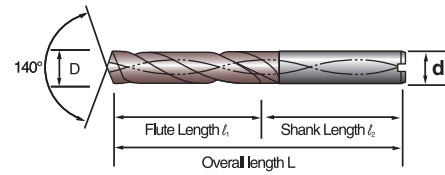


# MDS-MHV Series Solid Carbide Drills



**MDS-MHV** Standard length drill with internal coolant holes for smooth chip flow at high speeds.

MDS	Cat. No.	Cutting Diameter		Dimensions			
		Fractional Wire & Letters	Metric	Decimal D	Shank Diameter d	Flute Length L <sub>f</sub>	Shank Length L <sub>s</sub>
	MDS015MHV		1.5mm	.0591	.1181	19/32 (.594)	2-31/64 (2.484)
	MDS020MHV		2.0mm	.0787	.1181		
	MDS025MHV		2.5mm	.0984	.1181		
KDS	MDS1094MHV	7/64		.1094	.1250	45/64 (.703)	1-57/64 (1.891)
	MDS028MHV		2.8mm	.1102	.1181		
	MDS030MHV		3.0mm	.1181	.1181		
	MDS1250MHV	1/8		.1250	.1562	57/64 (.891)	2-53/64 (2.828)
	MDS1562MHV	5/32		.1562	.1562		
	MDS040MHV		4.0mm	.1575	.1575		
WDS	MDS1590MHV	#21		.1590	.1875	63/64 (.984)	1-31/32 (1.969)
	MDS041MHV		4.1mm	.1614	.1969		
	MDS042MHV		4.2mm	.1654	.1969		
	MDS1719MHV	11/64		.1719	.1875	1-31/32 (1.969)	3-5/32 (3.156)
	MDS044MHV		4.4mm	.1732	.1969		
	MDS045MHV		4.5mm	.1772	.1969		
SMD	MDS1875MHV	3/16		.1875	.1875	1-5/64 (1.078)	2-3/64 (2.047)
	MDS048MHV		4.8mm	.1890	.1969		
	MDS050MHV		5.0mm	.1969	.1969		
	MDS051MHV		5.1mm	.2008	.2362	1-5/64 (1.078)	3-15/64 (3.234)
	MDS2010MHV	#7		.2010	.2344		
	MDS2031MHV	13/64		.2031	.2344		
sumi ChamFer™	MDS052MHV		5.2mm	.2047	.2362	1-3/16 (1.188)	1-9/32 (1.281)
	MDS053MHV		5.3mm	.2087	.2362		
	MDS2130MHV	#3		.2130	.2344		
	MDS055MHV		5.5mm	.2165	.2362	1-3/16 (1.188)	2-3/32 (2.094)
	MDS2188MHV	7/32		.2188	.2344		
	MDS056MHV		5.6mm	.2204	.2362		
Drill Adapters & Holders	MDS2210MHV	#2		.2210	.2344	1-3/8 (1.375)	3-15/32 (3.469)
	MDS057MHV		5.7mm	.2244	.2362		
	MDS058MHV		5.8mm	.2283	.2362		
	MDS2344MHV	15/64		.2344	.2344	1-9/32 (1.281)	2-3/32 (2.094)
	MDS060MHV		6.0mm	.2362	.2362		
	MDS061MHV		6.1mm	.2402	.2756		
	MDS2420MHV	#C		.2420	.2812	1-3/8 (1.375)	2-3/32 (2.094)
	MDS062MHV		6.2mm	.2441	.2756		
	MDS063MHV		6.3mm	.2480	.2756		
	MDS2500MHV	1/4		.2500	.2812	1-3/8 (1.375)	2-3/32 (2.094)
	MDS064MHV		6.4mm	.2520	.2756		
	MDS065MHV		6.5mm	.2559	.2756		
	MDS2570MHV	#F		.2570	.2812	1-3/8 (1.375)	2-3/32 (2.094)
	MDS06.53MHV		6.53mm	.2571	.2756		
	MDS066MHV		6.6mm	.2598	.2756		
	MDS067MHV		6.7mm	.2638	.2756	1-3/8 (1.375)	2-3/32 (2.094)
	MDS2656MHV	17/64		.2656	.2812		
	MDS2660MHV	#H		.2660	.2812		
	MDS068MHV		6.8mm	.2677	.2756	1-3/8 (1.375)	2-3/32 (2.094)
	MDS069MHV		6.9mm	.2717	.2756		
	MDS2720MHV	#I		.2720	.2812		
	MDS070MHV		7.0mm	.2756	.2756	1-3/8 (1.375)	2-3/32 (2.094)
	MDS2770MHV	#J		.2770	.2812		

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# MDS-MHV Series Solid Carbide Drills



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

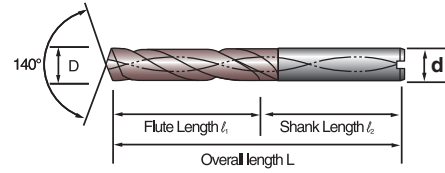
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**MDS-MHV** Standard length drill with internal coolant holes for smooth chip flow at high speeds.

