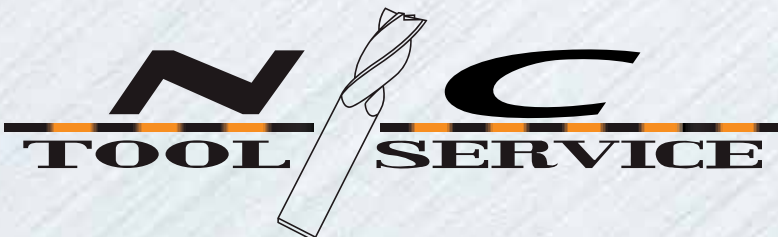


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ANSI & NAS 986 SPECIFICATION



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VERSION 822

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3 FLUTE CARBIDE



HPC

OD	SD	LOC	OAL	Square End	.010	.030	.060	.090	.120	.190	.250
1/8	1/8	1/4	1-1/2	E5G95008	E5G97008	E5G97901	-	-	-	-	-
		3/8	1-1/2	E5G95901	E5G97902	E5G97903	-	-	-	-	-
3/16	3/16	5/16	2	E5G95012	E5G97012	E5G97904	-	-	-	-	-
		9/16	2	E5G95902	E5G97905	E5G97906	-	-	-	-	-
1/4	1/4	3/8	2	E5G95016	E5G97016	E5G97907	E5G97908	-	-	-	-
		5/8	2-1/2	E5G95903	E5G97909	E5G97910	E5G97911	-	-	-	-
		1-1/4	3-1/4	E5G95904	E5G97912	E5G97913	E5G97914	-	-	-	-
5/16	5/16	7/16	2	E5G95020	E5G97020	E5G97915	E5G97916	E5G97917	-	-	-
		5/8	2-1/2	E5G95905	E5G97918	E5G97919	E5G97920	E5G97921	-	-	-
		1-1/4	3-1/2	E5G95906	E5G97922	E5G97923	E5G97924	E5G97925	-	-	-
3/8	3/8	1/2	2	E5G95024	E5G97024	E5G97926	E5G97927	E5G97928	E5G97929	-	-
		1	2-1/2	E5G95907	E5G97930	E5G97931	E5G97932	E5G97933	E5G97934	-	-
		1-1/2	3-1/2	E5G95908	E5G97935	E5G97936	E5G97937	E5G97938	E5G97939	-	-
		2	4	E5G95909	E5G97940	E5G97941	E5G97942	E5G97943	E5G97944	-	-
7/16	7/16	9/16	2-1/2	E5G95028	E5G97028	E5G97945	E5G97946	E5G97947	E5G97948	-	-
		1-1/4	2-3/4	E5G95910	E5G97949	E5G97950	E5G97951	E5G97952	E5G97953	-	-
		2	4	E5G95911	E5G97954	E5G97955	E5G97956	E5G97957	E5G97958	-	-
1/2	1/2	5/8	2-1/2	E5G95032	E5G97032	E5G97959	E5G97960	E5G97961	E5G97962	E5G97963	-
		1	3	E5G95927	E5G97879	E5G97880	E5G97881	E5G97882	E5G97883	E5G97884	-
		1-1/4	3	E5G95912	E5G97964	E5G97965	E5G97966	E5G97967	E5G97968	E5G97969	-
		1-5/8	4	E5G95913	E5G97970	E5G97971	E5G97972	E5G97973	E5G97974	E5G97975	-
		2	4	E5G95914	E5G97976	E5G97977	E5G97978	E5G97979	E5G97980	E5G97981	-
5/8	5/8	3/4	3	E5G95040	E5G97040	E5G97994	E5G97995	E5G97996	E5G97997	E5G97998	-
		1-5/8	3-1/2	E5G95917	E5G97999	E5G97801	E5G97802	E5G97803	E5G97804	E5G97805	-
		2-1/2	5	E5G95918	E5G97806	E5G97807	E5G97808	E5G97809	E5G97810	E5G97811	-
		3	5-1/4	E5G95919	E5G97812	E5G97813	E5G97814	E5G97815	E5G97816	E5G97817	-
3/4	3/4	1	3	E5G95048	E5G97048	E5G97818	E5G97819	E5G97820	E5G97821	E5G97822	E5G97823
		1-5/8	4	E5G95920	E5G97824	E5G97825	E5G97826	E5G97827	E5G97828	E5G97829	E5G97830
		2-1/4	5	E5G95921	E5G97831	E5G97832	E5G97833	E5G97834	E5G97835	E5G97836	E5G97837
		3-1/4	6	E5G95922	E5G97838	E5G97839	E5G97840	E5G97841	E5G97842	E5G97843	E5G97844
		4	6-1/4	E5G95923	E5G97845	E5G97846	E5G97847	E5G97848	E5G97849	E5G97850	E5G97851
1	1	1-1/4	3	E5G95064	E5G97064	E5G97852	E5G97853	E5G97854	E5G97855	E5G97856	E5G97857
		1-1/4	4	E5G95928	E5G97885	E5G97886	E5G97887	E5G97888	E5G97889	E5G97890	E5G97891
		2	5	E5G95924	E5G97858	E5G97859	E5G97860	E5G97861	E5G97862	E5G97863	E5G97864
		3-1/4	6	E5G95925	E5G97865	E5G97866	E5G97867	E5G97868	E5G97869	E5G97870	E5G97871
		4	7	E5G95926	E5G97872	E5G97873	E5G97874	E5G97875	E5G97876	E5G97877	E5G97878



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OD	SD	LOC	LBS	OAL	Square End	.010	.030	.060	.090	.120	.190	.250
1/4	1/4	3/8	3/4	2-1/2	E5G96016	E5G98016	E5G98901	E5G98902	-	-	-	-
		3/8	1-1/8	3	E5G96901	E5G98903	E5G98904	E5G98905	-	-	-	-
3/8	3/8	1/2	1-1/8	3	E5G96024	E5G98024	E5G98906	E5G98907	E5G98908	E5G98909	-	-
		1/2	2-1/8	4	E5G96902	E5G98910	E5G98911	E5G98912	E5G98913	E5G98914	-	-
1/2	1/2	5/8	1-3/8	3	E5G96032	E5G98032	E5G98915	E5G98916	E5G98917	E5G98918	E5G98919	-
		5/8	2-1/4	4	E5G96903	E5G98920	E5G98921	E5G98922	E5G98923	E5G98924	E5G98925	-
		5/8	3-3/8	5	E5G96904	E5G98926	E5G98927	E5G98928	E5G98929	E5G98930	E5G98931	-
		5/8	4-1/4	6	E5G96905	E5G98932	E5G98933	E5G98934	E5G98935	E5G98936	E5G98937	-
5/8	5/8	3/4	1-5/8	4	E5G96040	E5G98040	E5G98938	E5G98939	E5G98940	E5G98941	E5G98942	-
		3/4	3-3/8	6	E5G96906	E5G98943	E5G98944	E5G98945	E5G98946	E5G98947	E5G98948	-
3/4	3/4	1	2	4	E5G96048	E5G98048	E5G98949	E5G98950	E5G98951	E5G98952	E5G98953	E5G98954
		1	3-3/8	6	E5G96907	E5G98955	E5G98956	E5G98957	E5G98958	E5G98959	E5G98960	E5G98961
		1	5	7	E5G96908	E5G98962	E5G98963	E5G98964	E5G98965	E5G98966	E5G98967	E5G98968
1	1	1-1/4	2-5/8	5	E5G96064	E5G98064	E5G98969	E5G98970	E5G98971	E5G98972	E5G98973	E5G98974
		1-1/4	3-3/8	6	E5G96909	E5G98975	E5G98976	E5G98977	E5G98978	E5G98979	E5G98980	E5G98981
		1-1/4	4-3/8	7	E5G96910	E5G98982	E5G98983	E5G98984	E5G98985	E5G98986	E5G98987	E5G98988
		1-1/4	6	9	E5G96911	E5G98989	E5G98990	E5G98991	E5G98992	E5G98993	E5G98994	E5G98995

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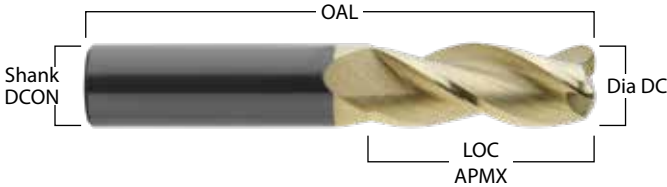


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3 FLUTE CARBIDE



AFI

Dia DC	Shank DCON	LOC APMX	OAL OAL/FL	Coating	Style	Square	.015	.030	.060	.090
1/8	1/8	1/4	1-1/2		32460-00-D	41000-00-D	41001-00-D			
		1/4	1-1/2	C5	32460-86-D	41000-86-D	41001-86-D			
		3/8	1-1/2		32300-00-D	41002-00-D	41003-00-D			
		3/8	1-1/2	C5	32300-86-D	41002-86-D	41003-86-D			
3/16	3/16	5/16	2		32468-00-D	41004-00-D	41005-00-D			
		5/16	2	C5	32468-86-D	41004-86-D	41005-86-D			
		9/16	2		32308-00-D	41006-00-D	41007-00-D			
		9/16	2	C5	32308-86-D	41006-86-D	41007-86-D			
1/4	1/4	3/8	2		32476-00-D	41008-00-D	41009-00-D	41021-00-D		
		3/8	2	C5	32476-86-D	41008-86-D	41009-86-D	41021-86-D		
		5/8	2-1/2		32316-00-D	41023-00-D	41025-00-D	41027-00-D		
		5/8	2-1/2	C5	32316-86-D	41023-86-D	41025-86-D	41027-86-D		
		1-1/4	3-1/4		32380-00-D	41029-00-D	41030-00-D	41031-00-D		
		1-1/4	3-1/4	C5	32380-86-D	41029-86-D	41030-86-D	41031-86-D		
5/16	5/16	7/16	2		32484-00-D	41032-00-D	41033-00-D	41034-00-D		
		7/16	2	C5	32484-86-D	41032-86-D	41033-86-D	41034-86-D		
		5/8	2-1/2		32324-00-D	41035-00-D	41036-00-D	41037-00-D		
		5/8	2-1/2	C5	32324-86-D	41035-86-D	41036-86-D	41037-86-D		
		1-1/4	3-1/2		32388-00-D	41038-00-D	41039-00-D	41040-00-D		
		1-1/4	3-1/2	C5	32388-86-D	41038-86-D	41039-86-D	41040-86-D		
		2-1/8	4		32540-00-D	41041-00-D	41042-00-D	41043-00-D		
		2-1/8	4	C5	32540-86-D	41041-86-D	41042-86-D	41043-86-D		
3/8	3/8	1/2	2		32492-00-D	41044-00-D	41045-00-D	41046-00-D	41047-00-D	
		1/2	2	C5	32492-86-D	41044-86-D	41045-86-D	41046-86-D	41047-86-D	
		1	2-1/2		32332-00-D	41048-00-D	41049-00-D	41050-00-D	41051-00-D	
		1	2-1/2	C5	32332-86-D	41048-86-D	41049-86-D	41050-86-D	41051-86-D	
		1-1/4	3		51600-00-D	41052-00-D	41053-00-D	41054-00-D	41055-00-D	
		1-1/4	3	C5	51600-86-D	41052-86-D	41053-86-D	41054-86-D	41055-86-D	
		1-1/2	3-1/2		32396-00-D	41056-00-D	41057-00-D	41058-00-D	41059-00-D	
		1-1/2	3-1/2	C5	32396-86-D	41056-86-D	41057-86-D	41058-86-D	41059-86-D	
		2-1/2	6		32548-00-D	41060-00-D	41061-00-D	41062-00-D	41063-00-D	
		2-1/2	6	C5	32548-86-D	41060-86-D	41061-86-D	41062-86-D	41063-86-D	
7/16	7/16	9/16	2-1/2		32500-00-D	41064-00-D	41065-00-D	41066-00-D	41067-00-D	
		9/16	2-1/2	C5	32500-86-D	41064-86-D	41065-86-D	41066-86-D	41067-86-D	
		1-1/4	2-3/4		32340-00-D	41068-00-D	41069-00-D	41070-00-D	41071-00-D	
		1-1/4	2-3/4	C5	32340-86-D	41068-86-D	41069-86-D	41070-86-D	41071-86-D	
		2	4		32404-00-D	41072-00-D	41073-00-D	41074-00-D	41075-00-D	
		2	4	C5	32404-86-D	41072-86-D	41073-86-D	41074-86-D	41075-86-D	
1/2	1/2	5/8	2-1/2		32508-00-D	41076-00-D	41077-00-D	41078-00-D	41079-00-D	41080-00-D
		5/8	2-1/2	C5	32508-86-D	41076-86-D	41077-86-D	41078-86-D	41079-86-D	41080-86-D
		1-1/4	3		32348-00-D	41081-00-D	41082-00-D	41083-00-D	41084-00-D	41085-00-D
		1-1/4	3	C5	32348-86-D	41081-86-D	41082-86-D	41083-86-D	41084-86-D	41085-86-D
		1-5/8	4		51607-00-D	41086-00-D	41087-00-D	41088-00-D	41089-00-D	41090-00-D
		1-5/8	4	C5	51607-86-D	41086-86-D	41087-86-D	41088-86-D	41089-86-D	41090-86-D
		2	4		32412-00-D	41091-00-D	41092-00-D	41093-00-D	41094-00-D	41095-00-D

Dia DC	Shank DCON	LOC APMX	OAL OAL/FL	Coating	Style	Square	.015	.030	.060	.090
		2	4	C5	32412-86-D	41091-86-D	41092-86-D	41093-86-D	41094-86-D	41095-86-D
		3-1/8	6		32556-00-D	41096-00-D	41097-00-D	41098-00-D	41099-00-D	44761-00-D
		3-1/8	6	C5	32556-86-D	41096-86-D	41097-86-D	41098-86-D	41099-86-D	44761-86-D
5/8	5/8	3/4	3		32516-00-D	44763-00-D	44765-00-D	44766-00-D	44767-00-D	
		3/4	3	C5	32516-86-D	44763-86-D	44765-86-D	44766-86-D	44767-86-D	
		1-5/8	3-1/2		32356-00-D	44768-00-D	44769-00-D	44770-00-D	44771-00-D	
		1-5/8	3-1/2	C5	32356-86-D	44768-86-D	44769-86-D	44770-86-D	44771-86-D	
		2-1/8	4		51614-00-D	44772-00-D	44773-00-D	44774-00-D	44775-00-D	
		2-1/8	4	C5	51614-86-D	44772-86-D	44773-86-D	44774-86-D	44775-86-D	
		2-1/2	5		32420-00-D	44776-00-D	44777-00-D	44778-00-D	44779-00-D	
		2-1/2	5	C5	32420-86-D	44776-86-D	44777-86-D	44778-86-D	44779-86-D	
		3-3/4	6		32564-00-D	44780-00-D	44781-00-D	44782-00-D	44783-00-D	
		3-3/4	6	C5	32564-86-D	44780-86-D	44781-86-D	44782-86-D	44783-86-D	
3/4	3/4	1	3		32524-00-D	44784-00-D	44785-00-D	44786-00-D	44787-00-D	44788-00-D
		1	3	C5	32524-86-D	44784-86-D	44785-86-D	44786-86-D	44787-86-D	44788-86-D
		1-5/8	4		32364-00-D	44789-00-D	44790-00-D	44791-00-D	44792-00-D	44793-00-D
		1-5/8	4	C5	32364-86-D	44789-86-D	44790-86-D	44791-86-D	44792-86-D	44793-86-D
		2-1/4	5		32444-00-D	44794-00-D	44795-00-D	44796-00-D	44797-00-D	44798-00-D
		2-1/4	5	C5	32444-86-D	44794-86-D	44795-86-D	44796-86-D	44797-86-D	44798-86-D
		3-1/4	6		32428-00-D	44799-00-D	44800-00-D	44801-00-D	44802-00-D	44803-00-D
		3-1/4	6	C5	32428-86-D	44799-86-D	44800-86-D	44801-86-D	44802-86-D	44803-86-D
		4	6-1/2		32572-00-D	44804-00-D	44805-00-D	44806-00-D	44807-00-D	44808-00-D
		4	6-1/2	C5	32572-86-D	44804-86-D	44805-86-D	44806-86-D	44807-86-D	44808-86-D
1	1	1-1/4	4		32532-00-D	44809-00-D	44810-00-D	44811-00-D	44812-00-D	44813-00-D
		1-1/4	4	C5	32532-86-D	44809-86-D	44810-86-D	44811-86-D	44812-86-D	44813-86-D
		2	5		32372-00-D	44814-00-D	44815-00-D	44816-00-D	44817-00-D	44818-00-D
		2	5	C5	32372-86-D	44814-86-D	44815-86-D	44816-86-D	44817-86-D	44818-86-D
		2-5/8	6		32452-00-D	44819-00-D	44820-00-D	44821-00-D	44822-00-D	44823-00-D
		2-5/8	6	C5	32452-86-D	44819-86-D	44820-86-D	44821-86-D	44822-86-D	44823-86-D
		3-1/4	6		32436-00-D	44824-00-D	44825-00-D	44826-00-D	44827-00-D	44828-00-D
		3-1/4	6	C5	32436-86-D	44824-86-D	44825-86-D	44826-86-D	44827-86-D	44828-86-D
		4-1/8	7		32580-00-D	44829-00-D	44830-00-D	44831-00-D	44832-00-D	44833-00-D
		4-1/8	7	C5	32580-86-D	44829-86-D	44830-86-D	44831-86-D	44832-86-D	44833-86-D

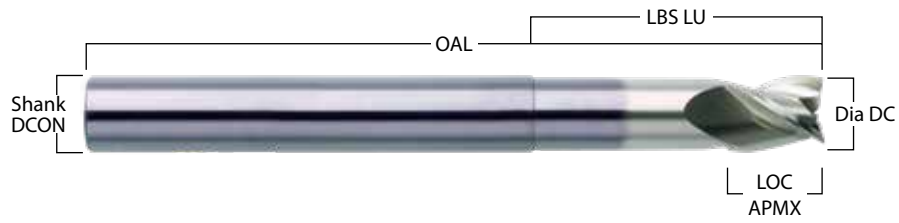


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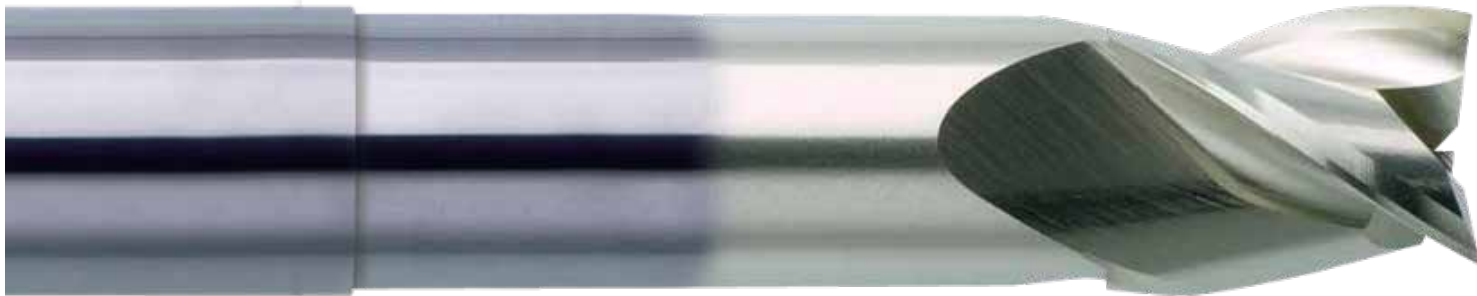
3 FLUTE CARBIDE



HVM-3

Dia DC	Shank DCON	LOC APMX	OAL OAL/ FL	LBS LU	Neck Dia DN	Radius	EDP	C4 EDP	C5 EDP
1/4	1/4	3/8	2-1/2	1-1/8	0.235		51886-00-D	51886-89-D	51886-86-D
		3/8	4	2-1/8	0.235		51916-00-D	51916-89-D	51916-86-D
		3/8	2-1/2	1-1/8	0.235	.015	37578-00-D	37578-89-D	37578-86-D
		3/8	4	2-1/8	0.235	.015	37579-00-D	37579-89-D	37579-86-D
		3/8	2-1/2	1-1/8	0.235	.030	37580-00-D	37580-89-D	37580-86-D
		3/8	4	2-1/8	0.235	.030	37581-00-D	37581-89-D	37581-86-D
3/8	3/8	1/2	2-1/2	1-1/8	0.355		51891-00-D	51891-89-D	51891-86-D
		1/2	4	2-1/8	0.355		51921-00-D	51921-89-D	51921-86-D
		1/2	2-1/2	1-1/8	0.355	.015	37582-00-D	37582-89-D	37582-86-D
		1/2	4	2-1/8	0.355	.015	37583-00-D	37583-89-D	37583-86-D
		1/2	2-1/2	1-1/8	0.355	.030	37584-00-D	37584-89-D	37584-86-D
		1/2	4	2-1/8	0.355	.030	37585-00-D	37585-89-D	37585-86-D
1/2	1/2	5/8	3	1-3/8	0.475		51896-00-D	51896-89-D	51896-86-D
		5/8	4	2-1/8	0.475		51926-00-D	51926-89-D	51926-86-D
		5/8	6	3-3/8	0.475		51946-00-D	51946-89-D	51946-86-D
		5/8	3	1-3/8	0.475	.030	37586-00-D	37586-89-D	37586-86-D
		5/8	4	2-1/8	0.475	.030	37587-00-D	37587-89-D	37587-86-D
		5/8	6	3-3/8	0.475	.030	37588-00-D	37588-89-D	37588-86-D
		5/8	3	1-3/8	0.475	.060	37589-00-D	37589-89-D	37589-86-D
		5/8	4	2-1/8	0.475	.060	37590-00-D	37590-89-D	37590-86-D
		5/8	6	3-3/8	0.475	.060	37591-00-D	37591-89-D	37591-86-D
		5/8	6	3-3/8	0.475	.060	37591-00-D	37591-89-D	37591-86-D
5/8	5/8	3/4	4	1-5/8	0.590		51901-00-D	51901-89-D	51901-86-D
		3/4	6	2-3/8	0.590		51931-00-D	51931-89-D	51931-86-D
		3/4	6	3-3/8	0.590		51951-00-D	51951-89-D	51951-86-D
		3/4	4	1-5/8	0.590	.030	37592-00-D	37592-89-D	37592-86-D
		3/4	6	2-3/8	0.590	.030	37593-00-D	37593-89-D	37593-86-D
		3/4	6	3-3/8	0.590	.030	37594-00-D	37594-89-D	37594-86-D
		3/4	4	1-5/8	0.590	.060	37595-00-D	37595-89-D	37595-86-D
		3/4	6	2-3/8	0.590	.060	37596-00-D	37596-89-D	37596-86-D
		3/4	6	3-3/8	0.590	.060	37597-00-D	37597-89-D	37597-86-D
		3/4	6	3-3/8	0.590	.060	37597-00-D	37597-89-D	37597-86-D
3/4	3/4	1	4	2	0.715		51906-00-D	51906-89-D	51906-86-D
		1	6	2-1/2	0.715		51936-00-D	51936-89-D	51936-86-D
		1	6	3-3/8	0.715		51956-00-D	51956-89-D	51956-86-D
		1	4	2	0.715	.030	37598-00-D	37598-89-D	37598-86-D
		1	6	2-1/2	0.715	.030	37599-00-D	37599-89-D	37599-86-D
		1	6	3-3/8	0.715	.030	37600-00-D	37600-89-D	37600-86-D
		1	4	2	0.715	.060	37601-00-D	37601-89-D	37601-86-D
		1	6	2-1/2	0.715	.060	37602-00-D	37602-89-D	37602-86-D
		1	6	3-3/8	0.715	.060	37603-00-D	37603-89-D	37603-86-D
		1	4	2	0.715	.090	37604-00-D	37604-89-D	37604-86-D
		1	6	2-1/2	0.715	.090	37605-00-D	37605-89-D	37605-86-D
		1	6	3-3/8	0.715	.090	37606-00-D	37606-89-D	37606-86-D
		1	4	2	0.715	.120	37607-00-D	37607-89-D	37607-86-D
		1	6	2-1/2	0.715	.120	37608-00-D	37608-89-D	37608-86-D
		1	6	3-3/8	0.715	.120	37609-00-D	37609-89-D	37609-86-D

Dia DC	Shank DCON	LOC APMX	OAL OAL/ FL	LBS LU	Neck Dia DN	Radius	EDP	C4 EDP	C5 EDP
		1	4	2	0.715		51906-00-D	51906-89-D	51906-86-D
		1	6	2-1/2	0.715		51936-00-D	51936-89-D	51936-86-D
		1	6	3-3/8	0.715		51956-00-D	51956-89-D	51956-86-D
		1	4	2	0.715	.030	37598-00-D	37598-89-D	37598-86-D
		1	6	2-1/2	0.715	.030	37599-00-D	37599-89-D	37599-86-D
		1	6	3-3/8	0.715	.030	37600-00-D	37600-89-D	37600-86-D
		1	4	2	0.715	.060	37601-00-D	37601-89-D	37601-86-D
		1	6	2-1/2	0.715	.060	37602-00-D	37602-89-D	37602-86-D
		1	6	3-3/8	0.715	.060	37603-00-D	37603-89-D	37603-86-D
		1	4	2	0.715	.090	37604-00-D	37604-89-D	37604-86-D
		1	6	2-1/2	0.715	.090	37605-00-D	37605-89-D	37605-86-D
		1	6	3-3/8	0.715	.090	37606-00-D	37606-89-D	37606-86-D
		1	4	2	0.715	.120	37607-00-D	37607-89-D	37607-86-D
		1	6	2-1/2	0.715	.120	37608-00-D	37608-89-D	37608-86-D
		1	6	3-3/8	0.715	.120	37609-00-D	37609-89-D	37609-86-D
1	1	1-1/4	5	2-5/8	0.960		51911-00-D	51911-89-D	51911-86-D
		1-1/4	7	3-3/8	0.960		51941-00-D	51941-89-D	51941-86-D
		1-1/4	7	4-3/8	0.960		51961-00-D	51961-89-D	51961-86-D
		1-1/4	5	2-5/8	0.960	.030	37610-00-D	37610-89-D	37610-86-D
		1-1/4	7	3-3/8	0.960	.030	37611-00-D	37611-89-D	37611-86-D
		1-1/4	7	4-3/8	0.960	.030	37612-00-D	37612-89-D	37612-86-D
		1-1/4	5	2-5/8	0.960	.060	37613-00-D	37613-89-D	37613-86-D
		1-1/4	7	3-3/8	0.960	.060	37614-00-D	37614-89-D	37614-86-D
		1-1/4	7	4-3/8	0.960	.060	37615-00-D	37615-89-D	37615-86-D
		1-1/4	5	2-5/8	0.960	.090	37616-00-D	37616-89-D	37616-86-D
		1-1/4	7	3-3/8	0.960	.090	37617-00-D	37617-89-D	37617-86-D
		1-1/4	7	4-3/8	0.960	.090	37618-00-D	37618-89-D	37618-86-D
		1-1/4	5	2-5/8	0.960	.120	37619-00-D	37619-89-D	37619-86-D
		1-1/4	7	3-3/8	0.960	.120	37620-00-D	37620-89-D	37620-86-D
		1-1/4	7	4-3/8	0.960	.120	37621-00-D	37621-89-D	37621-86-D



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360 SERIES

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Radius
1/4	1/4	1/2	2	360041	.015 .030 .060
1/4	1/4	3/4	2-1/2	360042	.015 .030 .060
1/4	1/4	1	3	360043	.015 .030 .060
1/4	1/4	1-1/4	4	360044	.015 .030 .060
5/16	5/16	1/2	2	360051	.015 .030 .060
5/16	5/16	7/8	2-1/2	360052	.015 .030 .060
5/16	5/16	1	3	360053	.015 .030 .060
5/16	5/16	1-1/4	4	360054	.015 .030 .060
3/8	3/8	1/2	2	360061	.015 .030 .060 .090 .125
3/8	3/8	1	2-1/2	360062	.015 .030 .060 .090 .125
3/8	3/8	1	3	360063	.015 .030 .060 .090 .125
3/8	3/8	1-1/2	4	360064	.015 .030 .060 .090 .125
1/2	1/2	5/8	2-1/2	360081	.015 .030 .060 .090 .125
1/2	1/2	1-1/4	3	360082	.015 .030 .060 .090 .125
1/2	1/2	1-5/8	4	360083	.015 .030 .060 .090 .125
1/2	1/2	2	4	360084	.015 .030 .060 .090 .125
1/2	1/2	2-1/2	5	360085	.015 .030 .060 .090 .125
1/2	1/2	3-1/8	6	360086	.015 .030 .060 .090 .125
5/8	5/8	3/4	3	360101	.015 .030 .060 .090 .125
5/8	5/8	1.625	3-1/2	360102	.015 .030 .060 .090 .125
5/8	5/8	2-1/8	4	360103	.015 .030 .060 .090 .125
5/8	5/8	2-1/4	5	360104	.015 .030 .060 .090 .125
5/8	5/8	3	6	360105	.015 .030 .060 .090 .125
3/4	3/4	1	3	360121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-5/8	4	360122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	2-1/4	5	360123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	3-1/4	6	360124	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	4-1/8	7	360125	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	360161	.015 .030 .060 .090 .125 .188 .250
1	1	2-1/4	5	360162	.015 .030 .060 .090 .125 .188 .250
1	1	2-5/8	6	360163	.015 .030 .060 .090 .125 .188 .250
1	1	3-1/4	6	360164	.015 .030 .060 .090 .125 .188 .250
1	1	4-1/8	7	360165	.015 .030 .060 .090 .125 .188 .250

NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = 337052-.015)

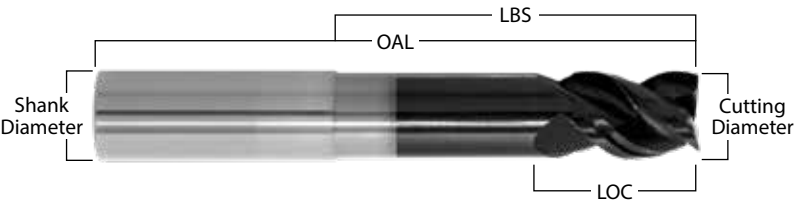


360 SERIES • EXT. NECK

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Radius
1/4	1/4	1/2	1-1/4	3	N360040	.015 .030 .060
1/4	1/4	1/2	2-1/8	4	N360041	.015 .030 .060
1/4	1/4	1/2	3-1/8	5	N360042	.015 .030 .060
1/4	1/4	1/2	4-1/8	6	N360043	.015 .030 .060
5/16	5/16	9/16	2-1/8	4	N360051	.015 .030 .060
5/16	5/16	9/16	4-1/8	6	N360052	.015 .030 .060
3/8	3/8	3/4	1-1/4	3	N360060	.015 .030 .060 .090 .125
3/8	3/8	3/4	2-1/8	4	N360061	.015 .030 .060 .090 .125
3/8	3/8	3/4	3-1/8	5	N360062	.015 .030 .060 .090 .125
3/8	3/8	3/4	4-1/8	6	N360063	.015 .030 .060 .090 .125
1/2	1/2	7/8	1-3/8	3	N360080	.015 .030 .060 .090 .125
1/2	1/2	7/8	2-1/8	4	N360081	.015 .030 .060 .090 .125
1/2	1/2	7/8	3-1/8	5	N360082	.015 .030 .060 .090 .125
1/2	1/2	7/8	4-1/8	6	N360083	.015 .030 .060 .090 .125
1/2	1/2	7/8	5-1/8	7	N360084	.015 .030 .060 .090 .125
1/2	1/2	7/8	6-1/8	8	N360085	.015 .030 .060 .090 .125
5/8	5/8	1	2	4	N360100	.015 .030 .060 .090 .125
5/8	5/8	1	3	5	N360101	.015 .030 .060 .090 .125
5/8	5/8	1	4	6	N360102	.015 .030 .060 .090 .125
5/8	5/8	1	6	8	N360103	.015 .030 .060 .090 .125
3/4	3/4	1	2	4	N360120	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	3	5	N360121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	4	6	N360122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	5	7	N360123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	6	8	N360124	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/4	2	4	N360160	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	3	5	N360161	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	6	N360162	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	5	7	N360163	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	6	8	N360164	.015 .030 .060 .090 .125 .188 .250

NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = 337052-.015)



