



Being the best through innovation

HSS-PM

MULTI-1 DRILLS

- Premium HSS-PM Drills
- For Wide Range of Applications Particularly Stainless Steels and Titanium



MULTI-1 DRILLS

RECOMMENDED CUTTING CONDITIONS

CDRA05, CDRA06, CDRA07 SERIES

MULTI-1 DRILLS

SFM = ft/min.
RPM = rev./min.
FEED = inch/rev.

ISO	VDI 3323	Material Description	SFM	Drill Diameter														
				METRIC	2.0	3.0	-	4.0	-	5.0	6.0	-	8.0	-	10.0	12.0	-	
				FRACTIONAL	-	-	1/8	-	3/16	-	1/4	5/16	-	3/8	-	-	-	1/2
				DECIMAL	.0787	.1181	.1250	.1575	.1875	.1969	.2362	.2500	.3125	.3150	.3750	.3937	.5000	
P	1	Non-alloy steel	130	RPM	6370	4240	3180	2550	2120	1590	1270	1060						
			FEED	.0012-.0024	.0031-.0047	.0035-.0059	.0047-.0071	.0055-.0079	.0071-.0094	.0071-.0110	.0079-.0118							
			120	RPM	5570	3710	2790	2230	1860	1390	1110	930						
	2	Non-alloy steel	120	FEED	.0012-.0024	.0031-.0047	.0035-.0059	.0047-.0071	.0055-.0079	.0071-.0094	.0071-.0110	.0079-.0118						
			120	RPM	5570	3710	2790	2230	1860	1390	1110	930						
			FEED	.0012-.0024	.0031-.0047	.0035-.0059	.0047-.0071	.0055-.0079	.0071-.0094	.0071-.0110	.0079-.0118							
	3	Non-alloy steel	120	RPM	5570	3710	2790	2230	1860	1390	1110	930						
			FEED	.0012-.0024	.0031-.0047	.0035-.0059	.0047-.0071	.0055-.0079	.0071-.0094	.0071-.0110	.0079-.0118							
			6	RPM	5570	3710	2790	2230	1860	1390	1110	930						
6	Low alloy steel	120	FEED	.0012-.0024	.0031-.0047	.0035-.0059	.0047-.0071	.0055-.0079	.0071-.0094	.0071-.0110	.0079-.0118							
		100	RPM	4770	3180	2390	1910	1590	1190	950	800							
		FEED	.0012-.0020	.0024-.0039	.0028-.0051	.0039-.0063	.0047-.0071	.0055-.0079	.0055-.0094	.0063-.0102								
7	Low alloy steel	80	RPM	3980	2650	1990	1590	1330	990	800	660							
		FEED	.0008-.0020	.0012-.0028	.0016-.0039	.0024-.0047	.0028-.0051	.0039-.0079	.0047-.0087	.0055-.0094								
8	Low alloy steel	70	RPM	3180	2120	1590	1270	1060	800	640	530							
		FEED	.0008-.0020	.0012-.0028	.0016-.0039	.0024-.0047	.0028-.0051	.0039-.0079	.0047-.0087	.0055-.0094								
9	Low alloy steel	70	RPM	3180	2120	1590	1270	1060	800	640	530							
		FEED	.0008-.0020	.0012-.0028	.0016-.0039	.0024-.0047	.0028-.0051	.0039-.0079	.0047-.0087	.0055-.0094								
M	12	Stainless steel	70	RPM	3180	2120	1590	1270	1060	800	640	530						
			FEED	.0012-.0028	.0020-.0035	.0024-.0047	.0035-.0059	.0047-.0071	.0071-.0094	.0079-.0118	.0102-.0142							
14	Stainless steel	50	RPM	2390	1590	1190	950	800	600	480	400							
		FEED	.0008-.0020	.0012-.0028	.0016-.0039	.0024-.0047	.0028-.0051	.0039-.0079	.0047-.0087	.0055-.0094								
K	15	Grey cast iron	130	RPM	6370	4240	3180	2550	2120	1590	1270	1060						
			FEED	.0016-.0039	.0028-.0051	.0035-.0059	.0047-.0071	.0051-.0075	.0071-.0094	.0079-.0118	.0087-.0126							
N	21	Aluminum-wrought alloy	300	RPM	14320	9550	7160	5730	4770	3580	2860	2390						
			FEED	.0051-.0067	.0091-.0106	.0106-.0130	.0130-.0154	.0157-.0181	.0177-.0201	.0201-.0240	.0248-.0287							
	22	Aluminum-wrought alloy	300	RPM	14320	9550	7160	5730	4770	3580	2860	2390						
			FEED	.0051-.0067	.0091-.0106	.0106-.0130	.0130-.0154	.0157-.0181	.0177-.0201	.0201-.0240	.0248-.0287							
23	Aluminum-cast, alloyed	260	RPM	12730	8490	6370	5090	4240	3180	2550	2120							
		FEED	.0051-.0067	.0091-.0106	.0106-.0130	.0130-.0154	.0157-.0181	.0177-.0201	.0201-.0240	.0248-.0287								
24	Aluminum-cast, alloyed	230	RPM	11140	7430	5570	4460	3710	2790	2230	1860							
		FEED	.0039-.0055	.0059-.0075	.0079-.0102	.0094-.0118	.011-.0134	.0118-.0142	.0134-.0173	.0142-.0181								
S	36	Titanium Alloys	20	RPM	800	530	400	320	270	200	160	130						
			FEED	.0008-.0020	.0012-.0028	.0016-.0031	.0024-.0047	.0028-.0051	.0035-.0059	.0047-.0087	.0055-.0094							