

Tungaloy Promotions

Receive an exclusive
Tungaloy camo cap
with every order



Dopent



FREE

Open Season!



Tungaloy

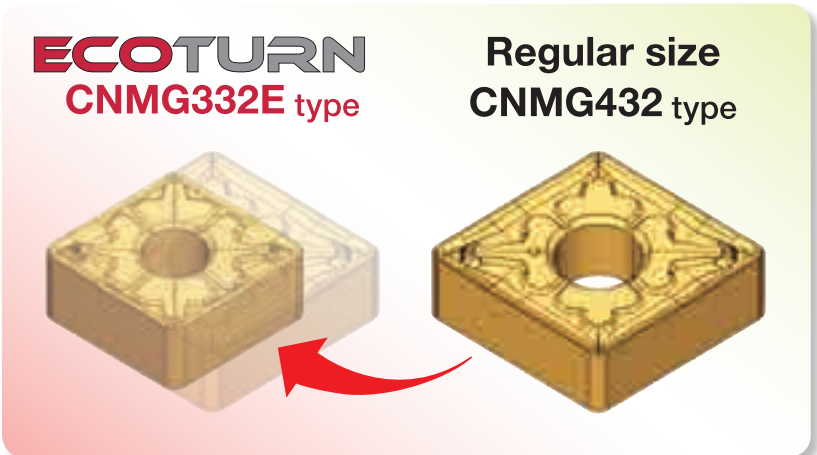
Member IMC Group

Offers valid until
December 31, 2013

ECOTURN - Economical Insert Series

**BUY 30 INSERTS
GET TOOLHOLDER
FREE**

**MIX & MATCH
YOUR INSERTS!**



Ideal tooling parameters can be achieved

Interrupted Cuts

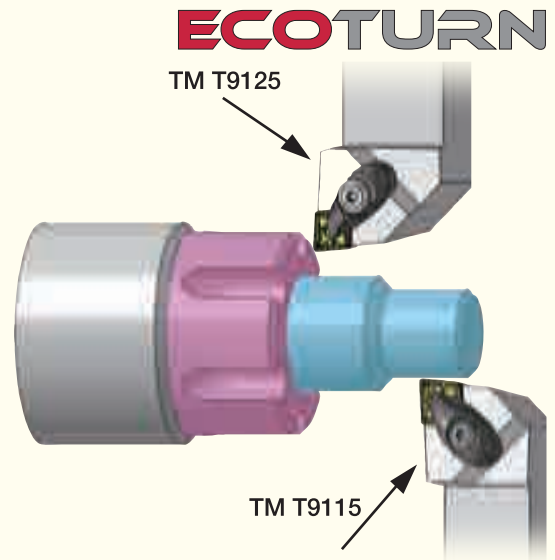
Roughing
TM T9125

Finishing
TSF T9125

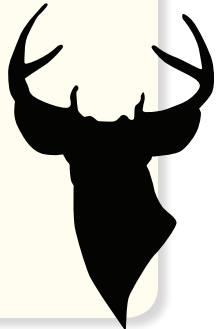
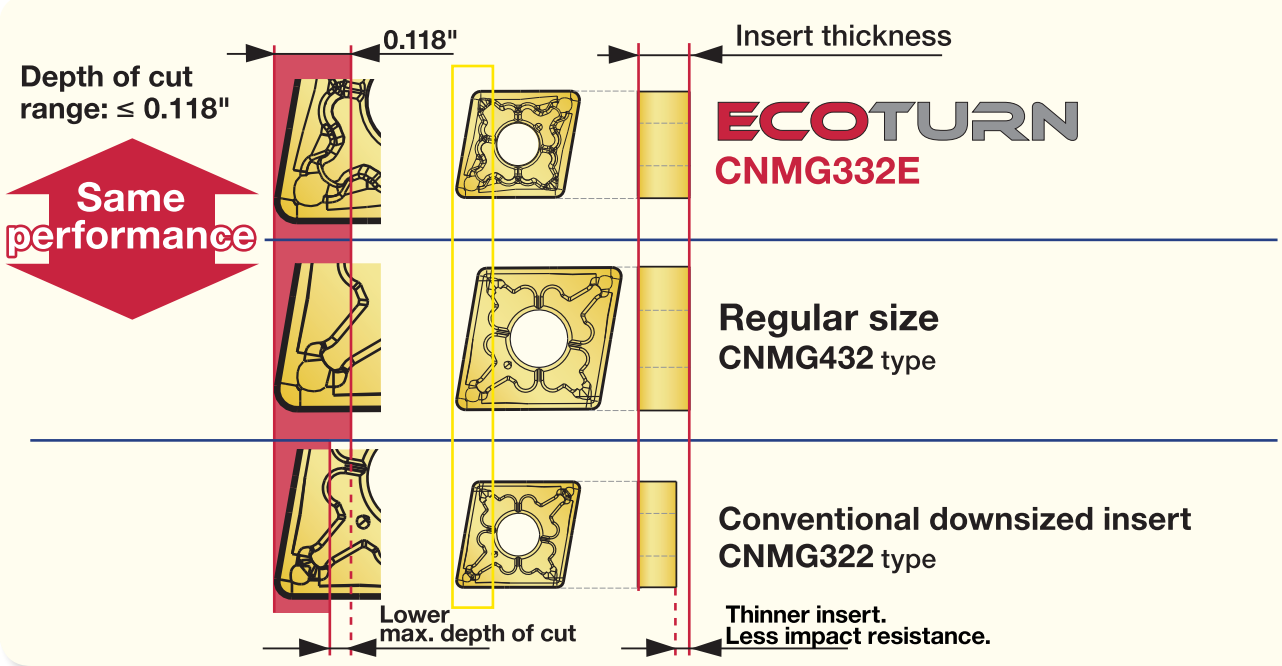
Continuous Cuts

Roughing
TM T9115

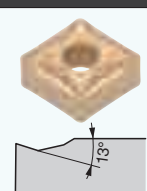
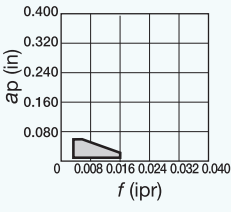
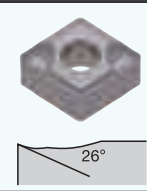
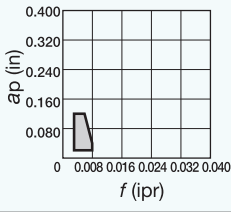
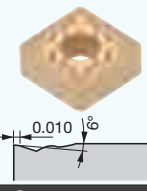
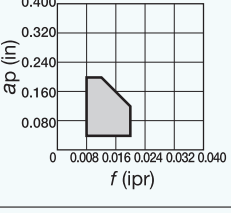
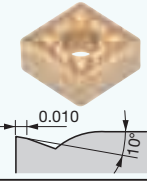
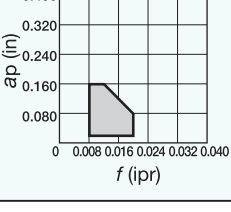
Finishing
TSF T9115



