

# CrazyDrill Pilot SST-Inox - 3 x d - 90° countersink

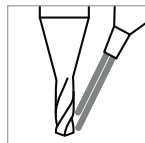
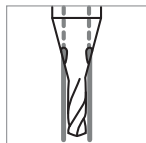
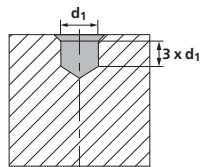
RECOMMENDATION FOR USE

● Excellent | ● Good | ○ Acceptable | ⊗ Not recommended

P	N	S <sub>3</sub>
M	S <sub>1</sub>	H <sub>1</sub>
K	S <sub>2</sub>	H <sub>2</sub>

## DRILLING WITH INTEGRATED COOLING | CUTTING DATA OVERVIEW

Materials group	Material	AISI/ASTM/UNS	v <sub>c</sub> [m/min]   [SFM]	f [mm/rev]   [IPR]									
				Ød1 0.3 mm   .012" f	Ød1 0.5 mm   .020" f	Ød1 0.8 mm   .032" f	Ød1 1.0 mm   .039" f	Ød1 1.2 mm   .047" f	Ød1 1.4 mm   .055" f	Ød1 1.6 mm   .063" f	Ød1 1.8 mm   .071" f	Ød1 2.0 mm   .079" f	
P	Unalloyed carbon steel Rm < 800 N/mm²	AISI 1010											
		AISI 1015											
		AISI 1045											
		AISI 1020											
		AISI 1215											
	Low alloyed steel Rm > 900 N/mm²	ASTM 3415 / AISI 3310											
		AISI 5115											
		AISI 52100											
		AISI 4140											
		AISI O2											
	High alloyed tool steel Rm < 1200 N/mm²	AISI D2											
		AISI D4/D6 AISI M2 / UNS T11302 AISI T1 / UNS T12001											
M	Stainless steel ferritic	AISI 430 / UNS S43000	35 – 50   115 – 164	0.015   .0006	0.020   .0008	0.030   .0012	0.035   .0014	0.040   .0016	0.050   .0020	0.055   .0022	0.060   .0024	0.070   .0028	
		AISI 430F											
	Stainless steel martensitic	AISI 420C	35 – 50   115 – 164	0.020   .0008	0.030   .0012	0.040   .0016	0.055   .0022	0.060   .0024	0.070   .0028	0.075   .0030	0.080   .0031	0.100   .0039	
		AISI 440B											
	Stainless steel martensitic – PH	AISI 630 / ASTM 17-4 PH	35 – 50   115 – 164	0.015   .0006	0.020   .0008	0.025   .0010	0.030   .0012	0.040   .0016	0.050   .0020	0.055   .0022	0.060   .0024	0.070   .0028	
		ASTM 15-5 PH											
	Stainless steel austenitic	AISI 304	30 – 45   98 – 148	0.010   .0004	0.020   .0008	0.025   .0010	0.030   .0012	0.035   .0014	0.045   .0018	0.050   .0020	0.055   .0022	0.060   .0024	
		AISI 316L											
AISI 316LM AISI 904L													
K	Cast iron	ASTM 30											
		ASTM 40B											
		ASTM 60-40-18											
		ASTM 80-60-03											



**Note:**  
In case of external cooling reduce v<sub>c</sub> and f of 20%

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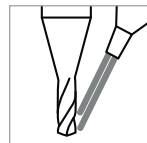
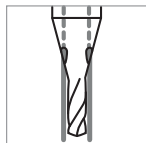
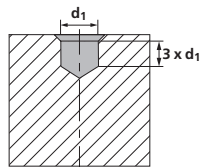
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## DRILLING WITH INTEGRATED COOLING | CUTTING DATA OVERVIEW

Materials group	Material	AISI/ASTM/UNS	v <sub>c</sub> [m/min]   [SFM]	f [mm/rev]   [IPR]									
				Ød1 0.3 mm   .012" f	Ød1 0.5 mm   .020" f	Ød1 0.8 mm   .032" f	Ød1 1.0 mm   .039" f	Ød1 1.2 mm   .047" f	Ød1 1.4 mm   .055" f	Ød1 1.6 mm   .063" f	Ød1 1.8 mm   .071" f	Ød1 2.0 mm   .079" f	
N	Aluminium alloy wrought	ASTM 6351 ASTM 7075											
	Aluminium alloy cast	ASTM A380 UNS A03590											
	Copper	UNS C10100 UNS C11000	40 – 100   131 – 328	0.040   .0016	0.060   .0024	0.080   .0031	0.090   .0035	0.100   .0039	0.120   .0047	0.140   .0055	0.160   .0063	0.180   .0071	
	Brass lead free	UNS C27400 UNS C28000	40 – 100   131 – 328	0.040   .0016	0.060   .0024	0.080   .0031	0.090   .0035	0.100   .0039	0.120   .0047	0.140   .0055	0.160   .0063	0.180   .0071	
	Brass, Bronze Rm < 400 N/mm²	UNS C38500 UNS C51900											
	Bronze Rm < 600 N/mm²	UNS C63000 UNS C63200											
S <sub>1</sub>	Super alloys	Inconel 625	15 – 30   49 – 98	0.010   .0004	0.015   .0006	0.020   .0008	0.022   .0009	0.025   .0010	0.035   .0014	0.037   .0015	0.045   .0018	0.055   .0022	
		Inconel 718											
		Hastelloy B-2											
		Hastelloy X											
S <sub>2</sub>	Titanium pure	ASTM B348 / F67											
		ASTM B348 / F68											
S <sub>3</sub>	Titanium alloys	ASTM B348 / F136											
		ASTM F1295											
H <sub>1</sub>	CrCo alloys	Haynes 25	40 – 50   131 – 164	0.020   .0008	0.030   .0012	0.040   .0016	0.055   .0022	0.060   .0024	0.070   .0028	0.075   .0030	0.080   .0031	0.100   .0039	
		ASTM F1537											
H <sub>2</sub>	Hardened steel < 55 HRC	AISI O1											
		Hardened steel ≥ 55 HRC	AISI D2										



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