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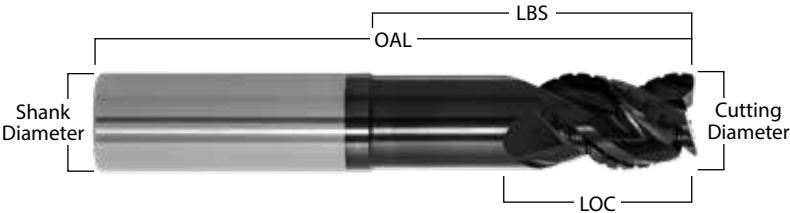


363 SERIES • CHIPBREAKER

Cutting Diameter	Shank Diameter	LOC	Overall	Standard Radius	Part Number	Radius
1/4	1/4	1/2	2	.030	363041	.060
1/4	1/4	3/4	2-1/2	.030	363042	.060
1/4	1/4	1	3	.030	363043	.060
1/4	1/4	1-1/4	4	.030	363044	.060
5/16	5/16	1/2	2	.030	363051	.060
5/16	5/16	7/8	2-1/2	.030	363052	.060
5/16	5/16	1	3	.030	363053	.060
5/16	5/16	1-1/4	4	.030	363054	.060
3/8	3/8	1/2	2	.030	363061	.060 .125
3/8	3/8	1	2-1/2	.030	363062	.060 .125
3/8	3/8	1	3	.030	363063	.060 .125
3/8	3/8	1-1/2	4	.030	363064	.060 .125
1/2	1/2	5/8	2-1/2	.030	363081	.060 .125
1/2	1/2	1-1/4	3	.030	363082	.060 .125
1/2	1/2	1-5/8	4	.030	363083	.060 .125
1/2	1/2	2	4	.030	363084	.060 .125
1/2	1/2	2-1/2	5	.030	363085	.060 .125
1/2	1/2	3-1/8	6	.030	363086	.060 .125
5/8	5/8	3/4	3	.030	363101	.060 .125
5/8	5/8	1-1/4	3-1/2	.030	363102	.060 .125
5/8	5/8	2-1/8	4	.030	363103	.060 .125
5/8	5/8	2-1/4	5	.030	363104	.060 .125
5/8	5/8	3	6	.030	363105	.060 .125
3/4	3/4	1	3	.060	363121	.125
3/4	3/4	1-5/8	4	.060	363122	.125
3/4	3/4	2-1/4	5	.060	363123	.125
3/4	3/4	3-1/4	6	.060	363124	.125
3/4	3/4	4-1/8	7	.060	363125	.125
1	1	1-1/2	4	.060	363161	.125
1	1	2-1/4	5	.060	363162	.125
1	1	2-5/8	6	.060	363163	.125
1	1	3-1/4	6	.060	363164	.125
1	1	4-1/8	7	.060	363165	.125

NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = 337052-.015)



363 SERIES • CHIPBREAKER • EXT. NECK

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Standard Radius	Part Number	Radius
1/4	1/4	1/2	1-1/4	3	.030	N363040	.060
1/4	1/4	1/2	2-1/8	4	.030	N363041	.060
1/4	1/4	1/2	3-1/8	5	.030	N363042	.060
1/4	1/4	1/2	4-1/8	6	.030	N363043	.060
5/16	5/16	9/16	2-1/8	4	.030	N363051	.060
5/16	5/16	9/16	4-1/8	6	.030	N363052	.060
3/8	3/8	3/4	1-1/4	3	.030	N363060	.060 .125
3/8	3/8	3/4	2-1/8	4	.030	N363061	.060 .125
3/8	3/8	3/4	3-1/8	5	.030	N363062	.060 .125
3/8	3/8	3/4	4-1/8	6	.030	N363063	.060 .125
1/2	1/2	7/8	1-3/8	3	.030	N363080	.060 .125
1/2	1/2	7/8	2-1/8	4	.030	N363081	.060 .125
1/2	1/2	7/8	3-1/8	5	.030	N363082	.060 .125
1/2	1/2	7/8	4-1/8	6	.030	N363083	.060 .125
1/2	1/2	7/8	5-1/8	7	.030	N363084	.060 .125
1/2	1/2	7/8	6-1/8	8	.030	N363085	.060 .125
5/8	5/8	1	2	4	.030	N363100	.060 .125
5/8	5/8	1	3	5	.030	N363101	.060 .125
5/8	5/8	1	4	6	.030	N363102	.060 .125
5/8	5/8	1	6	8	.030	N363103	.060 .125
3/4	3/4	1	2	4	.060	N363120	.090 .125
3/4	3/4	1-1/4	3	5	.060	N363121	.090 .125
3/4	3/4	1-1/4	4	6	.060	N363122	.090 .125
3/4	3/4	1-1/4	5	7	.060	N363123	.090 .125
3/4	3/4	1-1/4	6	8	.060	N363124	.090 .125
1	1	1-1/4	2	4	.060	N363160	.090 .125
1	1	1-1/2	3	5	.060	N363161	.090 .125
1	1	1-1/2	4	6	.060	N363162	.090 .125
1	1	1-1/2	5	7	.060	N363163	.090 .125
1	1	1-1/2	6	8	.060	N363164	.090 .125

NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = 337052-.015)



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3 FLUTE CARBIDE



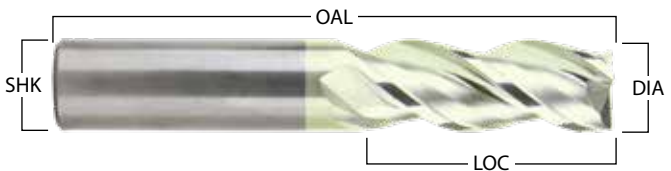
MAL3

DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.190	.250	Ball
1/8	1/8	1/4	1-1/2	100500	100510	100520	100530	100540						100600
1/8	1/8	3/8	2	100660	100670	100680	100690	100700						100760
1/8	1/8	1/2	2	100820	100830	100840	100850	100860						100920
3/16	3/16	5/16	2	100980	100990	101000	101010	101020						101080
3/16	3/16	3/4	2-1/2	101300	101310	101320	101330	101340						101400
1/4	1/4	3/8	2	101460	101470	101480	101490	101500	101510					101560
1/4	1/4	1/2	2-1/2	101620	101630	101640	101650	101660	101670					101720
1/4	1/4	5/8	2-1/2	101780	101790	101800	101810	101820	101830					101880
1/4	1/4	3/4	2-1/2	101940	101950	101960	101970	101980	101990					102040
1/4	1/4	1	3	102100	102110	102120	102130	102140	102150					102200
5/16	5/16	13/16	2-1/2	102580	102590	102600	102610	102620	102630					102680
5/16	5/16	1	3	102740	102750	102760	102770	102780	102790					102840
3/8	3/8	1/2	2	102900	102910	102920	102930	102940	102950		102970			103000
3/8	3/8	1	3	103060	103070	103080	103090	103100	103110		103130			103160
3/8	3/8	1-1/4	3	103220	103230	103240	103250	103260	103270		103290			103320
3/8	3/8	1-1/2	3-1/2	103380	103390	103400	103410	103420	103430		103450			103480
3/8	3/8	2	4	103540	103550	103560	103570	103580	103590		103610			103640
1/2	1/2	5/8	2-1/2	103700	103710	103720	103730	103740	103750	103760	103770			103800
1/2	1/2	1	3	103860	103870	103880	103890	103900	103910	103920	103930			103960
1/2	1/2	1-1/4	3	104020	104030	104040	104050	104060	104070	104080	104090			104120
1/2	1/2	1-5/8	4	104180	104190	104200	104210	104220	104230	104240	104250			104280
1/2	1/2	2	4	104340	104350	104360	104370	104380	104390	104400	104410			104440
1/2	1/2	2-1/2	5	104500	104510	104520	104530	104540	104550	104560	104570			104600
5/8	5/8	3/4	3	104820		104830		104840	104850	104860	104870			104920
5/8	5/8	1-1/4	3-1/2	104980		104990		105000	105010	105020	105030			105080
5/8	5/8	1-5/8	3-1/2	105140		105150		105170	105180	105190	105200			105240
3/4	3/4	1	4	105780		105790		105800	105810	105820	105830	105840	105850	105880
3/4	3/4	1-5/8	4	105940		105950		105960	105970	105980	105990	106000	106010	106040
3/4	3/4	2-1/4	5	106100		106110		106115	106120	106130	106140	106150	106160	106200
3/4	3/4	3-1/4	6	106260		106270		106280	106290	106300	106310	106320	106330	106360
1	1	1-1/4	4	107060				107080	107090	107100	107110	107120	107130	107160
1	1	2	5	107220				107240	107250	107260	107270	107280	107290	107320
1	1	3-1/4	6	107380				107400	107410	107420	107430	107440	107450	107480



MAL3 • ZrN

DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.190	.250	Ball
1/8	1/8	1/4	1-1/2	600500	600510	600520	600530	600540						600600
1/8	1/8	3/8	2	600660	600670	600680	600690	600700						600760
1/8	1/8	1/2	2	600820	600830	600840	600850	600860						600920
3/16	3/16	5/16	2	600980	600990	601000	601010	601020						601080
3/16	3/16	3/4	2-1/2	601300	601310	601320	601330	601340						601400
1/4	1/4	3/8	2	601460	601470	601480	601490	601500	601510					601560
1/4	1/4	1/2	2-1/2	601620	601630	601640	601650	601660	601670					601720
1/4	1/4	5/8	2-1/2	601780	601790	601800	601810	601820	601830					601880
1/4	1/4	3/4	2-1/2	601940	601950	601960	601970	601980	601990					602040
1/4	1/4	1	3	602100	602110	602120	602130	602140	602150					602200
5/16	5/16	13/16	2-1/2	602580	602590	602600	602610	602620	602630					602680
5/16	5/16	1	3	602740	602750	602760	602770	602780	602790					602840
3/8	3/8	1/2	2	602900	602910	602920	602930	602940	602950		602970			603000
3/8	3/8	1	3	603060	603070	603080	603090	603100	603110		603130			603160
3/8	3/8	1-1/4	3	603220	603230	603240	603250	603260	603270		603290			603320
3/8	3/8	1-1/2	3-1/2	603380	603390	603400	603410	603420	603430		603450			603480
3/8	3/8	2	4	603540	603550	603560	603570	603580	603590		603610			603640
1/2	1/2	5/8	2-1/2	603700	603710	603720	603730	603740	603750	603760	603770			603800
1/2	1/2	1	3	603860	603870	603880	603890	603900	603910	603920	603930			603960
1/2	1/2	1-1/4	3	604020	604030	604040	604050	604060	604070	604080	604090			604120
1/2	1/2	1-5/8	4	604180	604190	604200	604210	604220	604230	604240	604250			604280
1/2	1/2	2	4	604340	604350	604360	604370	604380	604390	604400	604410			604440
1/2	1/2	2-1/2	5	604500	604510	604520	604530	604540	604550	604560	604570			604600
5/8	5/8	3/4	3	604820		604830		604840	604850	604860	604870			604920
5/8	5/8	1-1/4	3-1/2	604980		604990		605000	605010	605020	605030			605080
5/8	5/8	1-5/8	3-1/2	605140		605150		605170	605180	605190	605200			605240
3/4	3/4	1	4	605780		605790		605800	605810	605820	605830	605840	605850	605880
3/4	3/4	1 5/8	4	605940		605950		605960	605970	605980	605990	606000	606010	606040
3/4	3/4	2-1/4	5	606100		606110		606115	606120	606130	606140	606150	606160	606200
3/4	3/4	3-1/4	6	606260		606270		606280	606290	606300	606310	606320	606330	606360
1	1	1-1/4	4	607060				607080	607090	607100	607110	607120	607130	607160
1	1	2	5	607220				607240	607250	607260	607270	607280	607290	607320
1	1	3-1/4	6	607380				607400	607410	607420	607430	607440	607450	607480



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MOBILE INVENTORY
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3 FLUTE CARBIDE



MAL3-RN • REDUCED NECK

DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.120	Ball
1/8	1/8	1/4	3/4	3	110800	110810	110820			110825
1/8	1/8	1/4	1	3	110830	110840	110850			110855
3/16	3/16	5/16	3/4	3	110860	110870	110880			110885
3/16	3/16	5/16	1	3	110900	110910	110920			110925
1/4	1/4	1/2	1	3	110930	110940	110950	110960		110965
1/4	1/4	1/2	1-1/2	3	110970	110980	110990	111000		111005
1/4	1/4	1/2	2	4	111010	111020	111030	111040		111045
1/4	1/4	1/2		4	111050	111060	111070	111080		111085
3/8	3/8	3/4	1-1/4	3	111090	111100	111110	111120	111130	111135
3/8	3/8	3/4	1-1/2	4	111140	111150	111160	111170	111180	111185
3/8	3/8	3/4	2	4	111190	111200	111210	111220	111230	111235
3/8	3/8	3/4	3	5	111240	111250	111260	111270	111280	111285
3/8	3/8	3/4		5	111290	111300	111310	111320	111330	111335
1/2	1/2	1	1-1/2	4	111340		111350	111360	111370	111375
1/2	1/2	1	2	4	111380		111390	111400	111410	111415
1/2	1/2	1	3	5	111420		111430	111440	111450	111455
1/2	1/2	1	4	6	111460		111470	111480	111490	111495
1/2	1/2	1		6	111500		111510	111520	111530	111535
5/8	5/8	1-1/4	2	4	111540		111550	111560	111570	111575
5/8	5/8	1-1/4	3	5	111580		111590	111600	111610	111615
5/8	5/8	1-1/4	4	6	111620		111630	111640	111650	111655
5/8	5/8	1-1/4		6	111660		111670	111680	111690	111695
3/4	3/4	1-3/8	2	4	111700		111710	111720	111730	111735
3/4	3/4	1-3/8	3	5	111740		111750	111760	111770	111775
3/4	3/4	1-3/8	4	6	111780		111790	111800	111810	111815
3/4	3/4	1-3/8		6	111820		111830	111840	111850	111855
1	1	1-1/2	2	4	111860		111870	111880	111890	111895
1	1	1-1/2	3	5	111900		111910	111920	111930	111935
1	1	1-1/2	4	6	111940		111950	111960	111970	111975
1	1	1-1/2		6	111980		111990	112000	112010	112015

No LBS Listed - These tools are designed with long overall lengths for adding a custom LBS. They are not delivered with a reduced neck



MAL3-RN • REDUCED NECK • ZrN

DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.120	Ball
1/8	1/8	1/4	3/4	3	610800	610810	610820			610825
1/8	1/8	1/4	1	3	610830	610840	610850			610855
3/16	3/16	5/16	3/4	3	610860	610870	610880			610885
3/16	3/16	5/16	1	3	610900	610910	610920			610925
1/4	1/4	1/2	1	3	610930	610940	610950	610960		610965
1/4	1/4	1/2	1-1/2	3	610970	610980	610990	611000		611005
1/4	1/4	1/2	2	4	611010	611020	611030	611040		611045
1/4	1/4	1/2		4	611050	611060	611070	611080		611085
3/8	3/8	3/4	1-1/4	3	611090	611100	611110	611120	611130	611135
3/8	3/8	3/4	1-1/2	4	611140	611150	611160	611170	611180	611185
3/8	3/8	3/4	2	4	611190	611200	611210	611220	611230	611235
3/8	3/8	3/4	3	5	611240	611250	611260	611270	611280	611285
3/8	3/8	3/4		5	611290	611300	611310	611320	611330	611335
1/2	1/2	1	1-1/2	4	611340		611350	611360	611370	611375
1/2	1/2	1	2	4	611380		611390	611400	611410	611415
1/2	1/2	1	3	5	611420		611430	611440	611450	611455
1/2	1/2	1	4	6	611460		611470	611480	611490	611495
1/2	1/2	1		6	611500		611510	611520	611530	611535
5/8	5/8	1-1/4	2	4	611540		611550	611560	611570	611575
5/8	5/8	1-1/4	3	5	611580		611590	611600	611610	611615
5/8	5/8	1-1/4	4	6	611620		611630	611640	611650	611655
5/8	5/8	1-1/4		6	611660		611670	611680	611690	611695
3/4	3/4	1-3/8	2	4	611700		611710	611720	611730	611735
3/4	3/4	1-3/8	3	5	611740		611750	611760	611770	611775
3/4	3/4	1-3/8	4	6	611780		611790	611800	611810	611815
3/4	3/4	1-3/8		6	611820		611830	611840	611850	611855
1	1	1-1/2	2	4	611860		611870	611880	611890	611895
1	1	1-1/2	3	5	611900		611910	611920	611930	611935
1	1	1-1/2	4	6	611940		611950	611960	611970	611975
1	1	1-1/2		6	611980		611990	612000	612010	612015

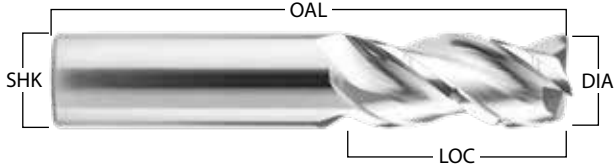
No LBS Listed - These tools are designed with long overall lengths for adding a custom LBS. They are not delivered with a reduced neck



3 FLUTE CARBIDE



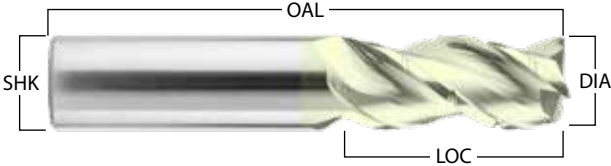
MAL3CB • CHIPBREAKER



DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.190	.250	Ball
1/4	1/4	3/8	2	101460B	101470B	101480B	101490B	101500B	101510B					101560B
1/4	1/4	1/2	2-1/2	101620B	101630B	101640B	101650B	101660B	101670B					101720B
1/4	1/4	5/8	2-1/2	101780B	101790B	101800B	101810B	101820B	101830B					101880B
1/4	1/4	3/4	2-1/2	101940B	101950B	101960B	101970B	101980B	101990B					102040B
1/4	1/4	1	3	102100B	102110B	102120B	102130B	102140B	102150B					102200B
5/16	5/16	13/16	2-1/2	102580B	102590B	102600B	102610B	102620B	102630B					102680B
5/16	5/16	1	3	102740B	102750B	102760B	102770B	102780B	102790B					102840B
3/8	3/8	1/2	2	102900B	102910B	102920B	102930B	102940B	102950B		102970B			103000B
3/8	3/8	1	3	103060B	103070B	103080B	103090B	103100B	103110B		103130B			103160B
3/8	3/8	1-1/4	3	103220B	103230B	103240B	103250B	103260B	103270B		103290B			103320B
3/8	3/8	1-1/2	3-1/2	103380B	103390B	103400B	103410B	103420B	103430B		103450B			103480B
3/8	3/8	2	4	103540B	103550B	103560B	103570B	103580B	103590B		103610B			103640B
1/2	1/2	5/8	2-1/2	103700B	103710B	103720B	103730B	103740B	103750B	103760B	103770B			103800B
1/2	1/2	1	3	103860B	103870B	103880B	103890B	103900B	103910B	103920B	103930B			103960B
1/2	1/2	1-1/4	3	104020B	104030B	104040B	104050B	104060B	104070B	104080B	104090B			104120B
1/2	1/2	1-5/8	4	104180B	104190B	104200B	104210B	104220B	104230B	104240B	104250B			104280B
1/2	1/2	2	4	104340B	104350B	104360B	104370B	104380B	104390B	104400B	104410B			104440B
1/2	1/2	2-1/2	5	104500B	104510B	104520B	104530B	104540B	104550B	104560B	104570B			104600B
5/8	5/8	3/4	3	104820B		104830B		104840B	104850B	104860B	104870B			104920B
5/8	5/8	1-1/4	3-1/2	104980B		104990B		105000B	105010B	105020B	105030B			105080B
5/8	5/8	1-5/8	3-1/2	105140B		105150B		105170B	105180B	105190B	105200B			105240B
3/4	3/4	1	4	105780B		105790B		105800B	105810B	105820B	105830B	105840B	105850B	105880B
3/4	3/4	1-5/8	4	105940B		105950B		105960B	105970B	105980B	105990B	106000B	106010B	106040B
3/4	3/4	2-1/4	5	106100B		106110B		106115B	106120B	106130B	106140B	106150B	106160B	106200B
3/4	3/4	3-1/4	6	106260B		106270B		106280B	106290B	106300B	106310B	106320B	106330B	106360B
1	1	1-1/4	4	107060B				107080B	107090B	107100B	107110B	107120B	107130B	107160B
1	1	2	5	107220B				107240B	107250B	107260B	107270B	107280B	107290B	107320B
1	1	3-1/4	6	107380B				107400B	107410B	107420B	107430B	107440B	107450B	107480B



MAL3CB • CHIPBREAKER • ZrN



DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.190	.250	Ball
1/4	1/4	3/8	2	601460B	601470B	601480B	601490B	601500B	601510B					601560B
1/4	1/4	1/2	2 1/2	601620B	601630B	601640B	601650B	601660B	601670B					601720B
1/4	1/4	5/8	2 1/2	601780B	601790B	601800B	601810B	601820B	601830B					601880B
1/4	1/4	3/4	2 1/2	601940B	601950B	601960B	601970B	601980B	601990B					602040B
1/4	1/4	1	3	602100B	602110B	602120B	602130B	602140B	602150B					602200B
5/16	5/16	13/16	2 1/2	602580B	602590B	602600B	602610B	602620B	602630B					602680B
5/16	5/16	1	3	602740B	602750B	602760B	602770B	602780B	602790B					602840B
3/8	3/8	1/2	2	602900B	602910B	602920B	602930B	602940B	602950B		602970B			603000B
3/8	3/8	1	3	603060B	603070B	603080B	603090B	603100B	603110B		603130B			603160B
3/8	3/8	1 1/4	3	603220B	603230B	603240B	603250B	603260B	603270B		603290B			603320B
3/8	3/8	1 1/2	3 1/2	603380B	603390B	603400B	603410B	603420B	603430B		603450B			603480B
3/8	3/8	2	4	603540B	603550B	603560B	603570B	603580B	603590B		603610B			603640B
1/2	1/2	5/8	2 1/2	603700B	603710B	603720B	603730B	603740B	603750B	603760B	603770B			603800B
1/2	1/2	1	3	603860B	603870B	603880B	603890B	603900B	603910B	603920B	603930B			603960B
1/2	1/2	1 1/4	3	604020B	604030B	604040B	604050B	604060B	604070B	604080B	604090B			604120B
1/2	1/2	1 5/8	4	604180B	604190B	604200B	604210B	604220B	604230B	604240B	604250B			604280B
1/2	1/2	2	4	604340B	604350B	604360B	604370B	604380B	604390B	604400B	604410B			604440B
1/2	1/2	2 1/2	5	604500B	604510B	604520B	604530B	604540B	604550B	604560B	604570B			604600B
5/8	5/8	3/4	3	604820B		604830B		604840B	604850B	604860B	604870B			604920B
5/8	5/8	1-1/4	3-1/2	604980B		604990B		605000B	605010B	605020B	605030B			605080B
5/8	5/8	1 5/8	3 1/2	605140B		605150B		605170B	605180B	605190B	605200B			605240B
3/4	3/4	1	4	605780B		605790B		605800B	605810B	605820B	605830B	605840B	605850B	605880B
3/4	3/4	1 5/8	4	605940B		605950B		605960B	605970B	605980B	605990B	606000B	606010B	606040B
3/4	3/4	2 1/4	5	606100B		606110B		606115B	606120B	606130B	606140B	606150B	606160B	606200B
3/4	3/4	3 1/4	6	606260B		606270B		606280B	606290B	606300B	606310B	606320B	606330B	606360B
1	1	1-1/4	4	607060B				607080B	607090B	607100B	607110B	607120B	607130B	607160B
1	1	2	5	607220B				607240B	607250B	607260B	607270B	607280B	607290B	607320B
1	1	3 1/4	6	607380B				607400B	607410B	607420B	607430B	607440B	607450B	607480B

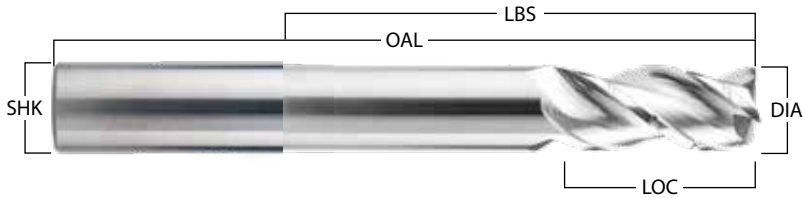


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MOBILE INVENTORY
Same Day Delivery
(most items)

3 FLUTE CARBIDE



MAL3CB-RN • CHIPBREAKER • REDUCED NECK

DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.120	Ball
1/8	1/8	1/4	3/4	3	110800B	110810B	110820B			110825B
1/8	1/8	1/4	1	3	110830B	110840B	110850B			110855B
3/16	3/16	5/16	3/4	3	110860B	110870B	110880B			110885B
3/16	3/16	5/16	1	3	110900B	110910B	110920B			110925B
1/4	1/4	1/2	1	3	110930B	110940B	110950B	110960B		110965B
1/4	1/4	1/2	1-1/2	3	110970B	110980B	110990B	111000B		111005B
1/4	1/4	1/2	2	4	111010B	111020B	111030B	111040B		111045B
1/4	1/4	1/2		4	111050B	111060B	111070B	111080B		111085B
3/8	3/8	3/4	1-1/4	3	111090B	111100B	111110B	111120B	111130B	111135B
3/8	3/8	3/4	1-1/2	4	111140B	111150B	111160B	111170B	111180B	111185B
3/8	3/8	3/4	2	4	111190B	111200B	111210B	111220B	111230B	111235B
3/8	3/8	3/4	3	5	111240B	111250B	111260B	111270B	111280B	111285B
3/8	3/8	3/4		5	111290B	111300B	111310B	111320B	111330B	111335B
1/2	1/2	1	1-1/2	4	111340B		111350B	111360B	111370B	111375B
1/2	1/2	1	2	4	111380B		111390B	111400B	111410B	111415B
1/2	1/2	1	3	5	111420B		111430B	111440B	111450B	111455B
1/2	1/2	1	4	6	111460B		111470B	111480B	111490B	111495B
1/2	1/2	1		6	111500B		111510B	111520B	111530B	111535B
5/8	5/8	1-1/4	2	4	111540B		111550B	111560B	111570B	111575B
5/8	5/8	1-1/4	3	5	111580B		111590B	111600B	111610B	111615B
5/8	5/8	1-1/4	4	6	111620B		111630B	111640B	111650B	111655B
5/8	5/8	1-1/4		6	111660B		111670B	111680B	111690B	111695B
3/4	3/4	1-3/8	2	4	111700B		111710B	111720B	111730B	111735B
3/4	3/4	1-3/8	3	5	111740B		111750B	111760B	111770B	111775B
3/4	3/4	1-3/8	4	6	111780B		111790B	111800B	111810B	111815B
3/4	3/4	1-3/8		6	111820B		111830B	111840B	111850B	111855B
1	1	1-1/2	2	4	111860B		111870B	111880B	111890B	111895B
1	1	1-1/2	3	5	111900B		111910B	111920B	111930B	111935B
1	1	1-1/2	4	6	111940B		111950B	111960B	111970B	111975B
1	1	1-1/2		6	111980B		111990B	112000B	112010B	112015B

No LBS Listed - These tools are designed with long overall lengths for adding a custom LBS. They are not delivered with a reduced neck



MAL3CB-RN • CHIPBREAKER • REDUCED NECK • ZrN

DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.120	Ball
1/8	1/8	1/4	3/4	3	610800B	610810B	610820B			610825B
1/8	1/8	1/4	1	3	610830B	610840B	610850B			610855B
3/16	3/16	5/16	3/4	3	610860B	610870B	610880B			610885B
3/16	3/16	5/16	1	3	610900B	610910B	610920B			610925B
1/4	1/4	1/2	1	3	610930B	610940B	610950B	610960B		610965B
1/4	1/4	1/2	1-1/2	3	610970B	610980B	610990B	611000B		611005B
1/4	1/4	1/2	2	4	611010B	611020B	611030B	611040B		611045B
1/4	1/4	1/2		4	611050B	611060B	611070B	611080B		611085B
3/8	3/8	3/4	1-1/4	3	611090B	611100B	611110B	611120B	611130B	611135B
3/8	3/8	3/4	1-1/2	4	611140B	611150B	611160B	611170B	611180B	611185B
3/8	3/8	3/4	2	4	611190B	611200B	611210B	611220B	611230B	611235B
3/8	3/8	3/4	3	5	611240B	611250B	611260B	611270B	611280B	611285B
3/8	3/8	3/4		5	611290B	611300B	611310B	611320B	611330B	611335B
1/2	1/2	1	1-1/2	4	611340B		611350B	611360B	611370B	611375B
1/2	1/2	1	2	4	611380B		611390B	611400B	611410B	611415B
1/2	1/2	1	3	5	611420B		611430B	611440B	611450B	611455B
1/2	1/2	1	4	6	611460B		611470B	611480B	611490B	611495B
1/2	1/2	1		6	611500B		611510B	611520B	611530B	611535B
5/8	5/8	1-1/4	2	4	611540B		611550B	611560B	611570B	611575B
5/8	5/8	1-1/4	3	5	611580B		611590B	611600B	611610B	611615B
5/8	5/8	1-1/4	4	6	611620B		611630B	611640B	611650B	611655B
5/8	5/8	1-1/4		6	611660B		611670B	611680B	611690B	611695B
3/4	3/4	1-3/8	2	4	611700B		611710B	611720B	611730B	611735B
3/4	3/4	1-3/8	3	5	611740B		611750B	611760B	611770B	611775B
3/4	3/4	1-3/8	4	6	611780B		611790B	611800B	611810B	611815B
3/4	3/4	1-3/8		6	611820B		611830B	611840B	611850B	611855B
1	1	1-1/2	2	4	611860B		611870B	611880B	611890B	611895B
1	1	1-1/2	3	5	611900B		611910B	611920B	611930B	611935B
1	1	1-1/2	4	6	611940B		611950B	611960B	611970B	611975B

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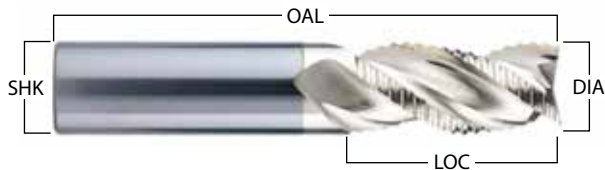
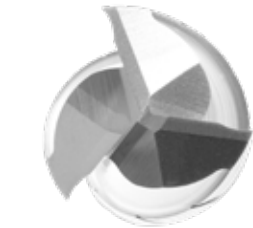
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3 FLUTE CARBIDE



MAL3R • ROUGHER

DIA	SHK	LOC	OAL	.030	.060	.120
1/4	1/4	3/4	2-1/2	110000		
1/4	1/4	1	3	110050		
3/8	3/8	1/2	2	110100		
3/8	3/8	1	3	110150		
1/2	1/2	5/8	2-1/2	110200	110210	110220
1/2	1/2	1	3	110250	110260	110270
1/2	1/2	1-1/4	3	110300	110310	110320
1/2	1/2	2	4	110350	110360	110370
5/8	5/8	3/4	3	110400	110410	110420
5/8	5/8	1-1/4	3-1/2	110450	110460	110470
3/4	3/4	1-5/8	4	110500	110510	110520
3/4	3/4	2-1/4	5	110550	110560	110570
1	1	1-1/4	4	110600	110610	110620
1	1	2	5	110650	110660	110670



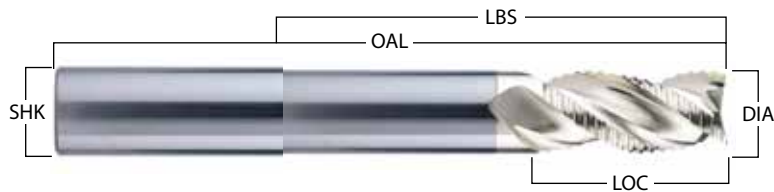
MAL3R • ROUGHER • ZrN

DIA	SHK	LOC	OAL	.030	.060	.120
1/4	1/4	3/4	2-1/2	610000		
1/4	1/4	1	3	610050		
3/8	3/8	1/2	2	610100		
3/8	3/8	1	3	610150		
1/2	1/2	5/8	2-1/2	610200	610210	610220
1/2	1/2	1	3	610250	610260	610270
1/2	1/2	1 1/4	3	610300	610310	610320
1/2	1/2	2	4	610350	610360	610370
5/8	5/8	3/4	3	610400	610410	610420
5/8	5/8	1-1/4	3-1/2	610450	610460	610470
3/4	3/4	1-5/8	4	610500	610510	610520
3/4	3/4	2-1/4	5	610550	610560	610570
1	1	1-1/4	4	610600	610610	610620
1	1	2	5	610650	610660	610670



