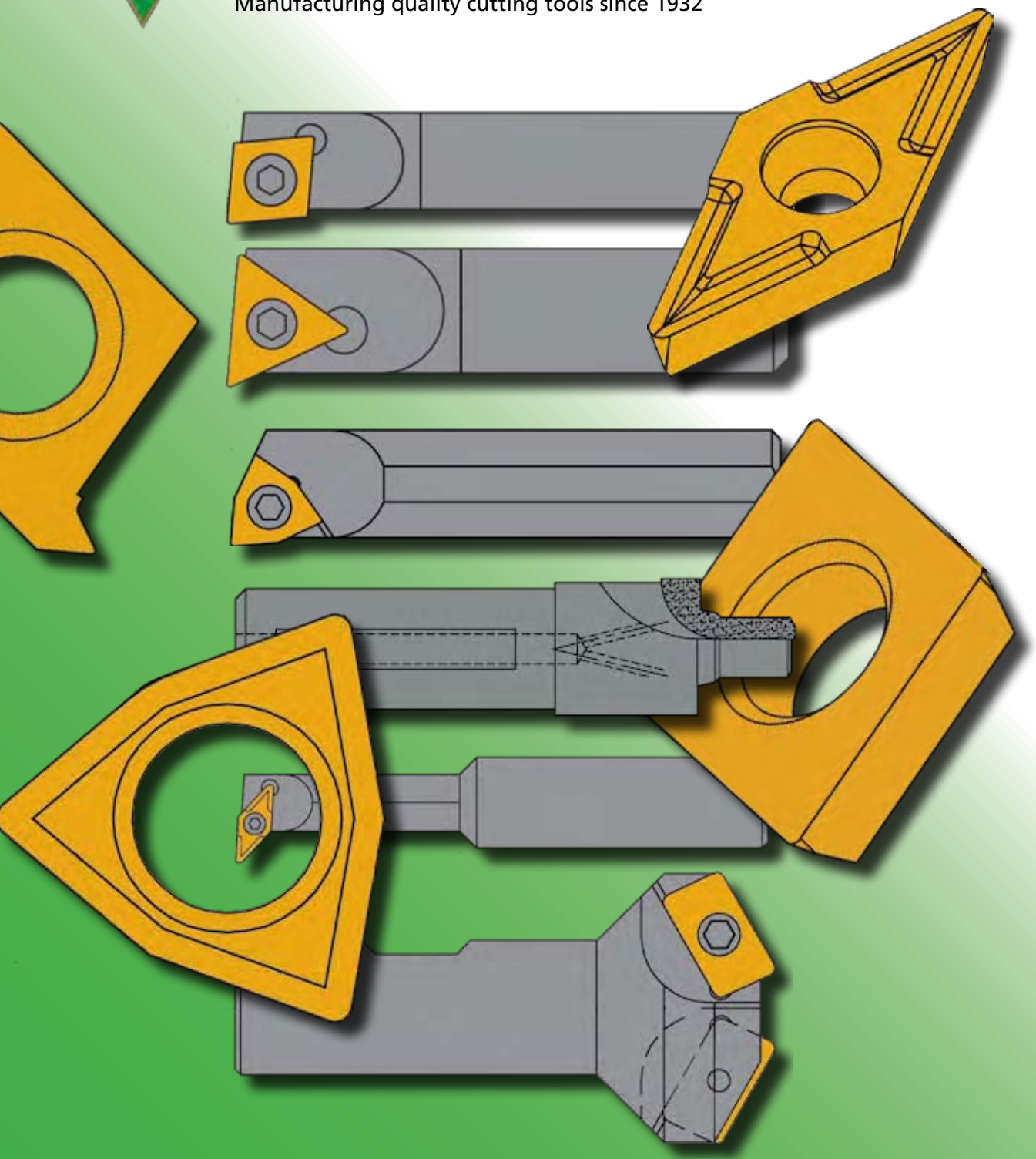
EVEREDE TOOL COMPANY

Manufacturing quality cutting tools since 1932



2010

EVEREDE TOOL CO.

Indexable tooling
since 1932

Nine9®

Indexable spot, engraving,
drilling, and boring tools

Everede Tool Company has been
the exclusive U.S.A. representative
since 2002.

INTREPID TOOL
ITI
INDUSTRIES

Solid carbide tooling

Serving the aerospace
industry since 1994.

Eversinks™ and aircraft tooling once shown
in the Everede product guide are now
in the Intrepid Aero Tool catalog.

THREE UNIQUE PRODUCT LINES AVAILABLE FROM EVEREDE TOOL COMPANY

EVEREDE TOOL CO.

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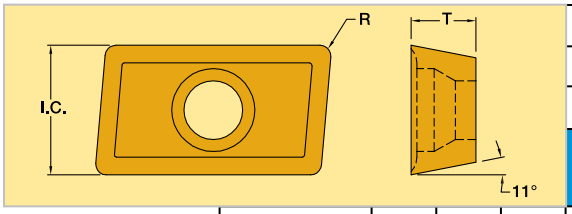
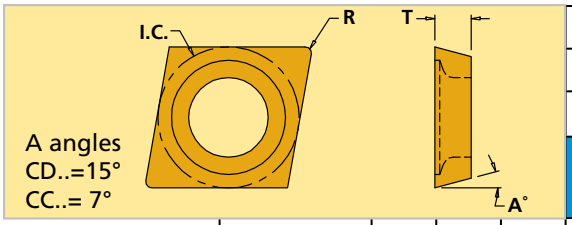
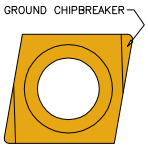


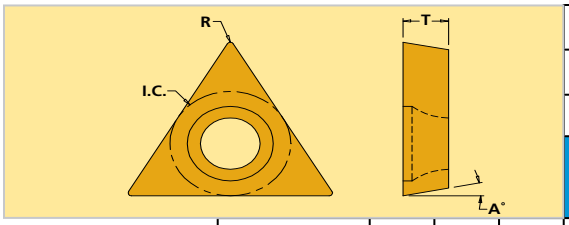
EVEREDE PART NO.	IC	T	R	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	Holder Series
				COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		
				PVD			CVD								PVD			
				TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
				P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
APLT-347	.375	.187	.031		▼	▼	▼			▼		▼						CHM

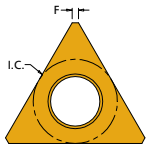
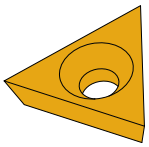
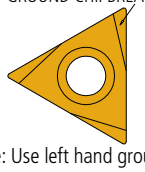
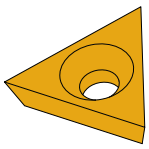
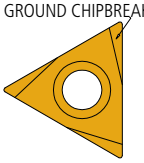
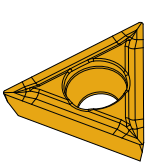
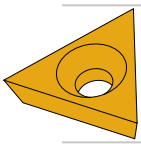




Note: Use left hand ground chipbreaker insert with right hand boring bars. Use right hand ground chipbreaker insert with left hand boring bars.

EVEREDE PART NO.	IC	T	R	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	Holder Series
				COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		
				PVD			CVD								PVD			
				TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
				P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
CDCC-07L	.156	.040	.007	▼	▼	▼		▼	▼		▼	▼	▼	▼				A FL
CDCC-07R	.156	.040	.007	▼	▼	▼		▼	▼		▼	▼	▼	▼				
CDCC-15L	.156	.040	.015	▼	▼	▼		▼	▼		▼	▼	▼	▼				
CDCC-15R	.156	.040	.015	▼	▼	▼		▼	▼		▼	▼	▼	▼				
CDCD-02	.156	.040	.002	▼	▼	▼		▼	▼		▼	▼	▼	▼		▼	▼	A FL
CDCD-07	.156	.040	.007	▼	▼	▼		▼	▼		▼	▼	▼	▼		▼	▼	
CDCD-15	.156	.040	.015	▼	▼	▼		▼	▼		▼	▼	▼	▼		▼	▼	
CDCH-07	.156	.040	.007			▼	▼	▼		▼			▼					A FL
CDCH-15	.156	.040	.015			▼	▼	▼		▼			▼					
CDCT-02T	.156	.050	.002					▼			▼		▼					TH
CCMT-215	.250	.094	.015		▼		▼			▼		▼						CB PC



	EVEREDE PART NO.	IC	T	R	COATED GRADES: PVD TiN	PVD TiN	PVD TiALN	CVD TiN	CVD TiN	UNCOATED GRADES: C8	C5	C3	C2	C1	CERMET: C7	PVD C7	TIPPED		Holder Series
					P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
					CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
 R = F (flat)	TBEB-02F	.160	.047	.002	▼	▼				▼	▼		▼						TH
	TBEB-04F	.250	.094	.004		▼		▼			▼	▼	▼						
	TDAB-02	.160	.047	.002	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼		▼	▼	B RCH FL
	TDAB-07	.160	.047	.007	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼		▼	▼	
	TDAB-15	.160	.047	.015	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼		▼	▼	
	TDAB-31	.160	.047	.031	▼	▼	▼			▼	▼	▼	▼						
GROUND CHIPBREAKER  Note: Use left hand ground chipbreaker insert with right hand boring bars. Use right hand ground chipbreaker insert with left hand boring bars.	TDAC-07L	.160	.047	.007	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼				B RCH FL
	TDAC-07R	.160	.047	.007	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼				
	TDAC-15L	.160	.047	.015	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼				
	TDAC-15R	.160	.047	.015	▼	▼	▼		▼	▼	▼	▼	▼	▼	▼				
	TPGB-202	.250	.094	.002		▼		▼			▼		▼						C FL RCH
	TPGB-207	.250	.094	.007		▼	▼	▼	▼		▼	▼	▼	▼	▼		▼	▼	
	TPGB-215	.250	.094	.015		▼	▼	▼	▼		▼	▼	▼	▼	▼		▼	▼	
	TPGB-231	.250	.094	.031		▼	▼	▼	▼		▼	▼	▼	▼					
GROUND CHIPBREAKER  Note: Use left hand ground chipbreaker insert with right hand boring bars. Use right hand ground chipbreaker insert with left hand boring bars.	TPGC-207L	.250	.094	.007		▼	▼	▼	▼		▼	▼	▼	▼					C FL RCH
	TPGC-207R	.250	.094	.007		▼	▼	▼	▼		▼	▼	▼	▼					
	TPGC-215L	.250	.094	.015		▼	▼	▼	▼		▼	▼	▼	▼					
	TPGC-215R	.250	.094	.015		▼	▼	▼	▼		▼	▼	▼	▼					
	TPGH-202	.250	.094	.002				▼			▼		▼						C FL CB IND RCH PC
	TPGH-207	.250	.094	.007		▼	▼	▼	▼		▼	▼	▼	▼	▼				
	TPGH-215	.250	.094	.015		▼	▼	▼	▼		▼	▼	▼	▼	▼				
	TPGH-231	.250	.094	.031		▼	▼	▼	▼		▼	▼	▼	▼	▼				
	TPGB-307	.375	.125	.007		▼	▼	▼	▼		▼	▼	▼	▼	▼		▼	▼	D FL RCH
	TPGB-315	.375	.125	.015		▼	▼	▼	▼		▼	▼	▼	▼	▼		▼	▼	
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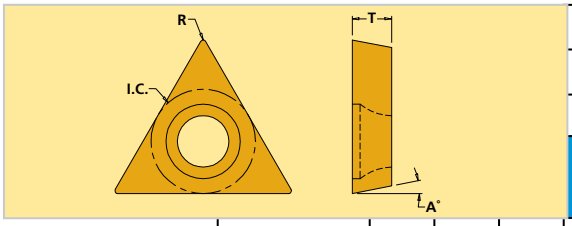
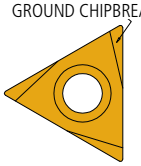
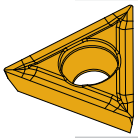


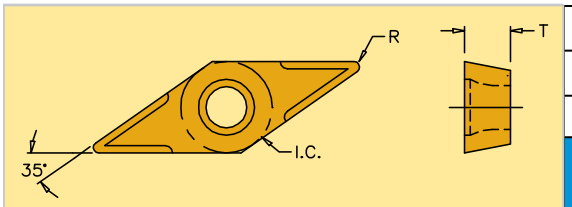
GROUND CHIPBREAKER

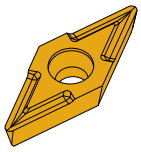


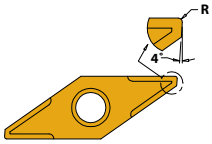
Note: Use left hand ground chipbreaker insert with right hand boring bars. Use right hand ground chipbreaker insert with left hand boring bars.



	COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		Holder Series
	PVD			CVD								PVD			
	TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
	P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
EVEREDE PART NO.	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
TPGC-307L		▼	▼	▼	▼		▼	▼	▼	▼					D FL
TPGC-307R		▼	▼	▼	▼		▼	▼	▼	▼					
TPGC-315L		▼	▼	▼	▼		▼	▼	▼	▼					
TPGC-315R		▼	▼	▼	▼		▼	▼	▼	▼					
TPGH-307											▼				D FL PC RCH
TPGH-315		▼	▼	▼			▼	▼	▼	▼	▼				
TPGH-331		▼	▼	▼			▼	▼	▼	▼					
IC	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	
T	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	
R	.007	.007	.015	.015	.031	.007	.015								

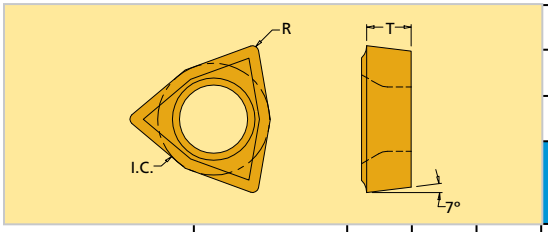


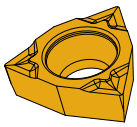
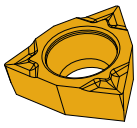
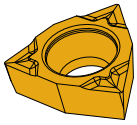
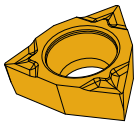


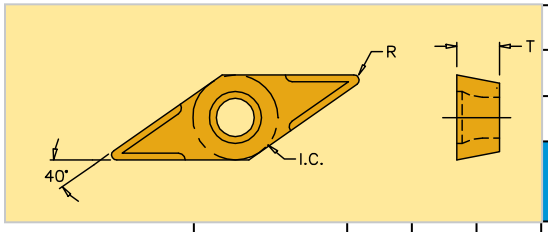


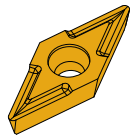
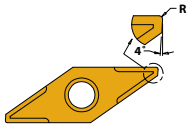
Left hand shown.

	COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		Holder Series
	PVD			CVD								PVD			
	TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
	P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
EVEREDE PART NO.	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
VPGT-207		▼	▼	▼	▼		▼	▼	▼	▼					PB
VPGT-215		▼	▼	▼	▼		▼	▼	▼	▼					
VPGT-202L		▼	▼	▼	▼		▼	▼	▼	▼					PB
VPGH-202R		▼	▼	▼	▼		▼	▼	▼	▼					
VPGH-207L		▼	▼	▼	▼		▼	▼	▼	▼					
VPGH-207R		▼	▼	▼	▼		▼	▼	▼	▼					
VPGH-215L		▼	▼	▼	▼		▼	▼	▼	▼					
VPGH-215R		▼	▼	▼	▼		▼	▼	▼	▼					
IC	.250	.250	.250	.250	.250	.250	.250	.250	.250	.250	.250	.250	.250	.250	
T	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	.125	
R	.007	.015				.002									



	EVEREDE PART NO.	IC	T	R	COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		Holder Series
					PVD			CVD								PVD			
					TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
					P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
					CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
	WCGT-002	.156	.062	.002		▼	▼	▼	▼		▼		▼	▼					E FL
	WCGT-008	.156	.062	.008		▼	▼	▼	▼		▼		▼	▼					
	WCGT-015	.156	.062	.015		▼	▼	▼	▼		▼		▼	▼					
	WCGT-102	.187	.094	.002		▼	▼	▼	▼		▼		▼	▼					F FL
	WCGT-108	.187	.094	.008		▼	▼	▼	▼		▼		▼	▼				▼	
	WCGT-115	.187	.094	.015		▼	▼	▼	▼		▼		▼	▼				▼	
	WCGT-202	.250	.094	.002		▼	▼	▼	▼		▼		▼	▼					G FL PC
	WCGT-208	.250	.094	.008		▼	▼	▼	▼		▼		▼	▼		▼		▼	
	WCGT-215	.250	.094	.015		▼	▼	▼	▼		▼		▼	▼		▼		▼	
	WCGT-308	.375	.156	.008		▼	▼	▼	▼		▼		▼	▼				▼	H FL PC
	WCGT-315	.375	.156	.015		▼	▼	▼	▼		▼		▼	▼				▼	
	WCGT-331	.375	.156	.031		▼	▼	▼	▼		▼		▼	▼				▼	



	EVEREDE PART NO.	IC	T	R	COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		Holder Series
					PVD			CVD								PVD			
					TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
					P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	
					CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
	XPGT-107	.187	.096	.007		▼	▼	▼	▼		▼	▼	▼	▼					PB
	XPGT-115	.187	.096	.015		▼	▼	▼	▼		▼	▼	▼	▼					
	XPGT-102L	.187	.096	.002		▼	▼	▼	▼		▼	▼	▼	▼					PB
	XPGT-102R	.187	.096	.002		▼	▼	▼	▼		▼	▼	▼	▼					
	XPGT-107L	.187	.096	.007		▼	▼	▼	▼		▼	▼	▼	▼					
	XPGT-107R	.187	.096	.007		▼	▼	▼	▼		▼	▼	▼	▼					
	XPGT-115L	.187	.096	.015		▼	▼	▼	▼		▼	▼	▼	▼					
	XPGT-115R	.187	.096	.015		▼	▼	▼	▼		▼	▼	▼	▼					

Left hand shown.

