
MPS1

HIGH PERFORMANCE SOLID CARBIDE DRILL



MPS1

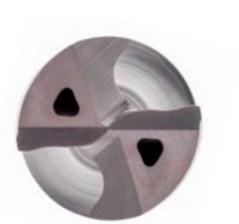
HIGH PERFORMANCE SOLID CARBIDE DRILL



LxDC 3 - 8

STRONG CUTTING EDGE

For high performance drilling.



LxDC 10 - 40
LxDC 2 (PC)

OPTIMIZED GEOMETRY

For extra deep hole drilling and optimal hole quality.

DP1021

New ALTiCrN PVD coating technology ensures a long tool life and high productivity in standard and high cutting speeds. Suitable in steels, stainless steels and cast iron.

ACCURACY

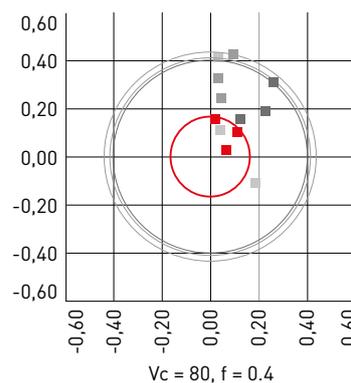
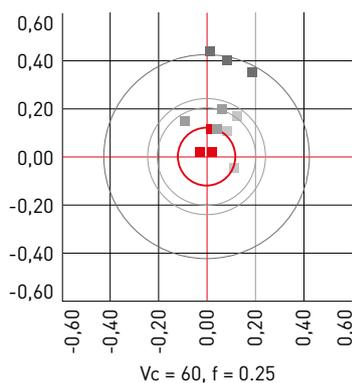
The double margin and Tri-Coolant Technology helps to provide high quality hole surface finishes.



- Increased coolant volume
- Optimized flow at the margin
- Faster chip evacuation

STABILITY (CAE ANALYSIS)

MPS1 super long drill is designed to achieve 20 % higher flexing strength by optimizing the core diameter and the helix angle.

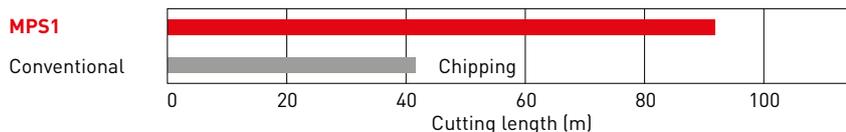


- Mitsubishi Materials Tool
- Conventional A
- Conventional B
- Conventional C

APPLICATION EXAMPLES

TOOL LIFE TEST Ø8 MM AT STANDARD CUTTING CONDITIONS

Work material	DIN C50
Hole depth (mm)	40
Vc (m/min)	120
f (mm/rev)	0.25
Coolant	W.S.O.
Machine	Vertical M/C
Result	Tool life of MPS1 was 2.5 times longer.



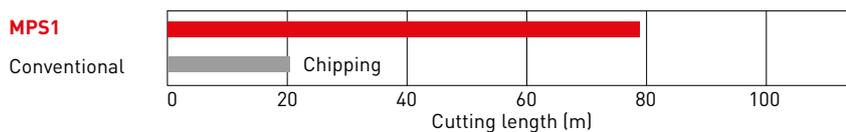
MPS1



Conventional

TOOL LIFE TEST Ø8 MM AT HIGH-SPEED CUTTING CONDITIONS

Work material	DIN C50
Hole depth (mm)	40
Vc (m/min)	200
f (mm/rev)	0.35
Coolant	W.S.O.
Machine	Vertical M/C
Result	Tool life of MPS1 was 4 times longer.