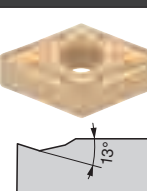
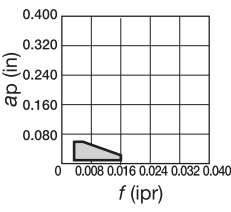
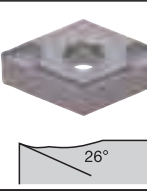
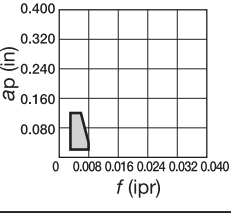
Comparison of insert thickness and chipbreaker



Rhombic, 80°

Application	Chipbreaker Appearance (Cross section)	f - ap	Cat. No	Stocked grades							Dimensions (in)					
				Coated					Cermet NS9530	Coated cermet GT9530	I.C.dia ød	Thick- ness s	Hole dia ød1	Corner radius rε		
				T9115	T9125	T6120	T6130	AH630							AH645	
Finishing	TSF 		CNMG 331E-TSF	●	●					●	●	0.375	0.187	0.150	0.016	
			*CNMG 332E-TSF	●	●						●				●	0.031
	SS 		CNMG 331E-SS										0.375	0.187	0.150	0.016
			*CNMG 332E-SS													0.031
Medium cutting	TM 		CNMG 331E-TM	●	●							0.375	0.187	0.150	0.016	
			*CNMG 332E-TM	●	●											0.031
			CNMG 333E-TM	●	●											
	SM 		CNMG 331E-SM			●	●	●					0.375	0.187	0.150	0.016
*CNMG 332E-SM					●	●	●					0.031				
CNMG 333E-SM					●	●	●									0.047



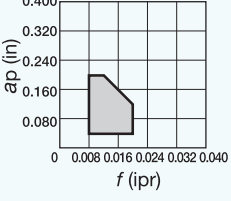


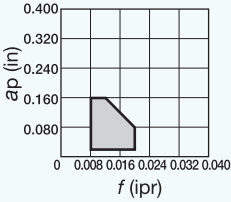
Rhombic, 55°

Application	Chipbreaker Appearance (Cross section)	f - ap	Cat. No	Stocked grades							Dimensions (in)					
				Coated					Cermet NS9530	Coated cermet GT9530	I.C.dia ød	Thick- ness s	Hole dia ød1	Corner radius rε		
				T9115	T9125	T6120	T6130	AH630							AH645	
Finishing	TSF 		DNMG 331E-TSF	●	●					●	●	0.375	0.187	0.150	0.016	
			*DNMG 332E-TSF	●	●						●				●	0.031
			DNMG 333E-TSF	●	●						●				●	0.047
	SS 		DNMG 331E-SS										0.375	0.187	0.150	0.016
*DNMG 332E-SS												0.031				



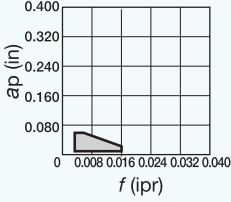


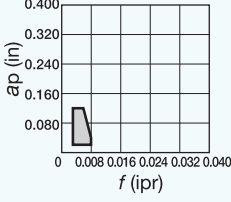


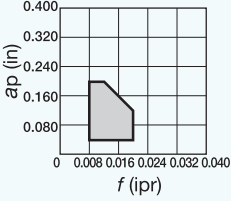

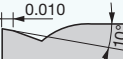
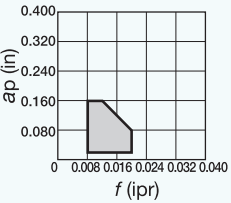
● : Stocked items



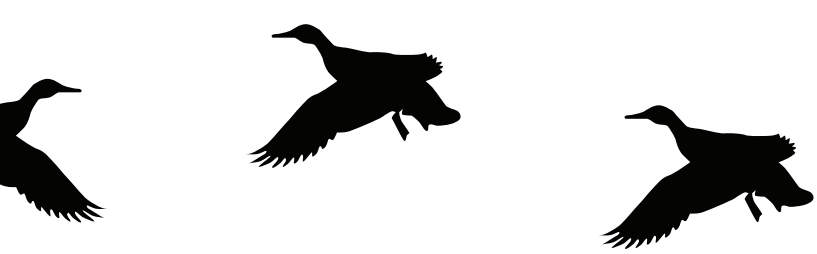
Rhombic, 55°

Application	Chipbreaker		f - ap	Cat. No	Stocked grades							Dimensions (in)			
	Appearance (Cross section)	f (ipr)			Coated			Cermet	Coated cermet	I.C. dia	Thick- ness	Hole dia	Corner radius		
					T9115	T9125	T6120	T6130	AH630					AH645	NS9530
Medium cutting	TM  		DNMG 331E-TM	●	●								0.016		
			*DNMG 332E-TM	●	●						0.375	0.187	0.150	0.031	
			DNMG 333E-TM	●	●										0.047
	SM  		DNMG 331E-SM			●	●	●						0.016	
			*DNMG 332E-SM			●	●	●			0.375	0.187	0.150	0.031	

Trigon, 80°

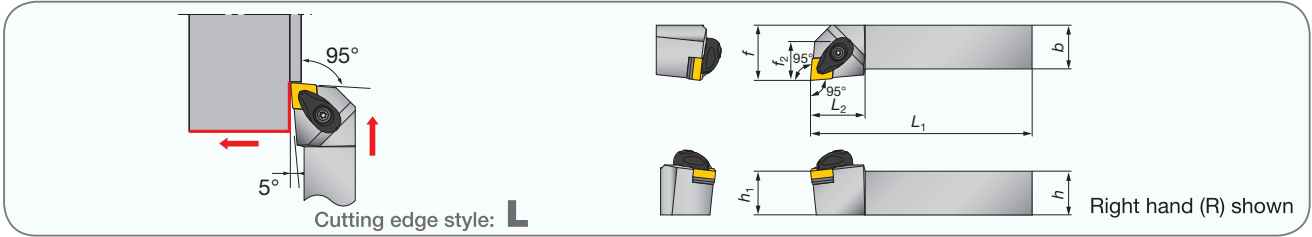
Application	Chipbreaker		f - ap	Cat. No	Stocked grades							Dimensions (in)			
	Appearance (Cross section)	f (ipr)			Coated			Cermet	Coated cermet	I.C. dia	Thick- ness	Hole dia	Corner radius		
					T9115	T9125	T6120	T6130	AH630					AH645	NS9530
Finishing	TSF  		WNMG 331E-TSF	●	●				●	●			0.016		
			*WNMG 332E-TSF	●	●				●	●	0.375	0.187	0.150	0.031	
			WNMG 333E-TSF	●	●				●	●					0.047
	SS  		WNMG 331E-SS					●	●					0.016	
			*WNMG 332E-SS					●	●	0.375	0.187	0.150	0.031		
			WNMG 333E-SS					●	●						0.047
Medium cutting	TM  		WNMG 331E-TM	●	●								0.016		
			*WNMG 332E-TM	●	●					0.375	0.187	0.150	0.031		
			WNMG 333E-TM	●	●										0.047
	SM  		WNMG 331E-SM			●	●	●						0.016	
			*WNMG 332E-SM			●	●	●		0.375	0.187	0.150	0.031		
			WNMG 333E-SM			●	●	●							0.047