MAL3R • ROUGHER • REDUCED NECK

DIA	SHK	LOC	LBS	OAL	.030	.060	.120
1/2	1/2	1	2	4	113390	113400	113410
1/2	1/2	1	3	5	113430	113440	113450
1/2	1/2	1	4	6	113470	113480	113490
3/4	3/4	1-3/8	3	5	113750	113760	113770
3/4	3/4	1-3/8	4	6	113790	113800	113810
3/4	3/4	1-3/8		6	113830	113840	113850
1	1	1-1/2	3	5	113910	113920	113930
1	1	1-1/2	4	6	113950	113960	113970
1	1	1-1/2		6	113990	114000	114010



MAL3R • ROUGHER • REDUCED NECK • ZrN

DIA	SHK	LOC	LBS	OAL	.030	.060	.120
1/2	1/2	1	2	4	613390	613400	613410
1/2	1/2	1	3	5	613430	613440	613450
1/2	1/2	1	4	6	613470	613480	613490
3/4	3/4	1-3/8	3	5	613750	613760	613770
3/4	3/4	1-3/8	4	6	613790	613800	613810
3/4	3/4	1-3/8		6	613830	613840	613850
1	1	1-1/2	3	5	613910	613920	613930
1	1	1-1/2	4	6	613950	613960	613970
1	1	1-1/2		6	613990	614000	614010



4 FLUTE CARBIDE



V7A

OD	SD	LOC	OAL	Square End	Chamfer	.010	.015		.030	.060	.090	.125	.190	.250	Ball Nose
1/8	1/8	1/8	1-1/2	UGMF68008	–	UGMF70008	–		UGMF70955	–	–	–	–	–	UGMG53901
		3/8	1-1/2	UGMF68901	–	UGMF70901	–		UGMF70902	–	–	–	–	–	UGMG53008
		1/2	2-1/2	*UGMF68S915	–	*UGMF70S956	–		*UGMF70S957	–	–	–	–	–	*UGMG53S902
5/32	3/16	3/16	2	UGMF68010	–	UGMF70010	–		–	–	–	–	–	–	UGMG53903
		7/16	2	UGMF68902	–	UGMF70958	–		–	–	–	–	–	–	UGMG53010
3/16	3/16	3/16	2	UGMF68012	–	UGMF70012	–		–	–	–	–	–	–	UGMG53904
		5/16	2	UGMF68916	–	UGMF70959	–		UGMF70960	–	–	–	–	–	UGMG53905
		7/16	2	UGMF68903	–	UGMF70903	–		UGMF70904	–	–	–	–	–	UGMG53012
		5/8	2-1/2	*UGMF68S917	–	*UGMF70S961	–		*UGMF70S962	–	–	–	–	–	*UGMG53S906
7/32	1/4	1/4	2	UGMF68014	–	UGMF70014	–		–	–	–	–	–	–	UGMG53907
		7/16	2-1/2	UGMF68904	–	UGMF70963	–		–	–	–	–	–	–	UGMG53014
1/4	1/4	3/8	2	UGMF68016	UGMF76016	UGMF70016	–		UGMF70905	UGMF70906	–	–	–	–	UGMG53908
		1/2	2-1/2	UGMF68918	–	–	UGMF70964		UGMF70965	UGMF70966	–	–	–	–	UGMG53016
		3/4	2-1/2	UGMF68905	UGMF76902	UGMF70907	UGMF70908		UGMF70909	UGMF70967	–	–	–	–	UGMG53909
		1	3	*UGMF68S919	–	–	*UGMF70S968		*UGMF70S969	*UGMF70S970	–	–	–	–	*UGMG53S910
9/32	5/16	5/8	2-1/2	UGMF68018	–	–	UGMF70018		UGMF70971	UGMF70972	–	–	–	–	UGMG53018
		1	3	*UGMF68S920	–	–	*UGMF70S973		*UGMF70S974	–	–	–	–	–	*UGMG53S911
5/16	5/16	7/16	2	UGMF68020	–	–	–		UGMF70020	–	–	–	–	–	UGMG53912
		13/16	2-1/2	UGMF68906	UGMF76020	UGMF70910	–		UGMF70911	UGMF70912	–	–	–	–	UGMG53020
		1-1/4	3	*UGMF68S921	–	–	*UGMF70S975		*UGMF70S976	*UGMF70S977	–	–	–	–	*UGMG53S913
11/32	3/8	1/2	2-1/2	UGMF68022	–	–	–		UGMF70022	–	–	–	–	–	UGMG53914
		13/16	2-1/2	UGMF68922	–	–	–		UGMF70978	–	–	–	–	–	UGMG53022
3/8	3/8	1/2	2-1/2	UGMF68024	UGMF76903	UGMF70024	–		UGMF70913	UGMF70914	UGMF70979	–	–	–	UGMG53915
		7/8	2-1/2	UGMF68907	UGMF76024	UGMF70915	–		UGMF70916	UGMF70917	UGMF70980	–	–	–	UGMG53024
		1	3	UGMF68923	–	UGMF70981	–		UGMF70982	UGMF70983	UGMF70984	–	–	–	UGMG53916
		1-1/4	3	*UGMF68S924	–	*UGMF70S985	–		*UGMF70S986	*UGMF70S987	*UGMF70S988	–	–	–	*UGMG53S917
13/32	7/16	1/2	2-3/4	UGMF68026	–	–	–		UGMF70026	–	–	–	–	–	UGMG53026
		15/16	2-3/4	UGMF68925	–	–	–		UGMF70989	–	–	–	–	–	UGMG53918
7/16	7/16	5/8	2-1/2	UGMF68028	–	–	UGMF70028		UGMF70918	UGMF70990	UGMF70991	–	–	–	UGMG53919
		7/8	2-3/4	UGMF68926	UGMF76028	–	UGMF70992		UGMF70993	UGMF70994	UGMF70995	–	–	–	UGMG53920
		1	2-3/4	UGMF68908	–	UGMF70919	–		UGMF70920	UGMF70921	–	–	–	–	UGMG53028
15/32	1/2	5/8	2-1/2	UGMF68030	–	–	–		UGMF70030	–	–	–	–	–	UGMG53030
		1	3	UGMF68927	–	–	–		UGMF70996	–	–	–	–	–	UGMG53921
		1-1/4	3-1/2	UGMF68928	–	–	–		UGMF70997	–	–	–	–	–	UGMG53922
1/2	1/2	5/8	2-1/2	UGMF68032	UGMF76032	UGMF70032	UGMF70922		UGMF70923	UGMF70924	UGMF70998	UGMF70999	–	–	UGMG53923
		1	3	UGMF68909	UGMF76904	UGMF70925	UGMF70801		UGMF70926	UGMF70927	UGMF70802	UGMF70928	–	–	UGMG53032
		1-1/4	3-1/2	UGMF68910	UGMF76901	UGMF70929	UGMF70930		UGMF70931	UGMF70932	UGMF70803	UGMF70933	–	–	UGMG53924
		1-5/8	4	*UGMF68S929	*UGMF76S905	–	*UGMF70S804		*UGMF70S805	*UGMF70S806	*UGMF70S807	*UGMF70S808	–	–	*UGMG53S925
		2	4	*UGMF68S939	–	–	*UGMF70S889		*UGMF70S890	*UGMF70S891	*UGMF70S892	*UGMF70S893	–	–	*UGMG53S939
		2-1/2	4-1/2	*UGMF68S940	*UGMF76S906	–	*UGMF70S894		*UGMF70S895	*UGMF70S896	*UGMF70S897	*UGMF70S898	–	–	*UGMG53S940
5/8	5/8	3/4	3	UGMF68040	–	UGMF70040	UGMF70809		UGMF70934	UGMF70935	UGMF70810	UGMF70811	–	–	UGMG53926
		1-1/4	3-1/2	UGMF68911	UGMF76040	UGMF70936	UGMF70937		UGMF70938	UGMF70939	UGMF70812	UGMF70940	–	–	UGMG53040
		1-5/8	4	UGMF68930	UGMF76907	–	UGMF70813		UGMF70814	UGMF70815	UGMF70816	UGMF70817	–	–	UGMG53927
		2	4	*UGMF68S931	–	–	*UGMF70S818		*UGMF70S819	*UGMF70S820	*UGMF70S821	*UGMF70S822	–	–	*UGMG53S928
		3-1/4	6	*UGMF68S932	–	–	*UGMF70S823		*UGMF70S824	*UGMF70S825	*UGMF70S826	*UGMF70S827	–	–	*UGMG53S929



V7A CONTINUED

OD	SD	LOC	OAL	Square End	Chamfer	.010	.015		.030	.060	.090	.125	.190	.250	Ball Nose
3/4	3/4	3/4	3	UGMF68048	UGMF76908	–	UGMF70828		UGMF70048	UGMF70941	UGMF70829	UGMF70830	UGMF70831	UGMF70832	UGMG53930
		1-1/2	4	UGMF68912	UGMF76048	–	UGMF70942		UGMF70943	UGMF70944	UGMF70833	UGMF70945	UGMF70834	UGMF70835	UGMG53048
		1-7/8	4	UGMF68933	–	–	UGMF70836		UGMF70837	UGMF70838	UGMF70839	UGMF70840	UGMF70841	UGMF70842	UGMG53931
		2-1/4	5	UGMF68934	UGMF76909	–	UGMF70843		UGMF70844	UGMF70845	UGMF70846	UGMF70847	UGMF70848	UGMF70849	UGMG53932
		3-1/4	6	*UGMF68S935	–	–	*UGMF70S850		*UGMF70S851	*UGMF70S852	*UGMF70S853	*UGMF70S854	*UGMF70S855	*UGMF70S856	*UGMG53S933
1	1	1	4	UGMF68064	UGMF76910	–	UGMF70064		UGMF70946	UGMF70947	UGMF70857	UGMF70858	UGMF70859	UGMF70860	UGMG53934
		1-1/2	4	UGMF68913	UGMF76064	–	UGMF70948		UGMF70949	UGMF70950	UGMF70861	UGMF70951	UGMF70862	UGMF70863	UGMG53064
		2	5	UGMF68914	UGMF76911	–	UGMF70952		UGMF70953	UGMF70954	UGMF70864	UGMF70865	UGMF70866	UGMF70867	UGMG53935
		2-5/8	5	UGMF68936	UGMF76912	–	UGMF70868		UGMF70869	UGMF70870	UGMF70871	UGMF70872	UGMF70873	UGMF70874	UGMG53936
		3	6	UGMF68937	–	–	UGMF70875		UGMF70876	UGMF70877	UGMF70878	UGMF70879	UGMF70880	UGMF70881	UGMG53937
		4-1/4	7	*UGMF68S938	–	–	*UGMF70S882		*UGMF70S883	*UGMF70S884	*UGMF70S885	*UGMF70S886	*UGMF70S887	*UGMF70S888	*UGMG53S938



 V7A · EXT. NECK

OD	SD	LOC	LBS	OAL	Square End	.010	.015	.030	.060	.090	.125	Ball Nose
1/8	1/8	5/32	3/8	3	UGMF72008	UGMF74008	–	UGMF74913	–	–	–	UGMH10008
		5/32	1/2	3	UGMF72913	UGMF74914	–	UGMF74915	–	–	–	UGMH10901
		5/32	5/8	3	UGMF72914	UGMF74916	–	UGMF74917	–	–	–	UGMH10902
3/16	3/16	7/32	1/2	3	UGMF72012	UGMF74012	–	UGMF74918	–	–	–	UGMH10012
		7/32	3/4	3	UGMF72915	UGMF74919	–	UGMF74920	–	–	–	UGMH10903
		7/32	1	3	UGMF72916	UGMF74921	–	UGMF74922	–	–	–	UGMH10904
1/4	1/4	3/8	3/4	4	UGMF72016	–	UGMF74016	UGMF74923	UGMF74924	–	–	UGMH10016
		3/8	1-1/8	4	UGMF72901	–	UGMF74901	UGMF74925	UGMF74926	–	–	UGMH10905
		3/8	2-1/8	4	UGMF72902	–	UGMF74902	UGMF74927	UGMF74928	–	–	UGMH10906
3/8	3/8	1/2	1-1/8	4	UGMF72024	–	UGMF74929	UGMF74024	UGMF74930	UGMF74931	–	UGMH10024
		1/2	2-1/8	4	UGMF72903	–	UGMF74932	UGMF74903	UGMF74933	UGMF74934	–	UGMH10907
		1/2	3-1/8	5	UGMF72922	–	UGMF74815	UGMF74816	UGMF74817	UGMF74818	–	UGMH10922
		1/2	3-1/8	6	UGMF72904	–	UGMF74935	UGMF74904	UGMF74936	UGMF74937	–	UGMH10908
		1/2	4-1/8	6	UGMF72917	–	UGMF74938	UGMF74939	UGMF74940	UGMF74941	–	UGMH10909
1/2	1/2	5/8	1-1/2	4	UGMF72032	–	UGMF74942	UGMF74032	UGMF74943	UGMF74944	UGMF74945	UGMH10032
		5/8	2-1/4	4	UGMF72905	–	UGMF74946	UGMF74905	UGMF74947	UGMF74948	UGMF74949	UGMH10910
		5/8	3-3/8	5	UGMF72923	–	UGMF74819	UGMF74820	UGMF74821	UGMF74822	UGMF74823	UGMH10923
		5/8	3-3/8	6	UGMF72906	–	UGMF74950	UGMF74906	UGMF74951	UGMF74952	UGMF74953	UGMH10911
		5/8	4-1/8	6	UGMF72918	–	UGMF74954	UGMF74955	UGMF74956	UGMF74957	UGMF74958	UGMH10912
5/8	5/8	3/4	1-5/8	4	UGMF72040	–	–	UGMF74040	UGMF74959	UGMF74960	UGMF74961	UGMH10040
		3/4	2-3/8	5	UGMF72924	–	–	UGMF74824	UGMF74825	UGMF74826	UGMF74827	UGMH10924
		3/4	3-3/8	5	UGMF72925	–	–	UGMF74828	UGMF74829	UGMF74830	UGMF74831	UGMH10925
		3/4	2-3/8	6	UGMF72907	–	–	UGMF74907	UGMF74962	UGMF74963	UGMF74964	UGMH10913
		3/4	3-3/8	6	UGMF72908	–	–	UGMF74908	UGMF74965	UGMF74966	UGMF74967	UGMH10914
		3/4	4-1/8	6	UGMF72919	–	–	UGMF74968	UGMF74969	UGMF74970	UGMF74971	UGMH10915

OD	SD	LOC	LBS	OAL	Square End	.030	.060	.090	.125	.190	.250	Ball Nose
3/4	3/4	1	2	4	UGMF72048	UGMF74048	UGMF74972	UGMF74973	UGMF74974	UGMF74975	UGMF74976	UGMH10048
		1	3	5	UGMF72926	UGMF74832	UGMF74833	UGMF74834	UGMF74835	UGMF74836	UGMF74837	UGMH10926
		1	2-1/2	6	UGMF72920	UGMF74977	UGMF74978	UGMF74979	UGMF74980	UGMF74981	UGMF74982	UGMH10916
		1	3	6	UGMF72909	UGMF74909	UGMF74983	UGMF74984	UGMF74985	UGMF74986	UGMF74987	UGMH10917
		1	4	6	UGMF72910	UGMF74910	UGMF74988	UGMF74989	UGMF74990	UGMF74991	UGMF74992	UGMH10918
1	1	1-1/8	2	4	UGMF72064	UGMF74064	UGMF74993	UGMF74994	UGMF74995	UGMF74996	UGMF74997	UGMH10064
		1-1/8	2-5/8	5	UGMF72927	UGMF74838	UGMF74839	UGMF74840	UGMF74841	UGMF74842	UGMF74843	UGMH10927
		1-1/8	3	5	UGMF72928	UGMF74844	UGMF74845	UGMF74846	UGMF74847	UGMF74848	UGMF74849	UGMH10928
		1-1/8	2-5/8	6	UGMF72921	UGMF74998	UGMF74999	UGMF74801	UGMF74802	UGMF74803	UGMF74804	UGMH10919
		1-1/8	3	6	UGMF72911	UGMF74911	UGMF74805	UGMF74806	UGMF74807	UGMF74808	UGMF74809	UGMH10920
		1-1/8	4	6	UGMF72912	UGMF74912	UGMF74810	UGMF74811	UGMF74812	UGMF74813	UGMF74814	UGMH10921



A diagram of a twist drill bit. The bit is shown in a perspective view. Labels with brackets indicate dimensions: 'OAL' (Overall Length) for the entire bit, 'Dia' (Diameter) for the cutting edge, 'LOC' (Length of Cut) for the fluted section, and 'Shank' for the unfluted section at the handle.



Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
1/8	1/8	1/4		2	A	C11	52523-85-D	51430-85-D		52390-85-D			
						C10	52523-70-D	51430-70-D		52390-70-D			
		1/2		2-1/2	A	C11	52525-85-D	51434-85-D		52526-85-D			
						C10	52525-70-D	51434-70-D		52526-70-D			
		1/4	3/8	2-1/2	B	C11		53344-85-D		53345-85-D			
		1/4	1/2	2-1/2	B	C11		53346-85-D		53347-85-D			
		1/4	5/8	2-1/2	B	C11		53348-85-D		53350-85-D			
5/32	3/16	3/16		2	C	C11	52527-85-D	51438-85-D					
						C10	52527-70-D	51438-70-D					
		5/16		2	C	C11	52529-85-D	51442-85-D					
						C10	52529-70-D	51442-70-D					
		9/16		2-1/2	C	C11	52531-85-D	52451-85-D					
						C10	52531-70-D	52451-70-D					
3/16	3/16	3/16		2	A	C11	52533-85-D	51446-85-D		52534-85-D			
						C10	52533-70-D	51446-70-D		52534-70-D			
		5/16		2	A	C11	52535-85-D	51450-85-D		52536-85-D			
						C10	52535-70-D	51450-70-D		52536-70-D			
		9/16		2-1/2	A	C11	52537-85-D	51454-85-D		52538-85-D			
						C10	52537-70-D	51454-70-D		52538-70-D			
		5/16	1/2	3	B	C11		53351-85-D		53352-85-D			
		5/16	3/4	3	B	C11		53354-85-D		53356-85-D			
		5/16	1	3	B	C11		53358-85-D		53360-85-D			
7/32	1/4	3/8		2	C	C11	52539-85-D		51458-85-D				
						C10	52539-70-D		51458-70-D				
		1/2		2-1/2	C	C11	52541-85-D		51462-85-D				
						C10	52541-70-D		51462-70-D				
		3/4		2-1/2	C	C11	52544-85-D		51466-85-D				
						C10	52544-70-D		51466-70-D				
1/4	1/4	3/8		2	A	C11	52546-85-D		51303-85-D	52547-85-D			
						C10	52546-70-D		51303-70-D	52547-70-D			
		1/2		2-1/2	A	C11	52548-85-D		51474-85-D	52549-85-D			
						C10	52548-70-D		51474-70-D	52549-70-D			
		3/4		2-1/2	A	C11	52550-85-D		51336-85-D	52551-85-D			
						C10	52550-70-D		51336-70-D	52551-70-D			
		1-1/4		3	A	C11	52552-85-D		52455-85-D	52554-85-D			
						C10	52552-70-D		52455-70-D	52554-70-D			
		3/8	3/4	3	B	C11			53363-85-D	53363-85-D	52872-85-D		
		3/8	1-1/8	4	B	C11			53364-85-D	53367-85-D	53368-85-D		
		3/8	2-1/8	4	B	C11			51398-85-D	53369-85-D	53370-85-D		
9/32	5/16	7/16		2-1/2	C	C11	52555-85-D	51479-85-D					
						C10	52555-70-D	51479-70-D					
		3/4		2-1/2	C	C11	52558-85-D	51483-85-D					
						C10	52558-70-D	51483-70-D					
5/16	5/16	7/16		2-1/2	A	C11	52560-85-D	51307-85-D	52562-85-D				
						C10	52560-70-D	51307-70-D	52562-70-D				
		5/8		2-1/2	A	C11	52563-85-D	51491-85-D	52564-85-D				

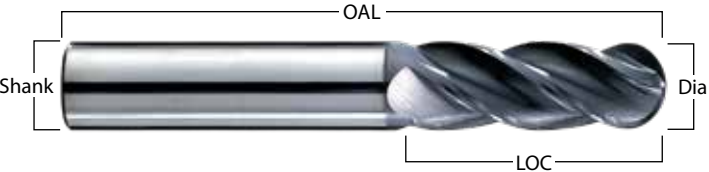
Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
						C10	52563-70-D	51491-70-D	52564-70-D				
		13/16		2-1/2	A	C11	52566-85-D	51341-85-D	52567-85-D				
						C10	52566-70-D	51341-70-D	52567-70-D				
		1-1/4		3	A	C11	52568-85-D	52460-85-D	52570-85-D				
						C10	52568-70-D	52460-70-D	52570-70-D				
11/32	3/8	1/2		2-1/2	C	C11	52572-85-D	51496-85-D					
						C10	52572-70-D	51496-70-D					
		1		2-1/2	C	C11	52576-85-D	51500-85-D					
						C10	52576-70-D	51500-70-D					
		1-1/4		3	C	C11	52579-85-D	52465-85-D					
						C10	52579-70-D	52465-70-D					
3/8	3/8	1/2		2-1/2	A	C11	52582-85-D		51311-85-D	52583-85-D	52584-85-D		
						C10	52582-70-D		51311-70-D	52583-70-D	52584-70-D		
		3/4		2-1/2	A	C11	52585-85-D		51508-85-D	52586-85-D	52587-85-D		
						C10	52585-70-D		51508-70-D	52586-70-D	52587-70-D		
		1		2-1/2	A	C11	52588-85-D		51346-85-D	52589-85-D	52590-85-D		
						C10	52588-70-D		51346-70-D	52589-70-D	52590-70-D		
		1-1/4		3	A	C11	52591-85-D		51513-85-D	52592-85-D	52593-85-D		
						C10	52591-70-D		51513-70-D	52592-70-D	52593-70-D		
		1-1/2		4	A	C11	52594-85-D		51517-85-D	52595-85-D	52596-85-D		
						C10	52594-70-D		51517-70-D	52595-70-D	52596-70-D		
		2		4	A	C11	52597-85-D		51522-85-D	52598-85-D	52599-85-D		
						C10	52597-70-D		51522-70-D	52598-70-D	52599-70-D		
		1/2	1-1/8	4	B	C11			53371-85-D	53372-85-D	53373-85-D	53374-85-D	
		1/2	2-1/8	4	B	C11			53375-85-D	53376-85-D	53377-85-D	53378-85-D	
		1/2	3-1/8	6	B	C11			53379-85-D	53380-85-D	53381-85-D	53382-85-D	
		1/2	4-1/8	6	B	C11			53383-85-D	53384-85-D	53385-85-D	53386-85-D	
13/32	7/16	9/16		2-1/2	C	C11	52600-85-D		52470-85-D				
						C10	52600-70-D		52470-70-D				
		1		2-3/4	C	C11	52603-85-D		52475-85-D				
						C10	52603-70-D		52475-70-D				
7/16	7/16	9/16		2-1/2	A	C11	52606-85-D		51315-85-D	52607-85-D	52608-85-D		
						C10	52606-70-D		51315-70-D	52607-70-D	52608-70-D		
		1		3	A	C11	52609-85-D		51351-85-D	52610-85-D	52611-85-D		
						C10	52609-70-D		51351-70-D	52610-70-D	52611-70-D		
				3-1/2	A	C11	52612-85-D		51533-85-D	52613-85-D	52614-85-D		
						C10	52612-70-D		51533-70-D	52613-70-D	52614-70-D		
15/32	1/2	5/8		3	C	C11	52615-85-D		51538-85-D				
						C10	52615-70-D		51538-70-D				
		1		3	C	C11	52619-85-D		51542-85-D				
						C10	52619-70-D		51542-70-D				
		1-1/4		3-1/2	C	C11	52524-85-D		51547-85-D				
						C10	52524-70-D		51547-70-D				
1/2	1/2	5/8		3	A	C11	52628-85-D			51319-85-D	52630-85-D	52631-85-D	52632-85-D
						C10	52628-70-D			51319-70-D	52630-70-D	52631-70-D	52632-70-D
		1		3	A	C11	52633-85-D			52480-85-D	52635-85-D	52636-85-D	52637-85-D
						C10	52633-70-D			52480-70-D	52635-70-D	52636-70-D	52637-70-D
		1-1/4		3	A	C11	52638-85-D			51379-85-D	52640-85-D	52641-85-D	52642-85-D
						C10	52638-70-D			51379-70-D	52640-70-D	52641-70-D	52642-70-D
		1-3/4		4	A	C11	52643-85-D			51581-85-D	52645-85-D	52646-85-D	52647-85-D
						C10	52643-70-D			51581-70-D	52645-70-D	52646-70-D	52647-70-D
		2		4	A	C11	52648-85-D			51585-85-D	52650-85-D	52651-85-D	52652-85-D
						C10	52648-70-D			51585-70-D	52650-70-D	52651-70-D	52652-70-D



MOBILE INVENTORY
Same Day Delivery
(most items)

SSI-4 CONTINUED

Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
		3		5	A	C11	52653-85-D			51589-85-D	52655-85-D	52656-85-D	52657-85-D
						C10	52653-70-D			51589-70-D	52655-70-D	52656-70-D	52657-70-D
		5/8	1-1/2	4	B	C11				53387-85-D	53388-85-D	53389-85-D	52874-85-D
		5/8	2-1/4	4	B	C11				53390-85-D	53391-85-D	53392-85-D	53393-85-D
		5/8	3-3/8	6	B	C11				53394-85-D	53395-85-D	53396-85-D	53397-85-D
		5/8	4-1/8	6	B	C11				53398-85-D	53399-85-D	53500-85-D	53501-85-D
5/8	5/8	3/4		3	A	C11	52658-85-D			51324-85-D	52660-85-D	52661-85-D	52662-85-D
						C10	52658-70-D			51324-70-D	52660-70-D	52661-70-D	52662-70-D
		1-1/4		3-1/2	A	C11	52663-85-D			51593-85-D	52665-85-D	52666-85-D	52667-85-D
						C10	52663-70-D			51593-70-D	52665-70-D	52666-70-D	52667-70-D
		1-5/8		3-1/2	A	C11	52668-85-D			51383-85-D	52670-85-D	52671-85-D	52672-85-D
						C10	52668-70-D			51383-70-D	52670-70-D	52671-70-D	52672-70-D
		2		4	A	C11	52673-85-D			51598-85-D	52675-85-D	52676-85-D	52677-85-D
						C10	52673-70-D			51598-70-D	52675-70-D	52676-70-D	52677-70-D
		2-1/2		5	A	C11	52678-85-D			52396-85-D	52680-85-D	52681-85-D	52682-85-D
						C10	52678-70-D			52396-70-D	52680-70-D	52681-70-D	52682-70-D
		3		6	A	C11	52683-85-D			52400-85-D	52685-85-D	52686-85-D	52687-85-D
						C10	52683-70-D			52400-70-D	52685-70-D	52686-70-D	52687-70-D
		3/4	1-5/8	4	B	C11				53502-85-D	53503-85-D	53504-85-D	53505-85-D
		3/4	2-3/8	6	B	C11				53506-85-D	53507-85-D	53508-85-D	53509-85-D
		3/4	3-3/8	6	B	C11				53510-85-D	53511-85-D	53512-85-D	53513-85-D
		3/4	4-1/8	6	B	C11				53514-85-D	53515-85-D	53516-85-D	53517-85-D
Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.030	.060	.090	.120	.156	.190
3/4	3/4	1		3	A	C11	52688-85-D	51330-85-D	52690-85-D	52691-85-D	52692-85-D	53176-85-D	53177-85-D
						C10	52688-70-D	51330-70-D	52690-70-D	52691-70-D	52692-70-D	53176-70-D	53177-70-D
		1-5/8		4	A	C11	52693-85-D	51387-85-D	52696-85-D	52697-85-D	52845-85-D	52847-85-D	52849-85-D
						C10	52693-70-D	51387-70-D	52696-70-D	52697-70-D	52845-70-D	52847-70-D	52849-70-D
		2-1/4		5	A	C11	52698-85-D	52406-85-D	52700-85-D	52701-85-D	52702-85-D	52860-85-D	52862-85-D
						C10	52698-70-D	52406-70-D	52700-70-D	52701-70-D	52702-70-D	52860-70-D	52862-70-D
		3		6	A	C11	52703-85-D	52410-85-D	52705-85-D	52706-85-D	52707-85-D	53196-85-D	53197-85-D
						C10	52703-70-D	52410-70-D	52705-70-D	52706-70-D	52707-70-D	53196-70-D	53197-70-D
		4		7	A	C11	52708-85-D	52414-85-D	52710-85-D	52711-85-D	52712-85-D	53304-85-D	53305-85-D
						C10	52708-70-D	52414-70-D	52710-70-D	52711-70-D	52712-70-D	53304-70-D	53305-70-D
		1	2	4	B	C11		53518-85-D	53519-85-D	53520-85-D	53521-85-D		
		1	2-1/2	6	B	C11		51422-85-D	53522-85-D	53523-85-D	53524-85-D		
		1	3-3/8	6	B	C11		53525-85-D	53526-85-D	53527-85-D	53528-85-D		
		1	4-1/8	6	B	C11		53529-85-D	53530-85-D	53531-85-D	53532-85-D		
1	1	1-1/4		4	A	C11	52713-85-D	51335-85-D	52715-85-D	52716-85-D	52717-85-D	53312-85-D	53313-85-D
						C10	52713-70-D	51335-70-D	52715-70-D	52716-70-D	52717-70-D	53312-70-D	53313-70-D
		2		5	A	C11	52718-85-D	51391-85-D	52721-85-D	52722-85-D	52723-85-D	53320-85-D	53321-85-D
						C10	52718-70-D	51391-70-D	52721-70-D	52722-70-D	52723-70-D	53320-70-D	53321-70-D
		2-5/8		6	A	C11	52724-85-D	52422-85-D	52726-85-D	52727-85-D	52728-85-D	53328-85-D	53329-85-D
						C10	52724-70-D	52422-70-D	52726-70-D	52727-70-D	52728-70-D	53328-70-D	53329-70-D
		3-1/4		6	A	C11	40104-85-D	44999-85-D					
						C10	40104-70-D	44999-70-D					
		4-1/8		7	A	C11	40105-85-D	45000-85-D					
						C10	40105-70-D	45000-70-D					
		1-1/4	2-1/4	4	B	C11		53533-85-D	53534-85-D	53535-85-D	53536-85-D		
		1-1/4	2-5/8	6	B	C11		53537-85-D	53538-85-D	53539-85-D	53540-85-D		
		1-1/4	3-3/8	6	B	C11		53541-85-D	53542-85-D	53543-85-D	53544-85-D		
		1-1/4	4-1/8	6	B	C11		53545-85-D	53546-85-D	53547-85-D	53548-85-D		



 DATA FLUTE SSI-4 · BALL

Dia	Shank Dia	LOC	OAL	Style	EDP
1/8	1/8	1/4	2	A	53549-85-D
		1/2	2-1/2	A	53550-85-D
5/32	3/16	5/16	2	C	53551-85-D
		9/16	2-1/2	C	53552-85-D
3/16	3/16	5/16	2	A	53553-85-D
		9/16	2-1/2	A	53554-85-D
7/32	1/4	3/8	2	C	53555-85-D
		3/4	2-1/2	C	53556-85-D
1/4	1/4	3/8	2	A	53557-85-D
		3/4	2-1/2	A	53558-85-D
9/32	5/16	7/16	2-1/2	C	53559-85-D
		3/4	2-1/2	C	53560-85-D
5/16	5/16	7/16	2-1/2	A	53561-85-D
		13/16	2-1/2	A	53562-85-D
11/32	3/8	1/2	2-1/2	C	53563-85-D
		1	2-1/2	C	53564-85-D
3/8	3/8	1/2	2-1/2	A	53565-85-D
		1	2-1/2	A	53566-85-D
7/16	7/16	9/16	2-1/2	A	53567-85-D
		1	3	A	53569-85-D
1/2	1/2	5/8	3	A	53570-85-D
		1-1/4	3	A	53571-85-D
5/8	5/8	3/4	3	A	53572-85-D
		1-5/8	3-1/2	A	53573-85-D
3/4	3/4	1	3	A	53574-85-D
		1-5/8	4	A	53575-85-D
1	1	1-1/4	4	A	53576-85-D
		2	5	A	53577-85-D