MPS1

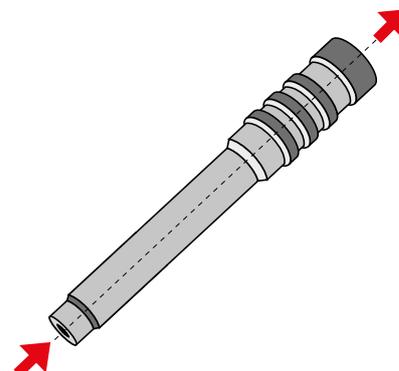


Conventional

SUPERLONG DRILLS

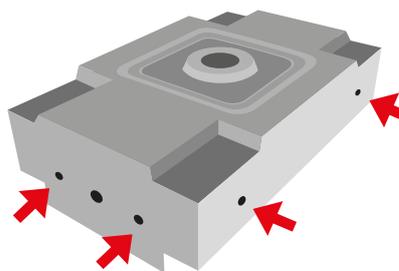
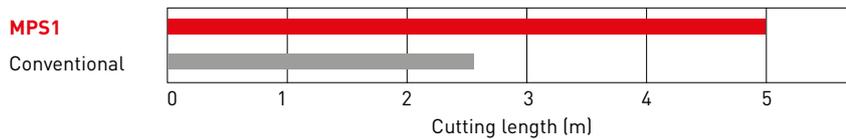
DRILLING OF THROUGH CENTRE HOLE

Tool	MPS1-0380-L12C
Work material	115MnPb30
Hole depth (mm)	45 (12 l/d)
Vc (m/min)	75
f (mm/rev)	0.135
Machine	Sliding headstock swiss machine.
Result	Tool life of MPS1 was 36 % longer.



DRILLING OF COOLING HOLES

Tool	MPS1-0800-L30C
Work material	CR7 V-L (Cold work steel, 1130 N/mm ²)
Hole depth (mm)	250 (30 l/d)
Vc (m/min)	120
f (mm/rev)	0.35
Machine	Horizontal machining centre
Result	Tool life of MPS1 was 2 times longer. Hole axial straightness less than 0.15 mm.



MPS1



l/d=2
PC



l/d=3-5
l/d=10-40



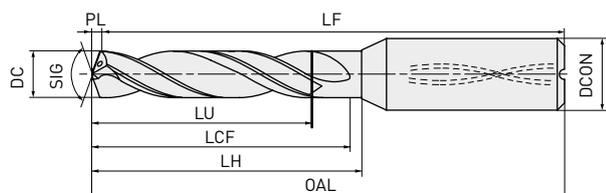
l/d=8

SOLID CARBIDE DRILL

P **M** **K**

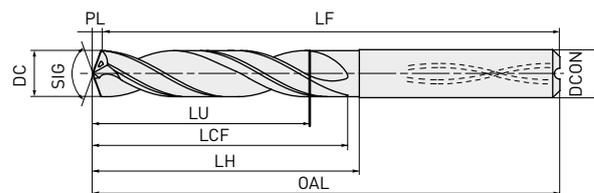


1 Cylindrical shank type with taper neck



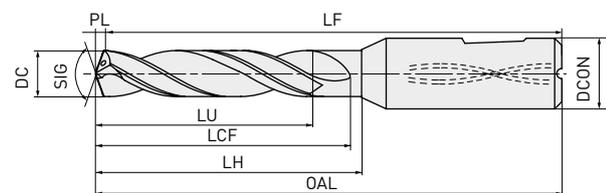
MPS1----S/L-DIN-C/L8C-L40C

2 Cylindrical shank type



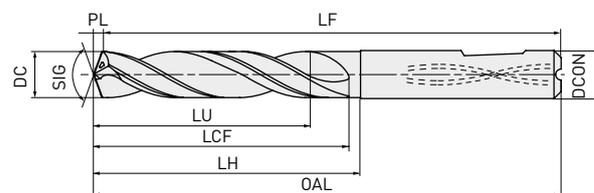
MPS1----S/L-DIN-C/L8C-L40C

3 Whistle notch shank type with taper neck



MPS1----S/L-DIN (Whistle notch)

4 Whistle notch shank type



MPS1----S/L-DIN (Whistle notch)

The coolant holes of S-DIN(C) & L-DIN(C) & L8C Drills having round coolant holes till DC 6 mm.

The coolant holes from L10C till L40C Drills having round coolant holes till DC 4,9 mm.