● : Stocked items



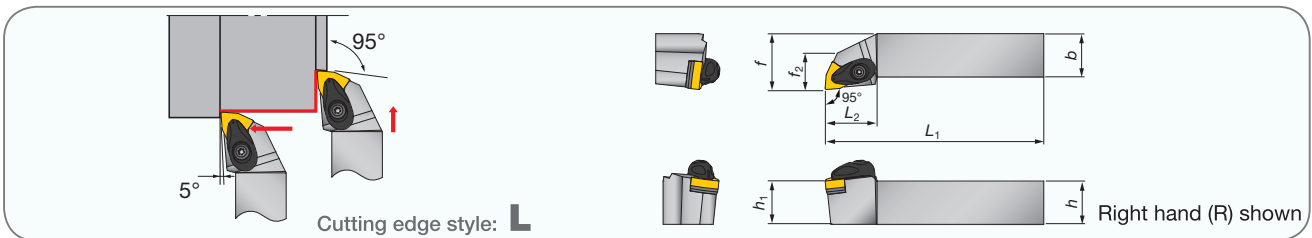
Toolholders - Unique pocket design for EcoTurn inserts

ACLN R/L External turning and facing A-type (Negative rake, clamp-on system)



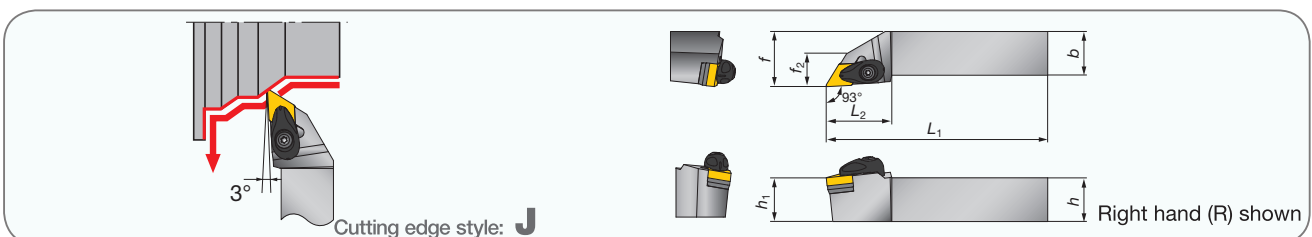
Cat. No	Stock		Dimensions (in)							Std. corner radius r_E	Insert	Torque (N·m)
	R	L	h	b	L_1	L_2	h_1	f	f_2			
ACLNR/L1233-A	●	●	0.750	0.750	4.500	0.900	0.750	1.000	0.625	0.031	CN□□33□□	3.0
ACLNR/L1633-A	●	●	1.000	1.000	6.000	1.000	1.000	1.250	0.750			

AWLN R/L External turning and facing A-type (Negative rake, clamp-on system)



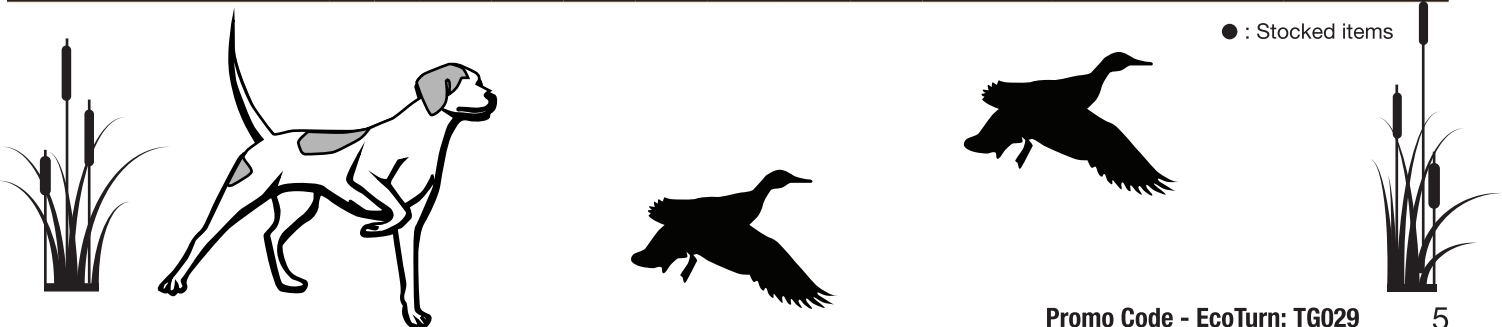
Cat. No	Stock		Dimensions (in)							Std. corner radius r_E	Insert	Torque (N·m)
	R	L	h	b	L_1	L_2	h_1	f	f_2			
AWLNR/L1233-A	●	●	0.750	0.750	4.500	1.125	0.750	1.000	0.625	0.031	WN□□33□□	3.0
AWLNR/L1633-A	●	●	1.000	1.000	6.000	1.125	1.000	1.250	0.875			

ADJN R/L External turning and profiling A-type (Negative rake, clamp-on system)



Cat. No	Stock		Dimensions (in)							Std. corner radius r_E	Insert	Torque (N·m)
	R	L	h	b	L_1	L_2	h_1	f	f_2			
ADJNR/L1233-A	●	●	0.750	0.750	4.500	1.250	0.750	1.000	0.625	0.031	DN□□33□□	3.0
ADJNR/L1633-A	●	●	1.000	1.000	6.000	1.250	1.000	1.250	0.900			

● : Stocked items

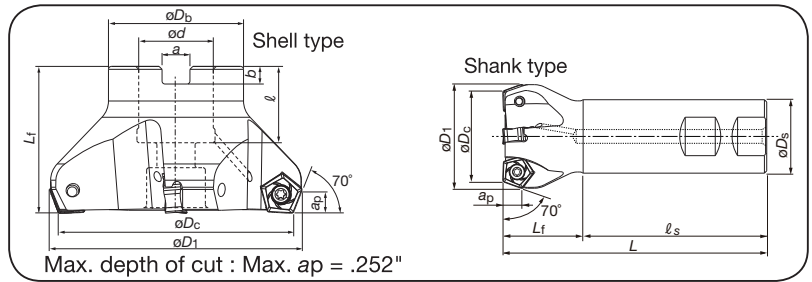


DOPE^{NT} - Highly productive economical face milling cutter series

"70 CUTTING EDGES PER INSERT"