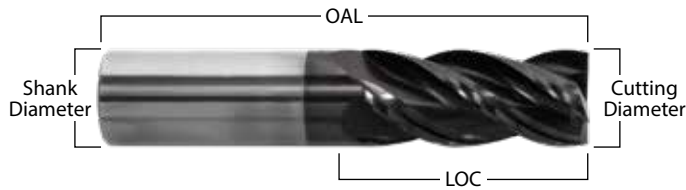


4 FLUTE CARBIDE



451 SERIES

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Radius
1/4	1/4	1/2	2	451041	.015 .030 .060
1/4	1/4	3/4	2-1/2	451042	.015 .030 .060
1/4	1/4	1	3	451043	.015 .030 .060
1/4	1/4	1-1/4	4	451044	.015 .030 .060
1/4	1/4	1-3/4	4	451045	.015 .030 .060
5/16	5/16	1/2	2	451051	.015 .030 .060
5/16	5/16	7/8	2-1/2	451052	.015 .030 .060
5/16	5/16	1	3	451053	.015 .030 .060
5/16	5/16	1-1/4	4	451054	.015 .030 .060
5/16	5/16	1-5/8	4	451055	.015 .030 .060
3/8	3/8	1/2	2	451061	.015 .030 .060 .090 .125
3/8	3/8	1	2-1/2	451062	.015 .030 .060 .090 .125
3/8	3/8	1	3	451063	.015 .030 .060 .090 .125
3/8	3/8	1-1/2	4	451064	.015 .030 .060 .090 .125
3/8	3/8	2-1/2	5	451065	.015 .030 .060 .090 .125
1/2	1/2	5/8	2-1/2	451081	.015 .030 .060 .090 .125
1/2	1/2	1	3	451082	.015 .030 .060 .090 .125
1/2	1/2	1-1/4	3	451083	.015 .030 .060 .090 .125
1/2	1/2	1-1/2	4	451084	.015 .030 .060 .090 .125
1/2	1/2	2	4	451085	.015 .030 .060 .090 .125
1/2	1/2	2-1/2	5	451086	.015 .030 .060 .090 .125
1/2	1/2	3	6	451087	.015 .030 .060 .090 .125
5/8	5/8	3/4	3	451101	.015 .030 .060 .090 .125
5/8	5/8	1-1/4	3-1/2	451102	.015 .030 .060 .090 .125
5/8	5/8	1-3/4	4	451103	.015 .030 .060 .090 .125
5/8	5/8	2-1/4	5	451104	.015 .030 .060 .090 .125
5/8	5/8	3	6	451105	.015 .030 .060 .090 .125
3/4	3/4	7/8	3	451121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/2	4	451122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-5/8	4	451123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	2-1/4	5	451124	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	3	6	451125	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	4	7	451126	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	451161	.015 .030 .060 .090 .125 .188 .250
1	1	2	4-1/2	451162	.015 .030 .060 .090 .125 .188 .250
1	1	2-1/4	5	451163	.015 .030 .060 .090 .125 .188 .250
1	1	3	6	451164	.015 .030 .060 .090 .125 .188 .250
1	1	4	7	451165	.015 .030 .060 .090 .125 .188 .250



451 SERIES · EXT. NECK

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Radius
1/4	1/4	1/2	1-1/4	3	N451040	.015 .030 .060
1/4	1/4	1/2	2-1/8	4	N451041	.015 .030 .060
1/4	1/4	1/2	3-1/8	5	N451042	.015 .030 .060
1/4	1/4	1/2	4-1/8	6	N451043	.015 .030 .060
5/16	5/16	9/16	2-1/8	4	N451051	.015 .030 .060
5/16	5/16	9/16	4-1/8	6	N451052	.015 .030 .060
3/8	3/8	3/4	1-1/4	3	N451060	.015 .030 .060 .090 .125
3/8	3/8	3/4	2-1/8	4	N451061	.015 .030 .060 .090 .125
3/8	3/8	3/4	3-1/8	5	N451062	.015 .030 .060 .090 .125
3/8	3/8	3/4	4-1/8	6	N451063	.015 .030 .060 .090 .125
1/2	1/2	7/8	1-3/8	3	N451080	.015 .030 .060 .090 .125
1/2	1/2	7/8	2-1/8	4	N451081	.015 .030 .060 .090 .125
1/2	1/2	7/8	3-1/8	5	N451082	.015 .030 .060 .090 .125
1/2	1/2	7/8	4-1/8	6	N451083	.015 .030 .060 .090 .125
1/2	1/2	7/8	5-1/8	7	N451084	.015 .030 .060 .090 .125
1/2	1/2	7/8	6-1/8	8	N451085	.015 .030 .060 .090 .125
5/8	5/8	1	2	4	N451100	.015 .030 .060 .090 .125
5/8	5/8	1	3	5	N451101	.015 .030 .060 .090 .125
5/8	5/8	1	4	6	N451102	.015 .030 .060 .090 .125
5/8	5/8	1	6	8	N451103	.015 .030 .060 .090 .125
3/4	3/4	1	2	4	N451120	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	3	5	N451121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	4	6	N451122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	5	7	N451123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	6	8	N451124	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/4	2	4	N451160	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	3	5	N451161	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	6	N451162	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	5	7	N451163	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	6	8	N451164	.015 .030 .060 .090 .125 .188 .250



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MOBILE INVENTORY
Same Day Delivery
(most items)

4 FLUTE CARBIDE



MTi4



DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.156	.190	Ball
1/8	1/8	1/4	1-1/2	320500	320520	320540		320560						320570
1/8	1/8	1/2	2	320580	320600	320620		320640						320650
1/8	1/8	3/4	2-1/2	320660	320680	320700		320720						320730
3/16	3/16	5/16	2	320740	320760	320780		320800						320810
3/16	3/16	9/16	2-1/2	320820	320840	320860		320880						320890
3/16	3/16	3/4	2-1/2	320900	320920	320940		320960						320970
1/4	1/4	3/8	2	320980		321000	321020	321040	321060	321080				321090
1/4	1/4	1/2	2-1/2	321100		321120	321140	321160	321180	321200				321210
1/4	1/4	3/4	2-1/2	321220		321240	321260	321280	321300	321320				321330
1/4	1/4	1-1/4	3	321340		321360	321380	321400	321420	321440				321450
5/16	5/16	7/16	2	321460		321480		321500	321520	321540				321550
5/16	5/16	13/16	2-1/2	321560		321580		321600	321620	321640				321650
5/16	5/16	1	3	321660		321680		321700	321720	321740				321750
3/8	3/8	1/2	2	321760		321780	321800	321820	321840	321860	321880			321890
3/8	3/8	1	2-1/2	321900		321920	321940	321960	321980	322000	322020			322030
3/8	3/8	1-1/4	3	322040		322060	322080	322100	322120	322140	322160			322170
3/8	3/8	1-3/4	4	322180		322200	322220	322240	322260	322280	322300			322310
1/2	1/2	5/8	2-1/2	322320		322340		322360	322380	322400	322420	322440	322460	322470
1/2	1/2	1	3	322480		322500		322520	322540	322560	322580	322600	322620	322630
1/2	1/2	1-1/4	3	322640		322660		322680	322700	322720	322740	322760	322780	322790
1/2	1/2	1-5/8	4	322800		322820		322840	322860	322880	322900	322920	322940	322950
1/2	1/2	2	4	322960		322980		323000	323020	323040	323060	323080	323100	323110
DIA	SHK	LOC	OAL	SQ	.015	.030	.060	.090	.120	.156	.190	.250	.375	Ball
5/8	5/8	3/4	3	323120	323140	323160	323180	323200	323220	323240	323260			323270
5/8	5/8	1-1/4	3-1/2	323280	323300	323320	323340	323360	323380	323400	323420			323430
5/8	5/8	1-5/8	3-1/2	323440	323460	323480	323500	323520	323540	323560	323580			323590
5/8	5/8	2-1/8	4	323600	323620	323640	323660	323680	323700	323720	323740			323750
5/8	5/8	2-1/2	5	323760	323780	323800	323820	323840	323860	323880	323900			323910
3/4	3/4	1	3	323920	323940	323960	323980	324000	324020	324040	324060	324080		324090
3/4	3/4	1-5/8	4	324100	324120	324140	324160	324180	324200	324220	324240	324260		324270
3/4	3/4	2-1/4	5	324280	324300	324320	324340	324360	324380	324400	324420	324440		324450
3/4	3/4	2-3/4	5	324460	324480	324500	324520	324540	324560	324580	324600	324620		324630
3/4	3/4	3-1/4	6	324640	324660	324680	324700	324720	324740	324760	324780	324800		324810
1	1	1-1/4	4	324820	324840	324860	324880	324900	324920	324940	324960	324980	325000	325010
1	1	2	4-1/2	325020	325040	325060	325080	325100	325120	325140	325160	325180	325200	325210
1	1	2-5/8	5	325220	325240	325260	325280	325300	325320	325340	325360	325380	325400	325410
1	1	3-1/4	6	325420	325440	325460	325480	325500	325520	325540	325560	325580	325600	325610
1	1	4-1/4	7	325620	325640	325660	325680	325700	325720	325740	325760	325780	325800	325810



MTi4-RN • REDUCED NECK



DIA	SHK	LOC	LBS	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.156	.190	Ball
1/8	1/8	3/16	3/8	2	330500	330520	330540		330560						330570
1/8	1/8	3/16	1/2	2	330580	330600	330620		330640						330650
1/8	1/8	3/16	3/4	2-1/2	330660	330680	330700		330720						330730
3/16	3/16	1/4	1/2	2	330740	330760	330780		330800						330810
3/16	3/16	1/4	3/4	2-1/2	330820	330840	330860		330880						330890
3/16	3/16	1/4	1-1/8	2-1/2	330900	330920	330940		330960						330970
1/4	1/4	3/8	3/4	4	330980		331000	331020	331040	331060	331080				331090
1/4	1/4	3/8	1-1/8	4	331100		331120	331140	331160	331180	331200				331210
1/4	1/4	3/8	2-1/8	4	331220		331240	331260	331280	331300	331320				331330
1/4	1/4	3/8		4	331340		331360	331380	331400	331420	331440				331450
5/16	5/16	7/16	1-1/8	4	331460		331480		331500	331520	331540				331550
5/16	5/16	7/16	2-1/8	4	331560		331580		331600	331620	331640				331650
5/16	5/16	7/16		4	331660		331680		331700	331720	331740				331750
3/8	3/8	1/2	1-1/8	4	331760		331780	331800	331820	331840	331860	331880			331890
3/8	3/8	1/2	2-1/8	4	331900		331920	331940	331960	331980	332000	332020			332030
3/8	3/8	1/2	3-1/8	6	332040		332060	332080	332100	332120	332140	332160			332170
3/8	3/8	1/2	4-1/8	6	332180		332200	332220	332240	332260	332280	332300			332310
3/8	3/8	1/2		6	332320		332340	332360	332380	332400	332420	332440			332450
1/2	1/2	5/8	1-1/2	4	332460		332480		332500	332520	332540	332560	332580	332600	332610
1/2	1/2	5/8	2-1/4	4	332620		332640		332660	332680	332700	332720	332740	332760	332770
1/2	1/2	5/8	3-3/8	6	332780		332800		332820	332840	332860	332880	332900	332920	332930
1/2	1/2	5/8	4-1/8	6	332940		332960		332980	333000	333020	333040	333060	333080	333090
1/2	1/2	5/8		6	333100		333120		333140	333160	333180	333200	333220	333240	333250
1/2	1/2	5/8		8	333260		333280		333300	333320	333340	333360	333380	333400	333410
DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.090	.120	.156	.190	.250	.375	Ball
5/8	5/8	3/4	1-5/8	4	333420	333440	333460	333480	333500	333520	333540	333560			333570
5/8	5/8	3/4	2-3/8	6	333580	333600	333620	333640	333660	333680	333700	333720			333730
5/8	5/8	3/4	3-3/8	6	333740	333760	333780	333800	333820	333840	333860	333880			333890
5/8	5/8	3/4	4-1/8	6	333900	333920	333940	333960	333980	334000	334020	334040			334050
5/8	5/8	3/4		6	334060	334080	334100	334120	334140	334160	334180	334200			334210
3/4	3/4	1	2	4	334220	334240	334260	334280	334300	334320	334340	334360	334380		334390
3/4	3/4	1	2-1/2	6	334400	334420	334440	334460	334480	334500	334520	334540	334560		334570
3/4	3/4	1	3-3/8	6	334580	334600	334620	334640	334660	334680	334700	334720	334740		334750
3/4	3/4	1	4-1/8	6	334760	334780	334800	334820	334840	334860	334880	334900	334920		334930
3/4	3/4	1		6	334940	334960	334980	335000	335020	335040	335060	335080	335100		335110
3/4	3/4	1	4-7/8	7	335120	335140	335160	335180	335200	335220	335240	335260	335280		335290
3/4	3/4	1		7	335300	335320	335340	335360	335380	335400	335420	335440	335460		335470
3/4	3/4	1		9	335480	335500	335520	335540	335560	335580	335600	335620	335640		335650
1	1	1-1/4	2-1/4	4	335660	335680	335700	335720	335740	335760	335780	335800	335820	335840	335850
1	1	1-1/4	2-5/8	6	335860	335880	335900	335920	335940	335960	335980	336000	336020	336040	336050
1	1	1-1/4	3-3/8	6	336060	336080	336100	336120	336140	336160	336180	336200	336220	336240	336250
1	1	1-1/4	4-1/8	6	336260	336280	336300	336320	336340	336360	336380	336400	336420	336440	336450
1	1	1-1/4		6	336460	336480	336500	336520	336540	336560	336580	336600	336620	336640	336650
1	1	1-1/4	4-5/8	7	336660	336680	336700	336720	336740	336760	336780	336800	336820	336840	336850
1	1	1-1/4		7	336860	336880	336900	336920	336940	336960	336980	337000	337020	337040	337050
1	1	1-1/4		12-1/2	337060	337080	337100	337120	337140	337160	337180	337200	337220	337240	337250

5 FLUTE CARBIDE

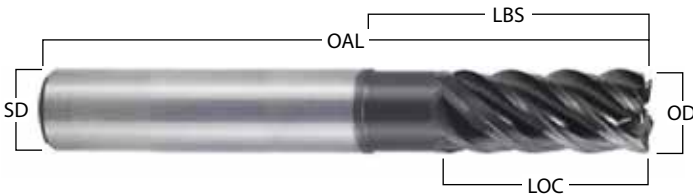


TITANOX

OD	SD	LOC	OAL	Square End	Chamfer	.015	.030		.060	.090	.125	.190	.250
1/8	1/8	1/4	1-1/2	UGMH12008	UGMG32008	UGMG34008	UGMG34950		-	-	-	-	-
		3/8	1-1/2	UGMH12901	UGMG32901	UGMG34901	UGMG34951		-	-	-	-	-
		1/2	2-1/2	UGMH12S902*	-	UGMG34S952*	UGMG34S953*		-	-	-	-	-
		3/4	2-1/2	UGMH12S903*	-	UGMG34S954*	UGMG34S955*		-	-	-	-	-
3/16	3/16	5/16	2	UGMH12012	UGMG32012	UGMG34012	UGMG34956		-	-	-	-	-
		9/16	2	UGMH12904	UGMG32902	UGMG34902	UGMG34957		-	-	-	-	-
		3/4	2-1/2	UGMH12S905*	-	UGMG34S958*	UGMG34S959*		-	-	-	-	-
1/4	1/4	3/8	2	UGMH12016	UGMG32016	UGMG34960	UGMG34016		UGMG34961	-	-	-	-
		1/2	2-1/2	UGMH12906	-	UGMG34962	UGMG34963		UGMG34964	-	-	-	-
		3/4	2-1/2	UGMH12907	UGMG32903	UGMG34903	UGMG34904		UGMG34905	-	-	-	-
		1	3	UGMH12S908*	-	UGMG34S965*	UGMG34S966*		UGMG34S967*	-	-	-	-
		1-1/4	3	UGMH12S909*	-	UGMG34S968*	UGMG34S969*		UGMG34S970*	-	-	-	-
5/16	5/16	7/16	2"	UGMH12020	UGMG32020	UGMG34971	UGMG34020		UGMG34972	-	-	-	-
		13/16	2-1/2	UGMH12910	UGMG32904	UGMG34906	UGMG34907		UGMG34908	-	-	-	-
		1	3	UGMH12S911*	-	UGMG34S973*	UGMG34S974*		UGMG34S975*	-	-	-	-
3/8	3/8	1/2	2-1/2	UGMH12024	UGMG32024	UGMG34976	UGMG34024		UGMG34909	UGMG34977	-	-	-
		1	3	UGMH12912	UGMG32905	UGMG34910	UGMG34911		UGMG34912	UGMG34978	-	-	-
		1-1/4	3	UGMH12S913*	-	UGMG34S979*	UGMG34S980*		UGMG34S981*	UGMG34S982*	-	-	-
		1-1/2	4	UGMH12S914*	-	UGMG34S983*	UGMG34S984*		UGMG34S985*	UGMG34S986*	-	-	-
1/2	1/2	5/8	2-1/2	UGMH12032	UGMG32032	UGMG34032	UGMG34913		UGMG34914	UGMG34987	UGMG34988	-	-
		1	3	UGMH12915	UGMG32906	UGMG34915	UGMG34916		UGMG34917	UGMG34918	UGMG34919	-	-
		1-1/4	3-1/2	UGMH12916	UGMG32907	UGMG34920	UGMG34921		UGMG34922	UGMG34923	UGMG34924	-	-
		1-5/8	4	UGMH12S917*	-	UGMG34S989*	UGMG34S990*		UGMG34S991*	UGMG34S992*	UGMG34S993*	-	-
		2	4	UGMH12S918*	-	UGMG34S994*	UGMG34S995*		UGMG34S996*	UGMG34S997*	UGMG34S998*	-	-
5/8	5/8	3/4	3	UGMH12040	UGMG32040	-	UGMG34040		UGMG34925	UGMG34999	UGMG34801	-	-
		1-1/4	3-1/2	UGMH12919	UGMG32908	UGMG34926	UGMG34927		UGMG34928	UGMG34929	UGMG34930	-	-
		1-5/8	4	UGMH12920	-	-	UGMG34802		UGMG34803	UGMG34804	UGMG34805	-	-
		2-1/8	4-1/2	UGMH12S921*	-	-	UGMG34S806*		UGMG34S807*	UGMG34S808*	UGMG34S809*	-	-
		2-1/2	5	UGMH12S922*	-	-	UGMG34S810*		UGMG34S811*	UGMG34S812*	UGMG34S813*	-	-
3/4	3/4	1	3-1/2	UGMH12048	UGMG32048	-	UGMG34048		UGMG34931	UGMG34932	UGMG34814	UGMG34815	UGMG34816
		1-1/2	4	UGMH12923	UGMG32909	UGMG34933	UGMG34934		UGMG34935	UGMG34936	UGMG34937	UGMG34938	UGMG34817
		1-7/8	5	UGMH12924	-	-	UGMG34818		UGMG34819	UGMG34820	UGMG34821	UGMG34822	UGMG34823
		2-1/4	5	UGMH12925	-	-	UGMG34824		UGMG34825	UGMG34826	UGMG34827	UGMG34828	UGMG34829
		2-3/4	5	UGMH12S926*	-	-	UGMG34S830*		UGMG34S831*	UGMG34S832*	UGMG34S833*	UGMG34S834*	UGMG34S835
		3-1/4	6	UGMH12S927*	-	-	UGMG34S836*		UGMG34S837*	UGMG34S838*	UGMG34S839*	UGMG34S840*	UGMG34S841*
1	1	1-1/8	4	UGMH12064	UGMG32064	-	UGMG34064		UGMG34939	UGMG34940	UGMG34842	UGMG34843	UGMG34844
		1-1/2	4	UGMH12928	UGMG32910	UGMG34941	UGMG34942		UGMG34943	UGMG34944	UGMG34945	UGMG34946	UGMG34845
		2	5	UGMH12929	UGMG32911	-	UGMG34947		UGMG34948	UGMG34949	UGMG34846	UGMG34847	UGMG34848
		2-5/8	5	UGMH12930	-	-	UGMG34849		UGMG34850	UGMG34851	UGMG34852	UGMG34853	UGMG34854
		3-1/4	6	UGMH12S931*	-	-	UGMG34S855*		UGMG34S856*	UGMG34S857*	UGMG34S858*	UGMG34S859*	UGMG34S860*
		4-1/4	7	UGMH12S932*	-	-	UGMG34S861*		UGMG34S862*	UGMG34S863*	UGMG34S864*	UGMG34S865*	UGMG34S866*



5 FLUTE CARBIDE



TITANOX · EXT. NECK

OD	SD	LOC	LBS	OAL	Square End	.030	.060	.090	.125	.190	.250
1/8	1/8	5/32	3/8	3	UGMH06008	UGMH07008	-	-	-	-	-
			1/2	3	UGMH06901	UGMH07901	-	-	-	-	-
			5/8	3	UGMH06902	UGMH07902	-	-	-	-	-
3/16	3/16	7/32	1/2	3	UGMH06012	UGMH07012	-	-	-	-	-
			3/4	3	UGMH06903	UGMH07903	-	-	-	-	-
			1	3	UGMH06904	UGMH07904	-	-	-	-	-
1/4	1/4	3/8	3/4	4	UGMH06016	UGMH07016	UGMH07905	-	-	-	-
			1-1/8	4	UGMH06905	UGMH07906	UGMH07907	-	-	-	-
			2-1/8	4	UGMH06906	UGMH07908	UGMH07909	-	-	-	-
3/8	3/8	1/2	1-1/8	4	UGMH06024	UGMH07024	UGMH07910	UGMH07911	-	-	-
			2-1/8	4	UGMH06907	UGMH07912	UGMH07913	UGMH07914	-	-	-
			3-1/8	5	UGMH06923	UGMH07804	UGMH07805	UGMH07806	-	-	-
			3-1/8	6	UGMH06908	UGMH07915	UGMH07916	UGMH07917	-	-	-
			4-1/8	6	UGMH06909	UGMH07918	UGMH07919	UGMH07920	-	-	-
1/2	1/2	5/8	1-1/2	4	UGMH06032	UGMH07032	UGMH07921	UGMH07922	UGMH07923	-	-
			2-1/4	4	UGMH06910	UGMH07924	UGMH07925	UGMH07926	UGMH07927	-	-
			3-3/8	5	UGMH06924	UGMH07807	UGMH07808	UGMH07809	UGMH07810	-	-
			3-3/8	6	UGMH06911	UGMH07928	UGMH07929	UGMH07930	UGMH07931	-	-
			4-1/8	6	UGMH06912	UGMH07932	UGMH07933	UGMH07934	UGMH07935	-	-
5/8	5/8	3/4	1-5/8	4	UGMH06040	UGMH07040	UGMH07936	UGMH07937	UGMH07938	-	-
			2-3/8	6	UGMH06913	UGMH07939	UGMH07940	UGMH07941	UGMH07942	-	-
			3-3/8	6	UGMH06914	UGMH07943	UGMH07944	UGMH07945	UGMH07946	-	-
			4-1/8	6	UGMH06915	UGMH07947	UGMH07948	UGMH07949	UGMH07950	-	-
3/4	3/4	1-1/8	2	4	UGMH06048	UGMH07048	UGMH07951	UGMH07952	UGMH07953	UGMH07954	UGMH07955
			2-5/8	5	UGMH06916	UGMH07956	UGMH07957	UGMH07958	UGMH07959	UGMH07960	UGMH07961
			3-1/4	6	UGMH06917	UGMH07962	UGMH07963	UGMH07964	UGMH07965	UGMH07966	UGMH07967
			4-1/4	7	UGMH06918	UGMH07968	UGMH07969	UGMH07970	UGMH07971	UGMH07972	UGMH07973
1	1	1-1/4	2-1/4	4	UGMH06064	UGMH07064	UGMH07974	UGMH07975	UGMH07976	UGMH07977	UGMH07978
			2-5/8	5	UGMH06919	UGMH07979	UGMH07980	UGMH07981	UGMH07982	UGMH07983	UGMH07984
			3-1/4	6	UGMH06920	UGMH07985	UGMH07986	UGMH07987	UGMH07988	UGMH07989	UGMH07990
			4-1/4	7	UGMH06921	UGMH07991	UGMH07992	UGMH07993	UGMH07994	UGMH07995	UGMH07996
			5-1/4	8	UGMH06922	UGMH07997	UGMH07998	UGMH07999	UGMH07801	UGMH07802	UGMH07803



For TITANIUM, STAINLESS STEELS AND ALLOY STEELS

HIGH PERFORMANCE SOLID CARBIDE END MILLS - *TitaNox Power HPC*
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- ▶ Unequal index design for Chatter-Free cutting
- ▶ High performance milling of Stainless Steel, Titanium, and Heat-Resistant Super Alloys

Square

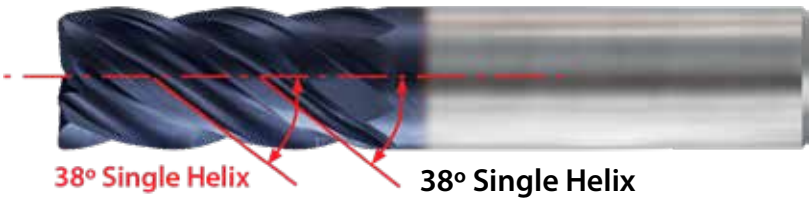


Corner Radius



Unequal Index

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5 FLUTE CARBIDE



DATA FLUTE MH

Dia	Shank	LOC	OAL	Flute	Style	EDP	C4 EDP	C11 EDP	C10 EDP
1/8	3/8	1/4	2-1/2	5	A	52100-00-D	52100-89-D	52100-85-D	52100-70-D
	1/8	1/4	1-1/2	5	A	40251-00-D	40251-89-D	40251-85-D	40251-70-D
	3/8	1/2	2-1/2	5	A	52118-00-D	52118-89-D	52118-85-D	52118-70-D
	1/8	1/2	1-1/2	5	A	39696-00-D	39696-89-D	39696-85-D	39696-70-D
5/32	3/16	5/16	2	5	C	40259-00-D	40259-89-D	40259-85-D	40259-70-D
	3/16	9/16	2	5	C	39704-00-D	39704-89-D	39704-85-D	39704-70-D
3/16	3/8	5/16	2-1/2	5	A	52106-00-D	52106-89-D	52106-85-D	52106-70-D
	3/16	5/16	2	5	A	40267-00-D	40267-89-D	40267-85-D	40267-70-D
	3/8	5/8	2-1/2	5	A	52124-00-D	52124-89-D	52124-85-D	52124-70-D
	3/16	9/16	2	5	A	39712-00-D	39712-89-D	39712-85-D	39712-70-D
7/32	1/4	3/8	2	5	C	40275-00-D	40275-89-D	40275-85-D	40275-70-D
	1/4	3/4	2-1/2	5	C	39720-00-D	39720-89-D	39720-85-D	39720-70-D
1/4	3/8	3/8	2-1/2	5	A	52112-00-D	52112-89-D	52112-85-D	52112-70-D
	1/4	3/8	2	5	A	40283-00-D	40283-89-D	40283-85-D	40283-70-D
	3/8	3/4	2-1/2	5	A	52130-00-D	52130-89-D	52130-85-D	52130-70-D
	1/4	3/4	2-1/2	5	A	39728-00-D	39728-89-D	39728-85-D	39728-70-D
9/32	5/16	1-1/4	4	5	A	39912-00-D	39912-89-D	39912-85-D	39912-70-D
		7/16	2	5	C	40291-00-D	40291-89-D	40291-85-D	40291-70-D
		13/16	2-1/2	5	C	39736-00-D	39736-89-D	39736-85-D	39736-70-D
		7/16	2	5	A	40299-00-D	40299-89-D	40299-85-D	40299-70-D
5/16		13/16	2-1/2	5	A	39744-00-D	39744-89-D	39744-85-D	39744-70-D
		1-1/4	4	5	A	39920-00-D	39920-89-D	39920-85-D	39920-70-D
		2-1/8	4	5	A	40379-00-D	40379-89-D	40379-85-D	40379-70-D
		1/2	2	5	C	40307-00-D	40307-89-D	40307-85-D	40307-70-D
11/32	3/8	1	2-1/2	5	C	39752-00-D	39752-89-D	39752-85-D	39d752-70-D
		1/2	2	5	A	40315-00-D	40315-89-D	40315-85-D	40315-70-D
3/8	3/8	1	2-1/2	5	A	39760-00-D	39760-89-D	39760-85-D	39760-70-D
		1-1/4	3	5	A	51643-00-D	51643-89-D	51643-85-D	51643-70-D
		1-1/2	4	5	A	39928-00-D	39928-89-D	39928-85-D	39928-70-D
		2-1/2	6	5	A	40387-00-D	40387-89-D	40387-85-D	40387-70-D
13/32	7/16	9/16	2-1/2	5	C	40323-00-D	40323-89-D	40323-85-D	40323-70-D
		1	2-3/4	5	C	39768-00-D	39768-89-D	39768-85-D	39768-70-D
7/16	7/16	9/16	2-1/2	5	A	40331-00-D	40331-89-D	40331-85-D	40331-70-D
		1	2-3/4	5	A	39776-00-D	39776-89-D	39776-85-D	39776-70-D
		2	4	5	A	39936-00-D	39936-89-D	39936-85-D	39936-70-D
15/32	1/2	5/8	2-1/2	5	C	40339-00-D	40339-89-D	40339-85-D	40339-70-D
		1-1/4	3	5	C	39784-00-D	39784-89-D	39784-85-D	39784-70-D
1/2	1/2	5/8	2-1/2	5	A	40347-00-D	40347-89-D	40347-85-D	40347-70-D
		1-1/4	3	5	A	39792-00-D	39792-89-D	39792-85-D	39792-70-D
		1-5/8	4	5	A	51650-00-D	51650-89-D	51650-85-D	51650-70-D
		2	4	5	A	39944-00-D	39944-89-D	39944-85-D	39944-70-D

Dia	Shank	LOC	OAL	Flute	Style	EDP	C4 EDP	C11 EDP	C10 EDP
9/16	9/16	3-1/8	6	5	A	40395-00-D	40395-89-D	40395-85-D	40395-70-D
		1-1/2	3-1/2	5	A	39800-00-D	39800-89-D	39800-85-D	39800-70-D
		3/4	3	5	A	40355-00-D	40355-89-D	40355-85-D	40355-70-D
		1-5/8	3-1/2	5	A	39808-00-D	39808-89-D	39808-85-D	39808-70-D
5/8	5/8	2-1/8	4	5	A	51657-00-D	51657-89-D	51657-85-D	51657-70-D
		2-1/2	5	5	A	39952-00-D	39952-89-D	39952-85-D	39952-70-D
		4	6	5	A	40403-00-D	40403-89-D	40403-85-D	40403-70-D
		1	3	5	A	40363-00-D	40363-89-D	40363-85-D	40363-70-D
3/4	3/4	1-5/8	4	5	A	39816-00-D	39816-89-D	39816-85-D	39816-70-D
		2-1/4	5	5	A	39991-00-D	39991-89-D	39991-85-D	39991-70-D
		3-1/4	6	5	A	39960-00-D	39960-89-D	39960-85-D	39960-70-D
		4	6	5	A	40411-00-D	40411-89-D	40411-85-D	40411-70-D
7/8	7/8	2	4	5	A	39824-00-D	39824-89-D	39824-85-D	39824-70-D
1	1	1-1/4	3	5	A	40371-00-D	40371-89-D	40371-85-D	40371-70-D
		2	4	5	A	39832-00-D	39832-89-D	39832-85-D	39832-70-D
		2-5/8	6	5	A	39999-00-D	39999-89-D	39999-85-D	39999-70-D
		3-1/4	6	5	A	39968-00-D	39968-89-D	39968-85-D	39968-70-D
1-1/4	1-1/4	4-1/8	7	5	A	40419-00-D	40419-89-D	40419-85-D	40419-70-D
		2	4-1/2	7	A	39848-00-D	39848-89-D	39848-85-D	39848-70-D
		3-1/4	6	7	A	39984-00-D	39984-89-D	39984-85-D	39984-70-D
		5	7-1/2	7	A	40427-00-D	40427-89-D	40427-85-D	40427-70-D