SIG : l/d 3-5 and 10-40 = 140°, 8 = 135°, PC = 145°



	3≤DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
DC Tolerance (DIN/PC) (mm)	+0.010 -0.002	+0.010 -0.005	+0.005 -0.013	+0.005 -0.016
DC Tolerance (L_C) (mm)	0 -0.012	0 -0.015	0 -0.018	0 -0.021
DCON Tolerance (mm)	0 -0.008	0 -0.009	0 -0.011	0 -0.013

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0300S-DIN	3.0	3	61.5	15.0	19.5	24.5	61	0.5	6	□	3
MPS1-0300S-DIN-C		3	61.5	15.0	19.5	24.5	61	0.5	6	●	1
MPS1-0300L-DIN		5	65.5	20.0	24.5	28.5	65	0.5	6	□	3
MPS1-0300L-DIN-C		5	65.5	20.0	24.5	28.5	65	0.5	6	●	1
MPS1-0300-PC		2	55.5	6.5	16.5	19.7	55	0.5	6	●	1
MPS1-0300-L8C		8	76.6	24.6	33.6	39.6	76	0.6	6	●	1
MPS1-0300-L10C		10	79.5	30.5	37.5	42.5	79	0.5	6	●	1
MPS1-0300-L12C		12	85.5	36.5	43.5	48.5	85	0.5	6	●	1
MPS1-0300-L15C		15	94.5	45.5	52.5	57.5	94	0.5	6	●	1
MPS1-0300-L20C		20	109.5	60.5	67.5	72.5	109	0.5	6	●	1
MPS1-0300-L25C		25	124.5	75.5	82.5	87.5	124	0.5	6	●	1
MPS1-0300-L30C		30	139.5	90.5	97.5	102.5	139	0.5	6	●	1
MPS1-0300-L35C		35	158.5	105.5	113.5	121.5	158	0.5	6	□	1
MPS1-0300-L40C		40	173.5	120.5	128.5	136.5	173	0.5	6	●	1

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SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type	
MPS1-0305S-DIN	3.05	3	61.6	15.0	19.6	24.6	61	0.6	6	□	3	
MPS1-0305S-DIN-C		3	61.6	15.0	19.6	24.6	61	0.6	6	●	1	
MPS1-0305L-DIN		5	65.6	20.0	24.6	28.6	65	0.6	6	□	3	
MPS1-0305L-DIN-C		5	65.6	20.0	24.6	28.6	65	0.6	6	●	1	
MPS1-0310S-DIN	3.1	3	61.6	14.9	19.6	24.6	61	0.6	6	□	3	
MPS1-0310S-DIN-C		3	61.6	14.9	19.6	24.6	61	0.6	6	●	1	
MPS1-0310L-DIN		5	65.6	19.9	24.6	28.6	65	0.6	6	□	3	
MPS1-0310L-DIN-C		5	65.6	19.9	24.6	28.6	65	0.6	6	●	1	
MPS1-0310-PC		2	55.5	6.7	18.5	21.6	55	0.5	6	●	1	
MPS1-0310-L8C		8	82.6	25.4	39.6	45.6	82	0.6	6	●	1	
MPS1-0310-L10C		10	86.6	31.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0310-L12C		12	93.6	37.8	51.6	56.6	93	0.6	6	●	1	