**BUY 10 INSERTS PER
POCKET GET FREE STEEL**
MIX AND MATCH YOUR INSERTS!

Milling cutter



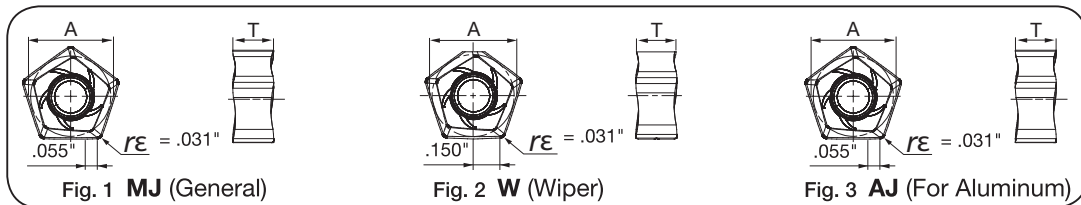
Shell type

Pitch	Cat. No.	Stock	No. of Inserts	Dimensions (in)								Weight (lb)	Airhole	Center Bolt
				ϕD_c	ϕD_1	ϕD_b	ϕd	l	L_f	b	a			
Coarse	TEN09R200U0075A03	●	3	2.000	2.228	1.693	.750	.750	1.575	.197	.315	.79	with	C0.375x1.125H
	TEN09R250U0075A04	●	4	2.500	2.728	1.693	.750	.750	1.575	.197	.315	1.10	with	C0.375x1.125H
	TEN09R300U0100A04	●	4	3.000	3.229	1.969	1.000	1.024	1.969	.236	.374	1.92	with	C0.500x1.375H
	TEN09R400U0150A05	●	5	4.000	4.227	3.150	1.500	1.378	1.969	.394	.626	3.44	with	TMBA-0.750H
	TEN09R500U0150A06	●	6	5.000	5.226	3.150	1.500	1.457	2.480	.394	.626	5.95	with	TMBA-0.750H
	TEN09R600U0200A07	●	7	6.000	6.225	3.937	2.000	1.496	2.480	.433	.748	8.37	without	-
Close	TEN09R200U0075A04	●	4	2.000	2.228	1.693	.750	.750	1.575	.197	.315	.810	with	C0.375x1.125H
	TEN09R250U0075A06	●	6	2.500	2.728	1.693	.750	.750	1.575	.197	.315	1.10	with	C0.375x1.125H
	TEN09R300U0100A07	●	7	3.000	3.229	1.969	1.000	1.024	1.969	.236	.374	1.89	with	C0.500x1.375H
	TEN09R400U0150A08	●	8	4.000	4.227	3.150	1.500	1.378	1.969	.394	.626	3.52	with	TMBA-0.750H
	TEN09R500U0150A10	●	10	5.000	5.225	3.150	1.500	1.457	2.480	.394	.626	6.17	with	TMBA-0.750H
	TEN09R600U0200A12	●	12	6.000	6.224	3.937	2.000	1.496	2.480	.433	.748	9.03	without	-
Fine	TEN09R200U0075A06	●	6	2.00	2.228	1.69	0.75	0.75	1.57	0.20	0.31	.3	with	C0.375x1.125H
	TEN09R250U0075A08	●	8	2.50	2.728	1.69	0.75	0.75	1.57	0.20	0.31	.5	with	C0.375x1.125H
	TEN09R300U0100A10	●	10	3.00	3.229	1.97	1.00	1.02	1.97	0.24	0.37	.9	with	C0.500x1.375H
	TEN09R400U0150A12	●	12	4.00	4.227	3.15	1.50	1.38	1.97	0.39	0.63	1.4	with	TMBA-0.750H
	TEN09R500U0150A16	●	16	5.00	5.225	3.15	1.50	1.46	2.48	0.39	0.63	2.9	with	TMBA-0.750H
	TEN09R600U0200A20	●	20	6.00	6.224	3.94	2.00	1.50	2.48	0.43	0.75	4.9	without	-

Shank type

Cat. No.	Stock	No. of Inserts	Dimensions (in)						Weight (lb)	Airhole	Parts	
			ϕD_c	ϕD_1	ϕD_s	l_s	L_f	L			Clamping Screw	Wrench (Substitution)
EEN09R125U0125W03	●	3	1.250	1.479	1.250	2.281	1.500	3.781	1.21	with	CSTR-4L100	T-15DB (T-15D)
EEN09R150U0125W04	●	4	1.500	1.729	1.250	2.281	2.000	4.281	1.32	with		

Insert



Cat. No.	Accuracy	Honing	Grades							Dimensions (in)		Shape
			Coated					Cermet	Carbide	A	T	
			AH725	AH120	NEW AH140	NEW T1115	NEW T3130					
PNCU0905GNER-MJ	C	with	●	●	●	●	●	●	●	.480	.233	Fig. 1
PNCU0905GNER-W	C	with	●							.480	.233	Fig. 2
PNCU0905GNFR-AJ	C	without							●	.480	.248	Fig. 3



Close pitch



Coarse pitch



Standard cutting conditions

Work materials	Hardness HB	Selection criteria	Recommended grade	Cutting speed Vc (sfm)	Feed per tooth fz (ipt)
Low carbon steels (1018, 8620 etc.)	~ 200	First choice	AH725	350 - 800	.004 - .024
		Priority on impact resistance	AH140	260 - 600	
		Priority on wear resistance	T3130	390 - 800	
		Priority on surface quality	NS740	350 - 800	
High carbon steels (F-6180 etc.)	200 ~ 300	First choice	AH725	350 - 750	.004 - .020
		Priority on impact resistance	AH140	260 - 600	
		Priority on wear resistance	T3130	390 - 800	
		Priority on surface quality	NS740	350 - 800	
Alloyed steels (4140, 4340 etc.)	150 ~ 300	First choice	AH725	350 - 750	.004 - .020
		Priority on impact resistance	AH140	260 - 500	
		Priority on wear resistance	T3130	390 - 800	
		Priority on surface quality	NS740	350 - 800	
Tool steels (A-6, D-1, D-2 etc.)	~ 300	First choice	AH725	350 - 600	.004 - .020
		Priority on impact resistance	AH140	260 - 390	
		Priority on wear resistance	T3130	350 - 600	
Stainless steels (300 Series, 304, 316 etc.)	-	First choice	AH140	300 - 600	.004 - .018
Gray cast irons	-	First choice	AH120	450 - 800	.004 - .024
		Priority on wear resistance	T1115	490 - 920	
Ductile cast irons	-	First choice	AH120	350 - 650	.004 - .024
		Priority on wear resistance	T1115	390 - 720	
Aluminum alloys (Si < 13%)	-	First choice	TH10	1600 - 5000	.004 - .020
Aluminum alloys (Si ≥ 13%)				490 - 1600	
Super alloys (Inconel 718, Ti-6Al-4V etc.)	-	First choice	AH725	60 - 160	.008 - .024

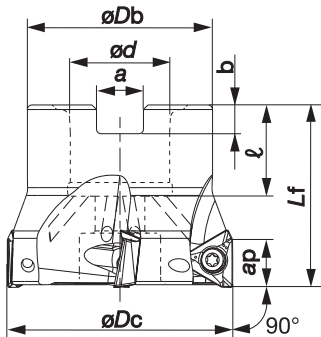
TUNG-TRI

Cutter

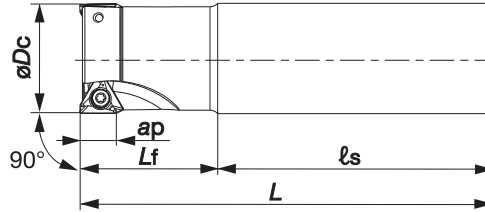
**BUY 50 INSERTS
GET BORE TYPE
CUTTER FREE!**



Bore type



Shank type



Max. depth of cut :
T/EPA10: Max. $ap = 0.394''$
T/EPA15: Max. $ap = 0.590''$

**BUY 30 INSERTS
GET SHANK TYPE
CUTTER FREE!**

MIX & MATCH YOUR INSERTS!

