RFY	●	.250	.125	.0313	.130
TPGT630.5LFX	★	.1875	.094	.0078	.090
TPGT630.5RFX	★	.1875	.094	.0078	.090
TPGT631LFX	★	.1875	.094	.0156	.090
TPGT631RFX	★	.1875	.094	.0156	.090
TPGT220.5LFX	●	.250	.125	.0078	.130
TPGT220.5RFX	●	.250	.125	.0078	.130
TPGT221LFX	●	.250	.125	.0156	.130
TPGT221RFX	★	.250	.125	.0156	.130
TPGT222LFX	★	.250	.125	.0313	.130
TPGT222RFX	★	.250	.125	.0313	.130

● = USA Stocked item

★ = World Wide Warehouse Item

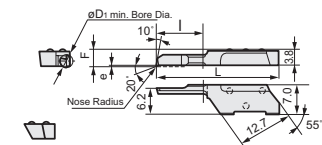
M = Negative nose radius tolerance (-0.0001" to -0.0004")

VBGT 35° Diamond/ 5° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
VBGT220MESI	★	.250	.125	.0039	.134
VBGT220.5MESI	●	.250	.125	.0078	.134
VBGT221MESI	●	.250	.125	.0156	.134
VBGT222MESI	★	.250	.125	.0313	.134
VBGT330MESI	★	.375	.1875	.0039	.1732
VBGT330.5MESI	●	.375	.1875	.0078	.1732
VBGT331MESI	★	.375	.1875	.0156	.1732
VBGT332MESI	★	.375	.1875	.0313	.1732
VBGT22.001LFYS	★	.250	.125	.0012	.134
VBGT22.001RFYS	★	.250	.125	.0012	.134
VBGT220LFYS	★	.250	.125	.0039	.134
VBGT220RFYS	★	.250	.125	.0039	.134
VBGT220.5LFYS	★	.250	.125	.0078	.134
VBGT220.5RFYS	★	.250	.125	.0078	.134
VBGT221LFYS	★	.250	.125	.0156	.134
VBGT221RFYS	★	.250	.125	.0156	.134
VBGT222LFYS	★	.250	.125	.0313	.134
VBGT222RFYS	★	.250	.125	.0313	.134
VBGT220LFY	★	.250	.125	.0039	.134
VBGT220RFY	★	.250	.125	.0039	.134
VBGT220.5LFY	★	.250	.125	.0078	.134
VBGT220.5RFY	★	.250	.125	.0078	.134
VBGT221LFY	★	.250	.125	.0156	.134
VBGT221RFY	★	.250	.125	.0156	.134
VBGT220LFX	★	.250	.125	.0039	.134
VBGT220RFX	★	.250	.125	.0039	.134
VBGT220.5LFX	★	.250	.125	.0078	.134
VBGT220.5RFX	★	.250	.125	.0078	.134
VBGT221LFX	★	.250	.125	.0156	.134
VBGT221RFX	★	.250	.125	.0156	.134

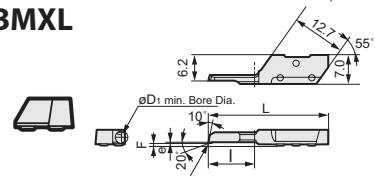
VCGT 35° Diamond/ 7° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
VCGT220MEFC	●	.250	.125	.0039	.134
VCGT220.5MEFC	●	.250	.125	.0078	.134
VCGT221MEFC	●	.250	.125	.0156	.134
VCGT220MESI	●	.250	.125	.0039	.134
VCGT220.5MESI	●	.250	.125	.0078	.134
VCGT221MESI	●	.250	.125	.0156	.134
VCGT222MESI	●	.250	.125	.0313	.134
VCGT330MESI	●	.375	.1875	.0039	.1732
VCGT330.5MESI	●	.375	.1875	.0078	.1732
VCGT331MESI	●	.375	.1875	.0156	.1732
VCGT332MESI	●	.375	.1875	.0313	.1732
VCGT220LFY	★	.250	.125	.0039	.134
VCGT220RFY	★	.250	.125	.0039	.134
VCGT220.5LFY	★	.250	.125	.0078	.134
VCGT220.5RFY	★	.250	.125	.0078	.134
VCGT221LFY	★	.250	.125	.0156	.134
VCGT221RFY	★	.250	.125	.0156	.134
VCGT220LFX	●	.250	.125	.0039	.134
VCGT220RFX	●	.250	.125	.0039	.134
VCGT220.5LFX	★	.250	.125	.0078	.134
VCGT220.5RFX	★	.250	.125	.0078	.134
VCGT221LFX	●	.250	.125	.0156	.134
VCGT221RFX	★	.250	.125	.0156	.134