5 FLUTE CARBIDE



MH-CR

Dia	Shank	LOC	OAL	Flute	Coating	Style	.030	.060	.090	.125	.156	.187
1/4	1/4	3/8	2	5	Uncoated	A	48736-00-D					
					C4	A	48736-89-D					
					C11	C	48736-85-D					
					C10	A	48736-70-D					
		3/4	2-1/2	5	Uncoated	A	48767-00-D					
					C4	A	48767-89-D					
					C11	A	48767-85-D					
					C10	A	48767-70-D					
		1	3	5	Uncoated	A	50292-00-D					
					C4	A	50292-89-D					
					C11	A	50292-85-D					
					C10	A	50292-70-D					
		1-1/4	4	5	Uncoated	A	50329-00-D					
					C4	A	50329-89-D					
					C11	A	50329-85-D					
					C10	A	50329-70-D					
		2	6	5	Uncoated	A	48700-00-D					
					C4	A	48700-89-D					
					C11	A	48700-85-D					
					C10	A	48700-70-D					
3/8	3/8	1/2	2	5	Uncoated	A	48740-00-D	48748-00-D				
					C4	A	48740-89-D	48748-89-D				
					C11	A	48740-85-D	48748-85-D				
					C10	A	48740-70-D	48748-70-D				
		1	2-1/2	5	Uncoated	A	48771-00-D	48780-00-D				
					C4	A	48771-89-D	48780-89-D				
					C11	A	48771-85-D	48780-85-D				
					C10	A	48771-70-D	48780-70-D				
		1-1/4	3	5	Uncoated	A	50296-00-D	50306-00-D				
					C4	A	50296-89-D	50306-89-D				
					C11	A	50296-85-D	50306-85-D				
					C10	A	50296-70-D	50306-70-D				
		1-1/2	4	5	Uncoated	A	50335-00-D	50346-00-D				
					C4	A	50335-89-D	50346-89-D				
					C11	A	50335-85-D	50346-85-D				
					C10	A	50335-70-D	50346-70-D				
		2-1/2	6	5	Uncoated	A	48704-00-D	48713-00-D				
					C4	A	48704-89-D	48713-89-D				
					C11	A	48704-85-D	48713-85-D				
					C10	A	48704-70-D	48713-70-D				
1/2	1/2	5/8	2-1/2	5	Uncoated	A	49909-00-D	49966-00-D	49993-00-D			
					C4	A	49909-89-D	49966-89-D	49993-89-D			
					C11	A	49909-85-D	49966-85-D	49993-85-D			
					C10	A	49909-70-D	49966-70-D	49993-70-D			
		1-1/4	3	5	Uncoated	A	49921-00-D	49978-00-D	50005-00-D			

Dia	Shank	LOC	OAL	Flute	Coating	Style	.030	.060	.090	.125	.156	.187
					C4	A	49921-89-D	49978-89-D	50005-89-D			
					C11	A	49921-85-D	49978-85-D	50005-85-D			
					C10	A	49921-70-D	49978-70-D	50005-70-D			
		1-5/8	4	5	Uncoated	A	50228-00-D	50240-00-D	50254-00-D			
					C4	A	50228-89-D	50240-89-D	50254-89-D			
					C11	A	50228-85-D	50240-85-D	50254-85-D			
					C10	A	50228-70-D	50240-70-D	50254-70-D			
		2	4	5	Uncoated	A	49936-00-D	50203-00-D	50020-00-D			
					C4	A	49936-89-D	50203-89-D	50020-89-D			
					C11	A	49936-85-D	50203-85-D	50020-85-D			
					C10	A	49936-70-D	50203-70-D	50020-70-D			
		3-1/8	6	5	Uncoated	A	49951-00-D	49876-00-D	50035-00-D			
					C4	A	49951-89-D	49876-89-D	50035-89-D			
					C11	A	49951-85-D	49876-85-D	50035-85-D			
					C10	A	49951-70-D	49876-70-D	50035-70-D			
5/8	5/8	3/4	3	5	Uncoated	A	49912-00-D	49969-00-D	49996-00-D	50050-00-D		
					C4	A	49912-89-D	49969-89-D	49996-89-D	50050-89-D		
					C11	A	49912-85-D	49969-85-D	49996-85-D	50050-85-D		
					C10	A	49912-70-D	49969-70-D	49996-70-D	50050-70-D		
		1-5/8	3-1/2	5	Uncoated	A	49924-00-D	49981-00-D	50008-00-D	50059-00-D		
					C4	A	49924-89-D	49981-89-D	50008-89-D	50059-89-D		
					C11	A	49924-85-D	49981-85-D	50008-85-D	50059-85-D		
					C10	A	49924-70-D	49981-70-D	50008-70-D	50059-70-D		
		2-1/8	4	5	Uncoated	A	50231-00-D	50244-00-D	50257-00-D	50271-00-D		
					C4	A	50231-89-D	50244-89-D	50257-89-D	50271-89-D		
					C11	A	50231-85-D	50244-85-D	50257-85-D	50271-85-D		
					C10	A	50231-70-D	50244-70-D	50257-70-D	50271-70-D		
		2-1/2	5	5	Uncoated	A	49939-00-D	50206-00-D	50023-00-D	50071-00-D		
					C4	A	49939-89-D	50206-89-D	50023-89-D	50071-89-D		
					C11	A	49939-85-D	50206-85-D	50023-85-D	50071-85-D		
					C10	A	49939-70-D	50206-70-D	50023-70-D	50071-70-D		
		4	6	5	Uncoated	A	49954-00-D	49879-00-D	50038-00-D	50083-00-D		
					C4	A	49954-89-D	49879-89-D	50038-89-D	50083-89-D		
					C11	A	49954-85-D	49879-85-D	50038-85-D	50083-85-D		
					C10	A	49954-70-D	49879-70-D	50038-70-D	50083-70-D		
3/4	3/4	1	3	5	Uncoated	A	49915-00-D	49972-00-D	49999-00-D	50053-00-D	50095-00-D	50160-00-D
					C4	A	49915-89-D	49972-89-D	49999-89-D	50053-89-D	50095-89-D	50160-89-D
					C11	A	49915-85-D	49972-85-D	49999-85-D	50053-85-D	50095-85-D	50160-85-D
					C10	A	49915-70-D	49972-70-D	49999-70-D	50053-70-D	50095-70-D	50160-70-D
		1-5/8	4	5	Uncoated	A	49927-00-D	49984-00-D	50011-00-D	50062-00-D	50111-00-D	50168-00-D
					C4	A	49927-89-D	49984-89-D	50011-89-D	50062-89-D	50111-89-D	50168-89-D
					C11	A	49927-85-D	49984-85-D	50011-85-D	50062-85-D	50111-85-D	50168-85-D
					C10	A	49927-70-D	49984-70-D	50011-70-D	50062-70-D	50111-70-D	50168-70-D
		2-1/4	5	5	Uncoated	A	50234-00-D	50247-00-D	50262-00-D	50274-00-D	50280-00-D	50286-00-D
					C4	A	50234-89-D	50247-89-D	50262-89-D	50274-89-D	50280-89-D	50286-89-D
					C11	A	50234-85-D	50247-85-D	50262-85-D	50274-85-D	50280-85-D	50286-85-D



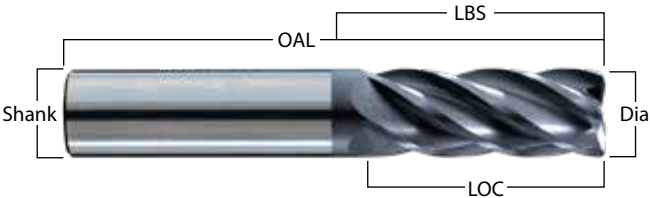
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Same Day Delivery
(most items)

MH-CR CONTINUED

Dia	Shank	LOC	OAL	Flute	Coating	Style	.030	.060	.090	.125	.156	.187
					C10	A	50234-70-D	50247-70-D	50262-70-D	50274-70-D	50280-70-D	50286-70-D
		3-1/4	6	5	Uncoated	A	49942-00-D	50209-00-D	50026-00-D	50074-00-D	50122-00-D	50182-00-D
					C4	A	49942-89-D	50209-89-D	50026-89-D	50074-89-D	50122-89-D	50182-89-D
					C11	A	49942-85-D	50209-85-D	50026-85-D	50074-85-D	50122-85-D	50182-85-D
					C10	A	49942-70-D	50209-70-D	50026-70-D	50074-70-D	50122-70-D	50182-70-D
		4	6	5	Uncoated	A	49957-00-D	49882-00-D	50041-00-D	50086-00-D	50136-00-D	50191-00-D
					C4	A	49957-89-D	49882-89-D	50041-89-D	50086-89-D	50136-89-D	50191-89-D
					C11	A	49957-85-D	49882-85-D	50041-85-D	50086-85-D	50136-85-D	50191-85-D
					C10	A	49957-70-D	49882-70-D	50041-70-D	50086-70-D	50136-70-D	50191-70-D
1	1	1-1/4	3	5	Uncoated	A	49918-00-D	49975-00-D	50002-00-D	50056-00-D	50098-00-D	50164-00-D
					C4	A	49918-89-D	49975-89-D	50002-89-D	50056-89-D	50098-89-D	50164-89-D
					C11	A	49918-85-D	49975-85-D	50002-85-D	50056-85-D	50098-85-D	50164-85-D
					C10	A	49918-70-D	49975-70-D	50002-70-D	50056-70-D	50098-70-D	50164-70-D
		2	4	5	Uncoated	A	49930-00-D	49987-00-D	50014-00-D	50065-00-D	50114-00-D	50173-00-D
					C4	A	49930-89-D	49987-89-D	50014-89-D	50065-89-D	50114-89-D	50173-89-D
					C11	A	49930-85-D	49987-85-D	50014-85-D	50065-85-D	50114-85-D	50173-85-D
					C10	A	49930-70-D	49987-70-D	50014-70-D	50065-70-D	50114-70-D	50173-70-D
		2-5/8	6	5	Uncoated	A	50237-00-D	50251-00-D	50265-00-D	50277-00-D	50283-00-D	50289-00-D
					C4	A	50237-89-D	50251-89-D	50265-89-D	50277-89-D	50283-89-D	50289-89-D
					C11	A	50237-85-D	50251-85-D	50265-85-D	50277-85-D	50283-85-D	50289-85-D
					C10	A	50237-70-D	50251-70-D	50265-70-D	50277-70-D	50283-70-D	50289-70-D
		3-1/4	6	5	Uncoated	A	49945-00-D	50214-00-D	50029-00-D	50077-00-D	50127-00-D	50185-00-D
					C4	A	49945-89-D	50214-89-D	50029-89-D	50077-89-D	50127-89-D	50185-89-D
					C11	A	49945-85-D	50214-85-D	50029-85-D	50077-85-D	50127-85-D	50185-85-D
					C10	A	49945-70-D	50214-70-D	50029-70-D	50077-70-D	50127-70-D	50185-70-D
		4-1/8	7	5	Uncoated	A	49960-00-D	49885-00-D	50044-00-D	50089-00-D	50141-00-D	50194-00-D
					C4	A	49960-89-D	49885-89-D	50044-89-D	50089-89-D	50141-89-D	50194-89-D
					C11	A	49960-85-D	49885-85-D	50044-85-D	50089-85-D	50141-85-D	50194-85-D
					C10	A	49960-70-D	49885-70-D	50044-70-D	50089-70-D	50141-70-D	50194-70-D
1-1/4	1-1/4	2	4-1/2	7	Uncoated	A	49933-00-D	49990-00-D	50017-00-D	50068-00-D	50118-00-D	50179-00-D
					C4	A	49933-89-D	49990-89-D	50017-89-D	50068-89-D	50118-89-D	50179-89-D
					C11	A	49933-85-D	49990-85-D	50017-85-D	50068-85-D	50118-85-D	50179-85-D
					C10	A	49933-70-D	49990-70-D	50017-70-D	50068-70-D	50118-70-D	50179-70-D
		3-1/4	6	7	Uncoated	A	49948-00-D	50217-00-D	50032-00-D	50080-00-D	50132-00-D	50188-00-D
					C4	A	49948-89-D	50217-89-D	50032-89-D	50080-89-D	50132-89-D	50188-89-D
					C11	A	49948-85-D	50217-85-D	50032-85-D	50080-85-D	50132-85-D	50188-85-D
					C10	A	49948-70-D	50217-70-D	50032-70-D	50080-70-D	50132-70-D	50188-70-D
		5	7-1/2	7	Uncoated	A	49963-00-D	49888-00-D	50047-00-D	50092-00-D	50145-00-D	50197-00-D
					C4	A	49963-89-D	49888-89-D	50047-89-D	50092-89-D	50145-89-D	50197-89-D
					C11	A	49963-85-D	49888-85-D	50047-85-D	50092-85-D	50145-85-D	50197-85-D
					C10	A	49963-70-D	49888-70-D	50047-70-D	50092-70-D	50145-70-D	50197-70-D



 DATA FLUTE SSI-5

Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
1/8	1/8	1/4		2	A	C11	53646-85-D	53647-85-D		53648-85-D			
						C10	53646-70-D	53647-70-D		53648-70-D			
		1/2		2-1/2	A	C11	53652-85-D	53653-85-D		53654-85-D			
						C10	53652-70-D	53653-70-D		53654-70-D			
		1/4	3/8	2-1/2	B	C11		54134-85-D		54136-85-D			
		1/4	1/2	2-1/2	B	C11		54137-85-D		54138-85-D			
		1/4	5/8	2-1/2	B	C11		54139-85-D		54141-85-D			
5/32	3/16	3/16		2	C	C11	53658-85-D	53659-85-D					
						C10	53658-70-D	53659-70-D					
		5/16		2	C	C11	53662-85-D	53663-85-D					
						C10	53662-70-D	53663-70-D					
		9/16		2-1/2	C	C11	53666-85-D	53667-85-D					
						C10	53666-70-D	53667-70-D					
3/16	3/16	3/16		2	A	C11	53670-85-D	53671-85-D		53672-85-D			
						C10	53670-70-D	53671-70-D		53672-70-D			
		5/16		2	A	C11	53676-85-D	53677-85-D		53678-85-D			
						C10	53676-70-D	53677-70-D		53678-70-D			
		9/16		2-1/2	A	C11	53682-85-D	53683-85-D		53684-85-D			
						C10	53682-70-D	53683-70-D		53684-70-D			
		5/16	1/2	3	B	C11		54142-85-D		54144-85-D			
		5/16	3/4	3	B	C11		54145-85-D		54146-85-D			
		5/16	1	3	B	C11		54147-85-D		54148-85-D			
7/32	1/4	3/8		2	C	C11	53688-85-D		53689-85-D				
						C10	53688-70-D		53689-70-D				
		1/2		2-1/2	C	C11	53692-85-D		53693-85-D				
						C10	53692-70-D		53693-70-D				
		3/4		2-1/2	C	C11	53696-85-D		53697-85-D				
						C10	53696-70-D		53697-70-D				
1/4	1/4	3/8		2	A	C11	53700-85-D		53704-85-D	53706-85-D			
						C10	53700-70-D		53704-70-D	53706-70-D			
		1/2		2-1/2	A	C11	53713-85-D		53714-85-D	53715-85-D			
						C10	53713-70-D		53714-70-D	53715-70-D			
		3/4		2-1/2	A	C11	53721-85-D		53722-85-D	53724-85-D			
						C10	53721-70-D		53722-70-D	53724-70-D			
		1-1/4		3	A	C11	53729-85-D		53730-85-D	53732-85-D			
						C10	53729-70-D		53730-70-D	53732-70-D			
		3/8	3/4	3	B	C11			54149-85-D	54150-85-D	54151-85-D		
		3/8	1-1/8	4	B	C11			54152-85-D	54154-85-D	54156-85-D		
		3/8	2-1/8	4	B	C11			54157-85-D	54158-85-D	54159-85-D		
9/32	5/16	7/16		2-1/2	C	C11	53737-85-D		53738-85-D				
						C10	53737-70-D		53738-70-D				
		3/4		2-1/2	C	C11	53742-85-D		53744-85-D				
						C10	53742-70-D		53744-70-D				
5/16	5/16	7/16		2-1/2	A	C11	53747-85-D		53748-85-D	53749-85-D			
						C10	53747-70-D		53748-70-D	53749-70-D			
		5/8		2-1/2	A	C11	53754-85-D		53756-85-D	53757-85-D			



SSI-5 CONTINUED

Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
						C10	53754-70-D		53756-70-D	53757-70-D			
		13/16		2-1/2	A	C11	53761-85-D		54252-85-D	54253-85-D			
						C10	53761-70-D		54252-70-D	54253-70-D			
		1-1/4		3	A	C11	53763-85-D		53764-85-D	53765-85-D			
						C10	53763-70-D		53764-70-D	53765-70-D			
11/32	3/8	1/2		2-1/2	C	C11	53769-85-D		53770-85-D				
						C10	53769-70-D		53770-70-D				
		1		2-1/2	C	C11	53773-85-D		53774-85-D				
						C10	53773-70-D		53774-70-D				
				3	C	C11	53777-85-D		53778-85-D				
						C10	53777-70-D		53778-70-D				
3/8	3/8	1/2		2-1/2	A	C11	53781-85-D		53782-85-D	53783-85-D	53784-85-D		
						C10	53781-70-D		53782-70-D	53783-70-D	53784-70-D		
		3/4		2-1/2	A	C11	53789-85-D		53790-85-D	53791-85-D	53792-85-D		
						C10	53789-70-D		53790-70-D	53791-70-D	53792-70-D		
		1		2-1/2	A	C11	53797-85-D		53798-85-D	53799-85-D	53800-85-D		
						C10	53797-70-D		53798-70-D	53799-70-D	53800-70-D		
		1-1/4		3	A	C11	53805-85-D		53806-85-D	53807-85-D	53808-85-D		
						C10	53805-70-D		53806-70-D	53807-70-D	53808-70-D		
		1-1/2		4	A	C11	53813-85-D		53814-85-D	53815-85-D	53816-85-D		
						C10	53813-70-D		53814-70-D	53815-70-D	53816-70-D		
		2		4	A	C11	53821-85-D		53822-85-D	53823-85-D	53824-85-D		
						C10	53821-70-D		53822-70-D	53823-70-D	53824-70-D		
		1/2	1-1/8	4	B	C11			54160-85-D	54161-85-D	54162-85-D	54163-85-D	
		1/2	2-1/8	4	B	C11			54164-85-D	54165-85-D	54166-85-D	54167-85-D	
		1/2	3-1/8	6	B	C11			54168-85-D	54169-85-D	54170-85-D	54171-85-D	
		1/2	4-1/8	6	B	C11			54172-85-D	54173-85-D	54174-85-D	54175-85-D	
13/32	7/16	9/16		2-1/2	C	C11	53829-85-D			53830-85-D			
						C10	53829-70-D			53830-70-D			
		1		2-3/4	C	C11	53833-85-D			53834-85-D			
						C10	53833-70-D			53834-70-D			
7/16	7/16	9/16		2-1/2	A	C11	53837-85-D			53838-85-D	53839-85-D	53840-85-D	
						C10	53837-70-D			53838-70-D	53839-70-D	53840-70-D	
		1		3	A	C11	53845-85-D			53846-85-D	53847-85-D	53848-85-D	
						C10	53845-70-D			53846-70-D	53847-70-D	53848-70-D	
		1-1/4		3-1/2	A	C11	53853-85-D			53854-85-D	53855-85-D	53856-85-D	
						C10	53853-70-D			53854-70-D	53855-70-D	53856-70-D	
15/32	1/2	5/8		3	C	C11	53861-85-D			53862-85-D			
						C10	53861-70-D			53862-70-D			
		1		3	C	C11	53865-85-D			53866-85-D			
						C10	53865-70-D			53866-70-D			
		1-1/4		3-1/2	C	C11	53869-85-D			53870-85-D			
						C10	53869-70-D			53870-70-D			
1/2	1/2	5/8		3	A	C11	53873-85-D			53874-85-D	53875-85-D	53876-85-D	53877-85-D
						C10	53873-70-D			53874-70-D	53875-70-D	53876-70-D	53877-70-D
		1		3	A	C11	53883-85-D			53884-85-D	53885-85-D	53886-85-D	53887-85-D
						C10	53883-70-D			53884-70-D	53885-70-D	53886-70-D	53887-70-D
		1-1/4		3	A	C11	53893-85-D			53894-85-D	53895-85-D	53896-85-D	53897-85-D
						C10	53893-70-D			53894-70-D	53895-70-D	53896-70-D	53897-70-D
		1-3/4		4	A	C11	53907-85-D			53909-85-D	53911-85-D	53913-85-D	53914-85-D
						C10	53907-70-D			53909-70-D	53911-70-D	53913-70-D	53914-70-D
		2		4	A	C11	53922-85-D			53924-85-D	53925-85-D	53926-85-D	53928-85-D
						C10	53922-70-D			53924-70-D	53925-70-D	53926-70-D	53928-70-D
		3		5	A	C11	53936-85-D			53937-85-D	53938-85-D	53939-85-D	53941-85-D

Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.010	.020	.030	.060	.090	.120
						C10	53936-70-D			53937-70-D	53938-70-D	53939-70-D	53941-70-D
		5/8	1-1/2	4	B	C11				54176-85-D	54177-85-D	54178-85-D	54179-85-D
		5/8	2-1/4	4	B	C11				54180-85-D	54181-85-D	54182-85-D	54183-85-D
		5/8	3-3/8	6	B	C11				54184-85-D	54185-85-D	54186-85-D	54187-85-D
		5/8	4-1/8	6	B	C11				54188-85-D	54189-85-D	54190-85-D	54191-85-D
5/8	5/8	3/4		3	A	C11	53948-85-D			53949-85-D	53950-85-D	53951-85-D	53952-85-D
						C10	53948-70-D			53949-70-D	53950-70-D	53951-70-D	53952-70-D
		1-1/4		3-1/2	A	C11	53960-85-D			53961-85-D	53962-85-D	53963-85-D	53964-85-D
						C10	53960-70-D			53961-70-D	53962-70-D	53963-70-D	53964-70-D
		1-5/8		3-1/2	A	C11	53970-85-D			53971-85-D	53972-85-D	53973-85-D	53974-85-D
						C10	53970-70-D			53971-70-D	53972-70-D	53973-70-D	53974-70-D
		2		4	A	C11	53985-85-D			53981-85-D	53982-85-D	53983-85-D	53984-85-D
						C10	53985-70-D			53981-70-D	53982-70-D	53983-70-D	53984-70-D
		2-1/2		5	A	C11	53990-85-D			53991-85-D	53992-85-D	53993-85-D	53994-85-D
						C10	53990-70-D			53991-70-D	53992-70-D	53993-70-D	53994-70-D
		3		6	A	C11	54001-85-D			54001-85-D	54002-85-D	54003-85-D	54004-85-D
						C10	54001-70-D			54001-70-D	54002-70-D	54003-70-D	54004-70-D
		3/4	1-5/8	4	B	C11				54192-85-D	54193-85-D	54194-85-D	54195-85-D
		3/4	2-3/8	6	B	C11				54196-85-D	54197-85-D	54198-85-D	54199-85-D
		3/4	3-3/8	6	B	C11				54200-85-D	54201-85-D	54202-85-D	54203-85-D
		3/4	4-1/8	6	B	C11				54204-85-D	54205-85-D	54206-85-D	54207-85-D
Dia	Shank	LOC	LBS	OAL	Style	Coating	Square	.030	.060	.090	.120	.156	.190
3/4	3/4	1		3	A	C11	54010-85-D	54011-85-D	54012-85-D	54013-85-D	54014-85-D	54015-85-D	54016-85-D
						C10	54010-70-D	54011-70-D	54012-70-D	54013-70-D	54014-70-D	54015-70-D	54016-70-D
		1-5/8		4	A	C11	54024-85-D	54025-85-D	54026-85-D	54027-85-D	54028-85-D	54029-85-D	54030-85-D
						C10	54024-70-D	54025-70-D	54026-70-D	54027-70-D	54028-70-D	54029-70-D	54030-70-D
		2-1/4		5	A	C11	54038-85-D	54039-85-D	54040-85-D	54041-85-D	54042-85-D	54043-85-D	54044-85-D
						C10	54038-70-D	54039-70-D	54040-70-D	54041-70-D	54042-70-D	54043-70-D	54044-70-D
		3		6	A	C11	54052-85-D	54053-85-D	54054-85-D	54055-85-D	54056-85-D	54057-85-D	54058-85-D
						C10	54052-70-D	54053-70-D	54054-70-D	54055-70-D	54056-70-D	54057-70-D	54058-70-D
		4		7	A	C11	54066-85-D	54067-85-D	54068-85-D	54069-85-D	54070-85-D	54071-85-D	54072-85-D
						C10	54066-70-D	54067-70-D	54068-70-D	54069-70-D	54070-70-D	54071-70-D	54072-70-D
		1	2	4	B	C11		54208-85-D	54209-85-D	54210-85-D	54211-85-D		
		1	2-1/2	6	B	C11		54212-85-D	54213-85-D	54214-85-D	54215-85-D		
		1	3-3/8	6	B	C11		54216-85-D	54217-85-D	54218-85-D	54219-85-D		
		1	4-1/8	6	B	C11		54220-85-D	54221-85-D	54222-85-D	54223-85-D		
1	1	1-1/4		4	A	C11	54080-85-D	54081-85-D	54082-85-D	54083-85-D	54084-85-D	54085-85-D	54086-85-D
						C10	54080-70-D	54081-70-D	54082-70-D	54083-70-D	54084-70-D	54085-70-D	54086-70-D
		2		5	A	C11	54094-85-D	54095-85-D	54096-85-D	54097-85-D	54098-85-D	54099-85-D	54100-85-D
						C10	54094-70-D	54095-70-D	54096-70-D	54097-70-D	54098-70-D	54099-70-D	54100-70-D
		2-5/8		6	A	C11	54115-85-D	54117-85-D	54119-85-D	54120-85-D	54121-85-D	54122-85-D	54124-85-D
						C10	54115-70-D	54117-70-D	54119-70-D	54120-70-D	54121-70-D	54122-70-D	54124-70-D
		3-1/4		6	A	C11	40106-85-D	45001-85-D					
						C10	40106-70-D	45001-70-D					
		4-1/8		7	A	C11	40107-85-D	45002-85-D					
						C10	40107-70-D	45002-70-D					
		1-1/4	2-1/4	4	B	C11		54224-85-D	54225-85-D	54226-85-D	54227-85-D		
		1-1/4	2-5/8	6	B	C11		54228-85-D	54229-85-D	54230-85-D	54231-85-D		
		1-1/4	3-3/8	6	B	C11		54232-85-D	54233-85-D	54234-85-D	54235-85-D		
		1-1/4	4-1/8	6	B	C11		54236-85-D	54237-85-D	54238-85-D	54239-85-D		



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558 SERIES

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Radius
1/4	1/4	1/2	2	558041	.015 .030 .060
1/4	1/4	3/4	2-1/2	558042	.015 .030 .060
1/4	1/4	1-1/4	3	558043	.015 .030 .060
1/4	1/4	1-1/2	4	558044	.015 .030 .060
1/4	1/4	2	4	558045	.015 .030 .060
5/16	5/16	7/16	2	558051	.015 .030 .060
5/16	5/16	7/8	2-1/2	558052	.015 .030 .060
5/16	5/16	1-1/4	3	558053	.015 .030 .060
5/16	5/16	1-5/8	4	558054	.015 .030 .060
5/16	5/16	2-1/8	4	558055	.015 .030 .060
3/8	3/8	1/2	2	558061	.015 .030 .060 .090 .125
3/8	3/8	1	2-1/2	558062	.015 .030 .060 .090 .125
3/8	3/8	1-1/4	3	558063	.015 .030 .060 .090 .125
3/8	3/8	1-1/2	4	558064	.015 .030 .060 .090 .125
3/8	3/8	2	4	558065	.015 .030 .060 .090 .125
3/8	3/8	2-1/2	6	558066	.015 .030 .060 .090 .125
1/2	1/2	5/8	2-1/2	558081	.015 .030 .060 .090 .125
1/2	1/2	1-1/4	3	558082	.015 .030 .060 .090 .125
1/2	1/2	1-5/8	4	558083	.015 .030 .060 .090 .125
1/2	1/2	2	4	558084	.015 .030 .060 .090 .125
1/2	1/2	2-1/2	5	558085	.015 .030 .060 .090 .125
1/2	1/2	3-1/8	6	558086	.015 .030 .060 .090 .125
5/8	5/8	3/4	3	558101	.015 .030 .060 .090 .125
5/8	5/8	1-5/8	3-1/2	558102	.015 .030 .060 .090 .125
5/8	5/8	2-1/8	4	558103	.015 .030 .060 .090 .125
5/8	5/8	2-1/2	5	558104	.015 .030 .060 .090 .125
5/8	5/8	3	6	558105	.015 .030 .060 .090 .125
3/4	3/4	1	3	558121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-5/8	4	558122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	2-1/4	5	558123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	3-1/4	6	558124	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	4-1/8	7	558125	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	558161	.015 .030 .060 .090 .125 .188 .250
1	1	2-1/4	5	558162	.015 .030 .060 .090 .125 .188 .250
1	1	2-5/8	6	558163	.015 .030 .060 .090 .125 .188 .250
1	1	3-1/4	6	558164	.015 .030 .060 .090 .125 .188 .250
1	1	4-1/8	7	558165	.015 .030 .060 .090 .125 .188 .250



558 SERIES • EXT. NECK

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Radius
1/4	1/4	1/2	1-1/4	3	N558040	.015 .030 .060
1/4	1/4	1/2	2-1/8	4	N558041	.015 .030 .060
1/4	1/4	1/2	3-1/8	5	N558042	.015 .030 .060
1/4	1/4	1/2	4-1/8	6	N558043	.015 .030 .060
5/16	5/16	9/16	2-1/8	4	N558051	.015 .030 .060
5/16	5/16	9/16	4-1/8	6	N558052	.015 .030 .060
3/8	3/8	3/4	1-1/4	3	N558060	.015 .030 .060 .090 .125
3/8	3/8	3/4	2-1/8	4	N558061	.015 .030 .060 .090 .125
3/8	3/8	3/4	3-1/8	5	N558062	.015 .030 .060 .090 .125
3/8	3/8	3/4	4-1/8	6	N558063	.015 .030 .060 .090 .125
1/2	1/2	7/8	1-3/8	3	N558080	.015 .030 .060 .090 .125
1/2	1/2	7/8	2-1/8	4	N558081	.015 .030 .060 .090 .125
1/2	1/2	7/8	3-1/8	5	N558082	.015 .030 .060 .090 .125
1/2	1/2	7/8	4-1/8	6	N558083	.015 .030 .060 .090 .125
1/2	1/2	7/8	5-1/8	7	N558084	.015 .030 .060 .090 .125
1/2	1/2	7/8	6-1/8	8	N558085	.015 .030 .060 .090 .125
5/8	5/8	1	2	4	N558100	.015 .030 .060 .090 .125
5/8	5/8	1	3	5	N558101	.015 .030 .060 .090 .125
5/8	5/8	1	4	6	N558102	.015 .030 .060 .090 .125
5/8	5/8	1	6	8	N558103	.015 .030 .060 .090 .125
3/4	3/4	1	2	4	N558120	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	3	5	N558121	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	4	6	N558122	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	5	7	N558123	.015 .030 .060 .090 .125 .188 .250
3/4	3/4	1-1/4	6	8	N558124	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/4	2	4	N558160	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	3	5	N558161	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	4	6	N558162	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	5	7	N558163	.015 .030 .060 .090 .125 .188 .250
1	1	1-1/2	6	8	N558164	.015 .030 .060 .090 .125 .188 .250