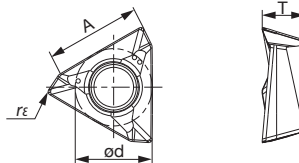
**3 CORNERED SHOULDER
MILLING CUTTER WITH
ANTI-CHATTER DESIGN!**

Bore type

Cat. No.	Stock	No. of Inserts	Dimensions (in)							Air hole	Center bolt	Applicable Insert
			ϕDc	ϕDb	ϕd	ℓ	L_f	b	a			
TPA10R200U0075A04	●	4	2.000	1.693	0.750	0.750	1.575	0.197	0.315	with	-	TOMT10040* PDER-MJ
TPA10R250U0075A06	●	6	2.500	1.693	0.750	0.750	1.575	0.197	0.315		-	
TPA15R200U0075A04	●	4	2.000	1.625	0.750	0.750	1.570	0.197	0.315	with	TCS9.525-35-I	TOMT15060* PDER-MJ
TPA15R250U0075A05	●	5	2.500	2.125	0.750	0.750	1.570	0.197	0.315		-	
TPA15R300U0100A06	●	6	3.000	2.250	1.000	1.024	1.750	0.236	0.374		-	
TPA15R400U0150A07N	●	7	4.000	3.000	1.500	1.181	2.000	0.394	0.626	without	-	

Shank type

Cat. No.	Stock	No. of Inserts	Dimensions (in)					Air hole	Applicable Insert
			ϕDc	ϕDs	ℓ_s	L_f	L		
EPA10R100U0100W02N	●	2	1.000	1.000	2.362	1.378	3.740	without	TOMT10040* PDER-MJ
EPA10R125U0125W03N	●	3	1.250	1.250	2.362	1.378	3.740		
EPA10R150U0125W04N	●	4	1.500	1.250	3.157	1.969	5.126		
EPA15R150U0125W03N	●	3	1.500	1.250	2.250	2.250	4.500	without	TOMT15060* PDER-MJ
EPA15R200U0125W04N	●	4	2.000	1.250	2.250	2.250	4.500		



Inserts

Cat. No.	Accuracy	Honing	Grades		Dimensions (in)				Cutter
			AH3135	AH120	A	ϕd	T	r_ϵ	
TOMT100404PDER-MJ	M	with	●	●	0.413	0.339	0.185	0.016	TPA10R... EPA10R...
TOMT100408PDER-MJ			●	●				0.031	
TOMT150604PDER-MJ	M	with	●	●	0.618	0.500	0.236	0.016	TPA15R... EPA15R...
TOMT150608PDER-MJ			●	●				0.031	

FEATURING TINYTURN KITS

TINYTURN

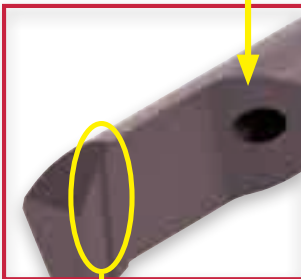
Cutting edge is extremely fine compared to competitors!!

Solid carbide boring bars for small diameter turning

Well-designed edge provides highly accurate machining

- Generates fine surface finishes and prevents edge chipping.
- Smooth cutting edge leads to high precision products.

Coolant hole



Chipbreaker

Coolant hole

- Supplies coolant directly to the cutting edge.
- Offers remarkable chip evacuation.



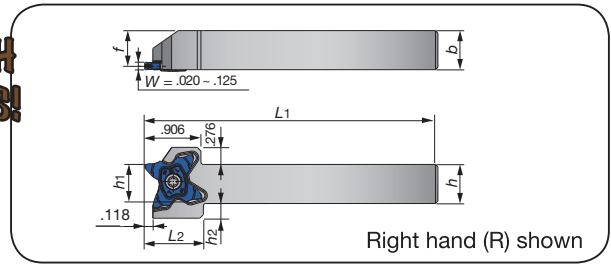
*Face Grooving Kit pictured

TinyTurn General Kit Includes:		Item Description	Kit Price
Sleeve		JBBS159-4-7	\$260
Solid Boring Bars-Boring, Profiling, Chamfering, Face Grooving & Grooving		JBTR04090010-D028 SH730	
		JBTR07140015-D050 SH730	
		JBGR07090150-D050 SH730	
		JBGR07140200-D068 SH730	
		JBFR07110150-D060 SH730	
	JBTR04090005-D020 SH730		
Wrench		P25	
TinyTurn Face Grooving Kit Includes:		Item Description	Kit Price
Sleeve		JBBS159-4-7	\$250
Solid Boring Bars-Face Grooving		JBFR07110150-D060 SH730	
		JBFR07110200-D080 SH730	
		JBFR07200250-D150 SH730	
	JBFR07200300-D150 SH730		
Wrench		P25	
TinyTurn Grooving & Threading Kit Includes:		Item Description	Kit Price
Sleeve		JBBS159-4-7	\$220
Solid Boring Bars-Grooving and Threading		JBGR07090150-D050 SH730	
		JBGR07140200-D068 SH730	
		JBIR07140100-D048 SH730	
	JBIR07140150-D060 SH730		
Wrench		P25	

TETRACUT - Smart and economical tool for grooving and parting off

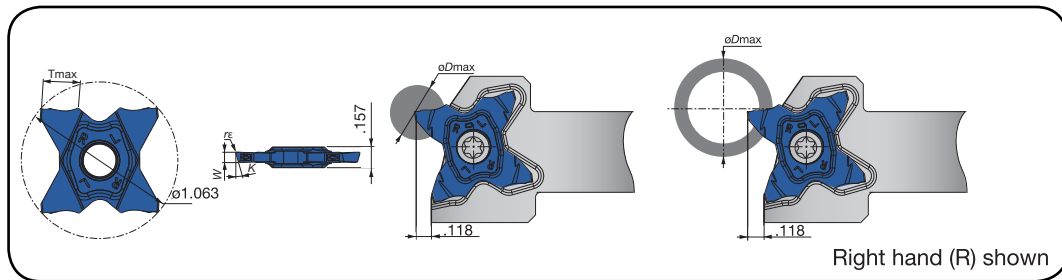
External toolholders **MIX & MATCH**
BUY 10 INSERTS **YOUR INSERTS!**
GET TOOLHOLDER FREE!