MPS1-0310-L15C		15	103.6	47.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0310-L20C		20	121.6	62.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0310-L25C		25	138.6	78.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0310-L30C		30	156.6	93.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0310-L35C		35	175.6	109.1	123.6	138.6	175	0.6	6	□	1	
MPS1-0310-L40C		40	190.6	124.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0320S-DIN		3.2	3	61.6	14.8	19.6	24.6	61	0.6	6	□	3
MPS1-0320S-DIN-C			3	61.6	14.8	19.6	24.6	61	0.6	6	●	1
MPS1-0320L-DIN	5		65.6	19.8	24.6	28.6	65	0.6	6	□	3	
MPS1-0320L-DIN-C	5		65.6	19.8	24.6	28.6	65	0.6	6	●	1	
MPS1-0320-PC	2		55.5	6.9	18.5	21.5	55	0.5	6	●	1	
MPS1-0320-L8C	8		82.7	26.3	39.7	45.7	82	0.7	6	●	1	
MPS1-0320-L10C	10		86.6	32.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0320-L12C	12		93.6	39.0	51.6	56.6	93	0.6	6	●	1	
MPS1-0320-L15C	15		103.6	48.6	61.6	66.6	103	0.6	6	●	1	
MPS1-0320-L20C	20		121.6	64.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0320-L25C	25		138.6	80.6	96.6	101.6	138	0.6	6	●	1	
MPS1-0320-L30C	30		156.6	96.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0320-L35C	35		175.6	112.6	123.6	138.6	175	0.6	6	□	1	
MPS1-0320-L40C	40		190.6	128.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0330S-DIN	3.3		3	61.6	14.7	19.6	24.6	61	0.6	6	□	3
MPS1-0330S-DIN-C			3	61.6	14.7	19.6	24.6	61	0.6	6	●	1
MPS1-0330L-DIN		5	65.6	20.2	25.1	28.6	65	0.6	6	□	3	
MPS1-0330L-DIN-C		5	65.6	20.2	25.1	28.6	65	0.6	6	●	1	
MPS1-0330-PC		2	55.5	7.1	18.5	21.4	55	0.5	6	●	1	
MPS1-0330-L8C		8	82.7	27.1	39.7	45.7	82	0.7	6	●	1	
MPS1-0330-L10C		10	86.6	33.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0330-L12C		12	93.6	40.2	51.6	56.6	93	0.6	6	●	1	
MPS1-0330-L15C		15	103.6	50.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0330-L20C		20	121.6	66.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0330-L25C		25	138.6	83.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0330-L30C		30	156.6	99.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0330-L35C		35	175.6	116.1	132.6	138.6	175	0.6	6	□	1	
MPS1-0330-L40C		40	190.6	132.6	148.6	153.6	190	0.6	6	●	1	

