

## Zero Flute Series 67

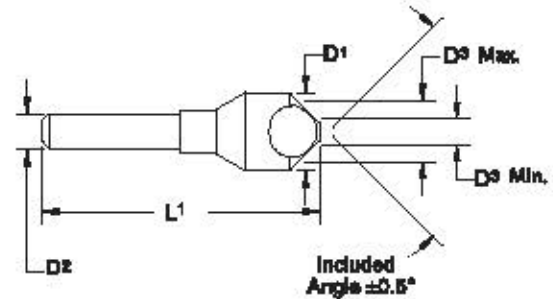
HSS

Z0



Designed for general purpose countersinking, chamfering or deburring.

- Efficient stock removal, chatter-free finish.
- 3/16" and 1/4" tools are double ended.
- Bright finish helps reduce chip build-up on cutting edge.



60°		82°		90°		Diameter		Shank		Non-Cutting OD		DAL
Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	D1	D2	D3 Min.**	D3 Max.	L1		
67018701	67001	67018702	67006	67018703	67011	3/16	3/16	.06	.17	1-1/2		
67025001	67016	67025002	67021	67025003	67026	1/4	1/4	.09	.23	2		
67043701	67031	67043702	67036	67043703	67041	7/16	1/4	.15	.40	2		
67056201	67046	67056202	67051	67056203	67056	9/16	1/4	.19	.53	2		
67081201	67061	67081202	67066	67081203	67071	13/16	1/2	.25	.78	2-5/8		
67112501	67076	67112502	67081	67112503	67086	1-1/8	1/2	.44	1.03	2-7/8		
67150001	67091	67150002	67096	67150003	67101	1-1/2	1/2	.50	1.46	3-1/2		

\*\*15% to 30% greater for 60° countersinks only.

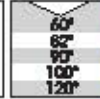


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## Chatterless Six Flute Series 78

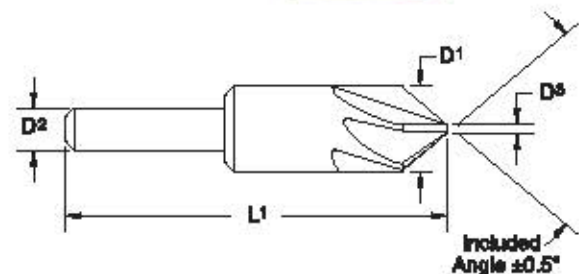
C

Z6



Solid Carbide construction (steel shanks on tools 3/8" diameter and larger) makes this countersink ideal for hardened steel, high temperature alloys and other tough jobs.

- Rigid set-ups and good machine tool maintenance are a must.
- Not recommended for handheld applications.



60°		82°		90°		100°		120°		Dia.	Shank	Non-Cutting OD	DAL
Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	D1	D2	D3 Max.	L1
78012501	78001	78012502	78006	78012503	78011	78012504	78016	78012506	78021	1/8	1/8	0.03	1-1/2
78018701	78026	78018702	78031	78018703	78036	78018704	78041	78018706	78046	3/16	3/16	0.04	1-1/2
78025001	78051	78025002	78056	78025003	78061	78025004	78066	78025006	78071	1/4	1/4	0.06	2
78037501	78076	78037502	78081	78037503	78086	78037504	78091	78037506	78096	3/8	1/4	0.09	2
78050001	78101	78050002	78106	78050003	78111	78050004	78116	78050006	78121	1/2	3/8	0.15	2-1/4
78062501	78126	78062502	78131	78062503	78136	78062504	78141	78062506	78146	5/8	3/8	0.18	2-3/8
78075001	78151	78075002	78156	78075003	78161	78075004	78166	78075006	78171	3/4	1/2	0.21	2-3/4
78100001	78176	78100002	78181	78100003	78186	78100004	78191	78100006	78196	1	1/2	0.25	2-3/4
78125001	78201	78125002	78206	78125003	78211					1-1/4	1/2*	0.37	3
78150001	78216	78150002	78221	78150003	78226					1-1/2	3/4*	0.43	3-1/2

\*Straight shank with bag drive.