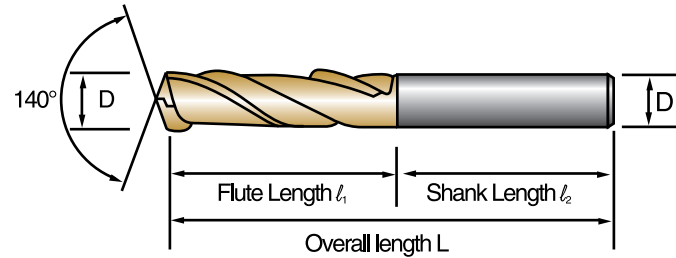
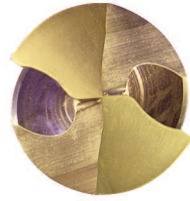


MDS-SP Series Solid Carbide Drills



Burr problems can be solved by decreasing your feed rate by 50% upon breakthrough.



MDS

KDS

WDS

SMD

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Drill Adapters & Holders

MDS-SP

Cat. No.	Cutting Diameter			Dimensions		
	Fractional Wire & Letters	Metric	Decimal D	Overall Length L	Flute Length $l_1$	Shank Length $l_2$
MDS028SP		2.8mm	.1102	1-49/64	19/32	1-3/16
MDS1110SP	#34		.1110			
MDS1130SP	#33		.1130			
MDS1160SP	#32		.1160			
MDS030SP		3.0mm	.1181	1-57/64	43/64	1-9/32
MDS1200SP	#31		.1200			
MDS1250SP	1/8		.1250			
MDS032SP		3.2mm	.1260			
MDS1285SP	#30		.1285	2	3/4	1-1/4
MDS1360SP	#29		.1360			
MDS035SP		3.5mm	.1378			
MDS1405SP	#28		.1405			
MDS1406SP	9/64		.1406	2-1/8	53/64	1-19/64
MDS036SP		3.6mm	.1417			
MDS1440SP	#27		.1440			
MDS1470SP	#26		.1470			
MDS1495SP	#25		.1495	2-1/4	29/32	1-11/32
MDS1520SP	#24		.1520			
MDS039SP		3.9mm	.1535			
MDS1540SP	#23		.1540			
MDS1562SP	5/32		.1562	2-1/4	29/32	1-11/32
MDS1570SP	#22		.1570			
MDS040SP		4.0mm	.1575			
MDS1590SP	#21		.1590			
MDS1610SP	#20		.1610	2-23/32	1-3/16	1-17/32
MDS041SP		4.1mm	.1614			
MDS1660SP	#19		.1660			
MDS1695SP	#18		.1695			
MDS1719SP	11/64		.1719	2-7/8	1-19/64	1-37/64
MDS1730SP	#17		.1730			
MDS044SP		4.4mm	.1732			
MDS1770SP	#16		.1770			
MDS045SP		4.5mm	.1772	3-5/64	1-27/64	1-21/32
MDS1800SP	#15		.1800			
MDS068SP*		6.8mm	.2677			
MDS077SP*		7.7mm	.3031			
MDS130SP*		13.0mm	.5118	3-15/16	1-59/64	2
MDS145SP*		14.5mm	.5709			
MDS150SP*		15.0mm	.5906			
MDS170SP*		17.0mm	.6693			
MDS175SP*		17.5mm	.6890	4-1/4	2-3/32	2-5/32
MDS2130SP	#3		.2130			
MDS055SP		5.5mm	.2165			
MDS2188SP	7/32		.2188			
MDS056SP		5.6mm	.2205	2-9/16	1-1/16	1-1/2
MDS2210SP	#2		.2210			
MDS2280SP	#1		.2280			
MDS2340SP	#A		.2340			
MDS2344SP	15/64		.2344	2-23/32	1-3/16	1-17/32
MDS060SP		6.0mm	.2362			
MDS2380SP	#B		.2380			
MDS2420SP	#C		.2420			
MDS2460SP	#D		.2460	4-9/16	2-1/4	2-21/64
MDS066SP*		6.6mm	.2667			
MDS077SP*		7.7mm	.3031			
MDS130SP*		13.0mm	.5118			
MDS145SP*		14.5mm	.5709	4-23/32	2-21/64	2-13/32
MDS150SP*		15.0mm	.5906			
MDS170SP*		17.0mm	.6693			
MDS175SP*		17.5mm	.6890			