Name	Group	Description	Representative Materials
Steels	1	Free machining & low carbon steels (100-225 BHN)	1008, 1010, 1018, 1020, 10L18, 1108, 1117, 1141, 1151, 11L44, 1200 series, 12L14
	2	Medium & high carbon steel (<35 Rc)	1035, 1040, 1045, 1055, 1080, 1085, 1090, 1525, 1541, 1551, 1561, 1572
	3	Alloy steels (<45 Rc)	1300 series, 200 series, 4012, 4023, 4140, 4320, 4422, 5120, E51100, E52100, 6118, 6150, 7000 series, 8620, 8622, 8640, 8822, E-9310, Cr-Mo alloys
	4	Case or induction hardened steels	Hardened steels >45 Rc
	5	Tool steels (<45 Rc)	SAE classes A (A2 thru A10), D (D2 thru D7), H (H10 thru H42), M (M1 thru M47), O (O1 thru O7), S (S1 thru S7), T (T1 thru T15); wrought high carbon/ low alloy W1, W2, L2, P1, P6
Stainless Steels	6	Austensic - moderate to difficult machinability (135/185 BHN)	200 & 300 series, XM-1, XM-5, XM-7, XM-21, CF-8M
	7	Martensitic - free cutting (180-220 BHN)	400 & 500 series
	8	Wrought precipitation hardened (32-35 Rc)	13-8Mo, 15-5PH, 17-4PH, 17-7PH
Cast Iron	9	Gray cast iron - low to medium hardness	A48 class 20, 25, 30, 35, 40, 45, 50, 55, 60; J431 grade G1800, G3000, G3500, G4000
	10	Nodular cast iron - medium hardness	A439-62, A467-67, A536 60-40-18, 65-45-12, 80-55-06, 100-70-03, J434, D4512
	11a	Hardened cast iron (48-65 Rc)	Chilled cast iron, high-chrome white cast iron
	11b	Pearlitic gray iron	Pearlitic gray iron
High-Temp High-Strength	12	Nickel & iron based superalloys (<48 Rc)	Inconel, Hastelloy, Waspalloy, Astroloy, Rene, Monel
	13	Cobalt based superalloys (<45 Rc)	AiResist 213, Stellite, Haynes 25 (L605), Haynes 188
	14	Titanium based alloys	Ti98.8, Ti99.9; tungsten, tantalum, zirconium
Non-Ferrous Alloys	15	Free machining	Low silicon aluminum 2024-T4, 2014-T6, 6061-T6, 2011-T3; brass, silver, platinum, gold
	16	Non-free machining	High silicon aluminum A380, A390, Duraclan, Amp-co bronze, aluminum castings, aluminum bronze, copper alloys
Non-Metallics	17	Easy to difficult to machine non-metallics	Plastics, graphite, nylon, PVC, Kevlar, “green’ ceramics & carbide

MATERIAL GROUPS
GRADE QUICK REFERENCE

	Material Group	Description	Roughing	Semi-Finish	Finish
Steel	1	Free machining & low carbon steels (100-225 BHN)	CV6	CV6	CV6/CV7
Steel	2	Medium & high carbon steel (<35 Rc)	CV6	CV6	CV6/CV7
Steel	3	Alloy steels (<45 Rc)	CV6	CV6	CV6/CV7
Steel Hardened	4	Case or induction hardened steels	CBN	CBN	CBN
Tool Steel	5	Tool steels (<45 Rc)	MC32	MC32	TL120
Stainless Steel - 200/300 Series	6	Austensic - moderate to difficult machinability (135/185 BHN)	MC32	MC32	CVM2
Stainless Steel - 400/500 PH Series	7	Martensitic - free cutting (180-220 BHN)	TL120	TL120	CVM2
Stainless Steel - 400/500 PH Series	8	Wrought precipitation hard-ened (32-35 Rc)	TL120	TL120	CVM2
Cast Iron - Gray/Nodular	9	Gray cast iron - low to medium hardness	TL120	TL120	TL120
Cast Iron - Gray/Nodular	10	Nodular cast iron - medium hardness	TL120	TL120	TL120
Cast Iron - Hardened	11a	Hardened cast iron (48-65 Rc)	CBN	CBN	CBN
Cast Iron - Pearlitic	11b	Pearlitic gray iron	CBN	CBN	CBN
High-Temp High-Strength Alloys	12	Nickel & iron based superalloys (<48 Rc)	MC32	TL120	TL120
High-Temp High-Strength Alloys	13	Cobalt based superalloys (<45 Rc)	MC32	TL120	TL120
High-Temp High-Strength Alloys	14	Titanium based alloys	MC32	TL120	TL120
Non-Ferrous Alloys	15	Free machining	CS2	CS2	PCD
Non-Ferrous Alloys	16	Non-free machining	CS2	CS2	PCD
Non-Metallics	17	Easy to difficult to machine non-metallics	CS2	CS2	PCD

NOTES

The recommended maximum depth of cut will exceed the desired operating depth of cut in many situations. Some parameters and guidelines are listed below.

- Finishing passes will typically require significantly lighter depths of cut than general purpose or roughing cuts. For example, a finishing pass using a TDAB style insert in aluminum may require reducing the depth of cut to no more than .005”.
- Nose radius needs to be considered in determining maximum depth of cut. For many materials, the depth of cut should not exceed the corner radius when the corner radius is less than .015”. For example, in most grades of stainless steel, the depth of cut should not exceed .007” when using a .007” corner radius insert.
- Ground Chipbreakers are recommended for use with stringy materials, light cuts and applications that require a fine finish.
- The accompanying speed and feed charts are meant to provide an appropriate operating range for an arrayof applications. In roughing applications the recommended speed will be toward the lower end of the range and the feed will be toward the higher end of the range. In finishing applications the recommended speed will be toward the higher end of the range and the feed will be toward the lower end of the range.

APPLICATIONS R = Roughing S = Semi-finishing F = Finishing	COATED GRADES					UNCOATED GRADES					CERMET		TIPPED	
	PVD			CVD								PVD		
	TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7		
	P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10
	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN
Steel	**F**		R	R/S/F		F	S				S/F	S/F		
Steel Hardened											S/F	S/F		**R/S/F**
Tool Steel	F		S/**F**	S	**R/S**					R	S/F	S/F		
Stainless Steel - 200/300 Series		**F**	R/S/F	S	**R/S**					R	S/F	S/F		
Stainless Steel - 400/500 PH Series		**F**	**R/S**	S/F	S					R	S/F	S/F		
Cast Iron - Gray/Nodular			**R/S/F**	S	R/S			F	S	R	S/F	S/F		
Cast Iron - Hardened														**R/S/F**
Cast Iron - Pearlitic														**R/S/F**
High-Temp High-Strength Alloys		F	R/**S/F**		**R**/S			F	S	R				
Non-Ferrous Alloys								S/F	**R/S**/F	R/S			**F**	
Non-Metallics		S/F						S/F	**R/S**				**F**	

***First choice grades shown in boldface type.**

FORMULAS

FOR BORING BARS, use the following formula to determine speeds:

RPM = (3.82 x S) / D
S = cutting speed
D = dia. of bore

FOR CHAMFER MILLS & COUNTERSINKS, use the following formulas to determine speeds & feeds:

RPM = (3.82 x S) / D
Feed IPM = L x T x R
L = chip load per tooth
S = cutting speed
D = working dia. of cutter
T = no. of teeth
R = RPM

FEED AND D.O.C. CHART

INSERT TYPE	FEED	MAX. D.O.C.
APLT	.004/.012*	N/A
CDCD, CDCC, CDCH	.001/.007	.008
CCMT	.004/.012*	N/A
TDAB, TDAC	.001/.004	.007
TPGB-2, TPGC-2	.001/.010	.020
TPGB-3, TPGC-3	.001/.012	.090
TPGH-2	.001/.010	.020

INSERT TYPE	FEED	MAX.D.O.C.
TPGH-2	.005/.015*	N/A
TPGH-3	.001/.012	.090
VPGT	.001/.008	.015
WCGT-0, WCGT-1	.001/.010	.020
WCGT-2, WCGT-3	.001/.010	.100
XPGT	.001/.007	.012

SURFACE FINISH CHART

	INSERT RADIUS			
	.002"	.007"	.015"	.031"
R.M.S.	IPR			
16	.0005"	.001"	.002"	.003"
32	.001"	.002"	.003"	.004"
63		.003"	.005"	.006"
125			.007"	.010"

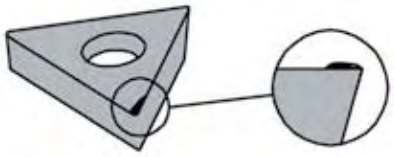
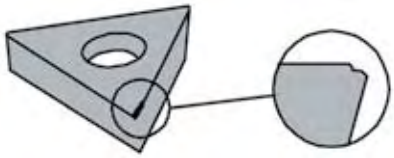
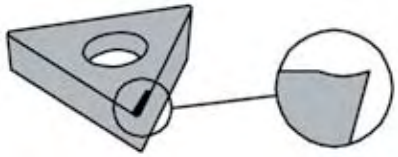
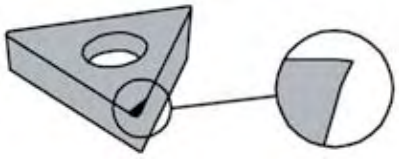
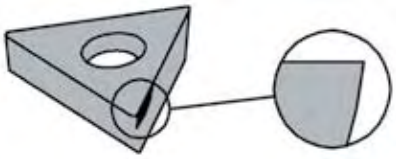
CUTTING DATA
GRADE RECOMMENDATIONS

				Cutting Speeds (SFM)		
Material Group	Description	ISO Code	Grade	Roughing	Semi-finishing	Finishing
1	Free machining & low carbon steels (100-225 BHN)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	400-1000
		P05	CV7	*	*	**500-900**
		K30	TL120	300-600	*	*
		P30	CV6	**300-500**	**350-700**	*
		K30	MC32	*	150-350	*
		P05	CS7	*	*	300-450
		P30	CS6	*	150-350	*
2	Medium & high carbon steel (<35 Rc)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	400-1000
		P05	CV7	*	*	**500-900**
		K30	TL120	300-600	*	*
		P30	CV6	**300-500**	**350-700**	*
		K30	MC32	*	150-350	*
		P05	CS7	*	*	300-450
		P30	CS6	*	150-350	*
3	Alloy steel (<45 Rc)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	400-1000
		P05	CV7	*	*	**500-900**
		K30	TL120	300-600	*	*
		P30	CV6	**300-500**	**350-700**	*
		K30	MC32	*	150-350	*
		P05	CS7	*	*	300-450
		P30	CS6	*	150-350	*
4	Case or induction hardened steels (>45 Rc)	H10	CBN	200-600	200-600	200-600
5	Tool steels (<45 R)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	300-500
		P05	CV7	*	*	400-600
		K30	TL120	*	400-600	**500-700**
		P30	CV6	*	350-450	*
		K30	MC32	**100-250**	**100-250**	*
		K30	MU12	80-50	*	*
6	Austensic - moderate to difficult machinability (135-185 BHN)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	200-500
		K10	CVM2	*	*	**350-500**
		K30	TL120	250-400	300-500	400-800
		P30	CV6	*	300-400	*
		K30	MC32	**150-350**	**150-400**	*
		K30	MU12	100-250	*	*
7	Martensitic - free cutting (180-220 BHN)	P05	CT65	*	600-1000	*
		P05	CT7	*	*	200-500
		K10	CVM2	*	*	**250-500**
		K30	TL120	**250-400**	**300-500**	*
		P30	CV6	*	300-400	350-500
		K30	MC32	*	250-400	*
		K30	MU12	75-150	*	*
8	Wrought precipitation hardened (32-35 Rc)	P05	CT7	*	*	200-500
		K10	CVM2	*	*	**250-500**
		K30	TL120	**250-400**	**300-500**	*
		K30	MC32	*	150-300	150-300
		K30	MU12	75-150	*	*

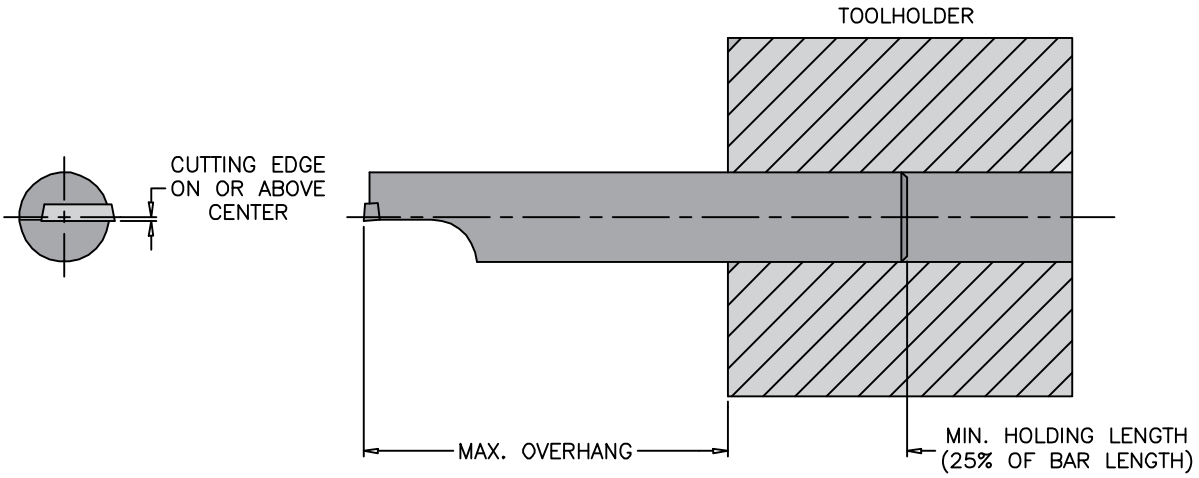
CUTTING DATA
GRADE RECOMMENDATIONS

				Cutting Speeds (SFM)		
Material Group	**Description**	**ISO Code**	**Grade**	**Roughing**	**Semi-finishing**	**Finishing**
9	Gray cast iron - low to medium hardness (160-260 BHN)	P05	CT65	*	500-800	*
		P05	CT7	*	*	250-650
		K30	TL120	**200-800**	**500-1000**	**600-1500**
		P30	CV6	*	300-500	*
		K30	MC32	150-350	250-400	*
		K10	CM2	*	*	250-650
		K20	CS2	*	100-400	*
		K30	MU12	100-200	*	*
10	Nodular cast iron - medium hardness (140-260 BHN)	K10	CVM2	*	*	350-700
		K30	TL120	**200-800**	**400-900**	**500-1100**
		P30	CV6	200-450	350-500	*
		K30	MC32	200-300	200-400	*
11a	Hardened cast iron (48-65 Rc)	H10	CBN	200-600	200-600	200-600
11b	Pearlitic gray iron (200-240 BHN)	H10	CBN	1500-3000	1500-3000	1500-3000
12	Nickel & iron based superalloys (<48 Rc)	K10	CVM2	*	*	100-200
		K30	TL120	75-100	**90-200**	**100-300**
		K30	MC32	**60-80**	70-150	*
		K10	CM2	*	*	100-130
		K20	CS2	*	70-100	*
		K30	MU12	50-65	*	*
13	Cobalt based superalloys (<45 Rc)	K10	CVM2	*	*	100-200
		K30	TL120	75-100	**90-200**	**100-300**
		K30	MC32	**60-80**	70-150	*
		K10	CM2	*	*	100-130
		K20	CS2	*	70-100	*
		K30	MU12	50-65	*	*
14	Titanium based alloys (110-450 BHN)	K10	CVM2	*	*	100-200
		K30	TL120	75-100	**90-200**	**100-300**
		K30	MC32	**60-80**	70-150	*
		K10	CM2	*	*	100-130
		K20	CS2	*	70-100	*
		K30	MU12	50-65	*	*
15	Free machining	N10	PCD	*	*	**1000-10000**
		K10	CM2	*	800-1500	1000-2000
		K20	CS2	**200-800**	**600-1000**	700-1400
		K30	MU12	100-250	100-400	*
16	Non-free machining	N10	PCD	*	*	**1000-10000**
		K10	CM2	*	400-800	1000-2000
		K20	CS2	**200-600**	**400-800**	*
		K30	MU12	100-400	250-400	*
17	Easy to difficult to machine non-metallics	N10	PCD	*	*	**750-1500**
		K10	CVM2	*	500-700	700-900
		K10	CM2	*	500-700	700-900
		K20	CS2	**250-400**	**400-600**	*

Cutting speeds shown in bold-face type represent first choice grade per application for roughing, semi-finish and finishing operations.

CAUSE AND REMEDY			
BUILT-UP EDGE	**DESCRIPTION**	**CAUSE**	**REMEDY**
	Work piece material is welded to the insert	Low Cutting Speed Geometry Lack of lubricity	Increase cutting speed Use more positive/free cutting insert geometry Enhance lubricity via cutting fluid or insert coating
EDGE CHIPPING			
	Chipping at the cutting edge	Grade too brittle Thermal cracking Built-up edge Breakage Nose radius	Use tougher insert grade Increase coolant supply or use not at all Rememdy built-up edge Reduce load on insert Use larger nose radius
CRATER WEAR			
	Wear "crater" on top of insert	Cutting temperature too high Insert grade Geometry	Reduce cutting speed Use Aln coated grade or harder grade of insert Use more positive insert geometry
PLASTIC DEFORMATION			
	Cutting edge is deformed	Cutting temperature too high Insert grade	Reduce cutting speed Use harder grade of insert
FLANK WEAR			
	Cutting edge flank worn	Slow feed Excessive speed Insert grade Clearance	Increase feed Reduce speed Use harder grade or more suitable coated grade Verify insert clearance and increase if necessary
	Poor part surface finish	Nose radius Over feed Material tearing Cutting parameters	Increase insert nose radius Reduce feed rate Use more positive geometry or increase speed Verify correct cutting parameters

BAR SET-UP CONDITIONS



BAR MATERIAL	MAX. OVERHANG
Steel	4 x Bar Dia.
Heavy Metal	7 x Bar Dia.
Carbide	10 x Bar Dia.

CARBIDE GRADE CROSS REFERENCE

CARBIDE GRADE	EVEREDE	CIRCLE	KAISER	KENNAMETAL	MITSUBISHI	EMPIRE
C1	MU12	CM1		K1		
C2	CS2	C25		K6	HTi20T	
C2/C3	CM2	C3	D5	K68/K313		E3
C5/C6	CS6	C50	D3	K420	UTi20T	
C7	CS7	C70		K45		
C7/C8	CT7	TN7		KT125/KT150	AP25N	ET6/ET8
C1	TL120	ALO		KC935	UE6020	AL203
C1	MC32	CG5		KC250	US735	
C2/C3	CVM2		D5C	KC730	UP10H	EC30
C5/C6	CV6	CG6	D3C	KC850	UE6005	EG5
C7	CV7			KC740		
	PCD	CPD1	D8	KD100	MD220/MD205	
6000	CBN	CBN6	D9	KD120/KD081	MB820/MB810	
8200	CBNS	CBN1		KD120/KD081	MB710/MB730	

Ordering Information

SERIES A - H

C	A	1	2	1	5	L	C	H	-	FØ
1.	2.					3.	4.			5.

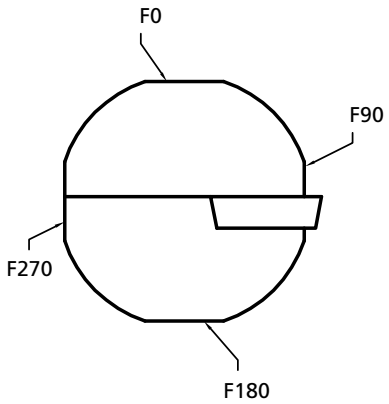
1. S = Steel
   C = Carbide
   H = Heavy Metal

2. A Series uses CD.. type inserts
   B Series uses TD.. type inserts
   C Series uses TP..2 type inserts
   D Series uses TP..3 type inserts
   E Series uses WCGT0
   F Series uses WCGT1
   G Series uses WCGT2
   H Series uses WCGT3

3. Add L to part number for left hand bar.

4. Add CH to part number for coolant hole. Coolant hole is available in all carbide bars and steel bars beginning at 3/8". Heavy metal bars are available with coolant hole as Special Only. Oversize shank carbide bars are NOT available with coolant hole.

5. Straight shank boring bars in **Series A through D** may be used in collet holders and do not have flats. Flats may be ordered using the following identification*:



Front view of bar.

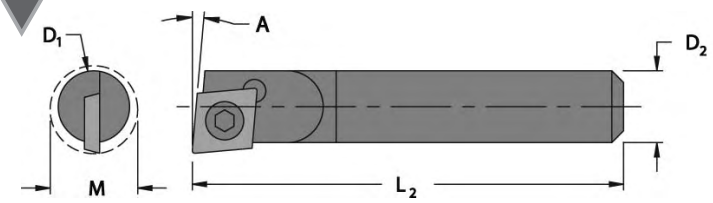
* Multiple flats may be ordered by combining identifications (e.g., F0F180).

NOTE: Use LEFT hand ground chipbreaker insert with RIGHT hand boring bars.
Use RIGHT hand ground chipbreaker insert with LEFT hand boring bars.