MDS	Cat. No	Cutting Diameter		Dimensions			
		Fractional Wire & Letters	Metric	Decimal D	Shank Diameter d	Flute Length L <sub>f</sub>	Shank Length L <sub>s</sub>
	MDS071MHV		7.1mm	.2795	.3150	1 31/64 (1.484)	2 1/8 (2.125)
	MDS2812MHV	9/32		.2812	.2812		
	MDS072MHV		7.2mm	.2835	.3150		
KDS	MDS074MHV		7.4mm	.2913	.3150	1 37/64 (1.578)	3 45/64 (3.703)
	MDS075MHV		7.5mm	.2953	.3150		
	MDS2969MHV	19/64		.2969	.3125		
	MDS078MHV		7.8mm	.3071	.3150	1 43/64 (1.672)	2 5/32 (2.156)
	MDS3125MHV	5/16		.3125	.3125		
	MDS080MHV		8.0mm	.3150	.3150		
WDS	MDS081MHV		8.1mm	.3189	.3543	1 49/64 (1.766)	3 15/16 (3.938)
	MDS082MHV		8.2mm	.3228	.3543		
	MDS3230MHV	#P		.3230	.3594		
	MDS083MHV		8.3mm	.3268	.3543	1 7/8 (1.875)	4 11/64 (4.172)
	MDS3281MHV	21/64		.3281	.3594		
	MDS3320MHV	#Q		.3320	.3594		
SMD	MDS085MHV		8.5mm	.3346	.3543	1 31/32 (1.969)	2 7/16 (2.438)
	MDS086MHV		8.6mm	.3386	.3543		
	MDS087MHV		8.7mm	.3425	.3543		
	MDS3438MHV	11/32		.3438	.3594	2 13/64 (2.203)	4 9/16 (4.563)
	MDS088MHV		8.8mm	.3465	.3543		
	MDS089MHV		8.9mm	.3504	.3543		
	MDS090MHV		9.0mm	.3543	.3543	2 13/32 (2.406)	4 9/16 (4.563)
	MDS3594MHV	23/64		.3594	.3594		
	MDS092MHV		9.2mm	.3622	.3937		
sumi ChamFer™	MDS093MHV		9.3mm	.3661	.3937	1 31/32 (1.969)	2 11/64 (2.172)
	MDS3680MHV	#U		.3680	.3906		
	MDS094MHV		9.4mm	.3700	.3937		
	MDS095MHV		9.5mm	.3740	.3937	2 13/64 (2.203)	4 11/64 (4.172)
	MDS3750MHV	3/8		.3750	.3906		
	MDS096MHV		9.6mm	.3780	.3937		
Drill Adapters & Holders	MDS097MHV		9.7mm	.3819	.3937	1 31/32 (1.969)	2 13/32 (2.406)
	MDS098MHV		9.8mm	.3858	.3937		
	MDS099MHV		9.9mm	.3898	.3937		
	MDS3906MHV	25/64		.3906	.3906	2 3/64 (2.047)	4 9/16 (4.563)
	MDS1100MHV		10.0mm	.3937	.3937		
	MDS102MHV		10.2mm	.4016	.4331		
	MDS103MHV		10.3mm	.4055	.4331	2 11/64 (2.172)	4 9/16 (4.563)
	MDS4062MHV	13/32		.4062	.4375		
	MDS104MHV		10.4mm	.4094	.4331		
	MDS105MHV		10.5mm	.4134	.4331	2 13/32 (2.406)	4 9/16 (4.563)
	MDS106MHV		10.6mm	.4173	.4331		
	MDS107MHV		10.7mm	.4213	.4331		
	MDS4219MHV	27/64		.4219	.4375	2 11/64 (2.172)	4 9/16 (4.563)
	MDS108MHV		10.8mm	.4252	.4331		
	MDS110MHV		11.0mm	.4331	.4331		
	MDS4375MHV	7/16		.4375	.4375	2 9/32 (2.281)	2 7/16 (2.438)
	MDS112MHV		11.2mm	.4409	.4724		
	MDS115MHV		11.5mm	.4528	.4724		
	MDS4531MHV	29/64		.4531	.4688	2 23/64 (2.359)	4 13/16 (4.813)
	MDS117MHV		11.7mm	.4606	.4724		
	MDS118MHV		11.8mm	.4646	.4724		

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# MDS-MHV Series Solid Carbide Drills



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

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**MDS-MHV** Standard length drill with internal coolant holes for smooth chip flow at high speeds.