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MTi5

DIA	SHK	LOC	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.156	.190	Ball
1/8	1/8	1/4	1-1/2	300500	300520	300540		300560						300570
1/8	1/8	1/2	2	300580	300600	300620		300640						300650
1/8	1/8	3/4	2-1/2	300660	300680	300700		300720						300730
3/16	3/16	5/16	2	300740	300760	300780		300800						300810
3/16	3/16	9/16	2-1/2	300820	300840	300860		300880						300890
3/16	3/16	3/4	2-1/2	300900	300920	300940		300960						300970
1/4	1/4	3/8	2	300980		301000	301020	301040	301060	301080				301090
1/4	1/4	1/2	2-1/2	301100		301120	301140	301160	301180	301200				301210
1/4	1/4	3/4	2-1/2	301220		301240	301260	301280	301300	301320				301330
1/4	1/4	1-1/4	3	301340		301360	301380	301400	301420	301440				301450
5/16	5/16	7/16	2	301460		301480		301500	301520	301540				301550
5/16	5/16	13/16	2-1/2	301560		301580		301600	301620	301640				301650
5/16	5/16	1	3	301660		301680		301700	301720	301740				301750
3/8	3/8	1/2	2	301760		301780	301800	301820	301840	301860	301880			301890
3/8	3/8	1	2-1/2	301900		301920	301940	301960	301980	302000	302020			302030
3/8	3/8	1-1/4	3	302040		302060	302080	302100	302120	302140	302160			302170
3/8	3/8	1-3/4	4	302180		302200	302220	302240	302260	302280	302300			302310
1/2	1/2	5/8	2-1/2	302320		302340		302360	302380	302400	302420	302440	302460	302470
1/2	1/2	1	3	302480		302500		302520	302540	302560	302580	302600	302620	302630
1/2	1/2	1-1/4	3	302640		302660		302680	302700	302720	302740	302760	302780	302790
1/2	1/2	1-5/8	4	302800		302820		302840	302860	302880	302900	302920	302940	302950
1/2	1/2	2	4	302960		302980		303000	303020	303040	303060	303080	303100	303110
DIA	SHK	LOC	OAL	SQ	.015	.030	.060	.090	.120	.156	.190	.250	.375	Ball
5/8	5/8	3/4	3	303120	303140	303160	303180	303200	303220	303240	303260			303270
5/8	5/8	1-1/4	3-1/2	303280	303300	303320	303340	303360	303380	303400	303420			303430
5/8	5/8	1-5/8	3-1/2	303440	303460	303480	303500	303520	303540	303560	303580			303590
5/8	5/8	2-1/8	4	303600	303620	303640	303660	303680	303700	303720	303740			303750
5/8	5/8	2-1/2	5	303760	303780	303800	303820	303840	303860	303880	303900			303910
3/4	3/4	1	3	303920	303940	303960	303980	304000	304020	304040	304060	304080		304090
3/4	3/4	1-5/8	4	304100	304120	304140	304160	304180	304200	304220	304240	304260		304270
3/4	3/4	2-1/4	5	304280	304300	304320	304340	304360	304380	304400	304420	304440		304450
3/4	3/4	2-3/4	5	304460	304480	304500	304520	304540	304560	304580	304600	304620		304630
3/4	3/4	3-1/4	6	304640	304660	304680	304700	304720	304740	304760	304780	304800		304810
1	1	1-1/4	4	304820	304840	304860	304880	304900	304920	304940	304960	304980	305000	305010
1	1	2	4-1/2	305020	305040	305060	305080	305100	305120	305140	305160	305180	305200	305210
1	1	2-5/8	5	305220	305240	305260	305280	305300	305320	305340	305360	305380	305400	305410
1	1	3-1/4	6	305420	305440	305460	305480	305500	305520	305540	305560	305580	305600	305610
1	1	4-1/4	7	305620	305640	305660	305680	305700	305720	305740	305760	305780	305800	305810
1-1/4	1-1/4	2	4-1/2	305820	305840	305860	305880	305900	305920	305940	305960	305980	306000	306010
1-1/4	1-1/4	3-1/4	6	306020	306040	306060	306080	306100	306120	306140	306160	306180	306200	306210

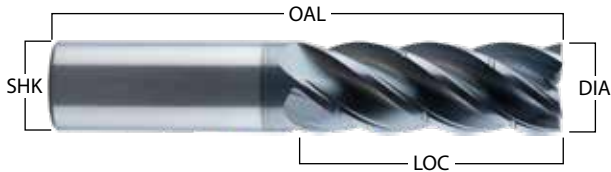


MTi5-RN • REDUCED NECK

DIA	SHK	LOC	LBS	OAL	SQ	.010	.015	.020	.030	.060	.090	.120	.156	.190	Ball
1/8	1/8	3/16	3/8	2	310500	310520	310540		310560						310570
1/8	1/8	3/16	1/2	2	310580	310600	310620		310640						310650
1/8	1/8	3/16	3/4	2-1/2	310660	310680	310700		310720						310730
3/16	3/16	1/4	1/2	2	310740	310760	310780		310800						310810
3/16	3/16	1/4	3/4	2-1/2	310820	310840	310860		310880						310890
3/16	3/16	1/4	1-1/8	2-1/2	310900	310920	310940		310960						310970
1/4	1/4	3/8	3/4	4	310980		311000	311020	311040	311060	311080				311090
1/4	1/4	3/8	1-1/8	4	311100		311120	311140	311160	311180	311200				311210
1/4	1/4	3/8	2-1/8	4	311220		311240	311260	311280	311300	311320				311330
1/4	1/4	3/8		4	311340		311360	311380	311400	311420	311440				311450
5/16	5/16	7/16	1-1/8	4	311460		311480		311500	311520	311540				311550
5/16	5/16	7/16	2-1/8	4	311560		311580		311600	311620	311640				311650
5/16	5/16	7/16		4	311660		311680		311700	311720	311740				311750
3/8	3/8	1/2	1-1/8	4	311760		311780	311800	311820	311840	311860	311880			311890
3/8	3/8	1/2	2-1/8	4	311900		311920	311940	311960	311980	312000	312020			312030
3/8	3/8	1/2	3-1/8	6	312040		312060	312080	312100	312120	312140	312160			312170
3/8	3/8	1/2	4-1/8	6	312180		312200	312220	312240	312260	312280	312300			312310
3/8	3/8	1/2		6	312320		312340	312360	312380	312400	312420	312440			312450
1/2	1/2	5/8	1-1/2	4	312460		312480		312500	312520	312540	312560	312580	312600	312610
1/2	1/2	5/8	2-1/4	4	312620		312640		312660	312680	312700	312720	312740	312760	312770
1/2	1/2	5/8	3-3/8	6	312780		312800		312820	312840	312860	312880	312900	312920	312930
1/2	1/2	5/8	4-1/8	6	312940		312960		312980	313000	313020	313040	313060	313080	313090
1/2	1/2	5/8		6	313100		313120		313140	313160	313180	313200	313220	313240	313250
1/2	1/2	5/8		8	313260		313280		313300	313320	313340	313360	313380	313400	313410
DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.090	.120	.156	.190	.250	.375	Ball
5/8	5/8	3/4	1-5/8	4	313420	313440	313460	313480	313500	313520	313540	313560			313570
5/8	5/8	3/4	2-3/8	6	313580	313600	313620	313640	313660	313680	313700	313720			313730
5/8	5/8	3/4	3-3/8	6	313740	313760	313780	313800	313820	313840	313860	313880			313890
5/8	5/8	3/4	4-1/8	6	313900	313920	313940	313960	313980	314000	314020	314040			314050
5/8	5/8	3/4		6	314060	314080	314100	314120	314140	314160	314180	314200			314210
3/4	3/4	1	2	4	314220	314240	314260	314280	314300	314320	314340	314360	314380		314390
3/4	3/4	1	2-1/2	6	314400	314420	314440	314460	314480	314500	314520	314540	314560		314570
3/4	3/4	1	3-3/8	6	314580	314600	314620	314640	314660	314680	314700	314720	314740		314750
3/4	3/4	1	4-1/8	6	314760	314780	314800	314820	314840	314860	314880	314900	314920		314930
3/4	3/4	1		6	314940	314960	314980	315000	315020	315040	315060	315080	315100		315110
3/4	3/4	1	4-7/8	7	315120	315140	315160	315180	315200	315220	315240	315260	315280		315290
3/4	3/4	1		7	315300	315320	315340	315360	315380	315400	315420	315440	315460		315470
3/4	3/4	1		9	315480	315500	315520	315540	315560	315580	315600	315620	315640		315650
1	1	1-1/4	2-1/4	4	315660	315680	315700	315720	315740	315760	315780	315800	315820	315840	315850
1	1	1-1/4	2-5/8	6	315860	315880	315900	315920	315940	315960	315980	316000	316020	316040	316050
1	1	1-1/4	3-3/8	6	316060	316080	316100	316120	316140	316160	316180	316200	316220	316240	316250
1	1	1-1/4	4-1/8	6	316260	316280	316300	316320	316340	316360	316380	316400	316420	316440	316450
1	1	1-1/4		6	316460	316480	316500	316520	316540	316560	316580	316600	316620	316640	316650
1	1	1-1/4	4-5/8	7	316660	316680	316700	316720	316740	316760	316780	316800	316820	316840	316850
1	1	1-1/4		7	316860	316880	316900	316920	316940	316960	316980	317000	317020	317040	317050
1	1	1-1/4		12-1/2	317060	317080	317100	317120	317140	317160	317180	317200	317220	317240	317250

MTi5-RN • REDUCED NECK CONTINUED

DIA	SHK	LOC	LBS	OAL	SQ	.015	.030	.060	.090	.120	.156	.190	.250	.375	Ball
1-1/4	1-1/4	1-1/2	3-3/8	6	317260	317280	317300	317320	317340	317360	317380	317400	317420	317440	317450
1-1/4	1-1/4	1-1/2		6	317460	317480	317500	317520	317540	317560	317580	317600	317620	317640	317650
1-1/4	1-1/4	1-1/2	5-3/8	8	317660	317680	317700	317720	317740	317760	317780	317800	317820	317840	317850
1-1/4	1-1/4	1-1/2		8	317860	317880	317900	317920	317940	317960	317980	318000	318020	318040	318050
1-1/4	1-1/4	1-1/2		12-1/2	318060	318080	318100	318120	318140	318160	318180	318200	318220	318240	318250

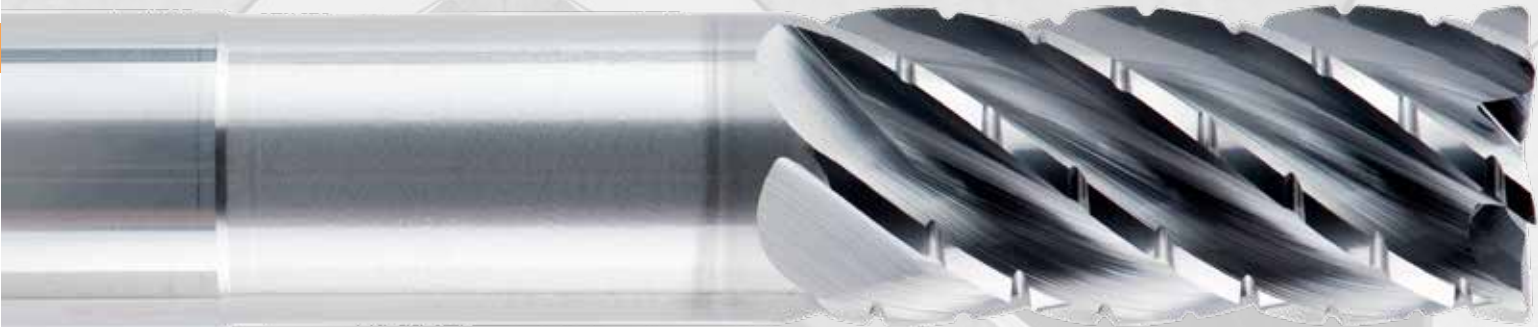


MTi5C • CHIPBREAKER

DIA	SHK	LOC	OAL	SQ	.015	.030	.060	.090	.120
1/4	1/4	1-1/4	3	301340C	301360C	301400C			
3/8	3/8	1-1/4	3	302040C	302060C	302100C	302120C		
1/2	1/2	1-1/4	3	302640C	302660C	302680C	302700C		
1/2	1/2	2-1/8	4	302960C	302980C	303000C	303020C		
5/8	5/8	1-1/4	3-1/2	303280C	303300C	303320C	303340C		
5/8	5/8	1-5/8	3-1/2	303440C	303460C	303480C	303500C		
5/8	5/8	2-1/8	4	303600C	303620C	303640C	303660C		
3/4	3/4	1-5/8	4	304100C	304120C	304140C	304160C	304180C	304200C
3/4	3/4	2-1/4	5	304280C	304300C	304320C	304340C	304360C	304380C
3/4	3/4	3-1/4	6	304640C	304660C	304680C	304700C	304720C	304740C
1	1	1-1/2	4	304820C	304840C	304860C	304880C	304900C	304920C
1	1	2-5/8	5	305220C	305240C	305260C	305280C	305300C	305320C
1	1	3-1/4	6	305420C	305440C	305460C	305480C	305500C	305520C



6 FLUTE
ROUGHING & FINISHING
CHIPBREAKER



- ▶ TITANIUM FOCUSED GEOMETRY AND EDGE PREP
- ▶ ECCENTRIC RELIEF
- ▶ EXTENDED NECK GEOMETRY AVAILABLE

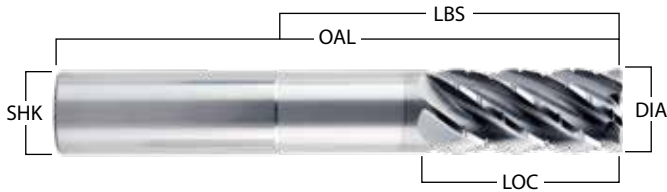


6 FLUTE CARBIDE



VXMG6T

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	PART NAME	nACRo EDP
3/8	3/8	1		3	SQ	VXMG6T-1212-NR	H7191
3/8	3/8	1		3	0.015	VXMG6T-1212-R015	H7192
3/8	3/8	1		3	0.030	VXMG6T-1212-R030	H7196
3/8	3/8	1		3	0.060	VXMG6T-1212-R060	H7193
3/8	3/8	1	1-7/8	4	0.015	VXMG6T-1212-R015N1	H7194
3/8	3/8	1	1-7/8	4	0.030	VXMG6T-1212-R030N1	H7195
1/2	1/2	1-1/4		3	SQ	VXMG6T-1616-NR	H7201
1/2	1/2	1-1/4		3	0.015	VXMG6T-1616-R015	H7197
1/2	1/2	1-1/4		3	0.030	VXMG6T-1616-R030	H7198
1/2	1/2	1-1/4		3	0.060	VXMG6T-1616-R060	H7199
1/2	1/2	1-1/4		3	0.120	VXMG6T-1616-R120	H7200
1/2	1/2	1-1/4	2-1/4	4	SQ	VXMG6T-1616-NRN1	H7861
1/2	1/2	1-1/4	2-1/4	4	0.030	VXMG6T-1616-R030N1	H7202
1/2	1/2	1-1/4	2-1/4	4	0.060	VXMG6T-1616-R060N1	H7203
1/2	1/2	1-1/4	2-1/4	4	0.120	VXMG6T-1616-R120N1	H7862
1/2	1/2	1-1/4	3	5	SQ	VXMG6T-1616-NRN2	H7863
1/2	1/2	1-1/4	3	5	0.030	VXMG6T-1616-R030N2	H7864
1/2	1/2	1-1/4	3	5	0.060	VXMG6T-1616-R060N2	H7865
1/2	1/2	1-1/4	3	5	0.120	VXMG6T-1616-R120N2	H7866
5/8	5/8	1-1/4		3-1/2	SQ	VXMG6T-2020-NR	H7206
5/8	5/8	1-1/4		3-1/2	0.030	VXMG6T-2020-R030	H7204
5/8	5/8	1-1/4		3-1/2	0.060	VXMG6T-2020-R060	H7205
5/8	5/8	1-1/4	2-1/4	4	0.030	VXMG6T-2020-R030N1	H7207
5/8	5/8	1-1/4	2-1/4	4	0.060	VXMG6T-2020-R060N1	H7208
3/4	3/4	1-5/8		4	SQ	VXMG6T-2424-NR	H7209
3/4	3/4	1-5/8		4	0.030	VXMG6T-2424-R030	H7210
3/4	3/4	1-5/8		4	0.060	VXMG6T-2424-R060	H7215
3/4	3/4	1-5/8		4	0.090	VXMG6T-2424-R090	H7211
3/4	3/4	1-5/8		4	0.120	VXMG6T-2424-R120	H7212
3/4	3/4	1-5/8	3	5	SQ	VXMG6T-2424-NRN1	H7825
3/4	3/4	1-5/8	3	5	0.030	VXMG6T-2424-R030N1	H7213
3/4	3/4	1-5/8	3	5	0.060	VXMG6T-2424-R060N1	H7214
3/4	3/4	1-5/8	3	5	0.120	VXMG6T-2424-R120N1	H7826
1	1	1-3/4		4-1/2	SQ	VXMG6T-3232-NR	H7220
1	1	1-3/4		4-1/2	0.030	VXMG6T-3232-R030	H7216
1	1	1-3/4		4-1/2	0.060	VXMG6T-3232-R060	H7217
1	1	1-3/4		4-1/2	0.120	VXMG6T-3232-R120	H7218
1	1	1-3/4	3-1/4	5-1/2	SQ	VXMG6T-3232-N1	H7867
1	1	1-3/4	3-1/4	5-1/2	0.030	VXMG6T-3232-R030N1	H7221
1	1	1-3/4	3-1/4	5-1/2	0.060	VXMG6T-3232-R060N1	H7222
1	1	1-3/4	3-1/4	5-1/2	0.120	VXMG6T-3232-R120N1	H7868
1-1/4	1-1/4	2-1/4		5	SQ	VXMG6T-4040-NR	H7225
1-1/4	1-1/4	2-1/4		5	0.030	VXMG6T-4040-R030	H7223



VXMG6TCB · CHIPBREAKER

DIA D ₁	SHK D ₂	LOC L ₂	LBS L ₃	OAL L ₁	CORNER	PART NAME	nACRo EDP
3/8	3/8	1		3	0.015	VXMG6TCB-1212-R015	H7192B
3/8	3/8	1		3	0.030	VXMG6TCB-1212-R030	H7196B
3/8	3/8	1		3	0.060	VXMG6TCB-1212-R060	H7193B
3/8	3/8	1	1-7/8	4	0.015	VXMG6TCB-1212-R015N1	H7194B
3/8	3/8	1	1-7/8	4	0.030	VXMG6TCB-1212-R030N1	H7195B
1/2	1/2	1-1/4		3	0.015	VXMG6TCB-1616-R015	H7197B
1/2	1/2	1-1/4		3	0.030	VXMG6TCB-1616-R030	H7198B
1/2	1/2	1-1/4		3	0.060	VXMG6TCB-1616-R060	H7199B
1/2	1/2	1-1/4		3	0.120	VXMG6TCB-1616-R120	H7200B
1/2	1/2	1-1/4	2-1/4	4	0.030	VXMG6TCB-1616-R030N1	H7202B
1/2	1/2	1-1/4	2-1/4	4	0.060	VXMG6TCB-1616-R060N1	H7203B
1/2	1/2	1-1/4	2-1/4	4	0.120	VXMG6TCB-1616-R120N1	H7862B
1/2	1/2	1-1/4	3	5	0.030	VXMG6TCB-1616-R030N2	H7864B
1/2	1/2	1-1/4	3	5	0.060	VXMG6TCB-1616-R060N2	H7865B
1/2	1/2	1-1/4	3	5	0.120	VXMG6TCB-1616-R120N2	H7866B
5/8	5/8	1-1/4		3-1/2	0.030	VXMG6TCB-2020-R030	H7204B
5/8	5/8	1-1/4		3-1/2	0.060	VXMG6TCB-2020-R060	H7205B
5/8	5/8	1-1/4	2-1/4	4	0.030	VXMG6TCB-2020-R030N1	H7207B
5/8	5/8	1-1/4	2-1/4	4	0.060	VXMG6TCB-2020-R060N1	H7208B
3/4	3/4	1-5/8		4	0.030	VXMG6TCB-2424-R030	H7210B
3/4	3/4	1-5/8		4	0.060	VXMG6TCB-2424-R060	H7215B
3/4	3/4	1-5/8		4	0.090	VXMG6TCB-2424-R090	H7211B
3/4	3/4	1-5/8		4	0.120	VXMG6TCB-2424-R120	H7212B
3/4	3/4	1-5/8	3	5	0.030	VXMG6TCB-2424-R030N1	H7213B
3/4	3/4	1-5/8	3	5	0.060	VXMG6TCB-2424-R060N1	H7214B
3/4	3/4	1-5/8	3	5	0.120	VXMG6TCB-2424-R120N1	H7826B
1	1	1-3/4		4-1/2	0.030	VXMG6TCB-3232-R030	H7216B
1	1	1-3/4		4-1/2	0.060	VXMG6TCB-3232-R060	H7217B
1	1	1-3/4		4-1/2	0.120	VXMG6TCB-3232-R120	H7218B
1	1	1-3/4	3-1/4	5-1/2	0.030	VXMG6TCB-3232-R030N1	H7221B
1	1	1-3/4	3-1/4	5-1/2	0.060	VXMG6TCB-3232-R060N1	H7222B
1	1	1-3/4	3-1/4	5-1/2	0.120	VXMG6TCB-3232-R120N1	H7868B
1-1/4	1-1/4	2-1/4		5	0.030	VXMG6TCB-4040-R030	H7223B





FOR TOUGH STEEL, CAST IRON, STAINLESS STEEL AND EXOTIC MATERIALS:
NOTHING CUTS IT BETTER



**INDUSTRY-LEADING
HIGH-PERFORMANCE
CARBIDE END MILLS:**

- 4 Flute & 6 Flute
- Square, Chamfer, Radius, Ball Nose
- Standard & Extended Length
- Plain & Weldon Flat Shanks
- Inch & Metric Sizes

NEW
6 Flute Chip Splitter
Size Expansion in 1/2" x 1/2" x 1-1/4" x3"

**Over 1,500 Items
in Stock.**



V7 PLUS A · CHIP SPLITTER

OD	SD	LOC	OAL	.015	.030	.060	.125
3/8	3/8	5/8	2-1/2	GMH72901	GMH72902		
3/8	3/8	1	2-1/2	GMH72903			
3/8	3/8	1-1/8	3	GMH72024	GMH72904		
1/2	1/2	1-1/4	3		GMH72905	GMH72906	
1/2	1/2	1-1/2	3-1/2		GMH72907	GMH72908	
1/2	1/2	1-5/8	4	GMH72032	GMH72909	GMH72910	
1/2	1/2	2	4		GMH72911	GMH72912	
5/8	5/8	1-1/4	3-1/2		GMH72913	GMH72914	
5/8	5/8	1-7/8	4		GMH72915	GMH72916	
5/8	5/8	2	4	GMH72040	GMH72917	GMH72918	GMH72919
5/8	5/8	2-3/16	4-1/2		GMH72920	GMH72921	
5/8	5/8	2-5/8	5		GMH72922	GMH72923	
3/4	3/4	1-1/2	4		GMH72924	GMH72925	GMH72926
3/4	3/4	1-7/8	4-1/2		GMH72927	GMH72928	
3/4	3/4	2-1/4	5	GMH72048	GMH72929	GMH72930	GMH72931
3/4	3/4	2-3/4	5		GMH72932	GMH72933	GMH72934
3/4	3/4	3	6		GMH72935	GMH72936	
1	1	2	5		GMH72937	GMH72938	GMH72939
1	1	2-1/2	5-1/2		GMH72942	GMH72943	
1	1	3-1/4	6	GMH72064	GMH72944	GMH72945	GMH72946
1	1	3-1/2	6-1/2		GMH72940	GMH72941	
1	1	4	7			GMH72947	



7 FLUTE CARBIDE



MTi7

DIA	SHK	LOC	OAL	SQ	.015	.030	.060	.090	.120
3/16	3/16	9/16	2-1/2	380820	380860				
3/16	3/16	3/4	2-1/2	380900	380940				
1/4	1/4	1/2	2-1/2	381100	381120	381160			
1/4	1/4	3/4	2-1/2	381220	381240	381280			
1/4	1/4	1-1/4	3	381340	381360	381400			
3/8	3/8	1/2	2	381760	381780	381820	381840		
3/8	3/8	1	2-1/2	381900	381920	381960	381980		
3/8	3/8	1-1/4	3	382040	382060	382100	382120		
1/2	1/2	5/8	2-1/2	382320	382340	382360	382380		
1/2	1/2	1	3	382480	382500	382520	382540		
1/2	1/2	1-1/4	3	382640	382660	382680	382700		
1/2	1/2	2-1/8	4	382960	382980	383000	383020		
5/8	5/8	3/4	3	383120	383140	383160	383180		
5/8	5/8	1-1/4	3-1/2	383280	383300	383320	383340		
5/8	5/8	1-5/8	3-1/2	383440	383460	383480	383500		
5/8	5/8	2-1/8	4	383600	383620	383640	383660		
3/4	3/4	1	3	383920	383940	383960	383980		384020
3/4	3/4	1-5/8	4	384100	384120	384140	384160		384200
3/4	3/4	2-1/4	5	384280	384300	384320	384340		384380
3/4	3/4	3-1/4	6	384640	384660	384680	384700		384740
1	1	1-1/2	4	384820	384840	384860	384880		384920
1	1	2-5/8	5	385220	385240	385260	385280		385320
1	1	3-1/4	6	385420	385440	385460	385480	385500	385520



MTi7C · CHIPBREAKER

DIA	SHK	LOC	OAL	SQ	.015	.030	.060	.090	.120
1/4	1/4	1-1/4	3	381340C	381360C	381400C			
3/8	3/8	1-1/4	3	382040C	382060C	382100C	382120C		
1/2	1/2	1-1/4	3	382640C	382660C	382680C	382700C		
1/2	1/2	2-1/8	4	382960C	382980C	383000C	383020C		
5/8	5/8	1-1/4	3-1/2	383280C	383300C	383320C	383340C		
5/8	5/8	1-5/8	3-1/2	383440C	383460C	383480C	383500C		
5/8	5/8	2-1/8	4	383600C	383620C	383640C	383660C		
3/4	3/4	1-5/8	4	384100C	384120C	384140C	384160C	384180C	384200C
3/4	3/4	2-1/4	5	384280C	384300C	384320C	384340C	384360C	384380C
3/4	3/4	3-1/4	6	384640C	384660C	384680C	384700C	384720C	384740C
1	1	1-1/2	4	384820C	384840C	384860C	384880C	384900C	384920C
1	1	2-5/8	5	385220C	385240C	385260C	385280C	385300C	385320C
1	1	3-1/4	6	385420C	385440C	385460C	385480C	385500C	385520C



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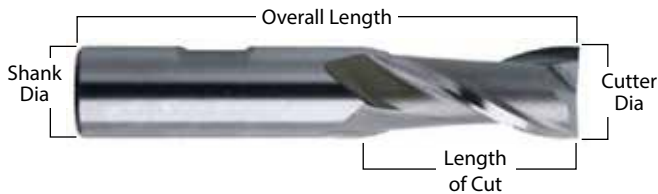
MOBILE INVENTORY
Same Day Delivery
(most items)

2 FLUTE COBALT



SINGLE END

Cutter Dia	Shank Dia	Length of Cut	Overall Length	EDP # Uncoated	TiCN	TiAIN
1/8	3/8	3/8	2-5/16	82000	86400	80129
3/16	3/8	7/16	2-5/16	82002	86402	80130
1/4	3/8	1/2	2-5/16	82004	86404	80131
5/16	3/8	9/16	2-5/16	82009	86409	80132
3/8	3/8	9/16	2-5/16	82014	86414	80133
3/8	3/8	1	2-3/4	82215	82217	80134
3/8	3/8	1-1/2	3-1/4	82416	82418	80135
7/16	3/8	13/16	2-1/2	82020	86420	80136
1/2	3/8	13/16	2-1/2	82027	82026	80137
1/2	1/2	1	3	82028	86428	80138
1/2	1/2	1-1/2	3-1/2	82229	82231	80139
1/2	1/2	2	4	82430	82432	80140
9/16	1/2	1-1/8	3-1/8	82033	86433	80141
5/8	1/2	1-1/8	3-1/8	82035	82018	80142
5/8	5/8	1-5/16	3-7/16	82036	86436	80143
5/8	5/8	1-5/8	3-3/4	82237	82239	80144
5/8	5/8	2	4-1/8	82438	82440	80145
3/4	1/2	1-5/16	3-5/16	82043	82042	80149
3/4	5/8	1-5/16	3-7/16	82044	82024	80150
3/4	3/4	1-5/16	3-9/16	82045	86445	80151
3/4	3/4	1-3/4	4	82246	82248	80152
3/4	3/4	2-1/4	4-1/2	82447	82449	80153
7/8	5/8	1-1/2	3-5/8	82052	82051	80154
7/8	7/8	1-1/2	3-3/4	82054	82056	80155
1	5/8	1-1/2	3-5/8	82062	82061	80156
1	3/4	1-1/2	3-3/4	82063	82065	80163
1	1	1-5/8	4-1/8	82066	86466	80167
1	1	2-1/4	4-3/4	82267	82269	80171
1	1	3	5-1/2	82468	82470	80176
1-1/4	1-1/4	1-5/8	4-1/8	82075	82077	80177
1-1/4	1-1/4	2-1/4	4-3/4	82276	82278	80178
1-1/4	1-1/4	3	5-1/2	82477	82479	80180
1-1/2	1-1/4	1-5/8	4-1/8	82083	82085	80182
1-1/2	1-1/4	2-1/4	4-3/4	82284	82286	80183
2	1-1/4	1-5/8	4-1/8	82092	82094	80187
2	1-1/4	2-1/4	4-3/4	82293	82295	80192



END MILL SPECIALISTS

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YOUR MOBILE TOOL CRIB



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- Regrinds
- Modifications
- Coatings

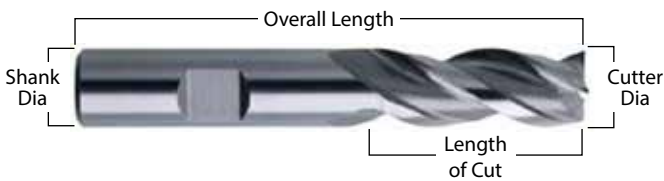


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MOBILE INVENTORY
Same Day Delivery
(most items)

3 FLUTE
COBALT



SINGLE END

Cutter Dia	Shank Dia	Length of Cut	Overall Length	EDP # Uncoated	TiCN	TiAIN
1/2	1/2	1-1/4	3-1/4	77700	77702	77766
1/2	1/2	2	4	77718	77720	77767
1/2	1/2	3	5	77736	77738	77768
3/4	3/4	1-5/8	3-7/8	77703	77705	77769
3/4	3/4	3	5-1/4	77721	77723	77770
3/4	3/4	4	6-1/4	77739	77741	77771
1	1	2	4-1/2	77706	77708	77772
1	1	3	5-1/2	77724	77726	77773
1	1	4	6-1/2	77742	77744	77774
1	1	6	8-1/2	77754	77756	77775
1-1/4	1-1/4	2	4-1/2	77709	77711	77776
1-1/4	1-1/4	3	5-1/2	77727	77729	77777
1-1/4	1-1/4	4	6-1/2	77745	77747	77778
1-1/4	1-1/4	6	8-1/2	77757	77759	77779
1-1/2	1-1/4	2	4-1/2	77712	77714	77780
1-1/2	1-1/4	3	5-1/2	77730	77732	77781
1-1/2	1-1/4	4	6-1/2	77748	77750	77782
1-1/2	1-1/4	6	8-1/2	77760	77762	77783
2	2	2	5-3/4	77715	77717	77784
2	2	3	6-3/4	77733	77735	77785
2	2	4	7-3/4	77751	77753	77786
2	2	6	9-3/4	77763	77765	77787



SINGLE END • TRUNCATED ROUGH/FINISH

Cutter Dia	Shank Dia	Length of Cut	Overall Length	EDP # Uncoated	TiCN	TiAIN
1/2	1/2	1-1/4	3-1/4	77600	77602	77666
1/2	1/2	2	4	77618	77620	77667
1/2	1/2	3	5	77636	77638	77668
3/4	3/4	1-5/8	3-7/8	77603	77605	77669
3/4	3/4	3	5-1/4	77621	77623	77670
3/4	3/4	4	6-1/4	77639	77641	77671
1	1	2	4-1/2	77606	77608	77672
1	1	3	5-1/2	77624	77626	77673
1	1	4	6-1/2	77642	77644	77674
1	1	6	8-1/2	77654	77656	77675
1-1/4	1-1/4	2	4-1/2	77609	77611	77676
1-1/4	1-1/4	3	5-1/2	77627	77629	77677
1-1/4	1-1/4	4	6-1/2	77645	77647	77678
1-1/4	1-1/4	6	8-1/2	77657	77659	77679
1-1/2	1-1/4	2	4-1/2	77612	77614	77680
1-1/2	1-1/4	3	5-1/2	77630	77632	77681
1-1/2	1-1/4	4	6-1/2	77648	77650	77682
1-1/2	1-1/4	6	8-1/2	77660	77662	77683
2	2	2	5-3/4	77615	77617	77684
2	2	3	6-3/4	77633	77635	77685
2	2	4	7-3/4	77651	77653	77686
2	2	6	9-3/4	77663	77665	77687