WBGT 80° Trigon/ 5° Relief Angle					
Sumitomo Catalog Number	AC1030U	Inscribed Circle	Thickness	Nose Radius	Insert Hole Diameter
WBGT520.5LFY	●	.156	.0625	.0078	.090
WBGT520.5RFY	★	.156	.0625	.0078	.090
WBGT521LFY	★	.156	.0625	.0156	.090
WBGT521RFY	★	.156	.0625	.0156	.090
WBGT520.5LFX	★	.156	.0625	.0078	.090
WBGT520.5RFX	★	.156	.0625	.0078	.090
WBGT521LFX	★	.156	.0625	.0156	.090
WBGT521RFX	★	.156	.0625	.0156	.090
WBGT630.5LFX	★	.1875	.094	.0078	.090
WBGT630.5RFX	★	.1875	.094	.0078	.090
WBGT631LFX	★	.1875	.094	.0156	.090
WBGT631RFX	★	.1875	.094	.0156	.090

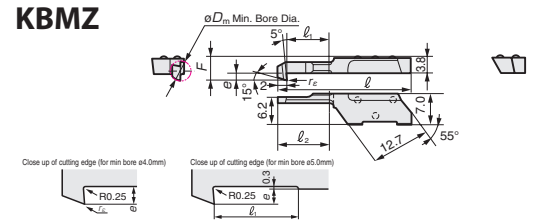
KBMXR



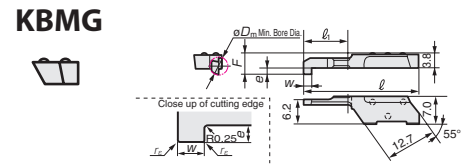
KBMXL



KBMZ



KBMG



KBMXR - Boring Rough Inserts

Sumitomo Catalog #	AC1030U	Dimensions (mm)					
		Min. Bore Dia.	F	e	Nose Radius	L	ℓ
KBMXR0103-05	★	1.0	4.00	0.20	0.05	20.5	3
KBMXR0103-20	★	1.0	4.00	0.20	0.20	20.5	3
KBMXR01506-05	★	1.5	4.05	0.25	0.05	23.5	6
KBMXR01506-20	★	1.5	4.05	0.25	0.20	23.5	6
KBMXR0206-05	★	2.0	4.05	0.25	0.05	23.5	6
KBMXR0206-20	★	2.0	4.05	0.25	0.20	23.5	6
KBMXR0311-05	★	3.0	4.10	0.30	0.05	28.5	11
KBMXR0311-20	★	3.0	4.10	0.30	0.20	28.5	11
KBMXR0411-05	★	4.0	4.30	0.50	0.05	28.5	11
KBMXR0411-20	★	4.0	4.30	0.50	0.20	28.5	11
KBMXR0420-05	★	4.0	4.30	0.50	0.05	37.5	20
KBMXR0420-20	★	4.0	4.30	0.50	0.20	37.5	20
KBMXR0511-05	★	5.0	4.50	0.70	0.05	28.5	11
KBMXR0511-20	★	5.0	4.50	0.70	0.20	28.5	11
KBMXR0520-05	★	5.0	4.50	0.70	0.05	37.5	20
KBMXR0520-20	★	5.0	4.50	0.70	0.20	37.5	20

KBMXL - Boring Rough Inserts Right Hand Cut

KBMXL0206-05R	★	2.0	0.50	0.25	0.05	23.5	6
KBMXL0206-20R	★	2.0	0.50	0.25	0.20	23.5	6
KBMXL0311-05R	★	3.0	0.50	0.30	0.05	28.5	11
KBMXL0311-20R	★	3.0	0.50	0.30	0.20	28.5	11
KBMXL0411-05R	★	4.0	0.50	0.50	0.05	28.5	11
KBMXL0411-20R	★	4.0	0.50	0.50	0.20	28.5	11
KBMXL0420-05R	★	4.0	0.50	0.50	0.05	37.5	20
KBMXL0420-20R	★	4.0	0.50	0.50	0.20	37.5	20
KBMXL0511-05R	★	5.0	0.50	0.50	0.05	28.5	11
KBMXL0511-20R	★	5.0	0.50	0.50	0.20	28.5	11
KBMXL0520-05R	★	5.0	0.50	0.50	0.05	37.5	20
KBMXL0520-20R	★	5.0	0.50	0.50	0.20	37.5	20

KBMZ - Back Boring

Sumitomo Catalog #	AC1030U	Dimensions (mm)						
		Min. Bore Dia.	F	e	Nose Radius	L	ℓ ₁	ℓ ₂
KBMZR0411-05	★	4.0	5.10	1.30	0.05	28.5	9	11
KBMZR0411-20	★	4.0	5.10	1.30	0.20	28.5	9	11
KBMZR0511-05	★	5.0	5.10	1.30	0.05	28.5	9	11
KBMZR0511-20	★	5.0	5.10	1.30	0.20	28.5	9	11