STANDARD METRIC SHANK BORING BARS ARE AVAILABLE.

SERIES A

MINIMUM BORE
0.180 TO 0.356"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series A)

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
SA1000*	7	.165	.187	.180	2.500	CDCD or CDCC or CDCH
SA1005	5	.180	.187	.208	2.500	
SA1010	5	.187	.187	.230	2.500	
SA1015	0	.187	.187	.244	2.500	
SA1100	5	.250	.250	.290	3.000	
SA1105	0	.250	.250	.300	3.000	See Inserts page 2

* Bar Dia length is .500

CARBIDE SHANKS (Series A) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
CA1200	7	.165	.156	.180	4.000	CDCD or CDCC or CDCH
CA1205	5	.180	.187	.208	4.000	
CA1210	5	.180	.187	.208	6.000	
CA1215	5	.187	.187	.230	4.000	
CA1220	0	.187	.187	.244	4.000	
CA1225	5	.187	.187	.230	6.000	
CA1230	0	.187	.187	.244	6.000	
CA1300	5	.250	.250	.290	4.000	
CA1305	0	.250	.250	.300	4.000	
CA1310	5	.250	.250	.290	6.000	
CA1315	0	.250	.250	.300	6.000	
CA1330	5	.312	.312	.356	6.000	
CA1335	0	.312	.312	.356	6.000	See Inserts page 2

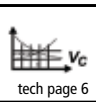
HEAVY METAL SHANKS (Series A) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
HA1205	5	.180	.187	.208	4.000	CDCD or CDCC or CDCH
HA1215	5	.187	.187	.230	4.000	
HA1220	0	.187	.187	.244	4.000	
HA1300	5	.250	.250	.290	4.000	
HA1305	0	.250	.250	.300	4.000	
HA1310	5	.250	.250	.290	6.000	
HA1315	0	.250	.250	.300	6.000	See Inserts page 2

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19501


wrench # 19551

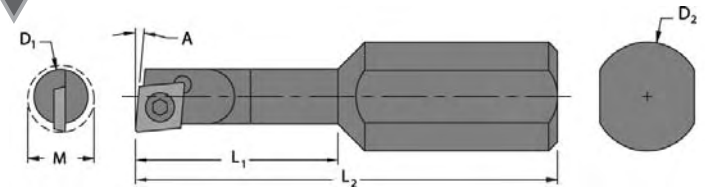


tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES A

MINIMUM BORE
0.208 TO 0.300"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series A)

EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
SA1400	5	.180	.375	.208	0.500	2.250	CDCD or CDCC or CDCH
SA1405	5	.180	.375	.208	1.000	2.250	
SA1410	5	.203	.375	.230	0.500	2.250	
SA1415	0	.203	.375	.244	0.500	2.250	
SA1420	5	.203	.375	.230	1.000	2.250	
SA1425	0	.203	.375	.244	1.000	2.250	
SA1430	5	.250	.375	.290	0.750	2.500	
SA1435	0	.250	.375	.300	0.750	2.500	
SA1440	5	.250	.375	.290	1.250	2.500	
SA1445	0	.250	.375	.300	1.250	2.500	
SA1600	5	.180	.500	.208	0.500	2.500	
SA1605	5	.180	.500	.208	1.000	2.500	
SA1610	5	.203	.500	.230	0.500	2.500	
SA1615	0	.203	.500	.244	0.500	2.500	
SA1620	5	.203	.500	.230	1.000	2.500	
SA1625	0	.203	.500	.244	1.000	2.500	
SA1630	5	.250	.500	.290	0.750	2.750	
SA1635	0	.250	.500	.300	0.750	2.750	
SA1640	5	.250	.500	.290	1.250	2.750	
SA1645	0	.250	.500	.300	1.250	2.750	See Inserts page 2

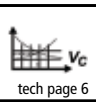
CARBIDE BARS (Series A) with Alloy Steel Head and Shank

EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
CA1700	5	.180	.500	.208	0.875	2.375	CDCD or CDCC or CDCH
CA1705	5	.180	.500	.208	1.875	3.375	
CA1710	5	.203	.500	.230	1.000	2.500	
CA1715	0	.203	.500	.244	1.000	2.500	
CA1720	5	.203	.500	.230	2.000	3.500	
CA1725	0	.203	.500	.244	2.000	3.500	
CA1730	5	.250	.500	.290	1.250	2.750	
CA1735	0	.250	.500	.300	1.250	2.750	
CA1740	5	.250	.500	.290	2.500	4.000	
CA1745	0	.250	.500	.300	2.500	4.000	See Inserts page 2

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19501

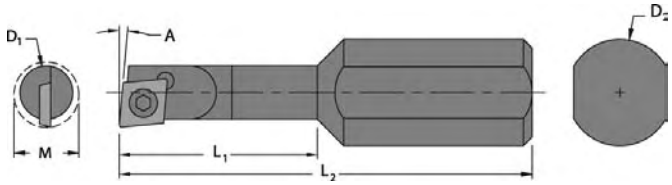

wrench # 19551



tech page 6

- Oversize shank carbide bars are NOT available with coolant hole.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES A
MINIMUM BORE
0.208 TO 0.300"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder

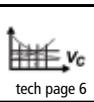
CARBIDE BARS (Series A) with Alloy Steel Head and Shank

EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
CA1500	5	.180	.625	.208	0.875	3.875	CDCD or CDCC or CDCH
CA1505	5	.180	.625	.208	1.875	4.875	
CA1510	5	.203	.625	.230	1.000	4.000	
CA1515	0	.203	.625	.244	1.000	4.000	
CA1520	5	.203	.625	.230	2.000	5.000	
CA1525	0	.203	.625	.244	2.000	5.000	
CA1530	5	.250	.625	.290	1.250	4.000	
CA1535	0	.250	.625	.300	1.250	4.000	
CA1540	5	.250	.625	.290	2.500	5.250	
CA1545	0	.250	.625	.300	2.500	5.250	See Inserts page 2

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19501


wrench # 19551

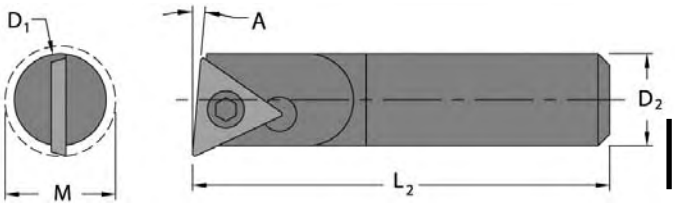


tech page 6

- Oversize shank carbide bars are NOT available with coolant hole.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES B

MINIMUM BORE
0.270 TO 0.360"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series B)

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
SB1800	5	.187	.187	.270	3.500	TDAB or TDAC
SB1805	0	.187	.187	.270	3.500	
SB2000	5	.250	.250	.300	4.000	
SB2005	0	.250	.250	.300	4.000	
SB2100	5	.312	.312	.360	4.000	
SB2105	0	.312	.312	.360	4.000	See Inserts page 3

CARBIDE SHANKS (Series B) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
CB1900	5	.187	.187	.270	4.000	TDAB or TDAC
CB1905	0	.187	.187	.270	4.000	
CB1910	5	.187	.187	.270	6.000	
CB1915	0	.187	.187	.270	6.000	
CB2200	5	.250	.250	.300	4.000	
CB2205	0	.250	.250	.300	4.000	
CB2210	5	.250	.250	.300	6.000	
CB2215	0	.250	.250	.300	6.000	
CB2300	5	.312	.312	.360	4.000	
CB1305	0	.312	.312	.360	4.000	
CB2310	5	.312	.312	.360	6.000	
CB2315	0	.312	.312	.360	6.000	See Inserts page 3

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.

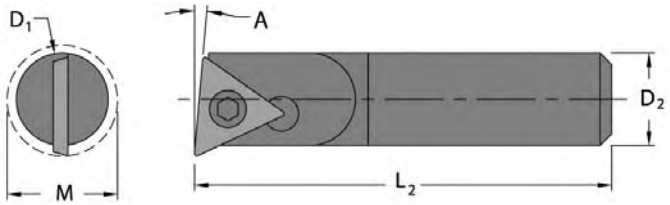

screw # 19503


wrench # 19552

tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES B
MINIMUM BORE
0.270 TO 0.360"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

HEAVY METAL SHANKS (Series B) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
HB1900	5	.187	.187	.270	4.000	TDAB or TDAC
HB1905	0	.187	.187	.270	4.000	
HB1910	5	.187	.187	.270	6.000	
HB1915	0	.187	.187	.270	6.000	
HB2200	5	.250	.250	.300	4.000	
HB2205	0	.250	.250	.300	4.000	
HB2210	5	.250	.250	.300	6.000	
HB2215	0	.250	.250	.300	6.000	
HB2300	5	.312	.312	.360	4.000	
HB2305	0	.312	.312	.360	4.000	
HB2310	5	.312	.312	.360	6.000	
HB2315	0	.312	.312	.360	6.000	

See Inserts page 3

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19503

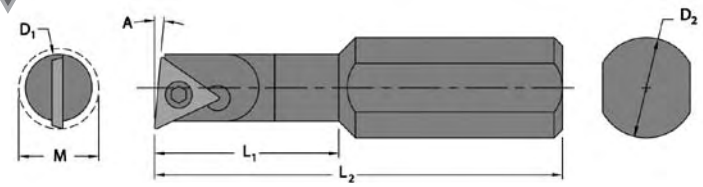

wrench # 19552

tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES B

MINIMUM BORE
0.270 TO 0.360"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

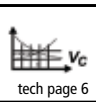
ALLOY STEEL SHANKS (Series B)

EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
SB2400	5	.203	.500	.270	.500	2.500	
SB2405	0	.203	.500	.270	.500	2.500	
SB2410	5	.203	.500	.270	1.000	2.500	
SB2415	0	.203	.500	.270	1.000	2.500	
SB2420	5	.250	.500	.300	.750	2.750	
SB2425	0	.250	.500	.300	.750	2.750	
SB2430	5	.250	.500	.300	1.250	2.750	
SB2435	0	.250	.500	.300	1.250	2.750	
SB2440	5	.312	.500	.360	1.000	3.000	
SB2445	0	.312	.500	.360	1.000	3.000	
SB2450	5	.312	.500	.360	1.500	3.000	
SB2455	0	.312	.500	.360	1.500	3.000	TDAB or TDAC
SB2500	5	.203	.625	.270	.500	4.000	
SB2505	0	.203	.625	.270	.500	4.000	
SB2510	5	.203	.625	.270	1.000	4.000	
SB2515	0	.203	.625	.270	1.000	4.000	
SB2520	5	.250	.625	.300	.750	4.000	
SB2525	0	.250	.625	.300	.750	4.000	
SB2530	5	.250	.625	.300	1.250	4.000	
SB2535	0	.250	.625	.300	1.250	4.000	
SB2540	5	.312	.625	.360	1.000	4.000	
SB2545	0	.312	.625	.360	1.000	4.000	
SB2550	5	.312	.625	.360	1.500	4.000	
SB2555	0	.312	.625	.360	1.500	4.000	See Inserts page 3

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19503

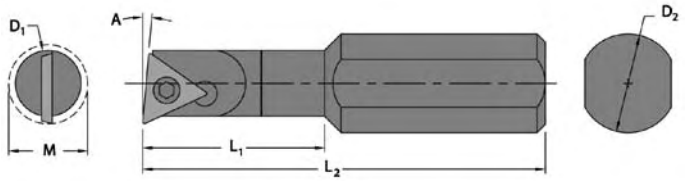

wrench # 19552



tech page 6

- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES B
MINIMUM BORE
0.270 TO 0.360"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

CARBIDE BARS (Series B) with Alloy Steel Head and Shank

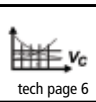
EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
CB2460	5	.203	.500	.270	1.000	2.500	TDAB or TDAC
CB2461	0	.203	.500	.270	1.000	2.500	
CB2462	5	.203	.500	.270	2.000	3.500	
CB2463	0	.203	.500	.270	2.000	3.500	
CB2464	5	.250	.500	.300	1.250	2.750	
CB2466	0	.250	.500	.300	1.250	2.750	
CB2465	5	.250	.500	.300	2.500	4.000	
CB2467	0	.250	.500	.300	2.500	4.000	
CB2468	5	.312	.500	.360	1.500	3.000	
CB2469	0	.312	.500	.360	1.500	3.000	
CB2470	5	.312	.500	.360	3.125	4.625	
CB2471	0	.312	.500	.360	3.125	4.625	
CB2600	5	.203	.625	.270	1.000	4.000	
CB2605	0	.203	.625	.270	1.000	4.000	
CB2610	5	.203	.625	.270	2.000	5.000	
CB2615	0	.203	.625	.270	2.000	5.000	
CB2620	5	.250	.625	.300	1.250	4.000	
CB2625	0	.250	.625	.300	1.250	4.000	
CB2630	5	.250	.625	.300	2.500	5.250	
CB2635	0	.250	.625	.300	2.500	5.250	
CB2640	5	.312	.625	.360	1.500	4.000	
CB2645	0	.312	.625	.360	1.500	4.000	
CB2650	5	.312	.625	.360	3.125	5.625	
CB2655	0	.312	.625	.360	3.125	5.625	

See Inserts page 3

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19503


wrench # 19552

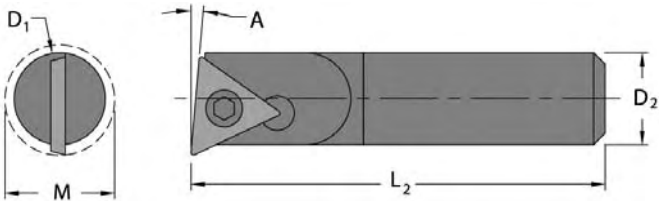


tech page 6

- Oversize shank carbide bars are NOT available with coolant hole.
- See "BORING BAR ORDERING INFORMATION" pg 13 for details.

SERIES C

MINIMUM BORE
0.438 TO 0.563"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series C)

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
SC2700	5°	.375	.375	.438	5.000	TPGB-2 or TPGH-2 or TPGC-2
SC2705	0°	.375	.375	.438	5.000	
SC2800	5°	.500	.500	.563	6.000	
SC2805	0°	.500	.500	.563	6.000	

See Inserts page 3

CARBIDE SHANKS (Series C) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
CC2900	5°	.375	.375	.438	6.000	TPGB-2 or TPGH-2 or TPGC-2
CC2905	0°	.375	.375	.438	6.000	
CC2910	5°	.375	.375	.438	10.000	
CC2915	0°	.375	.375	.438	10.000	
CC3000	5°	.500	.500	.563	8.000	
CC3005	0°	.500	.500	.563	8.000	
CC3010	5°	.500	.500	.563	10.000	
CC3015	0°	.500	.500	.563	10.000	

See Inserts page 3

HEAVY METAL SHANKS (Series C) with Alloy Steel Head

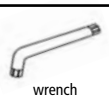
EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
HC2900	5°	.375	.375	.438	6.000	TPGB-2 or TPGH-2 or TPGC-2
HC2905	0°	.375	.375	.438	6.000	
HC2910	5°	.375	.375	.438	10.000	
HC2915	0°	.375	.375	.438	10.000	
HC3000	5°	.500	.500	.563	6.000	
HC3005	0°	.500	.500	.563	6.000	
HC3010	5°	.500	.500	.563	10.000	
HC3015	0°	.500	.500	.563	10.000	

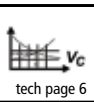
See Inserts page 3

See hardware page 44.

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw

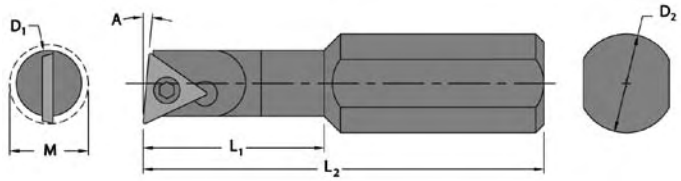

wrench



tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES C
MINIMUM BORE
0.438 TO 0.688"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series C)

EVEREDE PART NUMBER	A	D1	D2	M	L1	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	BAR LENGTH	OAL	INSERTS
SC3020	5°	.375	.500	.438	1.125	4.000	TPGB-2 or TPGH-2 or TPGC-2
SC3025	0°	.375	.500	.438	1.125	4.000	
SC3030	5°	.375	.500	.438	1.875	4.000	
SC3035	0°	.375	.500	.438	1.875	4.000	
SC3040	5°	.375	.625	.438	1.125	3.750	
SC3045	0°	.375	.625	.438	1.125	3.750	
SC3050	5°	.375	.625	.438	1.875	3.750	
SC3055	0°	.375	.625	.438	1.875	3.750	
SC3060	5°	.500	.625	.563	1.500	4.250	
SC3065	0°	.500	.625	.563	1.500	4.250	
SC3070	5°	.500	.625	.563	2.500	4.250	
SC3075	0°	.500	.625	.563	2.500	4.250	
SC3080	5°	.375	.750	.438	1.500	4.000	
SC3085	0°	.375	.750	.438	1.500	4.000	
SC3090	5°	.625	.750	.688	2.500	4.500	
SC3095	0°	.625	.750	.688	2.500	4.500	

See Inserts page 3

See hardware page 44.