STC R/L External grooving



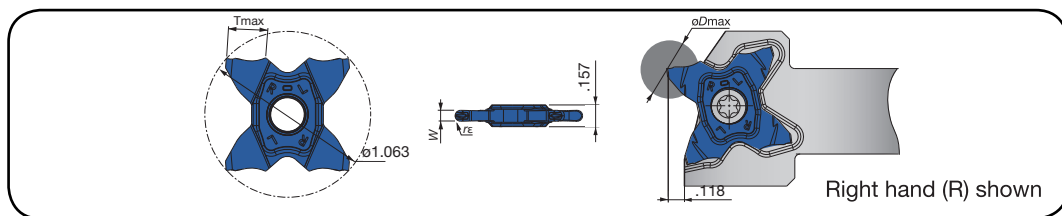
Cat. No.	Stock		Dimensions (inch)							Parts		Wrench
	R	L	h1	b	h	L1	f	h2	L2	Screw		
										R	L	
STCR/L06-27	●	●	.375	.375	.375	5.00	.315	.374	.945	SR16-212-01397L	SR16-212-01397	T-2010/5
STCR/L08-27	●	●	.500	.500	.500	5.00	.440	.287	.945			
STCR/L10-27	●	●	.625	.625	.625	5.00	.565	.236	.945			
STCR/L12-27	●	●	.750	.750	.750	5.00	.690	.118	.945			
STCR/L16-27	●	●	1.00	1.00	1.00	5.50	.940	-	-			
STCR/L20-27	●	●	1.25	1.25	1.25	5.50	1.19	-	-			

Insert



4 cornered & handed inserts for parting off

Cat. No.	Stock		Dimensions (inch)				Max. parting off dia. øDmax (inch)	
	Coating		Cutting edge width W ±.0008 (inch)	Corner radius rε	Max. grooving depth Tmax	Front edge angle K	Solid bar	Tube
	AH725							
	R	L						
TCS27-100-15R/L	●	●	.039	.0024	.138	15°	.276	23.622
TCS27-150-6R/L	●	●	.059	.0024	.224	6°	.449	1.378
TCS27-150-15R/L	●	●	.059	.0024	.224	15°	.449	1.378
TCS27-200-6R/L	●	●	.079	.004	.252	6°	.504	1.181
TCS27-200-15R/L	●	●	.079	.004	.252	15°	.504	1.181



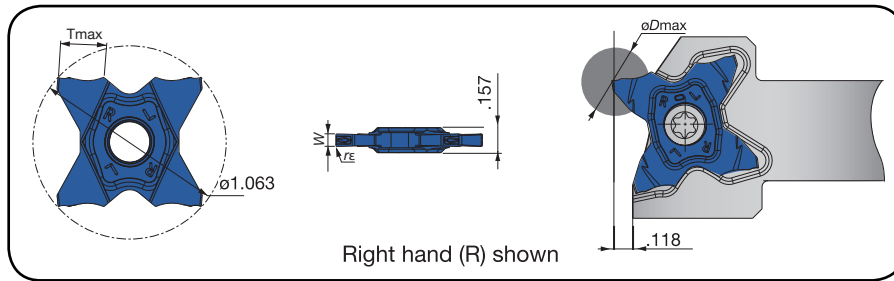
4 cornered inserts with full radius for grooving and profiling

Cat. No.	Stock		Dimensions (inch)		Relation of groove depth (T) and Max. diameter (øDmax)												
	Coating		Cutting edge width W ±.0008 (inch)	Corner radius rε	Max. parting off diameter (solid bar) Tmax												
	AH725					T ≤ .039	T ≤ .079	T ≤ .118	T ≤ .138	T ≤ .158	T ≤ .177	T ≤ .197	T ≤ .217	T ≤ .224	T ≤ .236	T ≤ .244	T ≤ .252
TCS27-157-079	●	●	.062	.031	.118	∞	∞	∞	-	-	-	-	-	-	-	-	
TCS27-200-100	●	●	.079	.039	.118	∞	∞	∞	-	-	-	-	-	-	-	-	
TCS27-239-120	●	●	.094	.047	.224	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	
TCS27-300-150	●	●	.118	.059	.252	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.165

Promo Code - TetraCut: GUS08

● : Stocked items

Insert



4 cornered insert for grooving and parting off

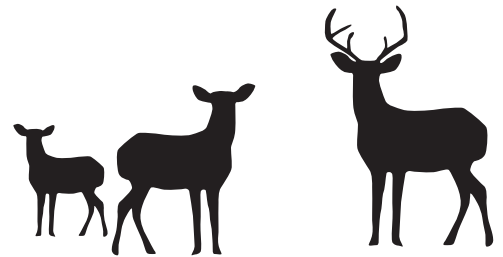
Cat. No.	Stock	Dimensions (inch)				Relation of groove depth (T) and Max. diameter (oDmax)											
	Coating	Cutting edge width W ±.0008 (inch)	Corner radius rE	Max. grooving depth Tmax	Max. parting off diameter (solid bar) oDmax	T ≤ .039	T ≤ .079	T ≤ .118	T ≤ .138	T ≤ .157	T ≤ .177	T ≤ .197	T ≤ 2.17	T ≤ .224	T ≤ .236	T ≤ .244	T ≤ .252
	AH725					∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞
TCS27-050-000	●	.020	.000	.039	.079	∞	-	-	-	-	-	-	-	-	-	-	-
TCS27-050-004	●	.020	.0016	.098	.197	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-075-010	●	.030	.004	.098	.197	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-080-000	●	.031	.000	.063	.126	∞	-	-	-	-	-	-	-	-	-	-	-
TCS27-100-006	●	.039	.0024	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-100-010	●	.039	.004	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-104-000	●	.041	.000	.079	.158	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-120-000	●	.047	.000	.079	.158	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-125-010	●	.049	.004	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-125-020	●	.049	.008	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-140-000	●	.055	.000	.079	.158	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-147-000	●	.058	.000	.098	.197	∞	∞	-	-	-	-	-	-	-	-	-	-
TCS27-150-010	●	.059	.004	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-150-020	●	.059	.008	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-157-015	●	.062	.006	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-170-010	●	.067	.004	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-175-010	●	.069	.004	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-175-020	●	.069	.008	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-178-018	●	.070	.007	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-185-020	●	.073	.008	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-196-015	●	.077	.006	.118	.236	∞	∞	∞	-	-	-	-	-	-	-	-	-
TCS27-200-010	●	.079	.004	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.118	4.134	3.346	2.362	1.969	1.181
TCS27-200-020	●	.079	.008	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.118	4.134	3.346	2.362	1.969	1.181
TCS27-222-015	●	.087	.006	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-230-020	●	.091	.008	.138	.276	∞	∞	∞	23.622	-	-	-	-	-	-	-	-
TCS27-239-015	●	.094	.006	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-247-020	●	.097	.008	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-250-010	●	.098	.004	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-250-030	●	.098	.012	.224	.449	∞	∞	∞	23.622	11.024	7.087	5.118	1.969	1.378	-	-	-
TCS27-270-010	●	.106	.004	.244	.488	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	-
TCS27-287-020	●	.113	.008	.244	.488	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	-
TCS27-300-000	●	.118	.000	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.165
TCS27-300-020	●	.118	.008	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.165
TCS27-300-030	●	.118	.012	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.165
TCS27-300-040	●	.118	.016	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.165
TCS27-315-015	●	.124	.006	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.677
TCS27-318-020	●	.125	.008	.252	.504	∞	∞	∞	23.622	11.024	7.087	5.315	4.134	3.740	3.346	3.071	2.677

**BUY 20 INSERTS
GET BLADE & WRENCH
FREE!**

MIX & MATCH YOUR INSERTS!