KBMG - Internal Grooving

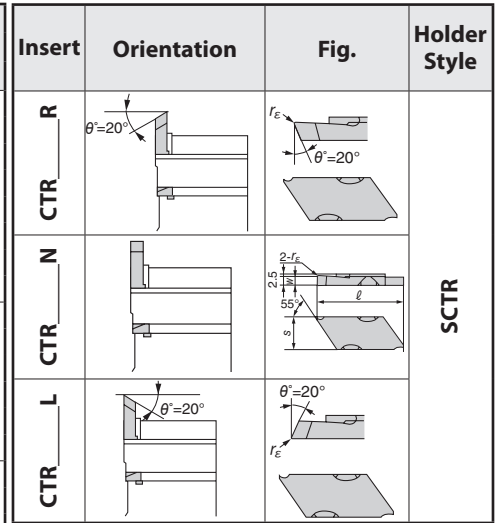
Sumitomo Catalog #	AC1030U	Dimensions (mm)						
		Min. Bore Dia.	W	F	e	Corner Radius	L	ℓ
KBMGR0411-05	★	4.0	1.0	4.90	1.10	0.05	28.5	11
KBMGR0411-10	★	4.0	2.0	4.90	1.10	0.10	28.5	11
KBMGR0511-05	★	5.0	1.0	5.10	1.30	0.05	28.5	11
KBMGR0511-10	★	5.0	2.0	5.10	1.30	0.10	28.5	11

See pages 234-235 of 17-18 General Catalog for applicable holders

AC1030U Availability

■ Inserts (For Right-handed Holders)

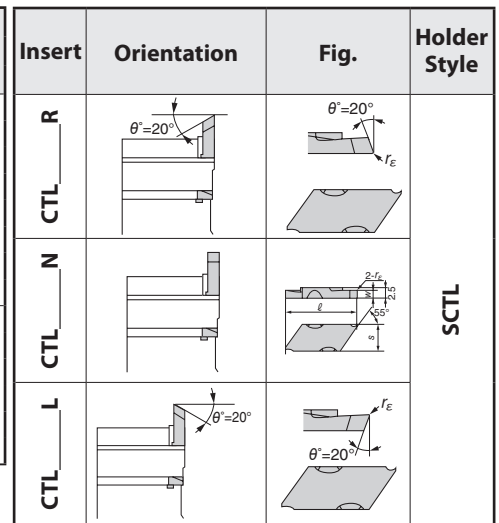
Cat. No.	Coated Carbide AC1030U			Max. Cut-off Diameter (mm)	Dimensions (mm)				Toolholder			
	R	N	L		w	r _E	L	s				
CTR 050505 R/N/L	★	★	★	5	0.5	0.05	19	7	SCTR1010 SCTR1212 SCTR1616			
CTR 050500 R/N/L	★	★		5		0						
CTR 121005 R/N/L	★	★	★	12	1.0	0.05						
CTR 121505 R/N/L	★	★	★	12	1.5							
CTR 122005 R/N/L	★	★		12	2.0							
CTR 121000 R/N/L	★	★		12	1.0							
CTR 121500 R/N/L	★	★		12	1.5							
CTR 122000 R/N/L	★	★		12	2.0							
CTR 161005 R/N/L				16	1.0	0.05				23.1	8.3	SCTR1010-16 SCTR1212-16 SCTR1616-16
CTR 161505 R/N/L	★	★		16	1.5							
CTR 162005 R/N/L	★	★	★	16	2.0							
CTR 161000 R/N/L				16	1.0							
CTR 161500 R/N/L	★	★		16	1.5							
CTR 162000 R/N/L	★	★	★	16	2.0							
CTR121000R-NB	★			12	1.0	0	19	7	SCTR1010 SCTR1212 SCTR1616			
CTR121500R-NB	★			12	1.5							
CTR122000R-NB	★			12	2.0							
CTR162000R-NB	★			16	2.0		23.1	8.3	SCTR1010-16 SCTR1212-16 SCTR1616-16			



R : Right
N : Neutral
L : Left

■ Inserts (For Left-handed Holders)

Cat. No.	Coated Carbide AC1030U			Max. Cut-off Diameter (mm)	Dimensions (mm)				Toolholder			
	R	N	L		w	r _E	L	s				
CTL 050505 R/N/L	★	★		5	0.5	0.05	19	7	SCTL1010 SCTL1212 SCTL1616			
CTL 050500 R/N/L	★	★		5		0						
CTL 121005 R/N/L	★	★	★	12	1.0	0.05						
CTL 121505 R/N/L	★	★	★	12	1.5							
CTL 122005 R/N/L	★	★		12	2.0							
CTL 121000 R/N/L	★	★		12	1.0							
CTL 121500 R/N/L	★	★		12	1.5							
CTL 122000 R/N/L	★	★		12	2.0							
CTL 161005 R/N/L				16	1.0	0.05				23.1	8.3	SCTL1010-16 SCTL1212-16 SCTL1616-16
CTL 161505 R/N/L	★	★		16	1.5							
CTL 162005 R/N/L	★	★	★	16	2.0							
CTL 161000 R/N/L				16	1.0							
CTL 161500 R/N/L	★	★		16	1.5							
CTL 162000 R/N/L	★	★		16	2.0							



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