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw

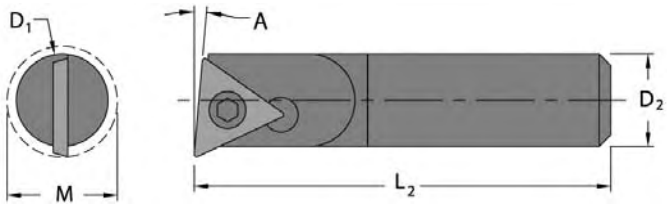

wrench

tech page 6

- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES D

MINIMUM BORE
0.625 TO 1.344"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

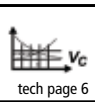
ALLOY STEEL SHANKS (Series D)

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
SD3100	5	.500	.500	.625	2.500	TPGB-3 or TPGH-3 or TPGC-3
SD3105	0	.500	.500	.625	2.500	
SD3400	5	.500	.500	.625	6.000	
SD3405	0	.500	.500	.625	6.000	
SD3110	5	.625	.625	.719	4.000	
SD3115	0	.625	.625	.719	4.000	
SD3500	5	.625	.625	.719	7.000	
SD3505	0	.625	.625	.719	7.000	
SD3200	5	.750	.750	.844	4.000	
SD3205	0	.750	.750	.844	4.000	
SD3600	5	.750	.750	.844	8.000	
SD3605	0	.750	.750	.844	8.000	
SD3300	5	1.000	1.000	1.094	5.000	
SD3305	0	1.000	1.000	1.094	5.000	
SD3700	5	1.000	1.000	1.094	10.000	
SD3705	0	1.000	1.000	1.094	10.000	
SD3800	5	1.250	1.250	1.344	12.000	
SD3805	0	1.250	1.250	1.344	12.000	See Inserts page 3 & 4

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19507


wrench # 19554

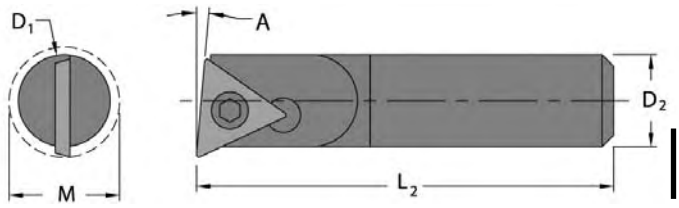


tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES D

MINIMUM BORE
0.719 TO 1.094"



All bars have 5° positive axial rake.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

CARBIDE SHANKS (Series D) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
CD3900	5	.625	.625	.719	6.000	TPGB-3 or TPGH-3 or TPGC-3
CD3905	0	.625	.625	.719	6.000	
CD3910	5	.625	.625	.719	10.000	
CD3915	0	.625	.625	.719	10.000	
CD4000	5	.750	.750	.844	6.000	
CD4005	0	.750	.750	.844	6.000	
CD4010	5	.750	.750	.844	10.000	
CD4015	0	.750	.750	.844	10.000	
CD4100	5	1.000	1.000	1.094	6.000	
CD4105	0	1.000	1.000	1.094	6.000	
CD4110	5	1.000	1.000	1.094	12.000	
CD4115	0	1.000	1.000	1.094	12.000	See Inserts page 3 & 4

HEAVY METAL SHANKS (Series D) with Alloy Steel Head

EVEREDE PART NUMBER	A	D1	D2	M	L2	
	ANGLE	BAR DIA	SHANK DIA	MIN BORE	OAL	INSERTS
HD3900	5	.625	.625	.719	6.000	TPGB-3 or TPGH-3 or TPGC-3
HD3905	0	.625	.625	.719	6.000	
HD3910	5	.625	.625	.719	10.000	
HD3915	0	.625	.625	.719	10.000	
HD4000	5	.750	.750	.844	6.000	
HD4005	0	.750	.750	.844	6.000	
HD4010	5	.750	.750	.844	10.000	
HD4015	0	.750	.750	.844	10.000	
HD4100	5	1.000	1.000	1.094	6.000	
HD4105	0	1.000	1.000	1.094	6.000	
HD4110	5	1.000	1.000	1.094	12.000	
HD4115	0	1.000	1.000	1.094	12.000	See Inserts page 3 & 4

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19507

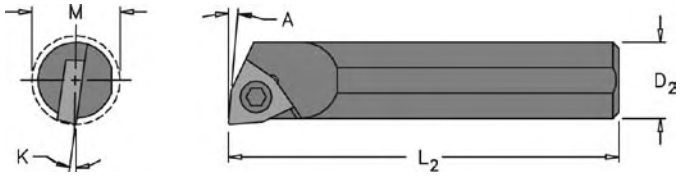

wrench # 19554

tech page 6

- All bars can be ordered with flats.
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES E

MINIMUM BORE
0.230 TO 0.563"



Bars come with flat as shown.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series E)

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
SE5010	5°	20°	.187	.230	2.500	WCGT-0
SE5015	0°	20°	.187	.244	2.500	
SE6000	5°	17°	.250	.300	4.000	
SE6005	0°	17°	.250	.300	4.000	See Inserts page 5

SOLID CARBIDE (Series E) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
CE5215	5°	20°	.187	.230	4.000	WCGT-0
CE5220	0°	20°	.187	.244	4.000	
CE5225	5°	20°	.187	.230	6.000	
CE5230	0°	20°	.187	.244	6.000	
CE5300	5°	17°	.250	.290	4.000	
CE5305	0°	17°	.250	.300	4.000	
CE5310	5°	17°	.250	.290	6.000	
CE5315	0°	17°	.250	.300	6.000	See Inserts page 5

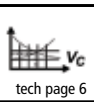
HEAVY METAL SHANKS (Series E) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
HE5215	5°	20°	.187	.230	4.000	WCGT-0
HE5220	0°	20°	.187	.244	4.000	
HE5300	5°	17°	.250	.290	4.000	
HE5305	0°	17°	.250	.300	4.000	
HE5310	5°	17°	.250	.290	6.000	
HE5315	0°	17°	.250	.300	6.000	See Inserts page 5

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19040


wrench # 19551

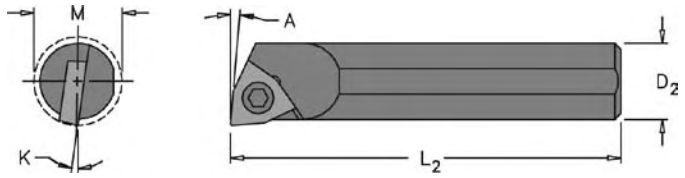


tech page 6

- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES F

MINIMUM BORE
0.360"



Bars come with flat as shown.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series F)

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
SF6100	5°	17°	.312	.360	4.000	WCGT-1 See Inserts page 5
SF6105	0°	17°	.312	.360	4.000	

SOLID CARBIDE (Series F) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
CF6300	5°	17°	.312	.360	4.000	WCGT-1 See Inserts page 5
CF6305	0°	17°	.312	.360	4.000	
CF6310	5°	17°	.312	.360	6.000	
CF6315	0°	17°	.312	.360	6.000	

HEAVY METAL SHANKS (Series F) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
HF6300	5°	17°	.312	.360	4.000	WCGT-1 See Inserts page 5
HF6305	0°	17°	.312	.360	4.000	
HF6310	5°	17°	.312	.360	6.000	
HF6315	0°	17°	.312	.360	6.000	

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19041

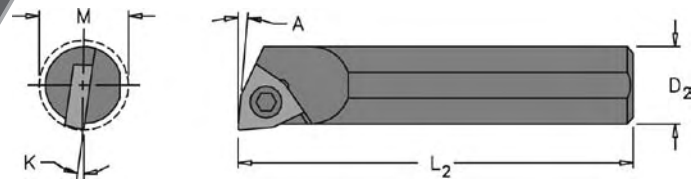

wrench # 19551

tech page 6

- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES G

MINIMUM BORE
0.438 TO 0.563"



Bars come with flat as shown.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series G)

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
SG6700	5°	12°	.375	.438	5.000	WCGT-2
SG6705	0°	12°	.375	.438	5.000	
SG6800	5°	10°	.500	.563	6.000	
SG6805	0°	10°	.500	.563	6.000	See Inserts page 5

CARBIDE SHANKS (Series G) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
CG6900	5°	12°	.375	.438	6.000	WCGT-2
CG6905	0°	12°	.375	.438	6.000	
CG6910	5°	12°	.375	.438	10.000	
CG6915	0°	12°	.375	.438	10.000	
CG7000	5°	10°	.500	.563	6.000	
CG7005	0°	10°	.500	.563	6.000	
CG7010	5°	10°	.500	.563	10.000	
CG7015	0°	10°	.500	.563	10.000	See Inserts page 5

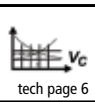
HEAVY METAL SHANKS (Series G) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
HG6900	5°	12°	.375	0.438	6.000	WCGT-2
HG6905	0°	12°	.375	0.438	6.000	
HG6910	5°	12°	.375	0.438	10.000	
HG6915	0°	12°	.375	0.438	10.000	
HG7000	5°	10°	.500	0.563	6.000	
HG7005	0°	10°	.500	0.563	6.000	
HG7010	5°	10°	.500	0.563	10.000	See Inserts page 5
HG7015	0°	10°	.500	0.563	10.000	

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19035


wrench # 19552



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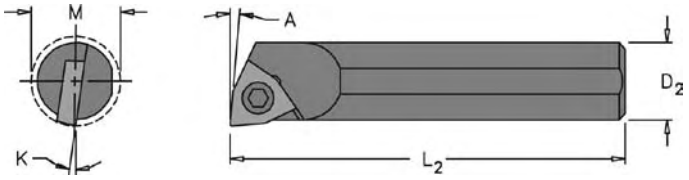
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES H

MINIMUM BORE
0.625 TO 1.094"



Bars come with flat as shown.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

ALLOY STEEL SHANKS (Series H)

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	BAR DIA	MIN BORE	OAL	INSERTS
SH7100	5°	14°	.500	.625	2.500	WCGT-3
SH7105	0°	14°	.500	.625	2.500	
SH7400	5°	14°	.500	.625	6.000	
SH7405	0°	14°	.500	.625	6.000	
SH7110	5°	12°	.625	.719	4.000	
SH7115	0°	12°	.625	.719	4.000	
SH7500	5°	12°	.625	.719	7.000	
SH7505	0°	12°	.625	.719	7.000	
SH7200	5°	10°	.750	.844	4.000	
SH7205	0°	10°	.750	.844	4.000	
SH7600	5°	10°	.750	.844	8.000	
SH7605	0°	10°	.750	.844	8.000	
SH7300	5°	8°	1.000	1.094	5.000	
SH7305	0°	8°	1.000	1.094	5.000	
SH7700	5°	8°	1.000	1.094	10.000	
SH7705	0°	8°	1.000	1.094	10.000	
SH7800	5°	6°	1.250	1.344	12.000	
SH7805	0°	6°	1.250	1.344	12.000	See Inserts page 5

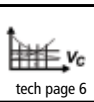
CARBIDE SHANKS (Series H) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
CH7900	5°	12°	.625	.719	6.000	WCGT-3
CH7905	0°	12°	.625	.719	6.000	
CH7910	5°	12°	.625	.719	10.000	
CH7915	0°	12°	.625	.719	10.000	
CH8000	5°	10°	.750	.844	6.000	
CH8005	0°	10°	.750	.844	6.000	
CH8010	5°	10°	.750	.844	10.000	
CH8015	0°	10°	.750	.844	10.000	
CH8100	5°	8°	1.000	1.094	6.000	
CH8105	0°	8°	1.000	1.094	6.000	
CH8110	5°	8°	1.000	1.094	12.000	
CH8115	0°	8°	1.000	1.094	12.000	See Inserts page 5

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19043


wrench # 19555



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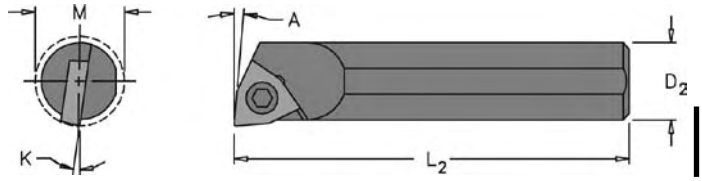
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SERIES H
MINIMUM BORE
0.719 TO 1.094"



Bars come with flat as shown.
5° angle bars for facing and through hole boring.
0° angle for through hole boring and boring to shoulder.

HEAVY METAL SHANKS (Series H) with Alloy Steel Head

EVEREDE PART NUMBER	A	K	D2	M	L2	
	ANGLE	ANGLE	SHANK DIA	MIN BORE	OAL	INSERTS
HH7900	5°	12°	.625	0.719	6.000	WCGT-3
HH7905	0°	12°	.625	0.719	6.000	
HH7910	5°	12°	.625	0.719	10.000	
HH7915	0°	12°	.625	0.719	10.000	
HH8000	5°	10°	.750	0.844	6.000	
HH8005	0°	10°	.750	0.844	6.000	
HH8010	5°	10°	.750	0.844	10.000	
HH8015	0°	10°	.750	0.844	10.000	
HH8100	5°	8°	1.000	1.094	6.000	
HH8105	0°	8°	1.000	1.094	6.000	
HH8110	5°	8°	1.000	1.094	12.000	
HH8115	0°	8°	1.000	1.094	12.000	See Inserts page 5

- Most bars are available left handed. Please add letter "L" after part number.
- Most bars are available coolant thru. Please add letter "CH" after part number.


screw # 19043


wrench # 19555

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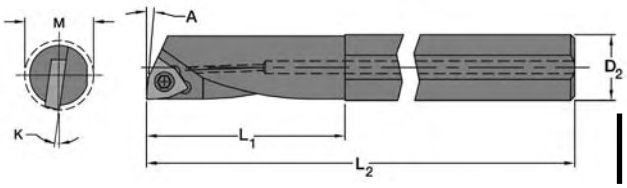
- See "BORING BAR ORDERING INFORMATION" pg. 13 for details.

SPIRAL FLUTED
SERIES FL
MINIMUM BORE
0.220 TO 1.000"



Closely related min bore/bar diameter.
Enhanced chip evacuation.
Better rigidity. Better tool life.
Coolant through standard.

SOLID HEAVY METAL SHANKS (Series FL)

EVEREDE PART NUMBER	A/K	D1	D2	M	L1	L2	
	LEAD	BAR DIA	SHANK	MIN BORE	FLUTE LENGTH	OAL	INSERTS
HA1150CH-FL	5°	.200	.250	.220	.880	3.000	CDCC or CDCD or CDCH See Inserts page 2
HA1160CH-FL	5°	.230	.250	.260	1.000	3.000	
HB1250CH-FL	5°	.292	.312	.312	1.250	3.000	TDAB or TDAC See Inserts page 3
HB1260CH-FL	5°	.355	.375	.375	1.500	4.000	
HC1350CH-FL	5°	.480	.500	.500	2.000	4.000	TPGB-2 or TPGC-2 or TPGH-2 See Inserts page 3
HC1360CH-FL	5°	.605	.625	.625	2.500	6.000	
HD1450CH-FL	5°	.730	.750	.750	3.000	6.000	TPGB-3 or TPGC-3 or TPGH-3 See Inserts pages 3 & 4
HD1460CH-FL	5°	.980	1.000	1.000	4.000	8.000	
HE5050CH-FL*	5°	.200	.250	.220	.880	3.000	
HE5060CH-FL*	5°	.230	.250	.250	1.000	3.000	WCGT-0
HE5070CH-FL*	5°	.292	.312	.312	1.250	3.000	See Inserts page 5
HG6050CH-FL*	5°	.355	.375	.375	1.500	4.000	WCGT-2
HG6060CH-FL*	5°	.480	.500	.500	2.000	4.000	See Inserts page 5
HH7050CH-FL*	5°	.605	.625	.625	2.500	6.000	
HH7060CH-FL*	5°	.730	.750	.750	3.000	6.000	WCGT-3
HH7070CH-FL*	5°	.980	1.000	1.000	4.000	8.000	See Inserts page 5

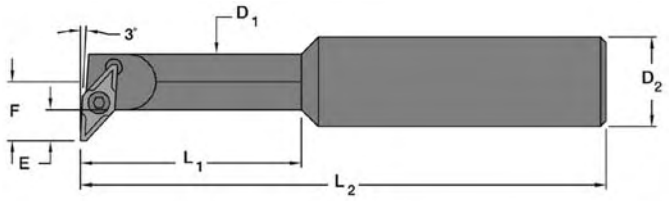
See hardware page 44.

screw | wrench | tech page 6

* Bars have flats as standard.

SERIES PB

MINIMUM BORE
0.520 TO 1.100 "



Left-hand bars use left-hand inserts and right-hand bars use right-hand inserts.
Right-hand bars are shown.

ALLOY STEEL SHANKS (Series PB)

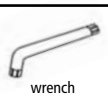
EVEREDE PART NUMBER	D1 BAR DIA	D2 SHANK	M MIN BORE	L1 BAR LENGTH	L2 OAL	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SPB2000R	.312	.500	.520	1.250	4.000	.175	.331	
SPB2010R	.375	.500	.580	1.500	4.000	.175	.362	XPGT-1
SPB2020R	.438	.500	.640	1.750	4.000	.175	.394	See Inserts page 5
			screw #19041	wrench #19551				
SPB2100R	.438	.625	.760	1.750	5.000	.292	.511	
SPB2110R	.563	.750	.880	2.250	5.000	.292	.573	VPGT-2
SPB2120R	.688	1.000	1.100	2.750	6.000	.292	.636	See Inserts page 4
			screw #19035	wrench #19552				

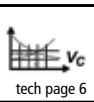
METRIC ALLOY STEEL SHANKS (Series PB)

EVEREDE PART NUMBER	D1 BAR DIA	D2 SHANK	M MIN BORE	L1 BAR LENGTH	L2 OAL	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SPB2400R	7.9mm	12mm	13.2mm	31mm	102	4.5mm	8.4mm	
SPB2410R	9.5mm	12mm	13.2mm	38mm	102	4.5mm	9.2mm	XPGT-1
SPB2420R	11.1mm	12mm	16.3mm	44mm	102	4.5mm	10.0mm	See Inserts page 5
			screw #19041	wrench #19551				
SPB2500R	11.1mm	16mm	19.3mm	44mm	127	7.4mm	13.0mm	
SPB2510R	14.3m	20mm	22.4mm	57mm	127	7.4mm	14.6mm	VPGT-2
SPB2520R	17.5mm	25mm	27.9mm	68mm	152	7.4mm	16.2mm	See Inserts page 4
			screw #19035	wrench #19552				

• For left-handed bars, replace "R" at end of part number with "L."


screw


wrench



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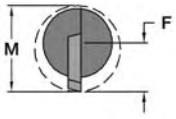
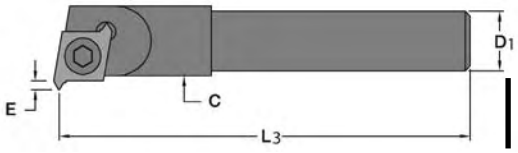
SERIES TH

MINIMUM THREADING DIAMETER 0.272 TO 0.312"





MIN. T.P.I.: 35
MIN. METRIC PITCH: 0.8MM

ALLOY STEEL SHANKS (Series TH)

EVEREDE PART NUMBER	D1 HEAD DIAMETER	D2 SHANK DIAMETER	M MIN THREAD DIAMETER	L3 LENGTH	E MAX THREAD DEPTH	F CENTER OFFSET	INSERTS
STH1000	.219	.187	.272	2.500	.025	.154	CDCT-02 See Inserts page 2
STH1010	.260	.250	.312	3.000	.025	.175	

CARBIDE SHANKS (Series TH)

EVEREDE PART NUMBER	D1 HEAD DIAMETER	D2 SHANK DIAMETER	M MIN THREAD DIAMETER	L3 LENGTH	E MAX THREAD DEPTH	F CENTER OFFSET	INSERTS
CTH1000	.219	.187	.272	4.000	.025	.154	CDCT-02 See Inserts page 2
CTH1010	.260	.250	.312	4.000	.025	.175	

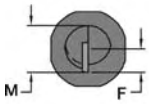

screw # 19501

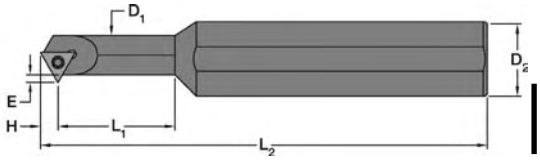

wrench # 19551

tech page 6

SERIES TH

MINIMUM THREADING DIAMETER 0.312 TO 0.593"





MIN. T.P.I.: 10
MIN. METRIC PITCH: 3.0MM

ALLOY STEEL SHANKS (Series TH)

EVEREDE PART NUMBER	D1 HEAD DIAMETER	D2 SHANK DIAMETER	M MIN THREAD DIAMETER	L1 THREAD DEPTH	L2 OVERALL LENGTH	E INSERT OVERHANG	F CENTER OFFSET	H SHOULDER CLEARANCE	INSERTS
STH1100	.250	.625	.312	.750	4.000	0.60	.155	.138	TBEB-02F See Inserts page 3
STH1110	.250	.625	.312	1.250	4.000		.155		
STH1120	.312	.625	.372	.938	4.000		.186		
STH1130	.312	.625	.372	1.500	4.000		.186		
STH1140	.375	.625	.468	1.125	4.000	.093	.234	216	TBEB-04F See Inserts page 3
STH1150	.375	.625	.468	1.875	4.000		.234		
STH1160	.500	.625	.593	1.500	4.000		.297		

See hardware page 44.


screw

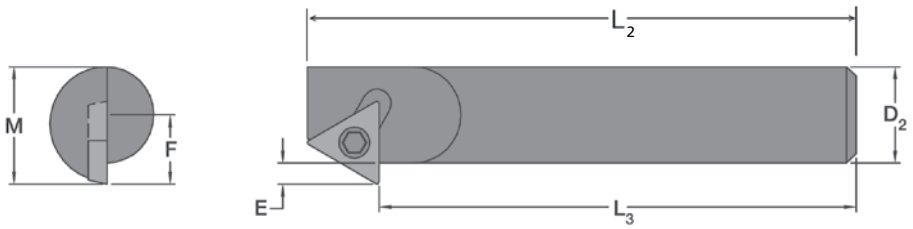

wrench

tech page 6

REVERSE BORING BARS

SERIES RCH

MINIMUM BORE
0.394 TO 0.909"