Offer Details

Size	Blade	Insert	Wrench
1.40mm	CGP32-1.4D	DGS1.4	CRW23
	CGP26-1.4S		
2.00mm	CGP26-2S	SGM2/SGS2 DGM2/DGS2	CRW33
	CGP32-2D		
3.00mm	CGP26-3S	SGM3/SGS3 DGM3/DGS3	
	CGP32-3D		
4.00mm	CGP26-4S	SGM4/SGS4 DGM4/DGS4	
	CGP32-4D		



CGP blades

CGP Deep grooving and parting off

(1) Max groove depth is 1.122 inch

Right hand (R) shown

Insert seat size	Cat. No.	Stock	*Max. parting off dia. øDm (inch)	Dimensions (inch)					Inserts	Parts		Shape
				h ₁	b	h	L ₁	W		Wrench		
1	CGP26-1.4S	●	1.024	.843	.039	1.024	5.906	.055	DGS1.4-016	CRW23	Fig. 1	
	CGP32-1.4D	●	.984	.976	.039	1.260	5.906	.055			Fig. 2	
2	CGP26-2S	●	1.575	.843	.071	1.024	5.906	.079	SGM/SGS DGM/DGS	CRW33	Fig. 1	
	CGP32-2D	●	1.969	.976	.071	1.260	5.906	.079			Fig. 2	
3	CGP26-3S	●	1.969	.843	.094	1.024	5.906	.118	DGM/DGS	CRW33	Fig. 1	
	CGP32-3D	●	3.937	.976	.094	1.260	5.906	.118			Fig. 2	
4	CGP26-4S	●	3.150	.843	.126	1.024	5.906	.157	CRW33	CRW33	Fig. 1	
	CGP32-4D	●	3.937	.980	.126	1.260	5.906	.157			Fig. 1	
	CGP45-4D	●	4.724	1.50	.126	1.772	5.906	.157			Fig. 2	

*Insert Selection for Tungcut offers on pages 14-15
 Promo Code - TungCut Inserts, Blade & Wrench: GUS06

● : Stocked items

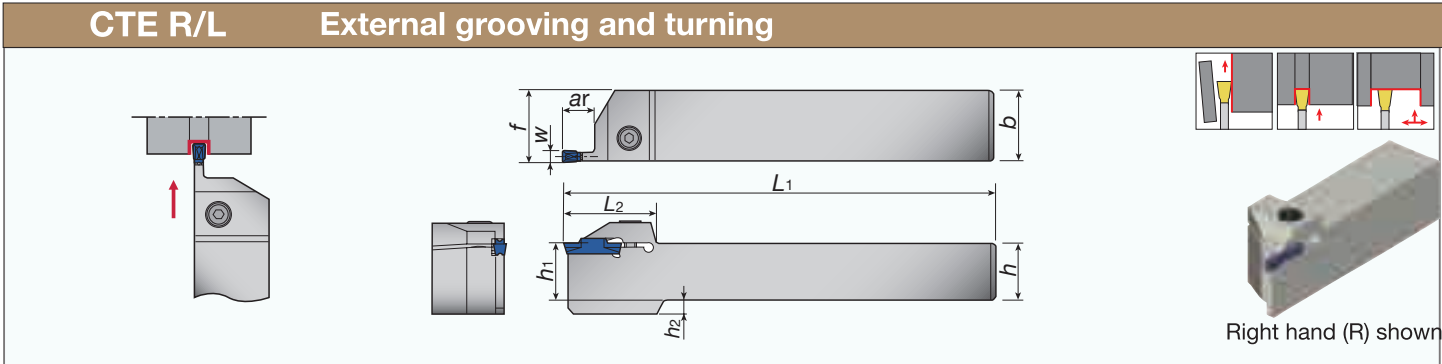
**BUY 20 INSERTS
GET MONOBLOCK
TOOLHOLDER FREE!**

TUNG CUT

MIX & MATCH YOUR INSERTS!



Toolholders Mono block type



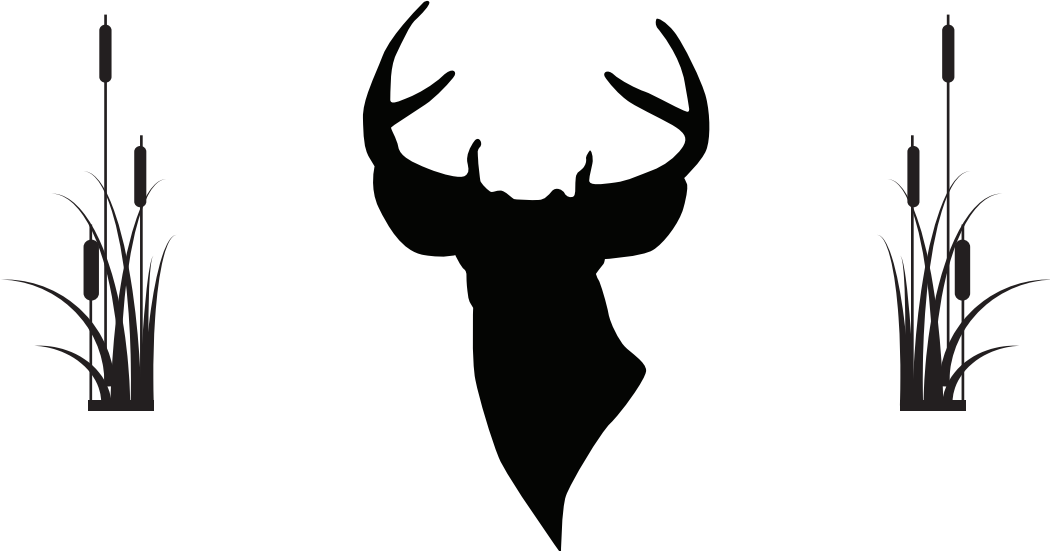
Insert seat size	Cat. No.	Stock		Max. groove depth ⁽¹⁾ ar (inch)	Dimensions (inch)								Inserts	Parts	
		R	L		h ₁	b	h	L ₁	f ⁽²⁾	W	h ₂	L ₂		Clamping screw	Wrench
2	CTER/L12-2T17	●	●	.669	.750	.750	.750	5.00	.774	.079	-	1.457	DGM-2,3 or 4	CM5x0.8x20-A	P-4
	CTER/L16-2T17	●	●	.669	1.00	1.00	1.00	6.00	1.024	.079	-	1.457		CM5x0.8x25-A	
3	CTER/L12-3T20	●	●	.787	.750	.750	.750	5.00	.762	.118	-	1.516	DGS-2,3 or 4	CM5x0.8x20-A	
	CTER/L16-3T20	●	●	.787	1.00	1.00	1.00	6.00	1.012	.118	-	1.516	SGM-2,3 or 4	CM5x0.8x25-A	
4	CTER/L12-4T25	●	●	.984	.750	.750	.750	5.00	.770	.157	-	1.772	SGS-2,3 or 4	CM6x1x20-A	P-5
	CTER/L16-4T25	●	●	.984	1.00	1.00	1.00	6.00	1.020	.157	-	1.772		CM6x1x25-A	

(1) When depth is deeper than insert length, 1 corner type is recommended.
 (2) "f" value in the above table is calculated with groove width "W" shown in the table.