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SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0340S-DIN	3.4	3	61.6	14.5	19.6	24.6	61	0.6	6	□	3
MPS1-0340S-DIN-C		3	61.6	14.5	19.6	24.6	61	0.6	6	●	1
MPS1-0340L-DIN		5	65.6	20.0	25.1	28.6	65	0.6	6	□	3
MPS1-0340L-DIN-C		5	65.6	20.0	25.1	28.6	65	0.6	6	●	1
MPS1-0340-PC		2	55.5	7.3	18.5	21.3	55	0.5	6	●	1
MPS1-0340-L8C		8	82.7	27.9	39.7	45.7	82	0.7	6	●	1
MPS1-0340-L10C		10	86.6	34.6	44.6	49.6	86	0.6	6	□	1
MPS1-0340-L12C		12	93.6	41.4	51.6	56.6	93	0.6	6	●	1
MPS1-0340-L15C		15	103.6	51.6	61.6	66.6	103	0.6	6	●	1
MPS1-0340-L20C		20	121.6	68.6	79.6	84.6	121	0.6	6	●	1
MPS1-0340-L25C		25	138.6	85.6	96.6	101.6	138	0.6	6	●	1
MPS1-0340-L30C		30	156.6	102.6	114.6	119.6	156	0.6	6	●	1
MPS1-0340-L35C		35	175.6	119.6	132.6	138.6	175	0.6	6	□	1
MPS1-0340-L40C		40	190.6	136.6	148.6	153.6	190	0.6	6	●	1
MPS1-0350S-DIN	3.5	3	61.6	14.4	19.6	24.6	61	0.6	6	□	3
MPS1-0350S-DIN-C		3	61.6	14.4	19.6	24.6	61	0.6	6	●	1
MPS1-0350L-DIN		5	65.6	19.9	25.1	28.6	65	0.6	6	□	3
MPS1-0350L-DIN-C		5	65.6	19.9	25.1	28.6	65	0.6	6	●	1
MPS1-0350-PC		2	55.6	7.6	18.6	21.2	55	0.6	6	●	1
MPS1-0350-L8C		8	82.7	28.7	39.7	45.7	82	0.7	6	●	1
MPS1-0350-L10C		10	86.6	35.6	44.6	49.6	86	0.6	6	□	1
MPS1-0350-L12C		12	93.6	42.6	51.6	56.6	93	0.6	6	●	1
MPS1-0350-L15C		15	103.6	53.1	61.6	66.6	103	0.6	6	●	1
MPS1-0350-L20C		20	121.6	70.6	79.6	84.6	121	0.6	6	●	1
MPS1-0350-L25C		25	138.6	88.1	96.6	101.6	138	0.6	6	●	1
MPS1-0350-L30C		30	156.6	105.6	114.6	119.6	156	0.6	6	●	1
MPS1-0350-L35C		35	175.6	123.1	132.6	138.6	175	0.6	6	□	1
MPS1-0350-L40C		40	190.6	140.6	148.6	153.6	190	0.6	6	●	1
MPS1-0360S-DIN	3.6	3	61.7	14.3	19.7	24.7	61	0.7	6	□	3
MPS1-0360S-DIN-C		3	61.7	14.3	19.7	24.7	61	0.7	6	●	1
MPS1-0360L-DIN		5	65.7	19.8	25.2	28.7	65	0.7	6	□	3
MPS1-0360L-DIN-C		5	65.7	19.8	25.2	28.7	65	0.7	6	●	1
MPS1-0360-PC		2	55.6	7.8	20.6	23.1	55	0.6	6	□	1
MPS1-0360-L8C		8	87.7	29.5	44.7	50.7	87	0.7	6	●	1
MPS1-0360-L10C		10	92.7	36.7	50.7	55.7	92	0.7	6	□	1
MPS1-0360-L12C		12	100.7	43.9	58.7	63.7	100	0.7	6	●	1
MPS1-0360-L15C		15	112.7	54.7	70.7	75.7	112	0.7	6	●	1
MPS1-0360-L20C		20	132.7	72.7	90.7	95.7	132	0.7	6	●	1
MPS1-0360-L25C		25	152.7	90.7	110.7	115.7	152	0.7	6	□	1
MPS1-0360-L30C		30	172.7	108.7	130.7	135.7	172	0.7	6	●	1
MPS1-0360-L35C		35	192.7	126.7	143.7	155.7	192	0.7	6	□	1
MPS1-0360-L40C		40	212.7	144.7	160.7	175.7	212	0.7	6	●	1