ALLOY STEEL SHANKS (Series RCH)

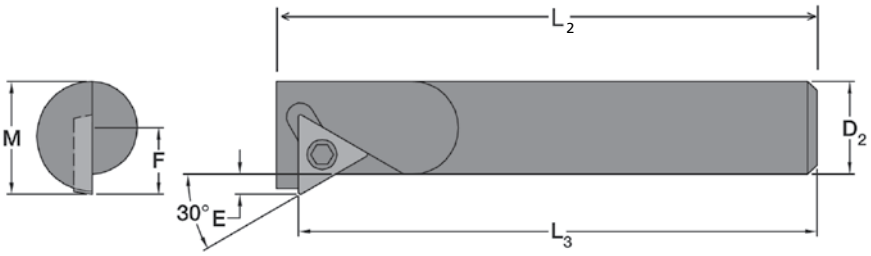
EVEREDE PART NUMBER	D2 SHANK DIAMETER	M MINIMUM BORE	L2 OAL	L3 LENGTH	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SRCH1000	.312	.394	3.720	3.500	.062	.223	TDAB See Inserts page 3
SRCH1010	.375	.492	4.850	4.500	.092	.287	TPGB2 & TPGH2 See Inserts page 3
SRCH1020	.500	.645	5.350	5.000	.125	.380	
SRCH1030	.625	.909	5.540	5.000	.264	.581	TPGH3 & TPGB3 See Inserts pages 3 & 4

REVERSE CHAMFER BARS

SERIES RCH

30° ANGLE

MINIMUM BORE
0.407 TO 1.205"



ALLOY STEEL SHANKS (Series RCH)

EVEREDE PART NUMBER	D2 SHANK DIAMETER	M MINIMUM BORE	L2 OAL	L3 LENGTH	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SRCH1100	.312	.407	3.600	3.500	.075	.236	TDAB See Inserts page 3
SRCH1110	.375	.525	5.100	5.000	.125	.320	TPGB2 & TPGH2 See Inserts page 3
SRCH1120	.500	.645	6.100	6.000	.125	.380	
SRCH1130	.625	.827	7.100	7.000	.182	.499	TPGH3 & TPGB3 See Inserts pages 3 & 4
SRCH1140	.750	.955	8.100	8.000	.182	.562	
SRCH1150	1.000	1.205	10.100	10.000	.182	.687	

See hardware page 44.


wrench


screw

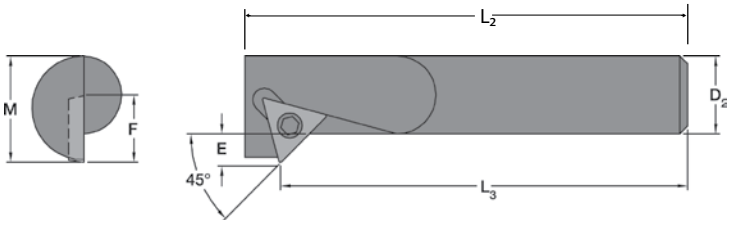
tech page 6

REVERSE CHAMFER BARS

SERIES RCH

45° ANGLE

MINIMUM BORE
0.525 TO 1.205"



ALLOY STEEL SHANKS (Series RCH)

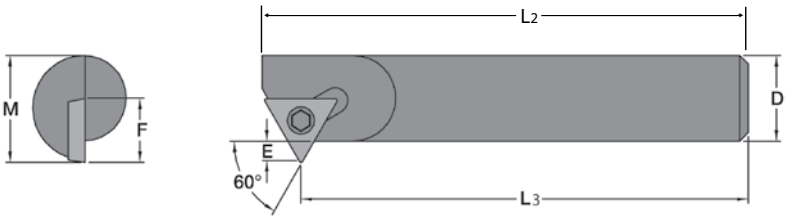
EVEREDE PART NUMBER	D2 SHANK DIAMETER	M MINIMUM BORE	L2 OAL	L3 LENGTH	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SRCH1200	.312	.407	3.620	3.500	.075	.236	TDAB See Inserts page 3
SRCH1210	.375	.525	5.250	5.000	.125	.320	TPGB2 & TPGH2 See Inserts page 3
SRCH1220	.500	.827	6.200	6.000	.125	.380	
SRCH1230	.625	.909	7.760	7.000	.182	.499	TPGH3 & TPGB3 See Inserts pages 3 & 4
SRCH1240	.750	.955	6.250	8.000	.182	.562	
SRCH1250	1.000	1.205	10.260	10.000	.182	.687	

REVERSE CHAMFER BARS

SERIES RCH

60° ANGLE

MINIMUM BORE
0.407 TO 1.205"

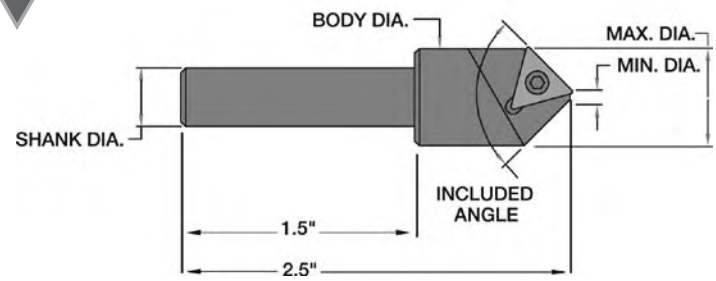


ALLOY STEEL SHANKS (Series RCH)

EVEREDE PART NUMBER	D SHANK DIAMETER	M MINIMUM BORE	L2 OAL	L3 LENGTH	E INSERT OVERHANG	F CENTER OFFSET	INSERTS
SRCH1300	.312	.407	3.630	3.500	.075	.236	TDAB See Inserts page 3
SRCH1310	.375	.525	5.210	5.000	.125	.320	TPGB2 & TPGH2 See Inserts page 3
SRCH1320	.500	.645	6.210	6.000	.125	.380	
SRCH1330	.625	.827	7.000	7.000	.182	.499	TPGH3 & TPGB3 See Inserts pages 3 & 4
SRCH1340	.750	.955	8.320	8.000	.182	.562	
SRCH1350	1.000	1.205	10.320	10.000	.182	.687	

See hardware page 44.

screw | wrench | tech page 6



Inserts sold separately.
For use in variable speed machines.

COUNTERSINKS WITH STRAIGHT SHANKS (Series IND)

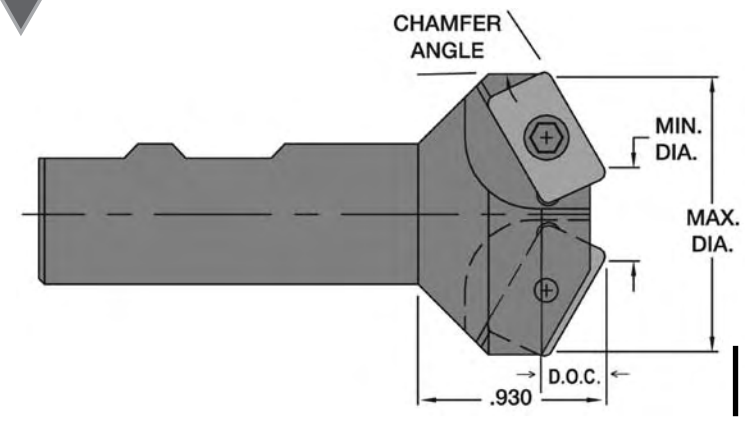
EVEREDE PART NUMBER	INCLUDED ANGLE	BODY DIAMETER	SHANK DIAMETER	MAXIMUM DIAMETER	MINIMUM DIAMETER	INSERT
IND-15-6-125	60°	1/2	3/8	.463	.125	TPGH-215
IND-16-8-125	82°	5/8	3/8	.583		
IND-16-9-125	90°	5/8	3/8	.621		
IND-17-1-125	100°	3/4	1/2	.719		
IND-18-2-125	120°	7/8	1/2	.741		
IND-18-3-125	130°	7/8	1/2	.771		
IND-16-6-250	60°	5/8	3/8	.588	.250	
IND-17-8-250	82°	3/4	1/2	.708		
IND-17-9-250	90°	3/4	1/2	.746		
IND-18-1-250	100°	7/8	1/2	.844		
IND-19-2-250	120°	1	1/2	.866		
IND-19-3-250	130°	1	1/2	.896		
IND-17-6-375	60°	3/4	1/2	.713	.375	
IND-18-8-375	82°	7/8	1/2	.833		
IND-18-9-375	90°	7/8	1/2	.871		
IND-19-1-375	100°	1	1/2	.969		
IND-11.1-2-375	120°	1-1/8	1/2	.991		
IND-11.1-3-375	130°	1-1/8	1/2	1.021		
IND-18-6-500	60°	7/8	1/2	.838	.500	
IND-19-8-500	82°	1	1/2	.958		
IND-11.1-9-500	90°	1-1/8	1/2	.996		
IND-11.1-1-500	100°	1-1/8	1/2	1.094		
IND-11.2-2-500	120°	1-1/4	1/2	1.116		
IND-11.2-3-500	130°	1-1/4	1/2	1.145		

See Inserts page 3

- Metric sizes available.
- Sets are available. See page 43.

screw # 19074 | wrench # 19554 | tech page 6

- Special angles available. See custom tooling at www.everede.net.



Inserts sold separately.

CHAMFERMILLS WITH WELDON SHANKS (Series CHM)

EVEREDE PART NUMBER	MIN DIA	MAX DIA	WELDON SHANK	CHAMFER ANGLE	NUMBER OF FLUTES	DEPTH OF CUT	OVERALL LENGTH	INSERT
CHM-750-30	.750	1.303	3/4	30°	2	.479	3.000	APLT-347
CHM-688-41	.688	1.414	3/4	41°		.418		
CHM-688-45	.688	1.471	3/4	45°		.391		
CHM-500-60	.500	1.458	3/4	60°		.277		
CHM-1.000-30	1.000	1.553	1	30°	3	.479	3.200	
CHM-938-41	.938	1.664	1	41°		.418		
CHM-938-45	.938	1.721	1	45°		.391		
CHM-750-60	.750	1.708	1	60°		.277		
CHM-1.250-30	1.250	1.803	1-1/4	30°	3	.479	3.200	
CHM-1.188-41	1.188	1.914	1-1/4	41°		.418		
CHM-1.188-45	1.188	1.971	1-1/4	45°		.391		
CHM-1.000-60	1.000	1.958	1-1/4	60°		.277		
CHM-1.500-30	1.500	2.053	1-1/2	30°	3	.479	3.600	
CHM-1.438-41	1.438	2.164	1-1/2	41°		.418		
CHM-1.438-45	1.438	2.221	1-1/2	45°		.391		
CHM-1.250-60	1.250	2.208	1-1/2	60°		.277		

See Inserts page 2

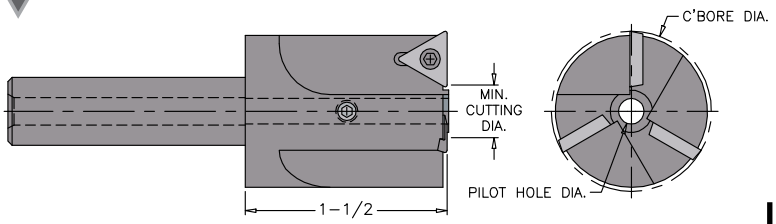
- Metric sizes available.
- Sets are available. See page 43.


screw # 19043


wrench # 19555

tech page 6

- Special angles available. See custom tooling at www.everede.net.



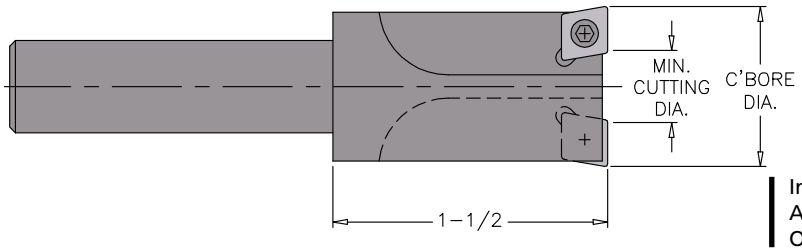
Overall length is 3.2"

Pilots and inserts sold separately.
See page 44 for pilot ordering information.
All tools have 3 flutes.

PILOTED COUNTERBORES (Series INCB)

EVEREDE PART NUMBER	COUNTERBORE DIAMETER	SHANK DIAMETER	MINIMUM CUT DIAMETER	PILOT HOLE DIAMETER	INSERT
INCB-1.000-188S	1	1/2	.214	3/16	
INCB-1.062-188S	1-1/16	1/2	.276	3/16	
INCB-1.125-188S	1-1/8	1/2	.337	3/16	
INCB-1.188-188S	1-3/16	1/2	.402	3/16	
INCB-1.250-312S	1-1/4	1/2	.464	5/16	
INCB-1.312-312S	1-5/16	1/2	.526	5/16	
INCB-1.375-312S	1-3/8	1/2	.589	5/16	
INCB-1.438-312S	1-7/16	1/2	.652	5/16	
INCB-1.500-312S	1-1/2	3/4	.714	5/16	TPGH-215
INCB-1.562-312S	1-9/16	3/4	.776	5/16	
INCB-1.625-312S	1-5/8	3/4	.839	5/16	
INCB-1.688-312S	1-11/16	3/4	.902	5/16	
INCB-1.750-438S	1-3/4	3/4	.964	7/16	
INCB-1.812-438S	1-13/16	3/4	1.026	7/16	
INCB-1.875-438S	1-7/8	3/4	1.089	7/16	
INCB-1.938-438S	1-15/16	3/4	1.152	7/16	
INCB-2.000-438S	2	1	1.214	7/16	

See Inserts page 3



Inserts sold separately.
All tools have 2 flutes and 1/2 shank.
Overall length is 3.2"

PILOTLESS COUNTERBORES (Series INCB)

EVEREDE PART NUMBER	COUNTERBORE DIAMETER	MINIMUM CUT DIAMETER	INSERT
INCB-625S	5/8	.148	
INCB-688S	11/16	.211	
INCB-750S	3/4	.273	CCMT-215
INCB-812S	13/16	.335	
INCB-875S	7/8	.398	
INCB-938S	15/16	.461	

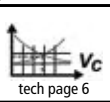
See Inserts page 2

See hardware page 44.

- Metric sizes available.

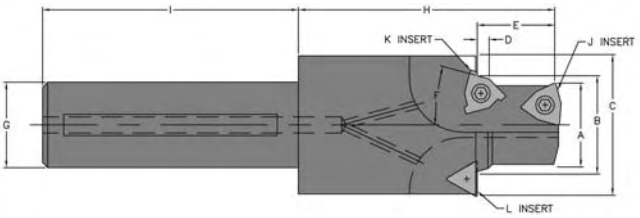

screw


wrench



tech page 6

- Specials available by request.
- See custom tooling at www.everede.net.

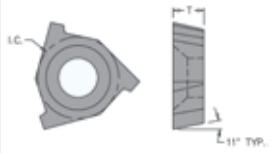


Single effective flute. Not center cutting.
See recommended pre-drill size.
Other grades available on request.
Match J & K insert grades when ordering.

SAEJ1926/MS16142 (Series PC) with coolant thru

EVEREDE PART NUMBER	PORT SIZE	PRE DRILL SIZE	TUBE NUMBER	A DIA.	B DIA.	C MIN. DIA.	D LENGTH	E MIN. LENGTH	F ±1° ANGLE
IFPC-438-20	7/16-20	0.37	4	0.389	0.490	0.827	0.102	0.551	12°
IFPC-500-20	1/2-20	0.44	5	0.452	0.553	0.906	0.102	0.551	12°
IFPC-562-18	9/16-18	0.48	6	0.509	0.618	0.984	0.106	0.610	12°
IFPC-750-16	3/4-16	0.67	8	0.689	0.813	1.181	0.106	0.689	15°
IFPC-875-14	7/8-14	0.78	10	0.806	0.945	1.339	0.106	0.787	15°
IFPC-1.062-12	1-1/16-12	0.95	12	0.981	1.150	1.614	0.138	0.906	15°
IFPC-1.188-12	1-3/16-12	1.09	14	1.106	1.276	1.772	0.138	0.906	15°
IFPC-1.312-12	1-5/16-12	1.21	16	1.231	1.400	1.929	0.138	0.906	15°
IFPC-1.625-12	1-5/8-12	1.53	20	1.544	1.715	2.283	0.138	0.906	15°
IFPC-1.875-12	1-7/8-12	1.78	24	1.794	1.965	2.559	0.138	0.906	15°

EVEREDE PART NUMBER	G DIA .0005-.0010	H & I LENGTH	J1 INSERT	J2 INSERT SCREW	K1 INSERT	K2 INSERT SCREW	L1 INSERT	L2 INSERT SCREW
IFPC-438-20	3/4	2-1/2	WCGT-208	19035	31096	19035	CCMT-215	19035
IFPC-500-20	3/4	2-1/2	WCGT-208	19035	31096	19035	CCMT-215	19035
IFPC-562-18	3/4	2-1/2	WCGT-208	19035	31096	19035	CCMT-215	19035
IFPC-750-16	3/4	2-1/2	WCGT-208	19035	31098	19035	TPGH-215	19074
IFPC-875-14	3/4	2-1/2	WCGT-315	19043	31098	19035	TPGH-215	19074
IFPC-1.062-12	1	3	WCGT-315	19043	31099	19507	TPGH-215	19074
IFPC-1.188-12	1	3	WCGT-315	19043	31099	19507	TPGH-315	19043
IFPC-1.312-12	1	3	WCGT-315	19043	31099	19507	TPGH-315	19043
IFPC-1.625-12	1-1/4	3	TPGH-315	19043	31099	19507	TPGH-315	19043
IFPC-1.875-12	1-1/4	3	TPGH-315	19043	31099	19507	TPGH-315	19043



			COATED GRADES					UNCOATED GRADES					CERMET		TIPPED		
			PVD			CVD								PVD			
			TiN	TiN	TiALN	TiN	TiN	C8	C5	C3	C2	C1	C7	C7			
			P05	K10	K30	P30	K30	P05	P30	K10	K20	K30	P05	P05	N10	H10	Holder Series
EVEREDE PART NO.	IC	T	CV7	CVM2	TL120	CV6	MC32	CS7	CS6	CM2	CS2	MU12	CT7	CT65	PCD	CBN	
31096	.250	.094		▼		▼			▼		▼						
31098	.250	.094		▼		▼			▼		▼						PC
31099	.375	.125		▼		▼			▼		▼						

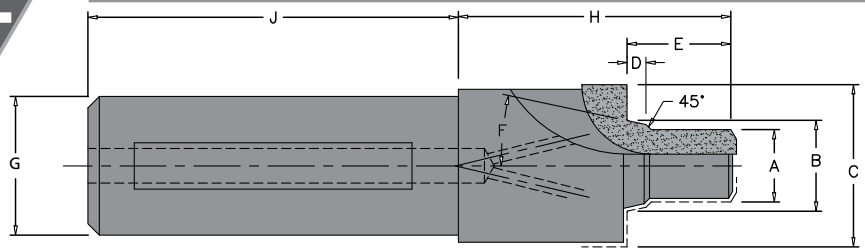
See hardware page 44.