Cat. No.	Cutting Diameter			Dimensions			
	Fractional Wire & Letters	Metric	Decimal D	Shank Diameter d	Flute Length L <sub>f</sub>	Shank Length L <sub>s</sub>	Overall Length L
<b>MDS</b> MDS4688MHV	15/32		.4688	.4688	2 23/64 (2.359)	2 7/16 (2.438)	4 13/16 (4.813)
MDS120MHV		12.0mm	.4724	.4724	2 15/32 (2.469)	2 31/64 (2.484)	5 1/32 (5.032)
MDS122MHV		12.2mm	.4803	.5118			
MDS4844MHV	31/64		.4844	.5156	2 9/16 (2.562)	2 33/64 (2.516)	5 9/32 (5.281)
MDS125MHV		12.5mm	.4921	.5118			
<b>KDS</b> MDS126MHV		12.6mm	.4961	.5118	2 21/32 (2.656)	2 9/16 (2.562)	5 33/64 (5.516)
MDS127MHV		12.7mm	.4999	.5118			
MDS5000MHV	1/2		.5000	.5156	2 55/64 (2.859)	2 9/16 (2.562)	5 33/64 (5.516)
MDS128MHV		12.8mm	.5039	.5118			
MDS130MHV		13.0mm	.5118	.5118	2 61/64 (2.953)	2 19/32 (2.594)	5 3/4 (5.750)
MDS5156MHV	33/64		.5156	.5156			
MDS5312MHV	17/32		.5312	.5469	3 3/64 (3.047)	2 41/64 (2.641)	5 63/64 (5.984)
MDS135MHV		13.5mm	.5315	.5512			
MDS138MHV		13.8mm	.5433	.5512	3 11/32 (3.344)	2 43/64 (2.672)	6 7/32 (6.219)
MDS5469MHV	35/64		.5469	.5469			
MDS140MHV		14.0mm	.5512	.5512	3 7/16 (3.438)	2 43/64 (2.672)	6 7/32 (6.219)
MDS141MHV		14.1mm	.5551	.5906			
MDS5625MHV	9/16		.5625	.5937	3 35/64 (3.547)	2 43/64 (2.672)	6 7/32 (6.219)
MDS145MHV		14.5mm	.5709	.5906			
MDS5781MHV	37/64		.5781	.5937	3 41/64 (3.641)	2 23/32 (2.719)	6 29/64 (6.453)
MDS148MHV		14.8mm	.5827	.5906			
MDS150MHV		15.0mm	.5906	.5906	3 3/4 (3.750)	2 3/4 (2.750)	6 11/16 (6.688)
MDS5937MHV	19/32		.5937	.5937			
MDS6094MHV	39/64		.6094	.6250	3 27/32 (3.844)	2 3/4 (2.750)	6 11/16 (6.688)
MDS155MHV		15.5mm	.6102	.6299			
MDS158MHV		15.8mm	.6220	.6299	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS6250MHV	5/8		.6250	.6250			
MDS160MHV		16.0mm	.6299	.6299	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS16.08MHV		16.08mm	.6331	.6693			
MDS162MHV		16.2mm	.6378	.6693	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS6406MHV	41/64		.6406	.6718			
MDS165MHV		16.5mm	.6496	.6693	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS6562MHV	21/32		.6562	.6718			
MDS170MHV		17.0mm	.6693	.6693	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS6718MHV	43/64		.6718	.6718			
MDS6875MHV	11/16		.6875	.7031	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS175MHV		17.5mm	.6890	.7087			
MDS178MHV		17.8mm	.7008	.7087	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS7031MHV	45/64		.7031	.7031			
MDS180MHV		18.0mm	.7087	.7087	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS7187MHV	23/32		.7187	.7500			
MDS185MHV		18.5mm	.7283	.7480	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS7344MHV	47/64		.7344	.7500			
MDS190MHV		19.0mm	.7480	.7480	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS7500MHV	3/4		.7500	.7500			
MDS19.15MHV		19.15mm	.7539	.7874	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS19.25MHV		19.25mm	.7579	.7874			
MDS19.3MHV		19.3mm	.7598	.7874	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS7656MHV	49/64		.7656	.7812			
MDS195MHV		19.5mm	.7677	.7874	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS198MHV		19.8mm	.7795	.7874			
MDS7812MHV	25/32		.7812	.7812	3 15/16 (3.938)	3 15/16 (3.938)	6 11/16 (6.688)
MDS200MHV		20.0mm	.7874	.7874			