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SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0370S-DIN	3.7	3	61.7	14.1	19.7	24.7	61	0.7	6	□	3
MPS1-0370S-DIN-C		3	61.7	14.1	19.7	24.7	61	0.7	6	●	1
MPS1-0370L-DIN		5	65.7	20.1	25.7	28.7	65	0.7	6	□	3
MPS1-0370L-DIN-C		5	65.7	20.1	25.7	28.7	65	0.7	6	●	1
MPS1-0370-PC		2	55.6	8.0	20.6	23.1	55	0.6	6	●	1
MPS1-0370-L8C		8	87.8	30.4	44.8	50.8	87	0.8	6	●	1
MPS1-0370-L10C		10	92.7	37.7	50.7	55.7	92	0.7	6	□	1
MPS1-0370-L12C		12	100.7	45.1	58.7	63.7	100	0.7	6	●	1
MPS1-0370-L15C		15	112.7	56.2	70.7	75.7	112	0.7	6	●	1
MPS1-0370-L20C		20	132.7	74.7	90.7	95.7	132	0.7	6	●	1
MPS1-0370-L25C		25	152.7	93.2	110.7	115.7	152	0.7	6	●	1
MPS1-0370-L30C		30	172.7	111.7	130.7	135.7	172	0.7	6	●	1
MPS1-0370-L35C		35	192.7	130.2	143.7	155.7	192	0.7	6	□	1
MPS1-0370-L40C		40	212.7	148.7	160.7	175.7	212	0.7	6	●	1
MPS1-0380S-DIN	3.8	3	65.7	18.0	23.7	28.7	65	0.7	6	□	3
MPS1-0380S-DIN-C		3	65.7	18.0	23.7	28.7	65	0.7	6	●	1
MPS1-0380L-DIN		5	73.7	28.0	33.7	36.7	73	0.7	6	□	3
MPS1-0380L-DIN-C		5	73.7	28.0	33.7	36.7	73	0.7	6	●	1
MPS1-0380-PC		2	55.6	8.2	20.6	23.0	55	0.6	6	●	1
MPS1-0380-L8C		8	87.8	31.2	44.8	50.8	87	0.8	6	●	1
MPS1-0380-L10C		10	92.7	38.7	50.7	55.7	92	0.7	6	□	1
MPS1-0380-L12C		12	100.7	46.3	58.7	63.7	100	0.7	6	●	1
MPS1-0380-L15C		15	112.7	57.7	70.7	75.7	112	0.7	6	●	1
MPS1-0380-L20C		20	132.7	76.7	90.7	95.7	132	0.7	6	●	1
MPS1-0380-L25C		25	152.7	95.7	110.7	115.7	152	0.7	6	●	1
MPS1-0380-L30C		30	172.7	114.7	130.7	135.7	172	0.7	6	●	1
MPS1-0380-L35C		35	192.7	133.7	150.7	155.7	192	0.7	6	□	1
MPS1-0380-L40C		40	212.7	152.7	170.7	175.7	212	0.7	6	●	1
MPS1-0390S-DIN	3.9	3	65.7	17.9	23.7	28.7	65	0.7	6	□	3
MPS1-0390S-DIN-C		3	65.7	17.9	23.7	28.7	65	0.7	6	●	1
MPS1-0390L-DIN		5	73.7	27.9	33.7	36.7	73	0.7	6	□	3
MPS1-0390L-DIN-C		5	73.7	27.9	33.7	36.7	73	0.7	6	●	1
MPS1-0390-PC		2	55.6	8.4	20.6	22.9	55	0.6	6	●	1
MPS1-0390-L8C		8	87.8	32.0	44.8	50.8	87	0.8	6	●	1
MPS1-0390-L10C		10	92.7	39.7	50.7	55.7	92	0.7	6	□	1
MPS1-0390-L12C		12	100.7	47.5	58.7	63.7	100	0.7	6	●	1
MPS1-0390-L15C		15	112.7	59.2	70.7	75.7	112	0.7	6	●	1
MPS1-0390-L20C		20	132.7	78.7	90.7	95.7	132	0.7	6	●	1
MPS1-0390-L25C		25	152.7	98.2	110.7	115.7	152	0.7	6	□	1
MPS1-0390-L30C		30	172.7	117.7	130.7	135.7	172	0.7	6	●	1
MPS1-0390-L35C		35	192.7	137.2	150.7	155.7	192	0.7	6	□	1
MPS1-0390-L40C		40	212.7	156.7	170.7	175.7	212	0.7	6	●	1