- See Inserts pages for CCMT, TPGH, WCGT.
- Tech data page 2.

screw | wrench | tech page

- Screw #19035 uses wrench # 19552.
- Screw #19043 uses wrench #19555.
- Screw #19507 uses wrench #19554.

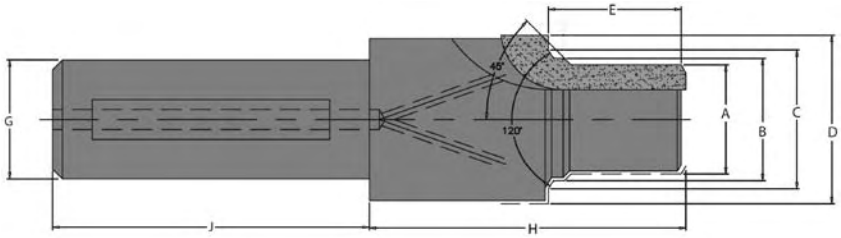
SERIES PC
CARBIDE TIPPED



All cutters have 3 carbide tipped flutes.

SAE J1926/MS16142 (Series PC) with coolant thru

EVEREDE PART NUMBER	PORT SIZE	PRE DRILL SIZE	TUBE #	A	B± .002	C	D± .008	E	G	H	J
				DIA.	DIA.	MIN. DIA.	LENGTH	MIN. LENGTH	-.0005 -.0010	LENGTH	LENGTH
CTPC-312-24	5/16-24	0.25	2	0.272	0.360	0.669	0.083	0.472	1/2	1-1/2	2
CTPC-375-24	3/8-24	0.31	3	0.335	0.423	0.748	0.083	0.472	1/2	1-1/2	2
CTPC-438-20	7/16-20	0.37	4	0.389	0.490	0.827	0.102	0.551	1/2	1-1/2	2
CTPC-500-20	1/2-20	0.44	5	0.452	0.553	0.906	0.102	0.551	1/2	1-1/2	2
CTPC-562-18	9/16-18	0.48	6	0.509	0.618	0.984	0.106	0.610	1/2	1-1/2	2
CTPC-750-16	3/4-16	0.67	8	0.689	0.813	1.181	0.106	0.689	3/4	1-1/2	2
CTPC-875-14	7/8-14	0.78	10	0.806	0.945	1.339	0.106	0.787	3/4	2	2
CTPC-1.062-12	1 1/16-12	0.95	12	0.981	1.150	1.614	0.138	0.906	3/4	2	2
CTPC-1.188-12	1 3/16-12	1.09	14	1.106	1.276	1.772	0.138	0.906	3/4	2	2
CTPC-1.312-12	1 5/16-12	1.21	16	1.231	1.400	1.929	0.138	0.906	3/4	2	2
CTPC-1.625-12	1 5/8-12	1.53	20	1.544	1.715	1.283	0.138	0.906	3/4	2	2
CTPC-1.875-12	1 7/8-12	1.78	24	1.794	1.965	2.559	0.138	0.906	3/4	2	2



All cutters have 3 carbide tipped flutes.

SAE AS5202/MS33649 (Series PC) with coolant thru

EVEREDE PART NUMBER	PORT SIZE (UNJF & UNJ)	PRE DRILL SIZE	TUBE #	A	B +.005 -.000	C +.015 -.000	D	E	G	H	J
				DIA.	DIA.	DIA.	MIN DIA.	MIN. LENGTH	-.0005 -.0010	LENGTH	LENGTH
CTPC-375-24-649	3/8-24	0.31	3	.335	.390	.500	.688	.588	1/2	1-1/2	2
CTPC-438-20-649	7/16-20	0.37	4	.389	.454	.562	.750	.661	1/2	1-1/2	2
CTPC-500-20-649	1/2-20	0.43	5	.452	.517	.625	.812	.661	1/2	1-1/2	2
CTPC-562-18-649	9/16-18	0.49	6	.515	.580	.688	.875	.714	1/2	1-1/2	2
CTPC-625-18-649	5/8-18	0.55	7	.578	.643	.750	.938	.730	1/2	1-1/2	2
CTPC-750-16-649	3/4-16	0.66	8	.689	.769	.875	1.062	.839	3/4	1-1/2	2
CTPC-875-14-649	7/8-14	0.77	10	.797	.896	1.000	1.188	.935	3/4	2	2
CTPC-1.062-12-649	1 1/16-12	0.96	12	.981	1.086	1.234	1.438	1.069	3/4	2	2
CTPC-1.188-12-649	1 3/16-12	1.08	14	1.106	1.211	1.362	1.562	1.069	3/4	2	2
CTPC-1.312-12-649	1 5/16-12	1.21	16	1.231	1.336	1.487	1.688	1.069	3/4	2	2
CTPC-1.625-12-649	1 5/8-12	1.52	20	1.544	1.648	1.800	2.000	1.121	3/4	2	2
CTPC-1.875-12-649	1 7/8-12	1.77	24	1.794	1.898	2.050	2.250	1.132	3/4	2	2

MATERIAL APPLICATIONS RECOMMENDATIONS FOR INDEXABLE PORT CONTOUR CUTTERS

MATERIAL	RPM / IPR	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/6-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12
STEEL (120-180 BHN)	RPM	3300	2900	2600	2000	1800	1500	1400	1200	1000	900
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
STEEL (180-240 BHN)	RPM	3000	2650	2350	1800	1600	1300	1200	1100	950	850
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
STEEL (240-300 BHN)	RPM	2650	2350	2100	1600	1500	1200	1100	1000	900	750
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
300 SERIES STAINLESS	RPM	2000	1750	1600	1200	1000	900	800	700	600	500
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
400 SERIES STAINLESS	RPM	2300	2050	1850	1400	1300	1100	1000	900	750	700
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
17-4 & PH SERIES S.S.	RPM	2150	1900	1700	1300	1200	1000	900	800	700	600
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
CAST IRON	RPM	2650	2350	2100	1600	1500	1200	1100	1000	900	750
	IPR	.004	.004	.004	.005	.005	.006	.006	.006	.008	.008
ALUMINUM	RPM	4800	4250	3800	2900	2800	2700	2600	2400	2000	1800
	IPR	.004	.004	.004	.005	.005	.006	.006	.006	.006	.006
TITANIUM	RPM	1150	1000	900	700	600	500	450	400	350	300
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006
HIGH TEMP ALLOY	RPM	1150	1000	900	700	600	500	450	400	350	300
	IPR	.003	.003	.003	.004	.004	.005	.005	.005	.006	.006

Speeds based on uncoated inserts.
IPR based on single cutting edge. For multiple flute tools, multiply by the number of flutes.
Speeds and feeds will vary upon application.
Please call us for specific application cutting parameters. Add approximately 30% to speeds for coated inserts.

SERIES A (CDCD INSERTS)

SET 1 - ALLOY STEEL SHANKS

BAR	MINBORE	SHANK
SA1000	.180	.187
SA1005	.208	.187
SA1010	.230	.187
SA1100	.290	.250

SET 1C - CARBIDE SHANKS

BAR	MINBORE	SHANK
CA1200	.180	.156
CA1205	.208	.187
CA1215	.230	.187
CA1300	.290	.250

SET 2 - ALLOY STEEL SHANKS (OVERSIZE 3/8 DIA)

BAR	MINBORE	SHANK
SA1405	.208	.375
SA1420	.230	.375
SA1440	.290	.375

SET 2C - CARBIDE SHANKS (OVERSIZE 3/8 DIA)

BAR	MINBORE	SHANK
CA1200	.180	.156
CA1215	.230	.187
CA1300	.290	.187

SET 3 - ALLOY STEEL SHANKS (OVERSIZE 1/2 DIA)

BAR	MINBORE	SHANK
SA1605	.208	.500
SA1620	.230	.500
SA1630	.290	.500

SET 5 - ALLOY STEEL SHANKS (STRAIGHT & OVERSIZE)

BAR	MINBORE	SHANK
SA1000	.180	.187
SA1005	.208	.187
SA1420 (oversize shank)	.230	.375
SA1640 (oversize shank)	.290	.500

- Sets 1, 2, 3, 5 come with insert CDCD-07-CVM2.
- Sets 4, 6,7 come with insert TDAB-07-CVM2.
- See bar catalog pages for more information.
- Straight shank unless noted.
- Lead angle 5°.
- Order by set number.

SETS INCLUDE:

- Boring bars as listed
- (10) inserts as listed below (can be substituted at time of order)
- Steel carrying case
- Wrenches

SERIES B (TDAB INSERTS)

SET 4 - ALLOY STEEL SHANKS (OVERSIZE 5/8 DIA)

BAR	MINBORE	SHANK
SB2510	.270	.625
SB2530	.300	.625
SB2550	.360	.625

SET 6 - ALLOY STEEL SHANKS

BAR	MINBORE	SHANK
SB1800	.270	.187
SB2000	.300	.250
SB2100	.360	.312

SET 6C - CARBIDE SHANKS

BAR	MINBORE	SHANK
CB1900	.270	.187
CB2200	.300	.250
CB2300	.360	.312

SET 7 - ALLOY STEEL SHANKS (OVERSIZE 1/2 DIA)

BAR	MINBORE	SHANK
SB2410	.270	.500
SB2430	.300	.500
SB2450	.360	.500

SERIES E & F

SET 8 - STRAIGHT SHANKS

BAR	MINBORE	SHANK
SE5010	.230	.187
SE6000	.300	.250
SF6100	.360	.312

SET 8C - CARBIDE SHANKS

BAR	MINBORE	SHANK
CE5215	.230	.187
CE5300	.290	.250
CF6300	.360	.312

SERIES C & D

SET 10

TPGH-2 & TPGH-3 INSERTS

BAR	MINBORE	SHANK
SD3700	1.094	1"
SD3600	.844	3/4"
SD3500	.719	5/8"
SC2800	.563	1/2"
SC2700	.438	3/8"

SERIES G & H

SET 11

WCGT-2 & WCGT-3 INSERTS

BAR	MINBORE	SHANK
SH7700	1.094	1"
SH7600	.844	3/4"
SH7500	.719	5/8"
SG6800	.563	1/2"
SG6700	.438	3/8"

- Sets 8 includes (5) each WCGT-008-CVM2 & WCGT-108-CVM2 inserts.
- Sets 10, 12 include (10) each TPGH-215-CV6 & TPGH-315-CV6 inserts.
- Sets 11, 13 include (10) each WCGT-215-CV6 & WCGT-315-CV6 inserts.
- See bar catalog pages for more bar information.
- Straight shank unless noted.
- Bars have 5° lead angle unless noted.

SETS INCLUDE:

- Boring bars as listed
- Inserts as listed below (can be substituted at time of order)
- Steel carrying case
- Wrenches

SERIES C & D

SET 12 - 0° LEAD ANGLE

TPGH-2 & TPGH-3 INSERTS

BAR	MINBORE	SHANK
SD3705	1.094	1"
SD3605	.844	3/4"
SD3505	.719	5/8"
SC2805	.563	1/2"
SC2705	.438	3/8"

SERIES G & H

SET 13 - 0° LEAD ANGLE

WCGT-2 & WCGT-3 INSERTS

BAR	MINBORE	SHANK
SH7705	1.094	1"
SH7605	.844	3/4"
SH7505	.719	5/8"
SG6805	.563	1/2"
SG6705	.438	3/8"

SETS
COUNTERSINKS

SET 60 - 60° included angle		
BODY	MIN. DIA.	MAX. DIA.
IND-15-6-125	.125	.463
IND-16-6-250	.250	.588
IND-17-6-375	.375	.713
IND-18-6-500	.500	.838

SET 82 - 82° included angle		
BODY	MIN. DIA.	MAX. DIA.
IND-16-8-125	.125	.583
IND-17-8-250	.250	.708
IND-18-8-375	.375	.833
IND-19-8-500	.500	.958

SET 90 - 90° included angle		
BODY	MIN. DIA.	MAX. DIA.
IND-16-9-125	.125	.621
IND-17-9-250	.250	.746
IND-18-9-375	.375	.871
IND-11.1-9-500	.500	.996

SET 125 - .125 min. dia.		
BODY	INCLUDED ANGLE	MAX. DIA.
IND-15-6-125	60°	.463
IND-16-8-125	82°	.583
IND-16-9-125	90°	.621

SET 250 - .250 min. dia.		
BODY	INCLUDED ANGLE	MAX. DIA.
IND-16-6-250	60°	.588
IND-17-8-250	82°	.708
IND-17-9-250	90°	.746

SETS INCLUDE:
- All bodies use the same insert. Each set packaged in a handsome metal case and includes 10 coated inserts (TPGH-215-CV6) and wrenches.
- Inserts are above center for better cutting action.
- Precision ground shanks for true concentricity.
- Order by set number.

SET 375 - .375 min. dia.		
BODY	INCLUDED ANGLE	MAX. DIA.
IND-17-6-375	60°	.713
IND-18-8-375	82°	.833
IND-19-9-375	90°	.871

SET 500 - .500 min. dia.		
BODY	INCLUDED ANGLE	MAX. DIA.
IND-18-6-500	60°	.838
IND-19-8-500	82°	.958
IND-11.1-9-500	90°	.996

CHAMFER MILLS

SET CHM-30 30° CHAMFER ANGLE (60° included angle)				
	MIN.DIA.	MAX. DIA.	SHANK DIA.	# OF FLUTES
CHM-750-30	.750	1.303	.750	2
CHM-1.000-30	1.000	1.553	1.000	3
CHM-1.250-30	1.250	1.803	1.250	3

SET CHM-41 41° CHAMFER ANGLE (82° included angle)				
	MIN.DIA.	MAX. DIA.	SHANK DIA.	# OF FLUTES
CHM-688-41	.688	1.414	.750	2
CHM-938-41	.938	1.664	1.000	3
CHM-1.188-41	1.188	1.914	1.250	3

SET CHM-45 45° CHAMFER ANGLE (90° included angle)				
	MIN.DIA.	MAX. DIA.	SHANK DIA.	# OF FLUTES
CHM-688-45	.688	1.471	.750	2
CHM-938-45	.938	1.721	1.000	3
CHM-1.188-45	1.188	1.971	1.250	3

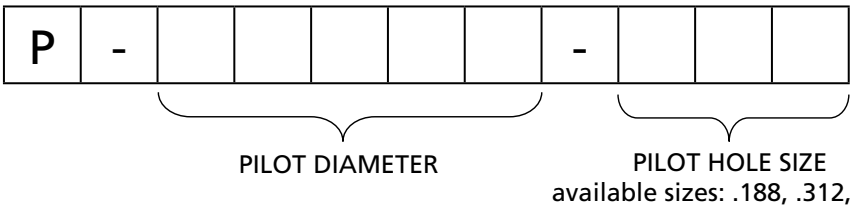
SET CHM-60 60° CHAMFER ANGLE (120° included angle)				
	MIN.DIA.	MAX. DIA.	SHANK DIA.	# OF FLUTES
CHM-500-60	.500	1.458	.750	2
CHM-750-60	.750	1.708	1.000	3
CHM-1.000-60	1.000	1.958	1.250	3

SETS INCLUDE:
- Can be used for countersinking, chamfer milling and face milling.
- Extra length of cut with parallelogram inserts.
- All holders use the same insert (APLT-347-CV6).
- Sets include three holders and 10 coated inserts and wrenches in a metal box.
- Order by set number.

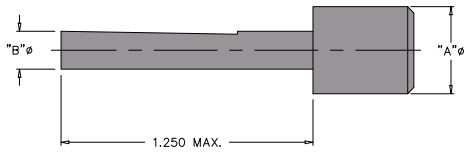
HARDWARE				
HOLDER SERIES	INSERT	TORX SCREW	SCREW DESCRIPTION	TORX WRENCH
A FL	CDCD CDCC CDCH	19501	1-72 OVAL X .090 LG.-T6	19551
B FL RCH	TDAB TDAC	19503	2-56 OVAL X .110 LG. -T7	19552
C FL	TPGB-2 TPGC-2	19504	4-40 OVAL X .250 LG. -T8	19553
C	TPGH-2	19506	4-40 X .250 LG. - T-10	19554
CB IND PC	TPGH-2	19074	M2.5 X .250 LG. - T-10	19554
D	TPGB-3 TPGC-3 TPGH-3	19507	4-40 F.H. X .250 LG. - T-10	19554
E	WCGT-0	19040	M2 X .4 I.S.O. X .135 LG. - T-6	19551
F	WCGT-1	19041	M2 X .4 I.S.O. X .180 LG. - T-6	19551
G	WCGT-2	19035	M2.5 X .45 I.S.0. X .220 LG. - T-7	19552
H	WCGT-3	19043	M4 X .7 I.S.O. X .315 LG. - T-15	19555
CB PC	CCMT-2	19035	M2.5 X .45 I.S.O. X .220 LG. - T-7	19552
TH	CDCT-2	19501	1-72 OVAL X .090 LG. - T-6	19551
TH	TBEB-2	19503	2-56 OVAL X .110 LG. - T-7	19552
TH	TBEB-4	19504	4-40 OVAL X .250 LG. - T-8	19553
CHM	APLT	19043	M4 X .7 I.S.O. X .315 LG. - T-15	19555
PB	VPGT-2	19035	M2.5 X .45 I.S.O. X .220 LG. - T-7	19552
PB	XPGT-1	19041	M2 X .45 I.S.O. X .180 LG. - T-6	19551

Ordering Information

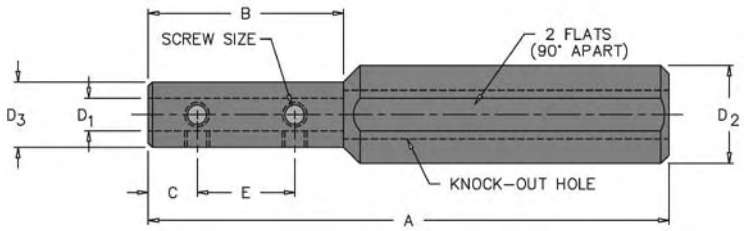
PILOT



EXAMPLE: 7/16 pilot x 3/16 shank Everede Part Number: P-437-188



Price and availability available on request. Non-stock. Quick delivery item.