● : Stocked items

*Insert Selection for Tungcut offers on pages 14-15

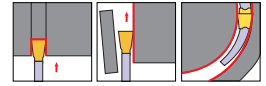
Promo Code - TungCut Inserts & Mono Block Toolholder: GUS07



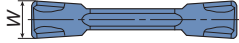
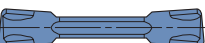



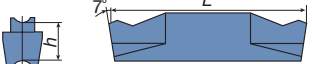






■ Notation of “insert seat size”

Seat size and grooving width are different. The seat size measure is for the specification of the setting insert. Please note this point.

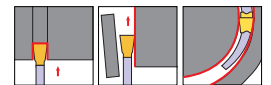
● Tungcut Insert Options






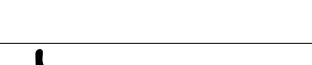





DGM External grooving and parting off, 2 corner

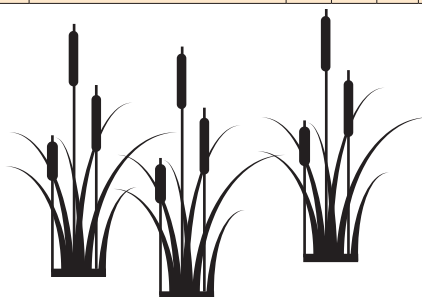
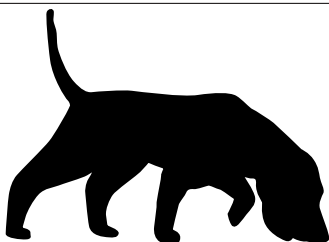
	Insert seat size	Cat. No.	Grades				Dimensions (inch)				
			Coated				$W_{\pm.002}$	r_{ϵ}	L	h	κ
			AH725		GH130						
			R	L	R	L					
Neutral  Left hand  Right hand          	2	DGM2-020	●	●	●	●	.079	.008	.787	.197	-
		DGM2-020-6R/L	●	●	●	●	.079	.008	.787	.197	6°
		DGM2-020-8R/L	●	●	●	●	.079	.008	.787	.197	8°
		DGM2-020-15R/L	●	●	●	●	.079	.008	.787	.197	15°
		DGM2-002-15R/L	●	●	●	●	.079	.0008	.772	.197	15°
	3	DGM3-020	●	●	●	●	.118	.008	.787	.197	-
	DGM3-020-6R/L	●	●	●	●	.118	.008	.787	.197	6°	
	DGM3-002-6R/L	●	●	●	●	.118	.0008	.772	.197	6°	
	DGM3-020-15R/L	●	●	●	●	.118	.008	.787	.197	15°	
	4	DGM4-030	●	●	●	●	.157	.012	.787	.197	-
	DGM4-030-4R/L	●	●	●	●	.157	.012	.787	.197	4°	
	DGM4-030-15R/L	●	●	●	●	.157	.012	.787	.197	15°	

SGM External deep grooving and parting off, 1 corner



	Insert seat size	Cat. No.	Grades				Dimensions (inch)				
			Coated				$W_{\pm.002}$	r_{ϵ}	L	h	κ
			AH725		GH130						
			R	L	R	L					
Neutral  Left hand  Right hand       	2	SGM2-020	●	●	●	●	.079	.008	.787	.197	-
		SGM2-020-6R/L	●	●	●	●	.079	.008	.787	.197	6°
		SGM3-020	●	●	●	●	.118	.008	.787	.197	-
		SGM3-020-6R/L	●	●	●	●	.118	.008	.787	.197	6°
		SGM3-020-15R/L	●	●	●	●	.118	.008	.787	.197	15°
		4	SGM4-030	●	●	●	●	.157	.012	.787	.197
	SGM4-030-4R/L	●	●	●	●	.157	.012	.787	.197	4°	

● : Stocked items

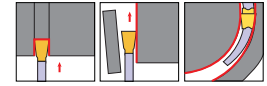


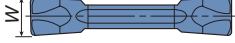
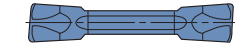

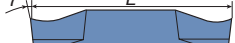

*Insert Selection for Tungcut offers



DGS

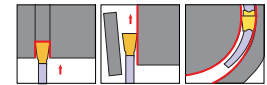
External grooving and parting off, 2 corner

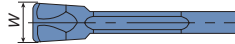
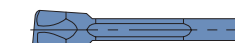



Insert seat size	Cat. No.	Grades Coated				Dimensions (inch)				
		AH725		GH130		$W_{\pm.002}$	r_{ϵ}	L	h	κ
		R	L	R	L					
Neutral 	DGS1.4-016	●		●		.055	.006	.630	.169	-
	DGS2-020	●		●		.079	.008	.787	.197	-
Left hand 	DGS2-020-6R/L	●	●	●	●	.079	.008	.787	.197	6°
	DGS2-002-6R/L	●	●	●	●	.079	.0008	.772	.197	6°
	DGS2-020-15R/L	●	●	●	●	.079	.008	.787	.197	15°
Right hand 	DGS2-002-15R/L	●	●	●	●	.079	.0008	.772	.197	15°
	DGS3-020			●	●	.118	.008	.787	.197	-
	DGS3-020-6R/L	●	●	●	●	.118	.008	.787	.197	6°
Neutral 	DGS3-002-6R/L	●	●	●	●	.118	.0008	.772	.197	6°
	DGS3-020-15R/L	●	●	●	●	.118	.008	.787	.197	15°
	DGS3-002-15R/L	●	●	●	●	.118	.0008	.772	.197	15°
Neutral 	DGS4-030			●	●	.157	.012	.787	.197	-
	DGS4-030-4R/L	●	●	●	●	.157	.012	.787	.197	4°

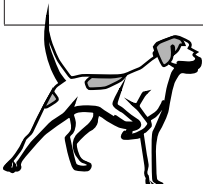
SGS

External deep grooving and parting off, 1 corner

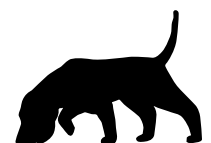


Insert seat size	Cat. No.	Grades Coated				Dimensions (inch)				
		AH725		GH130		$W_{\pm.002}$	r_{ϵ}	L	h	κ
		R	L	R	L					
Neutral 	SGS2-020	●		●		.079	.008	.787	.197	-
	SGS2-020-6R/L	●	●	●	●	.079	.008	.787	.197	6°
	SGS2-020-15R/L	●	●	●	●	.079	.008	.787	.197	15°
Left hand 	SGS3-020			●	●	.118	.008	.787	.197	-
	SGS3-020-6R/L	●	●	●	●	.118	.008	.787	.197	6°
	SGS3-002-6R/L	●	●	●	●	.118	.0008	.780	.197	6°
Right hand 	SGS3-020-15R/L	●	●	●	●	.118	.008	.787	.197	15°
	SGS3-002-15R/L	●	●	●	●	.118	.0008	.787	.197	15°
	SGS4-030			●	●	.157	.012	.787	.197	-

● : Stocked items



*Insert Selection for Tungcut offers



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- Promotional pricing not applicable when ordering online or EDI
- Promo code must be used when ordering
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