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0400S-DIN	4.0	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3
MPS1-0400S-DIN-C		3	65.7	17.7	23.7	28.7	65	0.7	6	●	1
MPS1-0400L-DIN		5	73.7	27.7	33.7	36.7	73	0.7	6	□	3
MPS1-0400L-DIN-C		5	73.7	27.7	33.7	36.7	73	0.7	6	●	1
MPS1-0400-PC		2	55.6	8.6	20.6	22.8	55	0.6	6	●	1
MPS1-0400-L8C		8	87.8	32.8	44.8	50.8	87	0.8	6	●	1
MPS1-0400-L10C		10	92.7	40.7	50.7	55.7	92	0.7	6	●	1
MPS1-0400-L12C		12	100.7	48.7	58.7	63.7	100	0.7	6	●	1
MPS1-0400-L15C		15	112.7	60.7	70.7	75.7	112	0.7	6	●	1
MPS1-0400-L20C		20	132.7	80.7	90.7	95.7	132	0.7	6	●	1
MPS1-0400-L25C		25	152.7	100.7	110.7	115.7	152	0.7	6	●	1
MPS1-0400-L30C		30	172.7	120.7	130.7	135.7	172	0.7	6	●	1
MPS1-0400-L35C		35	192.7	140.7	150.7	155.7	192	0.7	6	□	1
MPS1-0400-L40C		40	212.7	160.7	170.7	175.7	212	0.7	6	●	1
MPS1-0405S-DIN	4.05	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3
MPS1-0405S-DIN-C		3	65.7	17.7	23.7	28.7	65	0.7	6	●	1
MPS1-0405L-DIN		5	73.7	27.7	33.7	36.7	73	0.7	6	□	3
MPS1-0405L-DIN-C		5	73.7	27.7	33.7	36.7	73	0.7	6	●	1
MPS1-0410S-DIN	4.1	3	65.7	17.6	23.7	28.7	65	0.7	6	□	3
MPS1-0410S-DIN-C		3	65.7	17.6	23.7	28.7	65	0.7	6	●	1
MPS1-0410L-DIN		5	73.7	27.6	33.7	36.7	73	0.7	6	□	3
MPS1-0410L-DIN-C		5	73.7	27.6	33.7	36.7	73	0.7	6	●	1
MPS1-0410-PC		2	62.6	8.8	22.6	24.7	62	0.6	6	●	1
MPS1-0410-L8C		8	92.8	33.6	50.8	55.8	92	0.8	6	●	1
MPS1-0410-L10C		10	99.7	41.7	58.7	62.7	99	0.7	6	□	1
MPS1-0410-L12C		12	108.7	49.9	67.7	71.7	108	0.7	6	●	1
MPS1-0410-L15C		15	121.7	62.2	80.7	84.7	121	0.7	6	●	1
MPS1-0410-L20C		20	144.7	82.7	103.7	107.7	144	0.7	6	●	1
MPS1-0410-L25C		25	166.7	103.2	125.7	129.7	166	0.7	6	●	1
MPS1-0410-L30C		30	189.7	123.7	148.7	152.7	189	0.7	6	●	1
MPS1-0410-L35C		35	211.7	144.2	164.7	174.7	211	0.7	6	□	1
MPS1-0410-L40C		40	235.7	164.7	184.7	198.7	235	0.7	6	●	1
MPS1-0420S-DIN	4.2	3	65.8	17.5	23.8	28.8	65	0.8	6	□	3
MPS1-0420S-DIN-C		3	65.8	17.5	23.8	28.8	65	0.8	6	●	1
MPS1-0420L-DIN		5	73.8	28.0	34.3	36.8	73	0.8	6	□	3
MPS1-0420L-DIN-C		5	73.8	28.0	34.3	36.8	73	0.8	6	●	1
MPS1-0420-PC		2	62.7	9.1	22.7	24.6	62	0.7	6	●	1
MPS1-0420-L8C		8	92.9	34.5	50.9	55.9	92	0.9	6	●	1
MPS1-0420-L10C		10	99.8	42.8	58.8	62.8	99	0.8	6	□	1
MPS1-0420-L12C		12	108.8	51.2	67.8	71.8	108	0.8	6	●	1
MPS1-0420-L15C		15	121.8	63.8	80.8	84.8	121	0.8	6	●	1
MPS1-0420-L20C		20	144.8	84.8	103.8	107.8	144	0.8	6	●	1
MPS1-0420-L25C		25	166.8	105.8	125.8	129.8	166	0.8	6	●	1
MPS1-0420-L30C		30	189.8	126.8	148.8	152.8	189	0.8	6	●	1
MPS1-0420-L35C		35	211.8	147.8	164.8	174.8	211	0.8	6	●	1
MPS1-0420-L40C		40	235.8	168.8	184.8	198.8	235	0.8	6	●	1