BORING BAR SLEEVES

EVEREDE PART NUMBER	A	B	C	D	E	
	BAR DIA	SHANK DIA	BAR DEPTH	OAL	HEAD DIA	SCREW #
BBS-125/375	1/8	3/8	3/4	4	3/8	19220
BBS-125/500	1/8	1/2	3/4	4	3/8	19220
BBS-125/625	1/8	5/8	3/4	4	3/8	19220
BBS-125/750	1/8	3/4	3/4	5	3/8	19220
BBS-125/1000	1/8	1	3/4	6	3/8	19220
BBS-156/375	5/32	3/8	3/4	4	3/8	19220
BBS-156/500	5/32	1/2	3/4	4	7/16	19220
BBS-156/625	5/32	5/8	3/4	4	7/16	19220
BBS-156/750	5/32	3/4	3/4	5	7/16	19220
BBS-156/1000	5/32	1	3/4	6	7/16	19220
BBS-156/1250	5/32	1-1/4	3/4	8	7/16	19220
BBS-156/1500	5/32	1-1/2	3/4	8	7/16	19220
BBS-187/375	3/16	3/8	3/4	4	3/8	19231
BBS-187/500	3/16	1/2	3/4	4	7/16	19231
BBS-187/625	3/16	5/8	3/4	4	7/16	19231
BBS-187/750	3/16	3/4	3/4	5	7/16	19231
BBS-187/1000	3/16	1	3/4	6	7/16	19231
BBS-187/1250	3/16	1-1/4	3/4	8	7/16	19231
BBS-187/1500	3/16	1-1/2	3/4	8	7/16	19231
BBS-250/500	1/4	1/2	1	4	1/2	19251
BBS-250/625	1/4	5/8	1	4	5/8	19251
BBS-250/750	1/4	3/4	1	5	5/8	19251
BBS-250/1000	1/4	1	1	6	5/8	19251
BBS-250/1250	1/4	1-1/4	1	8	5/8	19251
BBS-250/1500	1/4	1-1/2	1	8	5/8	19251
BBS-312/625	5/16	5/8	1-1/4	4	5/8	19251
BBS-312/750	5/16	3/4	1-1/4	5	11/16	19251
BBS-312/1000	5/16	1	1-1/4	6	11/16	19251
BBS-312/1250	5/16	1-1/4	1-1/4	8	11/16	19251
BBS-312/1500	5/16	1-1/2	1-1/4	8	11/16	19251
BBS-375/625	3/8	5/8	1-1/2	4	5/8	19022
BBS-375/750	3/8	3/4	1-1/2	5	3/4	19022
BBS-375/1000	3/8	1	1-1/2	6	3/4	19022
BBS-375/1250	3/8	1-1/4	1-1/2	8	3/4	19022
BBS-375/1500	3/8	1-1/2	1-1/2	8	3/4	19022
BBS-500/750	1/2	3/4	2	5	3/4	19022
BBS-500/1000	1/2	1	2	6	1	19263
BBS-500/1250	1/2	1-1/4	2	8	1	19263
BBS-500/1500	1/2	1-1/2	2	8	1	19263
BBS-625/1250	5/8	1-1/4	2	8	1-1/8	19263
BBS-625/1500	5/8	1-1/2	2	8	1-1/8	19263
BBS-750/1250	3/4	1-1/4	2-1/2	8	1-1/8	19263
BBS-750/1500	3/4	1-1/2	2-1/2	8	1-1/8	19263

10⁰ & 15⁰ Standard Lathe and Production Boring Bars

100 - 200 - 300 - 500 Series Nos. EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

EVEREDE® Lathe Boring Bars without adjusting screws are especially designed for Engine Lathes

EVEREDE® Production Boring Bars are especially designed for Turret Lathes, and incorporate an adjusting screw behind the tool bit for quicker, fine adjustments.

LATHE BARS

TOOL BIT SIZE	BAR DIAMETER	LENGTH	BAR PART NO.
5/32	11/32 x 2*	6	220
	3/8	7	225
	7/16	7 5/8	230
	1/2	8 1/4	235
	9/16	8 3/4	240
1/4	5/8	9 1/2	245
	3/4	10	250
	7/8	11	255
	1	12	265
5/16	1 1/8	15	270
	1 1/4	17	275
	1 3/8	19	280
	1 1/2	22	285

*11/32 bar has 3/8" shank.

PRODUCTION BARS

TOOL BIT SIZE	BAR DIAMETER	LENGTH	BAR PART NO.
7/64	5/16*	6	315
	3/8M*	6	325
5/32	7/16	6	330
	1/2	6	335
	9/16	6	340
1/4	5/8	8	345
	3/4	8	350
	7/8	8	355
	1	8	365
5/16	1 1/8	10	370
	1 1/4	10	375
	1 3/8	10	380
	1 1/2	10	385

5/16 AND 3/8M TOOL ANGLE ℄ OF BAR IS 75⁰
ALL OTHER BARS ARE 80⁰

EVERY BAR INCL. ONE HSS BIT.
ONE ALLEN TYPE WRENCH

FOR TOOL BITS, SEE PAGES 52-53.

LATHE BAR SETS

SET NO.	BAR DIAMETERS INCLUDED	REFERENCE: BUSHING SET NO.	REFERENCE: BORING BAR HOLDER NO.
200	11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	3300	3030
200-A	11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 1	3300-A	3030
200-B	11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4	3200-B	3020
		3300-A	3030
200-C	3/8, 1/2, 5/8, 3/4, 1	3300-C	3030
200-D	11/32, 7/16, 9/16, 5/8, 1	3300-D	3030
200-E	7/16, 9/16, 5/8, 1	3300-E	3030
200-F	3/8, 1/2, 5/8, 3/4	3200-F	3020
		3300-C	3030

PRODUCTION BAR SETS

SET NO.	BAR DIAMETERS INCLUDED	REFERENCE: BUSHING SET NO.	REFERENCE: BORING BAR HOLDER NO.
300	5/16, 3/8M, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	3300-G	3080
300-A	5/16, 3/8M, 7/16, 1/2, 9/16, 5/8, 3/4, 1	3300-H	3080
300-B	5/16, 3/8M, 7/16, 1/2, 9/16, 5/8, 3/4	3200-A	3070
		3300-H	3080
300-C	3/8M, 1/2, 9/16, 5/8, 3/4, 1	3300-J	3080
300-D	5/16, 7/16, 9/16, 5/8, 1	3300-K	3080
300-E	7/16, 9/16, 5/8, 1	3300-E	3080
300-F	3/8M, 1/2, 5/8, 3/4	3200-F	3070
		3300-C	3080

MIDGET BORING BAR SET

All Shank Dia. 3/8"

TOOL BIT SIZE	SET NO.	BAR DIA.	BAR LENGTH	OAL	BAR PART NO.
7/64	100	7/32	1 7/16	6	105
		17/64	1 5/8	6	110
		5/16	1 3/4	6	115
		3/8M*	—	6	125

100 SET INCLUDES 9210 BOX

REF: TOOL ANGLE 75⁰ TO ℄ OF BAR

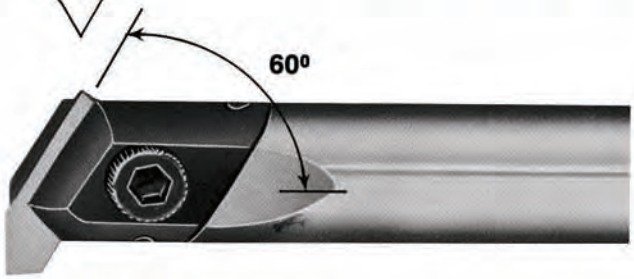
USED EXTENSIVELY WITH BORING BAR HOLDER NO. 3010

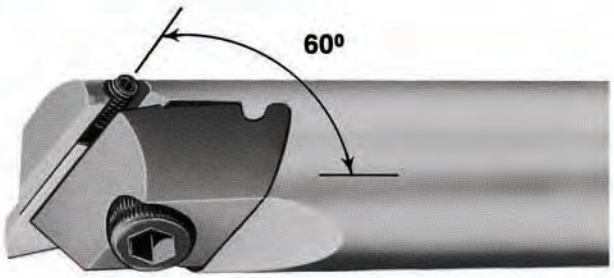
30⁰ Boring Bars

1500 - 1600 Series Nos.

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.





Basically Designed for Boring to a Shoulder

EVEREDE® Lathe Boring Bars without adjusting screws are especially designed for Engine Lathes

30⁰ LATHE BARS

TOOL BIT SIZE	BAR DIA.	BAR LENGTH	LATHE BAR PART NO.
5/32	3/8	7	1525
	7/16	7 5/8	1530
	1/2	8 1/4	1535
	9/16	8 3/4	1540
1/4	5/8	9 1/2	1545
	3/4	10	1550
	7/8	11	1555
	1	12	1565
5/16	1 1/8	15	1570
	1 1/4	17	1575
	1 3/8	19	1580
	1 1/2	22	1585

EVEREDE® Production Boring Bars are especially designed for Turret Lathes, and incorporate an adjusting screw behind the tool bit for quicker, fine adjustments.

30⁰ PRODUCTION BARS

TOOL BIT SIZE	BAR DIA.	BAR LENGTH	PRODUCTION BAR PART NO.
7/64	3/8M	7	1625
5/32	7/16	7 5/8	1630
	1/2	8 1/4	1635
	9/16	8 3/4	1640
1/4	5/8	9 1/2	1645
	3/4	10	1650
	7/8	11	1655
	1	12	1665
5/16	1 1/8	15	1670
	1 1/4	17	1675
	1 3/8	19	1680
	1 1/2	22	1685

30⁰ LATHE & 30⁰ PRODUCTION BAR SETS

LATHE SET NO.	BAR DIAMETERS INCLUDED	PROD. SET NO.	BAR DIAMETERS INCLUDED	REFERENCE	
				BUSHING SET NO.	BORING BAR HOLDER NO.
1500-A	3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	1600-A	3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1	3300	3030
1500-B	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	1600-B	3/8, 7/16, 1/2, 9/16, 5/8, 3/4	3200-B	3020
				3300-A	3030
1500-C	3/8, 1/2, 5/8, 3/4, 1	1600-C	3/8, 1/2, 5/8, 3/4, 1	3300-C	3030
1500-D	3/8, 7/16, 9/16, 5/8, 1	1600-D	3/8, 7/16, 9/16, 5/8, 1	3300-D	3030
1500-E	7/16, 9/16, 5/8, 1	1600-E	7/16, 9/16, 5/8, 1	3300-E	3030
1500-F	3/8, 1/2, 5/8, 3/4	1600-F	3/8, 1/2, 5/8, 3/4	3200-F	3020
				3300-C	3030

EVERY BAR INCL. ONE H.S.S. BIT, ONE ALLEN TYPE WRENCH. REF: TOOL ANGLE 60⁰ TO ℄ OF BAR.

FOR TOOL BITS, SEE PAGES 52-53.

Solid Carbide Boring Bars

1600C - 1600CL - 1800 - 1800L Series Nos. **EVEREDE TOOL CO.®**

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

Boring bars with solid carbide shanks have a modulus of elasticity three times stiffer than a steel bar, eliminating taper in bored holes due to deflection of the boring bar.

Solid carbide bars permit boring deeper and truer holes, resulting in higher production with longer tool life, closer tolerances and better finishes.

Same as standard production boring bars (No. 300 series with adjustment screw) except with a solid carbide shank for use in boring deep holes where maximum rigidity is essential.

Same as standard production boring bars (No. 1600 series with adjustment screw) except with a solid carbide shank used basically in boring to a shoulder.

TOOL BIT SIZE	BAR DIA	STANDARD LENGTH	BAR PART NO. 10° BAR**	BAR PART NO. 30° BAR***	LONG LENGTH	BAR PART NO. 10° BAR**	BAR PART NO. 30° BAR***
7/64	1/4*	6	1808	1608C	8	1808L	1608CL
	5/16	6	1815	1615C	8	1815L	1615CL
	3/8 Midget	6	1825	1625C	8	1825L	1625CL
5/32	7/16	6	1830	1630C	8	1830L	1630CL
	1/2	6	1835	1635C	8	1835L	1635CL
	9/16	6	1840	1640C	8	1840L	1640CL
1/4	5/8	8	1845	1645C	11	1845L	1645CL
	3/4	8	1850	1650C	11	1850L	1650CL
	7/8	8	1855	1655C	11	1855L	1655CL
	1	8	1865	1665C	11	1865L	1665CL
5/16	1 1/8	10	1870	1670C	14	1870L	1670CL
	1 1/4	10	1875	1675C	14	1875L	1675CL
	1 3/8	10	1880	1680C	14	1880L	1680CL
	1 1/2	10	1885	1685C	14	1885L	1685CL

*1/4 Bar does not have adjusting screw. **REF: Tool Angle 80° to ℄ of Bar ***REF: Tool Angle 60° to ℄ of Bar

NOTE:

- Special diameters and lengths available.
- Can be furnished in heavy metal (high density tungsten alloy)

FOR TOOL BITS, SEE PAGES 52-53.

90⁰ Grooving Bars

1300 Series Nos.

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FOR: YOUR INSIDE DIAMETER GROOVING NEEDS O-RINGS — SNAP RINGS — WIRE RINGS — SQUARE GROOVES — RADIUS GROOVES — SPECIAL MULTI-STEP GROOVES

TOOL BIT SIZE	BAR NUMBER	SHANK DIA.	BAR DIA.	BAR LENGTH	OVERALL LENGTH	CLEAR-ANCE	TOOL BIT ADJ. SCR.	TOOL BITS			
								H.S. STEEL		CARBIDE	
								NUMBER	LENGTH	NUMBER	LENGTH
7/64	1305	3/8	7/32	1 7/16	6	3/32	NO	20005 *	5/16	25020	7/16
	1310	3/8	17/64	1 5/8	6	3/32	NO	20010 *	3/8	25020	7/16
	1315	3/8	5/16	1 3/4	6	3/32	NO	20015 *	7/16	25020	7/16
	1325M	3/8	3/8	—	6	3/32	NO	20020 *	17/32	25020	7/16
5/32	1330	7/16	7/16	—	8	1/8	NO	20105	17/32	25110	1/2
	1335	1/2	1/2	—	8	1/8	NO	20110	19/32	25110	1/2
	1340	9/16	9/16	—	8	1/8	YES	20115	11/16	25120	5/8
	1345M	5/8	5/8	—	10	1/8	YES	20120	3/4	25120	5/8
1/4	1350	3/4	3/4	—	10	11/64	YES	20205	13/16	25205	3/4
	1355	7/8	7/8	—	10	11/64	YES	20210	31/32	25210	7/8
	1365	1	1	—	10	11/64	YES	20215	19/32	25215	1 1/8

* Available while supplies last.

ADD 'C' TO PART NO. FOR CARBIDE SHANK.
EXAMPLE: 1335C

TOOL BIT SPECIALS: SEND US YOUR REQUIREMENTS

PRICES & DELIVERY FURNISHED ON REQUEST

SNAP RING | RAD. GROOVE | STEP GROOVE | O-RING & CHAMF. | DOVETAIL

SINGLE or DOUBLE END: TYPICAL TOOL BIT SHAPES THAT CAN BE FURNISHED

Engine & Turret Lathe Holders

3000 - 3100 Series Nos. Including Barrels **EVEREDE TOOL CO.®**

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

The EVEREDE® Boring Bar Holders are adjustable by means of an eccentric barrel to various size lathes. Bushings are available for each bar purchased to enable the Holders to accommodate various size boring bars. The EVEREDE® Holders always keep the boring bars in a horizontal position regardless of any change of the size of lathe, within certain limits shown below.

The No. 3010* Boring Bar Holder is used extensively on precision bench lathes. The No. 3020, No. 3030 and 3035 Boring Bar Holders are used on engine lathes.

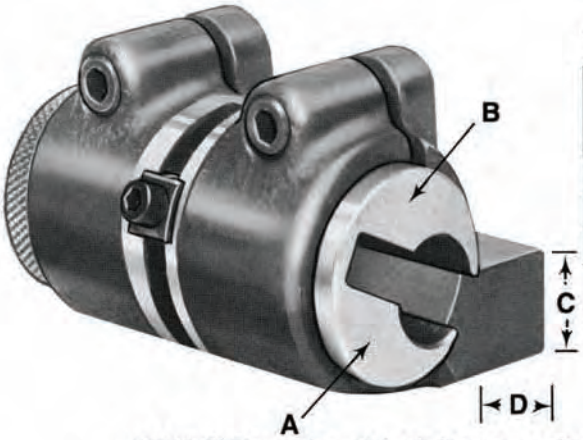
The Holders are made of case hardened alloy steel. A tool post block is attached to the engine lathe Holders by a chain.

ENGINE LATHE HOLDERS

PART NO.	A	HEIGHT OF HOLDER MIN	HEIGHT OF HOLDER MAX	BAR CAPACITY	BARREL* PT.NO. (B)	HOLDER ID & BARREL OD (C)	BARREL LENGTH	℄'s OFFSET	BLOCK PT. NO.	LATHE CAPACITY
3020	1 9/32	1	1 11/16	3/4	3120	1 1/2	3 7/16	11/32	3420 3/8T x 3/4H	8 to Incl 12" Swing
3030	1 13/16	1 1/2	2 3/8	1	3130	2	4 1/4	7/16	3430 5/8T x 1H	12 to Incl 24" Swing
3035	1 13/16	1 1/2	2 3/8	1 1/2	3140	2	4 1/4	13/16	3430 5/8T x 1H	12 to Incl 24" Swing

*ALL BARRELS ARE ECCENTRIC
BARREL CLAMP PT. NO. 3415
CHAIN PT. NO. 3425

EVEREDE® Boring Bar Holders are adjustable to various size Turret Lathes. Bushings are available to enable the Holders to accommodate various size boring bars. EVEREDE® Holders, by means of an eccentric barrel which can be clamped into proper position, always keep the boring bars truly horizontal regardless of any change of size of the lathe, within specified limits. The Holders are made of case hardened alloy steel.



TURRET LATHE HOLDERS

PART NO.	HEIGHT OF HOLDER MIN	HEIGHT OF HOLDER MAX	BAR CAPACITY	BARREL* PT. NO. (A)	HOLDER ID & BARREL OD (B)	BARREL LENGTH	℄'s OFFSET	C	D
3070	5/8	1 5/16	3/4	3120	1 1/2	3 7/16	11/32	3/4	3/4
3080*	1 5/16	1 13/16	1	3130	2	4 1/4	7/16	1	1
3085*	1 5/16	1 13/16	1 1/2	3140	2	4 1/4	13/64	1	1

*ALL BARRELS ARE ECCENTRIC
BARREL CLAMP PT. NO. 3415

• 3120-S Barrel has 1 inch bar capacity with 7/32 ℄'s Offset.

BARRELS ALSO SOLD SEPARATELY

* No longer offered. Shown for technical reference only.

Bushing Sets

3200 - 3300 Series Nos.

Used With Boring and Boring Bar Holders

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

¾″ O.D. BUSHINGS 2 15/16″ LG.

Used on No. 3020 or No. 3070 Boring Bar Holders

BUSHING SET NO.	USED WITH BORING BAR SET NO.	BAR DIA. OR BUSHING I.D.	5/16	3/8	7/16	1/2	9/16	5/8
		INDIV. BUSH. PART NO.	3215	3225	3230	3235	3240	3245
3200-A	300-B		X	X	X	X	X	X
3200-B	200-B, 1500-B			X	X	X	X	X
3200-F	200-F, 300-F, 1500-F			X		X		X

NOTE: Bushing not required for ¾″ bar — used directly in barrel of Boring Bar Holder.

1″ O.D. BUSHINGS 3½″ LG

Used on No. 3030 or No. 3080 Boring Bar Holders

BUSHING SET NO.	USED WITH BORING BAR SET NO.	BAR DIA. OR BUSHING I.D.	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8
		INDIV. BUSH. PART NO.	3315	3325	3330	3335	3340	3345	3350	3355
3300	200, 1500-A			X	X	X	X	X	X	X
3300-A	200-A, 200-B, 1500-B			X	X	X	X	X	X	
3300-C	200-C, 200-F, 300-F, 1500-C, 1500-F			X		X		X	X	
3300-D	200-D, 1500-D			X	X		X	X		
3300-E	200-E, 300-E, 1500-E				X		X	X		
3300-G	300		X	X	X	X	X	X	X	X
3300-H	300-A, 300-B		X	X	X	X	X	X	X	
3300-J	300-C			X		X	X	X	X	
3300-K	300-D		X		X		X	X		

NOTE: Bushing not required for 1″ bar — used directly in barrel of Boring Bar Holder.