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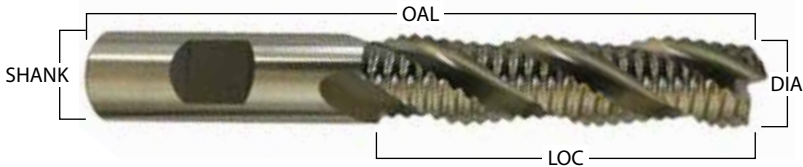
MOBILE INVENTORY
Same Day Delivery
(most items)

3 FLUTE
COBALT



M42 • EXT. NECK

DIA	SHANK	LOC	LBS	OAL	Uncoated EDP
3/4	3/4	1-1/2	3	5-1/4	83054
3/4	3/4	1-1/2	4	6-1/4	83055
1	1	1-1/2	3	5-1/2	83057
1	1	2	4	6-1/2	83058
1	1	2	6	8-1/2	83059
1	1	2-3/4	7	9-1/2	81885
1	1	3	8	10-1/2	81903
1-1/4	1-1/4	2	4	6-1/2	83060
1-1/4	1-1/4	2	6	8-1/2	83061
1-1/4	1-1/4	2-3/4	7	9-1/2	81886
1-1/4	1-1/4	3	8	10-1/2	81887
1-1/4	1-1/4	3-1/2	10	12-1/2	81888



M42 • COARSE ROUGHER • EXT. NECK

DIA	SHANK	LOC	LBS	OAL	Uncoated EDP
3/4	3/4	1-1/2	3	5-1/4	83062
3/4	3/4	1-1/2	4	6-1/4	83063
1	1	1-1/2	3	5-1/2	83064
1	1	2	4	6-1/2	83065
1	1	2	6	8-1/2	83066
1	1	2-3/4	7	9-1/2	81889
1	1	3	8	10-1/2	81904
1-1/4	1-1/4	2	4	6-1/2	83067
1-1/4	1-1/4	2	6	8-1/2	83068
1-1/4	1-1/4	2-3/4	7	9-1/2	81890
1-1/4	1-1/4	3	8	10-1/2	81891
1-1/4	1-1/4	3-1/2	10	12-1/2	81892

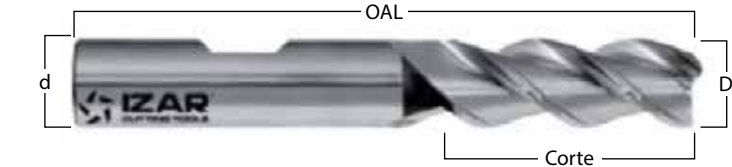


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7521

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/4	3/8	5/8	2-7/16	3	57740	65682
5/16	3/8	3/4	2-1/2	3	57743	25497
3/8	3/8	3/4	2-1/2	3	57746	24488
1/2	1/2	1-1/4	3-1/4	3	57749	24489
5/8	5/8	1-5/8	3-3/4	3	57752	24490
3/4	3/4	1-5/8	3-3/4	3	57755	24491
7/8	3/4	1-7/8	4-1/8	3	57758	24492
1	3/4	2	4-1/2	3	57761	24493
1	1	2	4-1/2	3	57764	24495
1-1/8	3/4	2	4-1/2	3	57767	24498
1-1/4	1-1/4	2	4-1/2	3	57770	24499
1-1/2	1-1/4	2	4-1/2	3	57773	24500
1-3/4	1-1/4	2	4-1/2	3	57776	24501
2	1-1/4	2	4-1/2	3	57779	24502



7523

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/2	1/2	2	4	3	57809	24503
5/8	5/8	2-1/2	4-5/8	3	57812	24504
3/4	3/4	3	5-1/4	3	57815	24505
7/8	7/8	3-1/2	5-3/4	3	57818	24506
1	1	4	6-1/2	3	57821	24507
1-1/4	1-1/4	4	6-1/2	3	57824	24508
2	1-1/4	4	6-1/2	3	80710	24509



MOBILE INVENTORY
Same Day Delivery
(most items)

3 FLUTE
COBALT



7530

D	d	Corte	OAL	Z	No. Art. Cobalt
1/4	3/8	5/8	2-7/16	3	19339
5/16	3/8	3/4	2-1/2	3	19340
3/8	3/8	3/4	2-1/2	3	19342
1/2	1/2	1-1/4	3-1/4	3	19343
5/8	5/8	1-5/8	3-3/4	3	19344
3/4	3/4	1-5/8	3-7/8	3	10874
7/8	3/4	1-7/8	4-1/8	3	24511
1	1	2	4-1/2	3	24512
1-1/4	3/4	2	4-1/4	3	24513
1-1/4	1-1/4	3	5-1/2	3	19354



7532

D	d	Corte	OAL	Z	No. Art. Cobalt
1/2	1/2	2	4	3	24514
5/8	5/8	2-1/2	4-5/8	3	24515
3/4	3/4	3	5-1/4	3	24516
1	1	4	6-1/2	3	24517
1-1/4	1-1/4	4	6-1/2	3	24518



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4 FLUTE COBALT



MNi4



DIA	SHK	LOC	OAL	.015	.020	.030	.060	.090	.120	Ball
1/8	1/8	1/4	1-1/2	340540		340560				340570
1/8	1/8	1/2	2	340620		340640				340650
3/16	3/16	5/16	2	340780		340800				340810
3/16	3/16	9/16	2-1/2	340860		340880				340890
1/4	1/4	3/8	2	341000	341020	341040	341060	341080		341090
1/4	1/4	1/2	2-1/2	341120	341140	341160	341180	341200		341210
1/4	1/4	3/4	2-1/2	341240	341260	341280	341300	341320		341330
1/4	1/4	1	3	341332	341333	341334	341335	341336		341337
5/16	5/16	7/16	2	341480		341500	341520	341540		341550
5/16	5/16	13/16	2-1/2	341580		341600	341620	341640		341650
3/8	3/8	1/2	2	341780	341800	341820	341840	341860	341880	341890
3/8	3/8	1	2-1/2	341920	341940	341960	341980	342000	342020	342030
3/8	3/8	1-1/4	3	342060	342080	342100	342120	342140	342160	342170
1/2	1/2	5/8	2-1/2	342340		342360	342380	342400	342420	342470
1/2	1/2	1	3	342500		342520	342540	342560	342580	342630
1/2	1/2	1-1/4	3	342660		342680	342700	342720	342740	342790
1/2	1/2	1-5/8	4	342820		342840	342860	342880	342900	342950



5 FLUTE COBALT



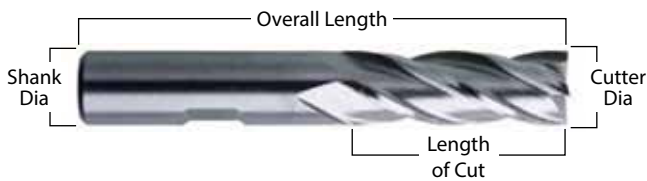
MNi5



DIA	SHK	LOC	OAL	.015	.020	.030	.060	.090	.120	Ball
1/4	1/4	3/8	2	361000	361020	361040	361060	361080		361090
1/4	1/4	1/2	2-1/2	361120	361140	361160	361180	361200		361210
1/4	1/4	3/4	2-1/2	361240	361260	361280	361300	361320		361330
1/4	1/4	1	3	361332	361333	361334	361335	361336		361337
5/16	5/16	7/16	2	361480		361500	361520	361540		361550
5/16	5/16	13/16	2-1/2	361580		361600	361620	361640		361650
3/8	3/8	1/2	2	361780	361800	361820	361840	361860	361880	361890
3/8	3/8	1	2-1/2	361920	361940	361960	361980	362000	362020	362030
3/8	3/8	1-1/4	3	362060	362080	362100	362120	362140	362160	362170
1/2	1/2	5/8	2-1/2	362340		362360	362380	362400	362420	362470
1/2	1/2	1	3	362500		362520	362540	362560	362580	362630
1/2	1/2	1-1/4	3	362660		362680	362700	362720	362740	362790
1/2	1/2	1-5/8	4	362820		362840	362860	362880	362900	362950
5/8	5/8	3/4	3	363140		363160	363180	363200	363220	363270
5/8	5/8	1-1/4	3-1/2	363300		363320	363340	363360	363380	363430
5/8	5/8	1-5/8	3-1/2	363460		363480	363500	363520	363540	363590
3/4	3/4	1	3	363940		363960	363980	364000	364020	364090
3/4	3/4	1-5/8	4	364120		364140	364160	364180	364200	364270
3/4	3/4	2-1/4	5	364300		364320	364340	364360	364380	364450
1	1	1-1/2	4	364840		364860	364880	364900	364920	365010



COBALT
MULTIFLUTE



 SINGLE END

Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1/8	3/8	3/8	2-5/16	4	83800	86900	80345
3/16	3/8	1/2	2-3/8	4	83802	86902	80346
1/4	3/8	5/8	2-7/16	4	83804	86904	80347
1/4	3/8	1-1/4	3-1/16	4	83906	83908	80348
1/4	3/8	1-3/4	3-9/16	4	84107	84109	80349
5/16	3/8	3/4	2-1/2	4	83809	86909	80350
5/16	3/8	1-3/8	3-1/8	4	83911	83913	80351
5/16	3/8	2	3-3/4	4	84112	84114	80352
3/8	3/8	3/4	2-1/2	4	83814	86914	80353
3/8	3/8	1-1/2	3-1/4	4	83916	83918	80354
3/8	3/8	2-1/2	4-1/4	4	84117	84119	80355
1/2	1/2	1-1/4	3-1/4	4	83828	86928	80356
1/2	1/2	1-1/4	3-1/4	6	83829	83831	80357
1/2	1/2	2	4	4	83930	83932	80358
1/2	1/2	3	5	4	84131	84133	80359
5/8	5/8	1-5/8	3-3/4	4	83836	86936	80360
5/8	5/8	1-5/8	3-3/4	6	83837	83839	80361
5/8	5/8	2-1/2	4-5/8	4	83938	83940	80362
5/8	5/8	4	6-1/8	4	84139	84141	80363
3/4	3/4	1-5/8	3-7/8	4	83845	86945	80364
3/4	3/4	1-5/8	3-7/8	6	83846	83848	80365
3/4	3/4	3	5-1/4	4	83947	83946	80366
3/4	3/4	3	5-1/4	6	83948	83950	80367
3/4	3/4	4	6-1/4	4	84147	84146	80368
3/4	3/4	4	6-1/4	6	84148	84150	80369
7/8	7/8	1-7/8	4-1/8	4	83854	86954	80370
1	1	2	4-1/2	4	83866	86966	80371
1	1	2	4-1/2	6	83867	83869	80372
1	1	3	5-1/2	4	83966	83965	80373
1	1	3	5-1/2	6	83967	83961	80374
1	1	4	6-1/2	4	83968	83963	80375
1	1	4	6-1/2	6	83969	83971	80376
1	1	6	8-1/2	4	84168	84167	80377
1	1	6	8-1/2	6	84169	84171	80378
1-1/4	1-1/4	2	4-1/2	4	83875	83874	80379
1-1/4	1-1/4	2	4-1/2	6	83876	83878	80380
1-1/4	1-1/4	3	5-1/2	6	83976	83975	80381
1-1/4	1-1/4	4	6-1/2	4	83977	83973	80382
1-1/4	1-1/4	4	6-1/2	6	83978	83980	80383
1-1/4	1-1/4	6	8-1/2	4	84177	84176	80384
1-1/4	1-1/4	6	8-1/2	6	84178	84180	80385
1-1/2	1-1/4	2	4-1/2	4	83883	83882	80386
1-1/2	1-1/4	2	4-1/2	6	83884	83886	80387
1-1/2	1-1/4	3	5-1/2	6	83984	83983	80388
1-1/2	1-1/4	4	6-1/2	6	83985	83987	80389
1-1/2	1-1/4	6	8-1/2	6	84184	84186	80390

Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1-3/4	1-1/4	2	4-1/2	6	83889	83891	80391
2	1-1/4	2	4-1/2	6	83892	83894	80392
2*	2	3	6-3/4	6	83895	83818	80393
2*	2	4	7-3/4	6	83896	83820	80394
2*	2	5	8-3/4	6	83897	83822	80395
2*	2	6	9-3/4	6	83898	83824	80396
2*	2	8	11-3/4	6	83899	83833	80397

Key Manufacturing Partners



COBALT
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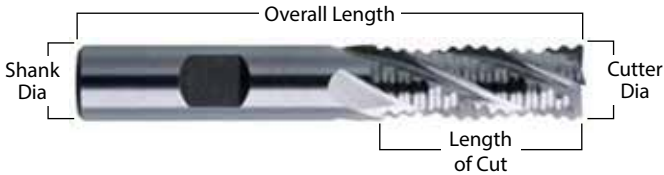
BRUBAKER STARCHIP 1 SERIES • ROUGH/FINISH

Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1/2	1/2	1-1/4	3-1/4	4	87228	86528	87200
1/2	1/2	2	4	4	87630	87632	87600
1/2	1/2	3	5	4	87831	87833	87800
5/8	5/8	1-5/8	3-3/4	4	87236	87238	87201
5/8	5/8	3	5-1/8	4	87437	87439	87400
5/8	5/8	2-1/2	4-5/8	4	87638	87640	87601
5/8	5/8	4	6-1/8	4	87839	87841	87801
3/4	3/4	1-5/8	3-7/8	4	87245	86545	87202
3/4	3/4	1-5/8	3-7/8	6	87246	86546	87203
3/4	3/4	3	5-1/4	4	87647	87646	87602
3/4	3/4	3	5-1/4	6	87648	87650	87603
3/4	3/4	4	6-1/4	4	87847	87846	87802
3/4	3/4	4	6-1/4	6	87848	87850	87803
7/8	7/8	1-7/8	4-1/8	4	87254	87256	87204
7/8	7/8	3-1/2	5-3/4	4	87656	87658	87604
1	1	2	4-1/2	4	87266	86566	87205
1	1	2	4-1/2	6	87267	86567	87206
1	1	3	5-1/2	4	87467	87466	87401
1	1	3	5-1/2	6	87468	87470	87402
1	1	4	6-1/2	4	87668	87667	87605
1	1	4	6-1/2	6	87669	87671	87606
1	1	6	8-1/2	4	87868	87867	87804
1	1	6	8-1/2	6	87869	87871	87805
1-1/4	1-1/4	2	4-1/2	6	87275	87277	87207
1-1/4	1-1/4	3	5-1/2	6	87476	87478	87403
1-1/4	1-1/4	4	6-1/2	6	87677	87679	87607
1-1/4	1-1/4	6	8-1/2	6	87878	87880	87806
1-1/2	1-1/4	2	4-1/2	6	87283	87285	87208
1-1/2	1-1/4	3	5-1/2	6	87484	87486	87404
1-1/2	1-1/4	4	6-1/2	6	87685	87687	87608
1-1/2	1-1/4	6	8-1/2	6	87886	87888	87807
2	1-1/4	2	4-1/2	6	87292	87294	87209
2	2	2	5-3/4	6	87296	87298	87210
2	2	3	6-3/4	6	87497	87499	87405
2	2	4	7-3/4	6	87698	87697	87609
2	2	6	9-3/4	6	87899	87898	87808



BRUBAKER COARSE PITCH ROUGHER • STUB

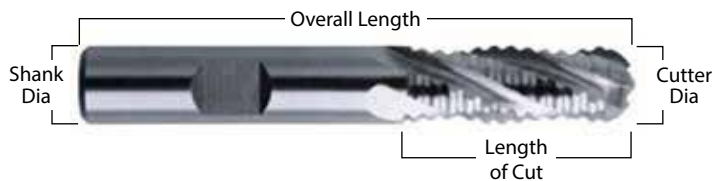
Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1/4	3/8	1/4	2-1/16	3	96804	96806	96800
3/8	3/8	3/8	2-5/32	4	96814	96816	96801
1/2	1/2	1/2	2-1/2	4	96828	96830	96802
5/8	5/8	5/8	2-3/4	4	96836	96838	96803
3/4	3/4	3/4	2-7/8	4	96845	96847	96807
1	1	1	3-1/2	5	96866	96868	96808
1-1/4	1-1/4	1-1/4	3-3/4	6	96875	96877	96809



BRUBAKER COARSE PITCH ROUGHER

Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1/2	1/2	1-1/4	3-1/4	4	94828	94830	94800
1/2	1/2	2	4	4	95029	95031	95000
5/8	5/8	1-5/8	3-3/4	4	94836	94838	94801
5/8	5/8	2-1/2	4-5/8	4	95037	95039	95001
3/4	3/4	1-5/8	3-7/8	4	94845	94847	94802
3/4	3/4	3	5-1/4	4	95046	95048	95002
7/8	3/4	1-7/8	4-1/8	5	94854	94856	94803
1	1	2	4-1/2	5	94866	94868	94804
1	1	3	5-1/2	5	95067	95066	95003
1	1	4	6-1/2	5	95068	95070	95004
1-1/4	1-1/4	2	4-1/2	6	94875	94877	94805
1-1/4	1-1/4	3	5-1/2	6	95076	95075	95005
1-1/4	1-1/4	4	6-1/2	6	95077	95079	95006
1-1/2	1-1/4	2	4-1/2	6	94883	94885	94806
1-1/2	1-1/4	3	5-1/2	6	95084	95083	95007
1-1/2	1-1/4	4	6-1/2	6	95085	95087	95008
2	2	2	5-3/4	8	94896	94895	94807
2	2	3	6-3/4	8	94897	94889	94808
2	2	4	7-3/4	8	94898	94891	94809
2	2	6	9-3/4	8	94899	94893	94810

COBALT
MULTIFLUTE



COARSE PITCH ROUGHER • BALL

Cutter Dia	Shank Dia	Length of Cut	Overall Length	No. of Flutes	EDP # Uncoated	TiCN	TiAIN
1/2	1/2	1-1/4	3-1/4	4	95228	95230	95243
1/2	1/2	2	4	4	95430	95432	95400
5/8	5/8	1-5/8	3-3/4	4	95236	95238	95244
5/8	5/8	2-1/2	4-5/8	4	95437	95439	95401
3/4	3/4	1-5/8	3-7/8	4	95245	95247	95248
3/4	3/4	3	5-1/4	4	95447	95449	95402
1	1	2	4-1/2	5	95266	95268	95249
1	1	4	6-1/2	5	95468	95470	95403
1-1/4	1-1/4	2	4-1/2	6	95275	95277	95250
1-1/4	1-1/4	4	6-1/2	6	95477	95479	95404
1-1/2	1-1/4	2	4-1/2	6	95283	95285	95251
1-1/2	1-1/4	4	6-1/2	6	95485	95487	95405
2	2	4	7-3/4	8	95297	95296	95252
2	2	6	9-3/4	8	95298	95294	95253



M42 • EXT. NECK

DIA	SHANK	LOC	LBS	OAL	FLUTES	UNCOATED EDP
3/4	3/4	1-1/2	3	5-1/4	5	83069
3/4	3/4	1-1/2	4	6-1/4	5	83070
1	1	2	4	6-1/2	6	83071
1	1	2	6	8-1/2	6	83072
1	1	3	8	10-1/2	5	81893
1	1	3-1/2	10	12-1/2	5	81894
1-1/4	1-1/4	2	4	6-1/2	6	83074
1-1/4	1-1/4	2	5	7-1/2	6	83075
1-1/4	1-1/4	2	6	8-1/2	6	83076
1-1/4	1-1/4	3	8	10-1/2	6	81895
1-1/4	1-1/4	3-1/2	10	12-1/2	6	81896



M42 • FINE PITCH ROUGHER • EXT. NECK

DIA	SHANK	LOC	LBS	OAL	FLUTES	UNCOATED EDP
3/4	3/4	1-1/2	3	5-1/2	5	83077
3/4	3/4	1-1/2	4	6-1/4	5	83078
1	1	2	4	6-1/2	6	83079
1	1	2	6	8-1/2	6	83080
1	1	3	8	10-1/2	5	81897
1	1	3	10	12-1/2	5	81898
1-1/4	1-1/4	2	4	6-1/2	6	83082
1-1/4	1-1/4	2	5	7-1/2	6	83083
1-1/4	1-1/4	2	6	8-1/2	6	83084
1-1/4	1-1/4	3	8	10-1/2	6	81899
1-1/4	1-1/4	3	10	12-1/2	6	81900



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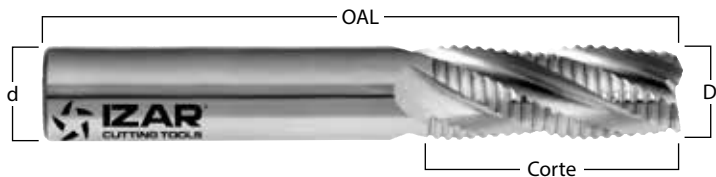


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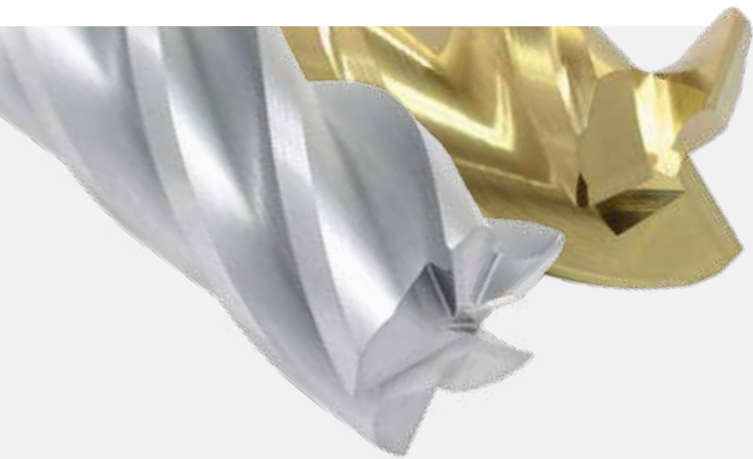
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7304



D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/4	3/8	5/8	2-7/16	3	42409	23640
5/16	3/8	3/4	2-1/2	3	42410	23641
3/8	3/8	3/4	2-1/2	4	42411	23643
7/16	3/8	1	2-11/16	4	42412	23644
1/2	1/2	1-1/4	3-1/4	4	42413	23645
5/8	5/8	1-5/8	3-3/4	4	42414	23646
3/4	3/4	1-5/8	3-3/4	4	42415	23647
3/4	3/4	1-5/8	3-3/4	4	42416	23649
7/8	3/4	1-7/8	4-1/8	5	42417	23650
1	3/4	2	4-1/4	5	42325	23651
1	1	2	4-1/2	5	42327	23652
1-1/4	1-1/4	2	4-1/2	6	42333	23658
1-1/2	1-1/4	2	4-1/2	6	42418	23662
2	1-1/4	2	4-1/2	8	66762	23665



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7306



D	d	Corte	OAL	Z	No. Art. Cobalt
1/4	3/8	7/8	2-11/16	3	42423
1/4	3/8	1-1/8	2-15/16	3	42424
1/4	3/8	1-1/4	3-1/16	3	42558
5/16	3/8	7/16	2-3/16	3	42425
5/16	3/8	1-1/8	2-15/16	3	42426
5/16	3/8	1-3/8	3-1/8	4	42693
3/8	3/8	3/4	2-9/16	4	42427
3/8	3/8	1-1/8	2-15/16	4	42429
3/8	3/8	1-1/2	3-1/4	4	66742
1/2	1/2	5/8	2-5/8	4	42432
1/2	1/2	1	3	4	42433
1/2	1/2	1-5/8	3-5/8	4	42435
1/2	1/2	2	4	4	42339
1/2	1/2	3	5	4	42342
5/8	5/8	3/4	2-7/8	4	42344
5/8	5/8	1-1/4	3-3/8	4	42345
5/8	5/8	2-1/2	4-5/8	4	42347
5/8	5/8	3-1/8	5-1/4	4	66744
3/4	3/4	3/4	3	4	42349
3/4	3/4	1-1/4	3-1/2	4	42351
3/4	3/4	2-1/2	4-5/8	4	42353
3/4	3/4	2-1/2	4-3/4	4	42354
3/4	3/4	3	5-1/4	4	42436
3/4	3/4	4-1/8	6-3/8	4	66746
7/8	3/4	3-1/2	5-5/8	5	42437
7/8	3/4	3-1/2	5-3/4	5	66748
7/8	7/8	3-1/2	5-3/4	5	66750
1	1	1-1/8	3-5/8	5	42440
1	1	1-5/8	4-1/8	5	42441
1	3/4	3	5-1/4	5	42361
1	1	3	5-1/2	5	42442
1	3/4	4	6-1/4	5	42444
1	1	4	6-1/2	5	42448
1	1	6	8-1/2	5	66752
1-1/4	1-1/4	3	5-1/2	6	42456
1-1/4	1-1/4	4	6-1/2	6	42462
1-1/4	1-1/4	6	8-1/2	6	42463
1-1/2	1-1/4	3	5-1/2	6	66754
1-1/2	1-1/4	4	6-1/2	6	42373
1-1/2	1-1/4	6	8-1/2	6	66716
2	2	3	6-3/4	8	66756
2	2	6	9-3/4	8	66758
2	2	4	7-3/4	8	66760



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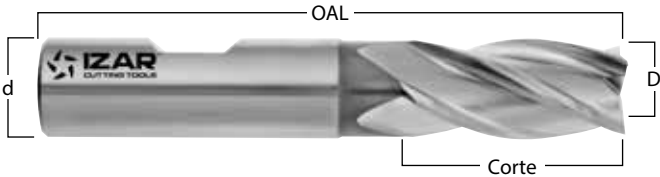
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COBALT
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7411

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/8	3/8	3/8	2-5/16	4	56426	28149
5/32	3/8	1/2	2-3/8	4	21879	28150
3/16	3/8	1/2	2-3/8	4	56429	28089
7/32	3/8	5/8	2-7/16	4	56432	28151
1/4	3/8	5/8	2-7/16	4	56435	26671
9/32	3/8	3/4	2-1/2	4	56438	28152
5/16	3/8	3/4	2-1/2	4	56441	25614
11/32	3/8	3/4	2-1/2	4	56444	28153
3/8	3/8	3/4	2-1/2	4	56447	28154
13/32	3/8	1	2-11/16	4	56450	28155
7/16	3/8	1	2-11/16	4	56453	28156
1/2	3/8	1	2-11/16	4	56456	25615
1/2	1/2	1-1/4	3-1/4	4	56459	28088
9/16	1/2	1-3/8	3-3/8	4	56462	26672
5/8	1/2	1-3/8	3-3/8	4	56465	28158
5/8	5/8	1-5/8	3-3/4	4	56468	28159
11/16	5/8	1-5/8	3-3/4	4	56471	28161
3/4	1/2	1-5/8	3-5/8	4	56474	28162
3/4	5/8	1-5/8	3-3/4	4	10912	10913
3/4	3/4	1-5/8	3-7/8	4	56477	28163
13/16	3/4	1-7/8	4-1/8	4	56480	28164
7/8	3/4	1-7/8	4-1/8	4	56483	28165
7/8	7/8	1-7/8	4-1/8	4	56486	28166
15/16	3/4	1-7/8	4-1/8	4	53562	28167
1	1/2	1-7/8	4-1/8	4	10914	10915
1	5/8	1-7/8	4	4	53565	28168
1	3/4	1-7/8	4-1/8	4	56489	25616
1	1	2	4-1/2	4	56492	28169
1-1/16	3/4	1-1/2	3-7/8	6	10918	10920
1-1/8	3/4	1-1/2	3-7/8	6	56495	28170
1-1/8	1	2	4-1/2	6	56498	28171
1-3/16	3/4	2	4-1/4	6	21930	28172
1-1/4	3/4	1-1/2	3-7/8	6	56501	28173
1-1/4	1	2	4-1/2	6	77529	28174
1-1/4	1-1/4	2	4-1/2	6	56504	28175
1-5/16	3/4	2	4-3/8	6	10921	10923
1-3/8	3/4	2	4-3/8	6	10924	10927
1-3/8	1	2	4-1/2	6	70769	28176
1-1/2	3/4	2	4-3/8	6	21933	28177
1-1/2	1	2	4-1/2	6	10928	10929
1-1/2	1-1/4	2	4-1/2	6	17117	28178
1-5/8	1-1/4	2	4-1/2	6	70775	28179

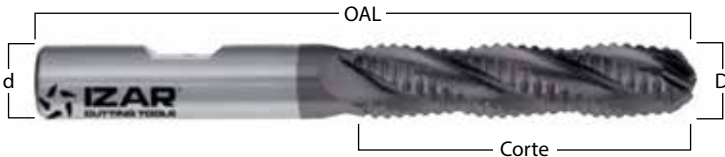


D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1-3/4	3/4	2	4-3/8	6	10930	10931
1-3/4	1-1/4	2	4-1/2	6	70781	28180
1-7/8	3/4	2	4-1/2	6	10932	28181
1-7/8	1-1/4	2	4-3/8	6	10933	28182
2	3/4	2	4-1/26	6	53571	28183
2	1-1/4	2	4-1/2	6	70784	28184



7391

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
3/8	3/8	3/4	2-1/2	4	26057	26189
1/2	1/2	1-1/4	3-1/4	4	26058	26190
1/2	1/2	2	4	4	26344	26379
5/8	5/8	1-5/8	3-3/4	4	26059	26191
5/8	5/8	2	4-1/8	4	26345	26380
5/8	5/8	2-1/2	4-5/8	4	26347	26381
3/4	3/4	1-5/8	3-7/8	4	26060	26192
3/4	3/4	1-3/4	4	4	26348	26382
3/4	3/4	2-1/4	4-1/2	4	26349	26383
3/4	3/4	3	5-1/4	4	26350	26385
7/8	7/8	1-7/8	4-1/8	5	26061	26193
7/8	7/8	3-1/2	5-3/4	5	26352	26386
1	1	2	4-1/2	5	26063	26194
1	1	3	5-1/2	5	26353	26387
1	1	4	6-1/2	5	26354	26388
1-1/4	1-1/4	2	4-1/2	6	26066	26195
1-1/4	1-1/4	3	5-1/2	6	26355	26390
1-1/4	1-1/4	4	6-1/2	6	26356	29391
1-1/2	1-1/4	2	4-1/2	6	26067	26196
2	2	2	5-3/4	6	26069	26197
2	2	4	6-3/4	6	26357	26392
2	2	6	9-3/4	6	26358	26394



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COBALT
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7413

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/4	3/8	1-1/4	3-1/16	4	56618	28187
5/16	3/8	1-3/8	3-1/8	4	56621	28188
3/8	3/8	1-1/2	3-1/4	4	56624	28189
7/16	1/2	1-3/4	3-3/4	4	77531	28190
1/2	1/2	2	4	4	56627	28191
5/8	5/8	2-1/2	4-5/8	4	56630	28192
3/4	3/4	3	5-1/4	4	56633	28193
7/8	7/8	3-1/2	5-3/4	4	56636	28194
1	1	4	6-1/2	4	56639	28195
1-1/16	3/4	2	4-1/4	6	10936	28196
1-1/8	1	4	6-1/2	6	10937	28197
1-1/4	1-1/4	4	6-1/2	6	56642	28199
1-1/2	1-1/4	4	6-1/2	6	77595	28200
1-3/4	1-1/4	4	6-1/2	6	77596	28201
2	1-1/4	4	6-1/2	8	56645	28203



7415

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/4	3/8	1-3/4	3-9/16	4	56720	28206
3/8	3/8	2-1/2	4-1/4	4	56726	28208
1/2	1/2	3	5	4	56729	28209
5/8	5/8	4	6-1/8	4	56732	28210
3/4	3/4	4	6-1/4	4	56735	28211
7/8	7/8	5	7-1/4	4	56738	28212
1	1	6	8-1/2	4	56741	28213
1-1/4	1-1/4	6	8-1/2	6	56744	28214
1-1/2	1-1/4	8	10-1/2	6	77597	28215