(continued on next page)

MDS-SP Series Solid Carbide Drills



Tolerances of Diameters (in.)		Tolerances of Diameters (in.)	
$D \leq .118$	+0 -.00055	$.394 < D \leq .709$	+0 -.00106
$.118 < D \leq .236$	+0 -.00071	$.709 < D \leq .768$	+0 -.00130
$.236 < D \leq .394$	+0 -.00087		

(continued from previous page)

MDS-SP

Cat. No.	Cutting Diameter			Dimensions		
	Fractional Wire & Letters	Metric	Decimal D	Overall Length L	Flute Length $l_1$	Shank Length $l_2$
MDS046SP		4.6mm	.1811	2-1/4	29/32	1-11/32
MDS1820SP	#14		.1820			
MDS1850SP	#13		.1850			
MDS1875SP	3/16		.1875			
MDS1890SP	#12		.1890	2-13/32	63/64	1-27/64
MDS1910SP	#11		.1910			
MDS1935SP	#10		.1935			
MDS1960SP	#9		.1960			
MDS050SP		5.0mm	.1969	2	3/4	1-1/4
MDS1990SP	#8		.1990			
MDS2010SP	#7		.2010			
MDS2031SP	13/64		.2031			
MDS2040SP	#6		.2040	2-9/16	1-1/16	1-1/2
MDS052SP		5.2mm	.2047			
MDS2055SP	#5		.2055			
MDS2090SP	#4		.2090			
MDS2130SP	#3		.2130	2-23/32	1-3/16	1-17/32
MDS055SP		5.5mm	.2165			
MDS2188SP	7/32		.2188			
MDS056SP		5.6mm	.2205			
MDS2210SP	#2		.2210	2-7/8	1-19/64	1-37/64
MDS2280SP	#1		.2280			
MDS2340SP	#A		.2340			
MDS2344SP	15/64		.2344			
MDS060SP		6.0mm	.2362	3-5/64	1-27/64	1-21/32
MDS2380SP	#B		.2380			
MDS2420SP	#C		.2420			
MDS2460SP	#D		.2460			
MDS066SP*		6.6mm	.2667	3-15/16	1-59/64	2
MDS077SP*		7.7mm	.3031			
MDS130SP*		13.0mm	.5118			
MDS145SP*		14.5mm	.5709			
MDS150SP*		15.0mm	.5906	4-1/4	2-3/32	2-5/32
MDS170SP*		17.0mm	.6693			
MDS175SP*		17.5mm	.6890			
MDS2130SP	#3		.2130			
MDS055SP		5.5mm	.2165	4-9/16	2-1/4	2-21/64
MDS2188SP	7/32		.2188			
MDS056SP		5.6mm	.2205			
MDS2210SP	#2		.2210			
MDS2280SP	#1		.2280	4-23/32	2-21/64	2-13/32
MDS2340SP	#A		.2340			
MDS2344SP	15/64		.2344			
MDS060SP		6.0mm	.2362			
MDS2380SP	#B		.2380	4-1/4	2-3/32	2-5/32
MDS2420SP	#C		.2420			
MDS2460SP	#D		.2460			
MDS066SP*		6.6mm	.2667			
MDS077SP*		7.7mm	.3031	4-9/16	2-1/4	2-21/64
MDS130SP*		13.0mm	.5118			
MDS145SP*		14.5mm	.5709			
MDS150SP*		15.0mm	.5906			
MDS170SP*		17.0mm	.6693	4-23/32	2-21/64	2-13/32
MDS175SP*		17.5mm	.6890			

\* Non-standard, please check for availability.

MDS

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