1½″ O.D. BUSHINGS

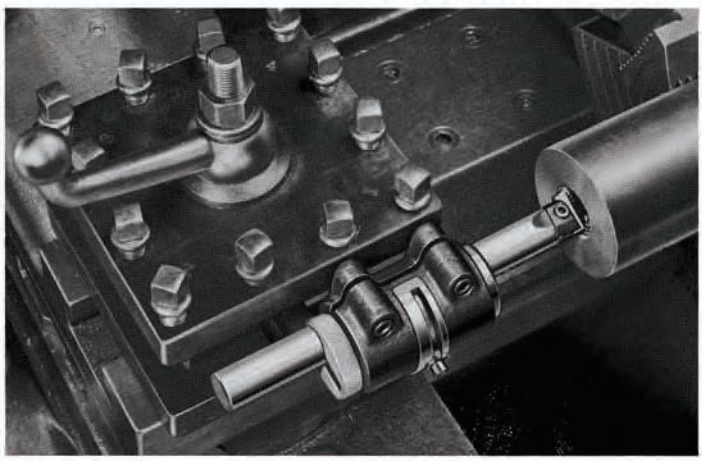
Used on No. 3035 or No. 3085 Boring Bar Holders

3½″ LG

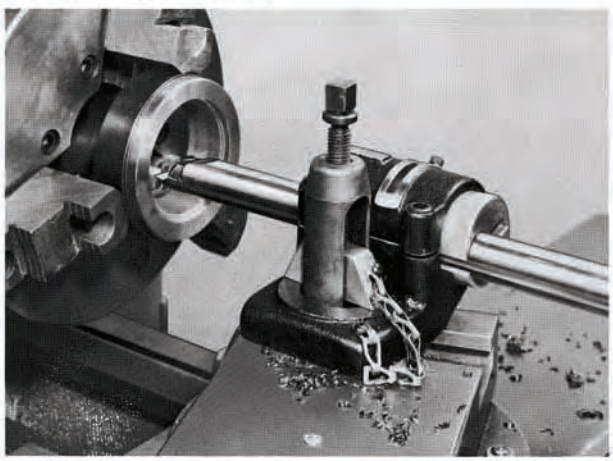
BAR DIA. OR BUSHING I.D.	1 1/8	1 1/4	1 3/8
INDIV. BUSH. PART NO.	3370	3375	3380

NOTE: Bushing not required for 1½″ bar — used directly in large barrel of Boring Bar Holder.

EVEREDE® Holders, Barrels & Bushings in Use



TURRET LATHE



ENGINE LATHE

Tool Bits

20000, 25000 Series Nos.

EVEREDE TOOL CO.®

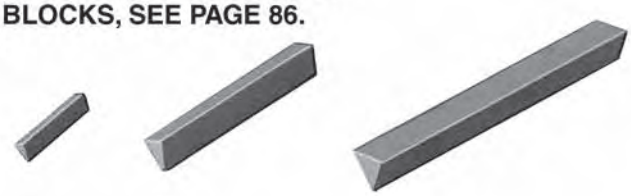
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

- **UNSHARPENED FOR ALL BARS**
- **SHARPENED 60° THREADING BITS FOR 10° & 15° STANDARD BARS**
- **THROWAWAY FOR ALL BARS**
- **SHARPENED FOR 30° BARS**
- **UNSHARPENED TOOL BITS (LONG LENGTH)**
  Only 5 different sizes for bars 7/32" to 3". Unsharpened bits can be square shoulder ground or lead angle ground depending upon job and clearances required. Long length resharpening to provide versatility for different tool geometry to suit material to be cut. All items are stocked.

TOOL BIT SIZE	FOR BORING BAR DIAMETERS	LATHE BARS				PRODUCTION BARS			
		HIGH SPEED STEEL		SOLID CARBIDE*		HIGH SPEED STEEL		SOLID CARBIDE*	
		LENGTH	TOOL BIT PART NO.	LENGTH	TOOL BIT PART NO.	LENGTH	TOOL BIT PART NO.	LENGTH	TOOL BIT PART NO.
7/64	7/32	5/16	20005 *	7/16	25020	—	—	—	—
	17/64	3/8	20010 *	7/16	25020	—	—	—	—
	5/16	7/16	20015 *	7/16	25020	3/8	20010	7/16	25020
	3/8 Midget	17/32	20020 *	7/16	25020	7/16	20015	7/16	25020
5/32	11/32 & 3/8	17/32	20105	1/2	25110	—	—	—	—
	7/16	19/32	20110	1/2	25110	17/32	20105	1/2	25110
	1/2	11/16	20115	5/8	25120	19/32	20110	5/8	25120
	9/16	3/4	20120	5/8	25120	11/16	20115	5/8	25120
	435 Bar	3/4	20120	5/8	25120	—	—	—	—
	Jig Ext. Bar	3	20180	—	—	—	—	—	—
	Lathe Ext. Bar	5	20190	—	—	—	—	—	—
1/4	5/8	13/16	20205	3/4	25205	13/16	20205	3/4	25205
	3/4	31/32	20210	7/8	25210	13/16	20205	7/8	25210
	7/8	19/32	20215	1 1/8	25215	31/32	20210	7/8	25210
	15/16	19/32	20215	1 1/8	25215	—	—	—	—
	1	19/32	20215	1 1/8	25215	19/32	20215	1 1/8	25215
5/16	1 1/8	1 1/2	20305	1 1/4	25305	1 1/2	20305	1 3/8	25310
	1 1/4	1 5/8	20310	1 3/8	25310	1 1/2	20305	1 3/8	25310
	1 3/8	1 3/4	20315	1 3/8	25310	1 5/8	20310	1 3/8	25310
	1 1/2	1 7/8	20320	1 3/4	25320	1 3/4	20315	1 3/4	25320
7/16	1 3/4	2 1/4	20430	2	25427				
	460 Bar	2 1/4	20430	2	25427				
	475 Bar	3	20445	3	25447				

FOR TOOL BITS GRINDING BLOCKS, SEE PAGE 86.

*Available while supplies last.



PLEASE ORDER BY TOOL BIT NUMBER

- **SHARPENED 60° THREADING BITS FOR 10° - 15° STANDARD BARS**

TOOL BIT SIZE	FOR BORING BAR DIAMETERS	HIGH SPEED STEEL		SOLID CARBIDE*	
		LENGTH	TOOL BIT PART NO.	LENGTH	TOOL BIT PART NO.
7/64	7/32 Thru 3/8 Midget	1/2	20021	7/16	25021
5/32	11/32 Thru 9/16	9/16	20111	1/2	25111
1/4	5/8 Thru 1	15/16	20211	7/8	25211
5/16	1 1/8 Thru 1 1/2	1 1/2	20306	1 1/4	25306

* SOLID CARBIDE BITS AVAILABLE IN APPLICATION CLASS C-2, C-4, C-6 AND C-8 — PLEASE SPECIFY CLASS REQUIRED OR MATERIAL TO BE CUT.

Tool Bits

20000, 25000 Series Nos.

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

• EVEREDE® THROW-AWAY INSERTS . . .

Increase range of boring bar diameters. Only EVEREDE® offers throw-away inserts for use in boring bars from 7/32" to 1 1/2" diameter inclusive.

Reduce insert inventory. Just 4 sizes are necessary to provide cutting edges for all boring bar diameters in this 7/32" to 1 1/2" range.

Receive larger quantity discounts. Since less insert sizes are required, you can combine many small orders for various bars into fewer — but larger — orders.

Achieve greater versatility. Only EVEREDE® offers 4 different sizes of nose radii for each of 4 different sizes of throw-away inserts — at no extra cost.

Increase productivity. Now you can economically bore at high-velocity speeds. Both ends of the tool bits are pre-sharpened.

Use heavy cuts and fast feeds. Our unique boring bar — throw-away insert combination provides the same chip clearance possible with a regrindable insert.

Get immediate delivery. All EVEREDE® inserts are available from stock in the various application classes and every size.

PRE-SHARPENED THROW-AWAY CARBIDE

TOOL BIT SIZE	FOR BORING BAR DIAMETERS	10° & 15° BAR TOOL BIT LENGTH	10° & 15° BAR TOOL BIT PART NO.
7/64 ▼	7/32, 17/64, 5/16, & 3/8 M	1/4	25005
5/32 ▼	11/32, 3/8, 7/16, 1/2, & 9/16	5/16	25115
1/4 ▼	5/8, 3/4, 7/8, 15/16, & 1	1/2	25235
5/16 — ▼	1 1/8, 1 1/4, 1 3/8, & 1 1/2	9/16	25345

Nose Radii: .005, .010, .020, .030 Application Classes: C-2, C-4, C-6, C-8
When Ordering: Please specify Part no., Nose Radii, and Application Class desired.
Example: 25005 — 10 — C-6

• SHARPENED TOOL BITS FOR 30° BARS

Preformed Triangular H.S.S. or Solid Carbide FROM STOCK

TOOL BIT SIZE	FOR BORING BAR DIAMETERS	HIGH SPEED STEEL		SOLID CARBIDE*	
		LENGTH	TOOL BIT PART NO.	LENGTH	TOOL BIT PART NO.
7/64 ▼	7/32, 17/64, 5/16, 3/8 M	3/8	20012	15/32	25012
5/32 ▼	3/8, 7/16, 1/2 & 9/16 DIA.	9/16	20112	15/32	25112
1/4 ▼	5/8, 3/4, 7/8 & 1 DIA.	15/16	20212	7/8	25212
5/16 — ▼	1 1/8 1 1/4, 1 3/8 & 1 1/2 DIA.	1 1/16	20312	1 3/8	25312

*SOLID CARBIDE BITS AVAILABLE IN APPLICATION CLASS C-2, C-4, C-6 AND C-8 — PLEASE SPECIFY CLASS REQUIRED OR MATERIAL TO BE CUT.

PLEASE ORDER BY TOOL BIT NUMBER

EVEREDE® Tungsten Carbide Grade Selection Chart

To Machine:
Cast Iron • Aluminum • Brass • Graphite • Kevlar • Other Composite Material or Non-Ferrous Metals • Austenitic Stainless Steel (Type 300 & 200B-3 - Non Magnetic)

GRADE C2 ⟷ GENERAL PURPOSE — TOUGHNESS — PRECISION BORING — WEAR — ⟷ GRADE C4

To Machine:
Steel & Steel Alloys or Other Ferrous Metals
Ferritic & Martensitic Stainless Steel (Type 400 - Magnetic)

GRADE C6 ⟷ GENERAL PURPOSE — TOUGHNESS — PRECISION BORING — WEAR — ⟷ GRADE C8

Grinding Blocks/For Tool Bits

7100 - 7300 Series Nos.

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

QUILL BIT TYPE GRINDING BLOCKS:

Equipped with Quill to hold triangular tool bits for sharpening. Quill should be rotated at the same side rake as the bits are used to facilitate grinding the desired lead & relief angles.

FOR USE WITH:
Sine Vise, Magnetic Chuck & Surface Grinder or Tilt Table Grinder

PART NO.	BIT SIZE	BIT TYPE	BAR TYPE	BASIC SIZE
7100	7/64	Unsharpened Quill	Special Quill	1/2 x 1 x 3
7110	5/32	Unsharpened Quill	Special Quill	1/2 x 1 x 3
7120	1/4	Unsharpened Quill	Special Quill	3/4 x 1 1/4 x 3
7130	5/16	Unsharpened Quill	Special Quill	3/4 x 1 1/4 x 3

THREADING & STANDARD BIT "FLIP" GRINDING BLOCKS:

Standard, boring and threading bits are positioned in the blocks to grind the proper included angles with clearance, eliminating the time consuming problem of compound angle set-ups. For correct position after grinding, set the boring bar parallel to the work, producing either a square shoulder bore or a perfect thread without the use of a center gage.

Part No. 7180

FOR USE WITH:
Magnetic Chuck on Surface Grinder

7140	7/16, 9/16, 11/16	Unsharpened	L or R Hand Tool Holder	1 x 3 x 3
7150	5/32, 1/4, 5/16	14 1/2 Acme	80°	1 1/4 x 2 x 3
7160	7/64, 5/32, 1/4, 5/16	60° Threading	75° & 80°	1 1/4 x 1 1/4 x 3 1/2
7170	7/64, 5/32, 1/4, 5/16	Unsharpened	75° & 80°	2 x 2 1/4 x 2 1/4
7180	5/32, 1/4, 5/16	Unsharpened	30°	2 x 2 1/4 x 2 1/4
7185	5/32, 1/4, 5/16	Unsharpened	80°	1 x 1 x 2
7190	7/64	Unsharpened	75°	1 x 1 x 2

STANDARD TOOL BIT GRINDING BLOCKS:

For sharpening unground triangular tool bits. This fixture utilizes to hold down caps, one cap secures tool bit in block and the other holds the adjustable stop. The grinding block is milled with the tool bit positioned for standard bars.

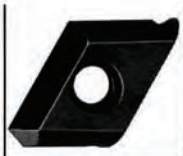
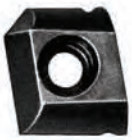
FOR USE WITH:
Sine Vise, Magnetic Chuck & Surface Grinder or Tilt Table Grinder

7300	7/64	Unsharpened	All Bars	1/2 x 1 x 3
7310	5/32	Unsharpened	All Bars	5/8 x 1 x 3
7320	1/4	Unsharpened	All Bars	3/4 x 1 x 4
7330	5/16	Unsharpened	All Bars	1 x 1 x 4

Replacement Parts / All EVEREDE Boring Bars

EVEREDE TOOL CO.®

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TOOL ANGLE* ℄ BAR					FOR PRODUCTION TYPE BARS ONLY 
BORING BAR DIAMETER	CAPS OR CLAMPS FOR MIDGET & 10° & 15° BARS	CAPS OR CLAMPS FOR 30° BARS	CAPS OR CLAMPS FOR 90° BARS	SOC. HD. CAP SCR. OR CLAMP SCREW	TOOL BIT ADJUSTMENT SCREW
	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
7/32	2005	2105	2205	19002	—
17/64	2010	2110	2210	19004	—
5/16	2015	2115	2215	19004	19210
3/8M	2026	2126	2226	19005	19210
11/32	2020	—	—	19005	—
3/8	2025	2125	—	19005	—
7/16	2030	2130	2230	19005	19210
1/2	2035	2135	2235	19006	19210
9/16 Dia. & #1100 SET OFFSET BAR	2040	2140	2240	19142	19210
JIG EXTENSION BAR	—	—	—	—	19242
LATHE EXTENSION BAR	—	—	—	—	19242
5/8	2045	2145	2245M	19151	19240
3/4	2050	2150	2250	19153	19240
7/8	2055	2155	2255	19164	19240
15/16	2060	—	—	19164	—
1	2065	2165	2265	19164	19240
1 1/8	2070	2170	—	19172	19251
1 1/4	2075	2175	—	19172	19251
1 3/8	2080	2180	—	19172	19251
1 1/2	2085	2185	—	19172	19251
1 3/4	2087	—	—	19172 (2)	—
#1400 SET OFFSET BAR	2071	—	—	19172 (1)	—
#1200 SET OFFSET BAR	2087	—	—	19172 (1)	—
2 & 2 1/4	2087	—	—	19172 (2)	—
2 1/2	2087	—	—	19172 (2)	—
3 & OVER	2087	—	—	19172 (2)	—

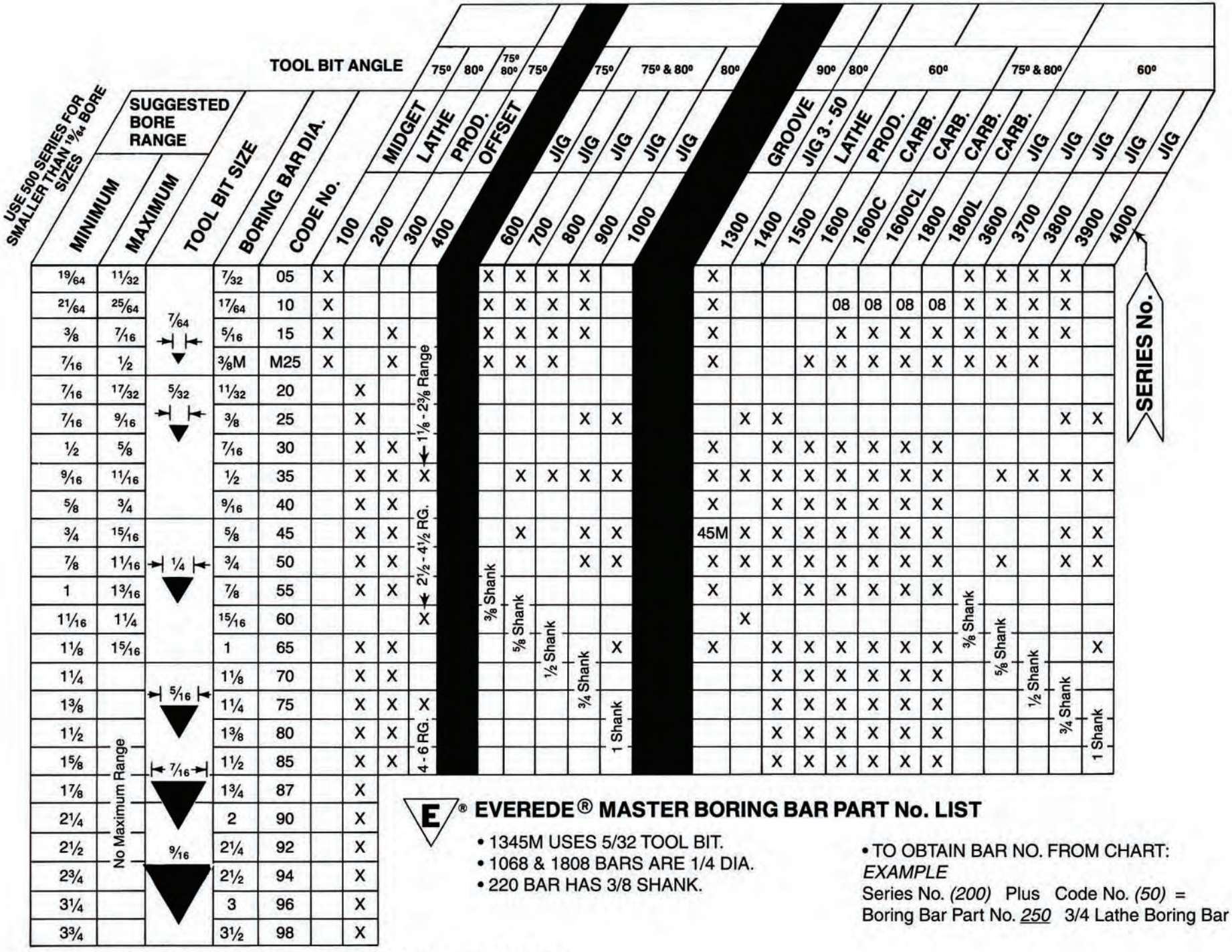
***TOOL ANGLE REFERENCE:**

MIDGET BARS (7/32) Dia. thru 3/8M — Clamp Bit at 75° to ℄ of Bar

10° & 15° BARS (Lathe, Offset, Jig and Prod.) — Clamp Bit at 80° to ℄ of Bar

30° BARS (Lathe and Jig) — Clamp Bit at 60° to ℄ of Bar

90° BARS — Clamp Bit at 90° to ℄ of Bar



E® EVEREDE® MASTER BORING BAR PART No. LIST

- 1345M USES 5/32 TOOL BIT.
- 1068 & 1808 BARS ARE 1/4 DIA.
- 220 BAR HAS 3/8 SHANK.

- TO OBTAIN BAR NO. FROM CHART:

EXAMPLE

Series No. *(200)* Plus Code No. *(50)* =
Boring Bar Part No. *250* 3/4 Lathe Boring Bar

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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Indexable

Modified Standards:

Countersinks, chamfer mills, counter bores, boring bars

Complete Custom Tooling:

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Back boring bars, profile bars, groove bars, and features/form generating tooling

Multi-operation and /or multi-step tooling, endmills, porting tools, spade drills

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Utilizing special and/or ISO standard inserts

Engineered from piece part drawings *or samples*

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