7420

D	d	Corte	OAL	Z	No. Art. Cobalt	No. Art. TIALSIN
1/8	3/8	3/8	2-5/16	4	26109	26161
3/16	3/8	1/2	2-3/8	4	26111	26162
1/4	3/8	5/8	2-7/16	4	26112	26163
1/4	3/8	3/4	2-9/16	4	26241	26395
1/4	3/8	1	2-13/16	4	26242	26396
1/4	3/8	1-1/4	3-1/16	4	26243	26397
1/4	3/8	1-3/4	3-9/16	4	26244	26491
5/16	3/8	3/4	2-1/2	4	26114	26164
5/16	3/8	1	2-3/4	4	26245	26400
3/8	3/8	3/4	2-1/2	4	26115	26165
3/8	3/8	1	2-3/4	4	26246	26401
3/8	3/8	1-1/2	3-1/4	4	26247	26403
3/8	3/8	2-1/2	4-1/4	4	26248	26404
7/16	1/2	1-1/4	3-1/4	4	26117	26166
1/2	1/2	1-1/4	3-1/4	4	26118	26167
1/2	1/2	2	4	4	26249	26406
1/2	1/2	3	5	4	26250	26407
5/8	5/8	1-5/8	3-3/4	4	26120	26168
5/8	5/8	2-1/2	4-5/8	4	26251	26410
5/8	5/8	4	6-1/8	4	26252	26412
3/4	3/4	1-5/8	3-7/8	4	26121	26169
3/4	3/4	3	5-1/4	4	26253	26413
3/4	3/4	4	6-1/4	4	26254	26416
7/8	7/8	1-7/8	4-1/8	4	26123	26170
1	1	2	4-1/2	4	26124	26171
1	1	2	5-1/2	4	26255	26418
1	1	4	6	4	26256	26419
1-1/4	1-1/4	2	4-1/2	6	26126	26172
1-1/4	1-1/4	2	4-1/2	4	26257	26422
1-1/2	1-1/4	2	4-1/2	6	26127	26173
1-1/2	1-1/4	2	4-1/2	4	26259	26424



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Speeds & Feeds Recommendations

Harness (HRc)	Work Materials	Type of Cut	Ap x D1	Ae x D1	Vc (SFM)	Parameters	Diameter (in.)						
							1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
	N<16% Silicon Aluminum Alloys 6061, 7075	Slotting	0.6	1	1000 (800-1200)	RPM	30600	15300	10200	7700	6200	5100	3900
						Fz (hex)	0.0010	0.0028	0.0040	0.0050	0.0060	0.0070	0.0090
						IPM	92	129	122	116	112	107	105
		Profiling	1.5	0.4	1200 (950-1400)	RPM	36700	18400	12300	9200	7400	6200	4600
						Fz (hex)	0.0010	0.0028	0.0040	0.0050	0.0060	0.0070	0.0090
						IPM	110	155	148	138	133	130	124
		0	2	0.05	1400 (1100-1700)	RPM	42800	21400	14300	10700	8600	7200	5400
						Fz (hex)	0.0010	0.0028	0.0040	0.0050	0.0060	0.0070	0.0090
						IPM	0.0023	0.0064	0.0092	0.0115	0.0138	0.0161	0.0206

V7 PLUS A · CHIP SPLITTER

⊙ :Excellent ⊖ :Good

ISO Material Description	P											M		
	Non-alloy steel					Low alloy steel			High alloyed steel, and tool steel			Stainless steel		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180
Recommend	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

ISO Material Description	K						N							
	Grey cast iron		Nodular cast iron		Malleable cast iron		Aluminum- wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)		
VDI 3323	15	16	17	18	19	20	21	22	23	24	25	26	27	28
HRc	10	26	3	25		21								
HB	180	260	160	250	130	230	60	100	75	90	130	110	90	100
Recommend	⊖	⊖	⊖	⊖	⊖	⊖								

ISO	N		S							H			
Material Description	Non Metallic Masterials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast iron
VDI 3323	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc			15	30	25	38	34			55	60	42	55
HB			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend			⊖	⊖	⊖	⊖	⊖	⊖	⊖				



558 SERIES

Group #	Material Carbon Steel	Material Examples	Hardness	Low SFM	High SFM	Recommended Max% Stepoer 20 XD IA LOC	CT IPT					
							1/4"	3/8"	1/2"	5/8"	3/4"	1"
P1	Low-Carbon Steels	1018, 1108, 1117, A36 12L14, 1200's, 1500's	<300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P2	Medium & High Carbon Steels	1000-1200 SERIES	>285	250	750	Roughing	0.0016	0.0025	0.0031	0.0038	0.0047	0.0065
				300	800	Finishing - HEM	0.0012	0.0018	0.0022	0.0028	0.0035	0.0042
P3	Alloy Steels	4130, 4140, 5140, 6150, 8620	<330	300	800	Roughing	0.0014	0.0019	0.0026	0.0030	0.0037	0.0049
				300	600	Finishing - HEM	0.0016	0.0020	0.0028	0.0035	0.0040	0.0046
P4	Tool Steels	A2, P20, S7, H13, L6	<300	250	600	Roughing	0.0012	0.0018	0.0024	0.0028	0.0032	0.0041
				250	600	Finishing - HEM	0.001	0.0016	0.0020	0.0026	0.0030	0.0035
P5	Ferritic, Martensitic & PH Stainless Steels	400's, 15-5, 17-4, Custom 400's	>300	150	250	Roughing	0.0011	0.0018	0.2000	0.0022	0.0024	0.0030
				300	500	Finishing - HEM	0.0016	0.0020	0.0024	0.0027	0.0030	0.0033
M1	Austenitic Stainless Steels	Inox, 200 Series, 300 Series and 304L	<300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M2	Austenitic Stainless Steels & Cast Stainless Steels	310, 314, 316	<300	250	350	Roughing	0.0013	0.0019	0.0012	0.0031	0.0036	0.0048
				300	450	Finishing - HEM	0.0013	0.0018	0.0027	0.0032	0.0035	0.0038
M3	Duplex Steels (Austenitic & Ferritic)	255, 323, 329, 2202, 2205, 2304	<310	160	225	Roughing	0.0025	0.0032	0.0040	0.0048	0.0055	0.0061
				160	500	Finishing - HEM	0.0017	0.0020	0.0027	0.0032	0.0035	0.0039
K1	Cast Iron - Gray Low Strength	Class 20, 25, 30, 35, Grade G1800	<270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
K2	Cast Iron - Malleable Medium Strength	60-14-18, 65-45-12, M3210, M4504	<320	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
K3	Cast Iron - Nodular High Strength	32510, 40010, 5005, 70003, 90001	>300	180	375	Roughing	0.0006	0.0010	0.0015	0.0019	0.0027	0.0031
				300	600	Finishing - HEM	0.0008	0.0014	0.0020	0.0026	0.0033	0.0037
S1	Iron-Based, Heat-Resistant Alloys	A-286, INVAR, Discaloy, IN- COLOY 800-802, Nitronic	>200	150	300	Roughing	0.0010	0.0016	0.0021	0.0027	0.0030	0.0035
				150	300	Finishing - HEM	0.0011	0.0016	0.0020	0.0027	0.0034	0.0040
S2	Cobalt-Based, Heat- Resistant Alloys	Haynes 25, Haynes 188, Stellite, MAR-M302	>180	80	200	Roughing	0.0013	0.0018	0.0026	0.0028	0.0032	0.0043
				80	150	Finishing - HEM	0.0007	0.0009	0.0012	0.0016	0.0020	0.0026
S3	Nickel-Based, Heat- Resistant Alloys	HAST-C, Rene 41, Waspalloy, Monel, Nimonic, UDIMET, Inconel	>180	60	250	Roughing	0.0008	0.0014	0.0020	0.0026	0.0030	0.0037
				60	250	Finishing - HEM	0.0004	0.0013	0.0017	0.0022	0.0026	0.0031
S4	TITANIUM	Ti6AL4V	>270	160	275	Roughing	0.0014	0.0018	0.0023	0.0029	0.0036	0.0042
				300	425	Finishing - HEM	0.0012	0.0016	0.0021	0.0026	0.0032	0.0036
S4.2	TITANIUM	TITANIUM 10-2-3	<390	100	200	Roughing	0.0011	0.0016	0.0022	0.0027	0.0032	0.0038
				125	200	Finishing - HEM	0.0010	0.0013	0.0018	0.0023	0.0028	0.0033
H1	Hardened Tool Steels	D2, H13, S7	>360	300	500	Finishing - HEM	0.0019	0.0028	0.0037	0.0042	0.0045	0.0049
H2	Hardened Tool Steels	D2, H13, S7	>420	250	450	Finishing - HEM	0.0018	0.0025	0.0030	0.0033	0.0036	0.0039
H2	Hardened Tool Steels	D2, H13, S7	>485	175	300	Finishing - HEM	0.0008	0.0011	0.0018	0.0022	0.0025	0.0028
H2	Hardened Tool Steels	D2, H13, S7	>560	150	275	Finishing - HEM	0.0004	0.0004	0.0005	0.0007	0.0009	0.0010





MTi4 - PROFILING

Material Guide			Condition	SFM	FL	CHIP PER TOOTH								
						1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	High Speed Profiling @ Full Length Axial	450	4	0.0013	0.0018	0.0024	0.0031	0.0037	0.0049	0.0062	0.0074	0.0099
			Profiling @ Full Length Axial	325	4	0.0013	0.0017	0.0024	0.0031	0.0036	0.0047	0.0060	0.0071	0.0096
	Austenitic	302, 303, 304L, 316L	High Speed Profiling @ Full Length Axial	475	4	0.0015	0.0020	0.0029	0.0038	0.0044	0.0060	0.0074	0.0089	0.0119
			Profiling @ Full Length Axial	325	4	0.0015	0.0021	0.0028	0.0037	0.0043	0.0057	0.0071	0.0085	0.0114
	Martensitic	403, 410, 416	High Speed Profiling @ Full Length Axial	500	4	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	4	0.0015	0.0023	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122
ISO-P	High Strength Steels	4140, 4340, 52100	High Speed Profiling @ Full Length Axial	500	4	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	4	0.0015	0.0024	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	High Speed Profiling @ Full Length Axial	475	4	0.0012	0.0017	0.0023	0.0030	0.0034	0.0044	0.0056	0.0067	0.0090
			Profiling @ Full Length Axial	350	4	0.0014	0.0019	0.0025	0.0033	0.0039	0.0051	0.0064	0.0077	0.0103
	Medium Alloy Steels	200,250, 300	High Speed Profiling @ Full Length Axial	425	4	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	4	0.0015	0.0024	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122
	Low Alloy Steels-Maraging	10XX, 11XX, 13XX	High Speed Profiling @ Full Length Axial	525	4	0.0015	0.0024	0.0029	0.0038	0.0043	0.0058	0.0072	0.0087	0.0117
			Profiling @ Full Length Axial	400	4	0.0017	0.0025	0.0034	0.0044	0.0060	0.0066	0.0083	0.0100	0.0133
ISO-K	Ductile Iron	ASTM A536, ASTM 897	High Speed Profiling @ Full Length Axial	475	4	0.0011	0.0015	0.0021	0.0027	0.0032	0.0042	0.0053	0.0062	0.0083
			Profiling @ Full Length Axial	350	4	0.0013	0.0016	0.0024	0.0031	0.0036	0.0047	0.0060	0.0071	0.0096
	Cast Iron	SAE J431, ASTM A48	High Speed Profiling @ Full Length Axial	500	4	0.0013	0.0019	0.0024	0.0031	0.0037	0.0050	0.0062	0.0075	0.0100
			Profiling @ Full Length Axial	375	4	0.0015	0.0023	0.0028	0.0037	0.0043	0.0057	0.0071	0.0085	0.0114
ISO-S	Titanium Alloys	6AL-4V, ASTM 1, 2, 3, 6AL-2S	High Speed Profiling @ Full Length Axial	425	4	0.0012	0.0017	0.0023	0.0030	0.0034	0.0045	0.0057	0.0068	0.0090
			Profiling @ Full Length Axial	300	4	0.0012	0.0017	0.0022	0.0029	0.0034	0.0043	0.0055	0.0065	0.0087
For 5553, decrease SFM and IPM by 25%														



MTi4 - SLOTTING

Material Guide			Condition	SFM	FL	CHIP PER TOOTH								
						1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	Slotting @ ≤ 1 x D	250	4	0.0008	0.0013	0.0017	0.0022	0.0024	0.0033	0.0041	0.0050	0.0067
	Austenitic	302, 303, 304L, 316L	Slotting @ ≤ 1 x D	275	4	0.0010	0.0015	0.0019	0.0025	0.0030	0.0040	0.0050	0.0059	0.0079
	Martensitic	403, 410, 416	Slotting @ ≤ 1 x D	300	4	0.0011	0.0017	0.0021	0.0027	0.0031	0.0042	0.0053	0.0063	0.0085
ISO-P	High Strength Steels	4140, 4340, 52100	Slotting @ ≤ 1 x D	300	4	0.0011	0.0016	0.0021	0.0027	0.0031	0.0042	0.0053	0.0063	0.0085
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	Slotting @ ≤ 1 x D	275	4	0.0008	0.0013	0.0018	0.0024	0.0027	0.0035	0.0045	0.0053	0.0071
	Medium Alloy Steels	200,250, 300	Slotting @ ≤ 1 x D	325	4	0.0006	0.0006	0.0018	0.0024	0.0029	0.0036	0.0048	0.0061	0.0073
	Low Alloy Steels- Maraging	10XX, 11XX, 13XX	Slotting @ ≤ 1 x D	325	4	0.0012	0.0018	0.0023	0.0030	0.0035	0.0046	0.0058	0.0069	0.0092
ISO-K	Ductile Iron Ductile Cast Iron	ASTM A536, ASTM 897	Slotting @ ≤ 1 x D	400	4	0.0006	0.0010	0.0012	0.0016	0.0018	0.0024	0.0030	0.0036	0.0048
	Cast Iron Grey Cast Iron	SAE J431, ASTM A48	Slotting @ ≤ 1 x D	450	4	0.0007	0.0012	0.0015	0.0019	0.0022	0.0029	0.0036	0.0044	0.0058
ISO-S	Titanium Alloys	6AL-4V, ASTM 1, 2, 3, 6AL-2S	Slotting @ ≤ 1 x D	275	4	0.0007	0.0012	0.0016	0.0020	0.0023	0.0030	0.0038	0.0046	0.0061

For 5553, decrease SFM and IPM by 25%

Long and Extra Long LOC should have feed reduced by 50%



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MTi5 - PROFILING

Material Guide			Condition	SFM	FL	CHIP PER TOOTH									
						1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	High Speed Profiling @ Full Length Axial	450	5	0.0013	0.0018	0.0024	0.0031	0.0037	0.0049	0.0062	0.0074	0.0099	0.0123
			Profiling @ Full Length Axial	325	5	0.0013	0.0017	0.0024	0.0031	0.0036	0.0047	0.0060	0.0071	0.0096	0.0120
	Austenitic	302, 303, 304L, 316L	High Speed Profiling @ Full Length Axial	475	5	0.0015	0.0020	0.0029	0.0038	0.0044	0.0060	0.0074	0.0089	0.0119	0.0148
			Profiling @ Full Length Axial	325	5	0.0015	0.0021	0.0028	0.0037	0.0043	0.0057	0.0071	0.0085	0.0114	0.0143
	Martensitic	403, 410, 416	High Speed Profiling @ Full Length Axial	500	5	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106	0.0132
			Profiling @ Full Length Axial	375	5	0.0015	0.0023	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122	0.0152
ISO-P	High Strength Steels	4140, 4340, 52100	High Speed Profiling @ Full Length Axial	500	5	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106	0.0132
			Profiling @ Full Length Axial	375	5	0.0015	0.0024	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122	0.0152
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	High Speed Profiling @ Full Length Axial	475	5	0.0012	0.0017	0.0023	0.0030	0.0034	0.0044	0.0056	0.0067	0.0090	0.0113
			Profiling @ Full Length Axial	350	5	0.0014	0.0019	0.0025	0.0033	0.0039	0.0051	0.0064	0.0077	0.0103	0.0128
	Medium Alloy Steels	200,250, 300	High Speed Profiling @ Full Length Axial	425	5	0.0014	0.0020	0.0026	0.0034	0.0040	0.0053	0.0066	0.0080	0.0106	0.0132
			Profiling @ Full Length Axial	375	5	0.0015	0.0024	0.0030	0.0040	0.0045	0.0061	0.0076	0.0090	0.0122	0.0152
	Low Alloy Steels- Maraging	10XX, 11XX, 13XX	High Speed Profiling @ Full Length Axial	525	5	0.0015	0.0024	0.0029	0.0038	0.0043	0.0058	0.0072	0.0087	0.0117	0.0146
			Profiling @ Full Length Axial	400	5	0.0017	0.0025	0.0034	0.0044	0.0060	0.0066	0.0083	0.0100	0.0133	0.0167
ISO-K	Ductile Iron	ASTM A536, ASTM 897	High Speed Profiling @ Full Length Axial	475	5	0.0011	0.0015	0.0021	0.0027	0.0032	0.0042	0.0053	0.0062	0.0083	0.0104
			Profiling @ Full Length Axial	350	5	0.0013	0.0016	0.0024	0.0031	0.0036	0.0047	0.0060	0.0071	0.0096	0.0120
	Cast Iron	SAE J431, ASTM A48	High Speed Profiling @ Full Length Axial	500	5	0.0013	0.0019	0.0024	0.0031	0.0037	0.0050	0.0062	0.0075	0.0100	0.0124
			Profiling @ Full Length Axial	375	5	0.0015	0.0023	0.0028	0.0037	0.0043	0.0057	0.0071	0.0085	0.0114	0.0143
ISO-S	Titanium Alloys	6AL-4V, ASTM 1, 2, 3, 6AL-2S	High Speed Profiling @ Full Length Axial	425	5	0.0012	0.0017	0.0023	0.0030	0.0034	0.0045	0.0057	0.0068	0.0090	0.0113
			Profiling @ Full Length Axial	300	5	0.0012	0.0017	0.0022	0.0029	0.0034	0.0043	0.0055	0.0065	0.0087	0.0109

For 5553, decrease SFM and IPM by 25%
MTi5 Stepcor for Dynamic Milling shouldn't surpass 25% of Dia. inside



MTi5 - SLOTTING

Material Guide			Condition	SFM	FL	CHIP PER TOOTH									
						1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	Slotting @ ≤ 1 x D	250	5	0.0008	0.0013	0.0017	0.0022	0.0024	0.0033	0.0041	0.0050	0.0067	0.0083
	Austenitic	302, 303, 304L, 316L	Slotting @ ≤ 1 x D	275	5	0.0010	0.0015	0.0019	0.0025	0.0030	0.0040	0.0050	0.0059	0.0079	0.0098
	Martensitic	403, 410, 416	Slotting @ ≤ 1 x D	300	5	0.0011	0.0017	0.0021	0.0027	0.0031	0.0042	0.0053	0.0063	0.0085	0.0105
ISO-P	High Strength Steels	4140, 4340, 52100	Slotting @ ≤ 1 x D	300	5	0.0011	0.0016	0.0021	0.0027	0.0031	0.0042	0.0053	0.0063	0.0085	0.0105
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	Slotting @ ≤ 1 x D	275	5	0.0008	0.0013	0.0018	0.0024	0.0027	0.0035	0.0045	0.0053	0.0071	0.0090
	Medium Alloy Steels	200,250, 300	Slotting @ ≤ 1 x D	325	5	0.0006	0.0006	0.0018	0.0024	0.0029	0.0036	0.0048	0.0061	0.0073	0.0091
	Low Alloy Steels- Maraging	10XX, 11XX, 13XX	Slotting @ ≤ 1 x D	325	5	0.0012	0.0018	0.0023	0.0030	0.0035	0.0046	0.0058	0.0069	0.0092	0.0115
ISO-K	Ductile Iron	ASTM A536, ASTM 897	Slotting @ ≤ 1 x D	400	5	0.0006	0.0010	0.0012	0.0016	0.0018	0.0024	0.0030	0.0036	0.0048	0.0061
	Cast Iron	SAE J431, ASTM A48	Slotting @ ≤ 1 x D	450	5	0.0007	0.0012	0.0015	0.0019	0.0022	0.0029	0.0036	0.0044	0.0058	0.0073
ISO-S	Titanium Alloys	6AL-4V, ASTM 1, 2, 3, 6AL-2S	Slotting @ ≤ 1 x D	275	5	0.0007	0.0012	0.0016	0.0020	0.0023	0.0030	0.0038	0.0046	0.0061	0.0076

For 5553, decrease SFM and IPM by 25%
Long and Extra Long LOC should have feed reduced by 50%





MNi4

Material Guide			Condition	SFM	CHIP PER TOOTH									
					FL	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	Slotting @ ≤ 1 x D	225	4	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	225	4	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
	Austenitic	302, 303, 304L, 316L	Slotting @ ≤ 1 x D	225	4	0.0007	0.0010	0.0013	0.0016	0.0020	0.0026	0.0033	0.0040	0.0053
			Profiling @ 2 x D Axial / ≤ .15 D Radial	250	4	0.0009	0.0013	0.0018	0.0021	0.0026	0.0035	0.0044	0.0053	0.0070
	Martensitic	403, 410, 416	Slotting @ ≤ 1 x D	300	4	0.0007	0.0011	0.0014	0.0017	0.0021	0.0028	0.0035	0.0042	0.0056
			Profiling @ 2 x D Axial / ≤ .15 D Radial	325	4	0.0009	0.0014	0.0018	0.0022	0.0027	0.0036	0.0045	0.0054	0.0072
ISO-S	Cobalt Base	Stellite, Haynes 25, 188, X-40, L-605	Slotting @ .5 x D	95	4	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	150	4	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
	Nickel Base	Inconel 600, 625, 718, Nickel 200, 270, Invar, Monel 400, 405, K-Monel, PermaNickel 300, Inconel 600	Slotting @ .5 x D	95	4	0.0007	0.0010	0.0013	0.0016	0.0020	0.0026	0.0033	0.0040	0.0053
			Profiling @ 2 x D Axial / ≤ .15 D Radial	150	4	0.0009	0.0013	0.0018	0.0021	0.0026	0.0035	0.0044	0.0053	0.0070
	Iron Base	Incoloy 800-802, Multimet N-155, Timken 16-26-6	Slotting @ .5 x D	95	4	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	130	4	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
ISO-P	High Strength Steels	4140, 4340, 52100	Slotting @ ≤ 1 x D	325	4	0.0004	0.0006	0.0008	0.0010	0.0012	0.0016	0.0020	0.0024	0.0032
			Profiling @ 2 x D Axial / ≤ .15 D Radial	400	4	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	Slotting @ ≤ 1 x D	275	4	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	350	4	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064



MNi5

Material Guide			Condition	SFM	FL	CHIP PER TOOTH								
						1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	Slotting @ ≤ 1 x D	225	5	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	225	5	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
	Austenitic	302, 303, 304L, 316L	Slotting @ ≤ 1 x D	225	5	0.0007	0.0010	0.0013	0.0016	0.0020	0.0026	0.0033	0.0040	0.0053
			Profiling @ 2 x D Axial / ≤ .15 D Radial	250	5	0.0009	0.0013	0.0018	0.0021	0.0026	0.0035	0.0044	0.0053	0.0070
	Martensitic	403, 410, 416	Slotting @ ≤ 1 x D	300	5	0.0007	0.0011	0.0014	0.0017	0.0021	0.0028	0.0035	0.0042	0.0056
			Profiling @ 2 x D Axial / ≤ .15 D Radial	325	5	0.0009	0.0014	0.0018	0.0022	0.0027	0.0036	0.0045	0.0054	0.0072
ISO-S	Cobalt Base	Stellite, Haynes 25, 188, X-40, L-605	Slotting @ .5 x D	95	5	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	150	5	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
	Nickel Base	Inconel 600, 625, 718, Nickel 200, 270, Invar, Monel 400, 405, K-Monel, PermaNickel 300, Inconel 600	Slotting @ .5 x D	95	5	0.0007	0.0010	0.0013	0.0016	0.0020	0.0026	0.0033	0.0040	0.0053
			Profiling @ 2 x D Axial / ≤ .15 D Radial	150	5	0.0009	0.0013	0.0018	0.0021	0.0026	0.0035	0.0044	0.0053	0.0070
	Iron Base	Incoloy 800-802, Multimet N-155,Timken 16-26-6	Slotting @ .5 x D	95	5	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	130	5	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064
ISO-P	High Strength Steels	4140, 4340, 52100	Slotting @ ≤ 1 x D	325	5	0.0004	0.0006	0.0008	0.0010	0.0012	0.0016	0.0020	0.0024	0.0032
			Profiling @ 2 x D Axial / ≤ .15 D Radial	400	5	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	Slotting @ ≤ 1 x D	275	5	0.0006	0.0009	0.0012	0.0014	0.0018	0.0024	0.0030	0.0036	0.0048
			Profiling @ 2 x D Axial / ≤ .15 D Radial	350	5	0.0008	0.0012	0.0016	0.0019	0.0024	0.0032	0.0040	0.0048	0.0064





MTi7 - PROFILING

Material Guide			Condition	SFM	FL	CHIP PER TOOTH							
						1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
ISO-M	Precipitation	13-8, 15-5, 17-4PH	High Speed Profiling @ Full Length Axial	450	7	0.0013	0.0018	0.0024	0.0037	0.0049	0.0062	0.0074	0.0099
			Profiling @ Full Length Axial	325	7	0.0013	0.0017	0.0024	0.0036	0.0047	0.0060	0.0071	0.0096
	Austenitic	302, 303, 304L, 316L	High Speed Profiling @ Full Length Axial	475	7	0.0015	0.0020	0.0029	0.0044	0.0060	0.0074	0.0089	0.0119
			Profiling @ Full Length Axial	325	7	0.0015	0.0021	0.0028	0.0043	0.0057	0.0071	0.0085	0.0114
	Martensitic	403, 410, 416	High Speed Profiling @ Full Length Axial	500	7	0.0014	0.0020	0.0026	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	7	0.0015	0.0023	0.0030	0.0045	0.0061	0.0076	0.0090	0.0122
ISO-P	High Strength Steels	4140, 4340, 52100	High Speed Profiling @ Full Length Axial	500	7	0.0014	0.0020	0.0026	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	7	0.0015	0.0024	0.0030	0.0045	0.0061	0.0076	0.0090	0.0122
	High Alloy Steels Mold & Die	A-2, P20, 01, 02, D2, H-13	High Speed Profiling @ Full Length Axial	475	7	0.0012	0.0017	0.0023	0.0034	0.0044	0.0056	0.0067	0.0090
			Profiling @ Full Length Axial	350	7	0.0014	0.0019	0.0025	0.0039	0.0051	0.0064	0.0077	0.0103
	Medium Alloy Steels	200,250, 300	High Speed Profiling @ Full Length Axial	425	7	0.0014	0.0020	0.0026	0.0040	0.0053	0.0066	0.0080	0.0106
			Profiling @ Full Length Axial	375	7	0.0015	0.0024	0.0030	0.0045	0.0061	0.0076	0.0090	0.0122
	Low Alloy Steels-Maraging	10XX, 11XX, 13XX	High Speed Profiling @ Full Length Axial	525	7	0.0015	0.0024	0.0029	0.0043	0.0058	0.0072	0.0087	0.0117
			Profiling @ Full Length Axial	400	7	0.0017	0.0025	0.0034	0.0060	0.0066	0.0083	0.0100	0.0133
ISO-K	Ductile Iron	ASTM A536, ASTM 897	High Speed Profiling @ Full Length Axial	475	7	0.0011	0.0015	0.0021	0.0032	0.0042	0.0053	0.0062	0.0083
	Ductile Cast Iron		Profiling @ Full Length Axial	350	7	0.0013	0.0016	0.0024	0.0036	0.0047	0.0060	0.0071	0.0096
	Cast Iron	SAE J431, ASTM A48	High Speed Profiling @ Full Length Axial	500	7	0.0013	0.0019	0.0024	0.0037	0.0050	0.0062	0.0075	0.0100
	Grey Cast Iron		Profiling @ Full Length Axial	375	7	0.0015	0.0023	0.0028	0.0043	0.0057	0.0071	0.0085	0.0114
ISO-S	Titanium Alloys	6AL-4V, ASTM 1, 2, 3, 6AL-2S	High Speed Profiling @ Full Length Axial	425	7	0.0012	0.0017	0.0023	0.0034	0.0045	0.0057	0.0068	0.0090
			Profiling @ Full Length Axial	300	7	0.0012	0.0017	0.0022	0.0034	0.0043	0.0055	0.0065	0.0087

For 5553, decrease SFM and IPM by 25%
MTi7 Steptover for Dynamic Milling shouldn't surpass 10% of Dia and Should be 7% or less



MAL3

Material Guide			Condition	SFM	CHIP PER TOOTH								
					1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-N	Wrought Aluminum Alloys	6061-T6/T651, 7075-T6, 2024-T4/T6, 2014	Slotting	1800	0.0012	0.0018	0.0020	0.0024	0.0032	0.0041	0.0040	0.0048	0.0082
			≤ 65% Dia. Profiling	2400	0.0015	0.0024	0.0032	0.0048	0.0047	0.0056	0.0080	0.0096	0.0112
	Cast Aluminum Alloys	319, 328, 360, 383	Slotting	900	0.0012	0.0018	0.0022	0.0024	0.0034	0.0045	0.0040	0.0048	0.0090
			≤ 65% Dia. Profiling	1200	0.0015	0.0024	0.0028	0.0048	0.0043	0.0055	0.0080	0.0096	0.0110
	Copper	Red Brass, High Lead Brass, Yellow Brass, C-17200, Navel Brass, A-17, High Silicon Bronze	Slotting	475	0.0008	0.0008	0.0016	0.0020	0.0024	0.0030	0.0032	0.0032	0.0060
			≤ 65% Dia. Profiling	625	0.0011	0.0011	0.0022	0.0028	0.0033	0.0040	0.0045	0.0045	0.0080
	Copper Alloys	Low Silicon Bronze, Alum/Bronze, Beryllium Copper, Nickel Silver, Oxygen-Free Copper	Slotting	425	0.0008	0.0008	0.0016	0.0020	0.0024	0.0030	0.0032	0.0032	0.0060
			≤ 65% Dia. Profiling	600	0.0011	0.0011	0.0022	0.0028	0.0033	0.0040	0.0045	0.0045	0.0080
	Magnesium		Slotting	1400	0.0012	0.0018	0.0020	0.0024	0.0032	0.0042	0.0048	0.0064	0.0084
			≤ 65% Dia. Profiling	1600	0.0015	0.0024	0.0032	0.0048	0.0047	0.0056	0.0080	0.0096	0.0112
	Plastics	Acrylics, Polycarbonate, Phenolics	Slotting	600	0.0020	0.0024	0.0032	0.0048	0.0052	0.0056	0.0080	0.0096	0.0112
			≤ 15% Dia. Profiling	800	0.0008	0.0016	0.0024	0.0032	0.0032	0.0060	0.0064	0.0080	0.0120



MAL3R

Material Guide			Condition	SFM	CHIP PER TOOTH								
					1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
ISO-N	Wrought Aluminum Alloys	6061-T6/T651, 7075-T6, 2024-T4/T6, 2014	Slotting	1800	0.0012	0.0018	0.0020	0.0024	0.0032	0.0041	0.0040	0.0048	0.0082
			≤ 75% Dia. Profiling	2400	0.0015	0.0024	0.0032	0.0048	0.0047	0.0056	0.0080	0.0096	0.0112
	Cast Aluminum Alloys	319, 328, 360, 383	Slotting	900	0.0012	0.0018	0.0022	0.0024	0.0034	0.0045	0.0040	0.0048	0.0090
			≤ 75% Dia. Profiling	1200	0.0015	0.0024	0.0028	0.0048	0.0043	0.0055	0.0080	0.0096	0.0110
	Copper	Red Brass, High Lead Brass, Yellow Brass, C-17200, Navel Brass, A-17, High Silicon Bronze	Slotting	475	0.0008	0.0008	0.0016	0.0020	0.0024	0.0030	0.0032	0.0032	0.0060
			≤ 75% Dia. Profiling	625	0.0011	0.0011	0.0022	0.0028	0.0033	0.0040	0.0045	0.0045	0.0080
	Copper Alloys	Low Silicon Bronze, Alum/Bronze, Beryllium Copper, Nickel Silver, Oxygen-Free Copper	Slotting	425	0.0008	0.0008	0.0016	0.0020	0.0024	0.0030	0.0032	0.0032	0.0060
			≤ 70% Dia. Profiling	600	0.0011	0.0011	0.0022	0.0028	0.0033	0.0040	0.0045	0.0045	0.0080
	Magnesium		Slotting	1400	0.0012	0.0018	0.0020	0.0024	0.0032	0.0042	0.0048	0.0064	0.0084
			≤ 75% Dia. Profiling	1600	0.0015	0.0024	0.0032	0.0048	0.0047	0.0056	0.0080	0.0096	0.0112
	Plastics	Acrylics, Polycarbonate, Phenolics	Slotting	600	0.0020	0.0024	0.0032	0.0048	0.0052	0.0056	0.0080	0.0096	0.0112
			≤ 15% Dia. Profiling	800	0.0008	0.0016	0.0024	0.0032	0.0032	0.0060	0.0064	0.0080	0.0120





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