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0430S-DIN	4.3	3	65.8	17.3	23.8	28.8	65	0.8	6	□	3
MPS1-0430S-DIN-C		3	65.8	17.3	23.8	28.8	65	0.8	6	●	1
MPS1-0430L-DIN		5	73.8	27.8	34.3	36.8	73	0.8	6	□	3
MPS1-0430L-DIN-C		5	73.8	27.8	34.3	36.8	73	0.8	6	●	1
MPS1-0430-PC		2	62.7	9.3	22.7	24.5	62	0.7	6	●	1
MPS1-0430-L8C		8	92.9	35.3	50.9	55.9	92	0.9	6	●	1
MPS1-0430-L10C		10	99.8	43.8	58.8	62.8	99	0.8	6	□	1
MPS1-0430-L12C		12	108.8	52.4	67.8	71.8	108	0.8	6	●	1
MPS1-0430-L15C		15	121.8	65.3	80.8	84.8	121	0.8	6	●	1
MPS1-0430-L20C		20	144.8	86.8	103.8	107.8	144	0.8	6	●	1
MPS1-0430-L25C		25	166.8	108.3	125.8	129.8	166	0.8	6	●	1
MPS1-0430-L30C		30	189.8	129.8	148.8	152.8	189	0.8	6	●	1
MPS1-0430-L35C		35	211.8	151.3	170.8	174.8	211	0.8	6	□	1
MPS1-0430-L40C		40	235.8	172.8	194.8	198.8	235	0.8	6	●	1
MPS1-0440S-DIN	4.4	3	65.8	17.2	23.8	28.8	65	0.8	6	□	3
MPS1-0440S-DIN-C		3	65.8	17.2	23.8	28.8	65	0.8	6	●	1
MPS1-0440L-DIN		5	73.8	27.7	34.3	36.8	73	0.8	6	□	3
MPS1-0440L-DIN-C		5	73.8	27.7	34.3	36.8	73	0.8	6	●	1
MPS1-0440-PC		2	62.7	9.5	22.7	24.4	62	0.7	6	●	1
MPS1-0440-L8C		8	92.9	36.1	50.9	55.9	92	0.9	6	●	1
MPS1-0440-L10C		10	99.8	44.8	58.8	62.8	99	0.8	6	□	1
MPS1-0440-L12C		12	108.8	53.6	67.8	71.8	108	0.8	6	●	1
MPS1-0440-L15C		15	121.8	66.8	80.8	84.8	121	0.8	6	●	1
MPS1-0440-L20C		20	144.8	88.8	103.8	107.8	144	0.8	6	□	1
MPS1-0440-L25C		25	166.8	110.8	125.8	129.8	166	0.8	6	□	1
MPS1-0440-L30C		30	189.8	132.8	148.8	152.8	189	0.8	6	□	1
MPS1-0440-L35C		35	211.8	154.8	170.8	174.8	211	0.8	6	□	1
MPS1-0440-L40C		40	235.8	176.8	194.8	198.8	235	0.8	6	●	1
MPS1-0450S-DIN	4.5	3	65.8	17.1	23.8	28.8	65	0.8	6	□	3
MPS1-0450S-DIN-C		3	65.8	17.1	23.8	28.8	65	0.8	6	●	1
MPS1-0450L-DIN		5	73.8	27.6	34.3	36.8	73	0.8	6	□	3
MPS1-0450L-DIN-C		5	73.8	27.6	34.3	36.8	73	0.8	6	●	1
MPS1-0450-PC		2	62.7	9.7	22.7	24.3	62	0.7	6	●	1
MPS1-0450-L8C		8	92.9	36.9	50.9	55.9	92	0.9	6	●	1
MPS1-0450-L10C		10	99.8	45.8	58.8	62.8	99	0.8	6	□	1
MPS1-0450-L12C		12	108.8	54.8	67.8	71.8	108	0.8	6	●	1
MPS1-0450-L15C		15	121.8	68.3	80.8	84.8	121	0.8	6	●	1
MPS1-0450-L20C		20	144.8	90.8	103.8	107.8	144	0.8	6	●	1
MPS1-0450-L25C		25	166.8	113.3	125.8	129.8	166	0.8	6	●	1
MPS1-0450-L30C		30	189.8	135.8	148.8	152.8	189	0.8	6	●	1
MPS1-0450-L35C		35	211.8	158.3	170.8	174.8	211	0.8	6	□	1
MPS1-0450-L40C		40	235.8	180.8	194.8	198.8	235	0.8	6	●	1

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0460S-DIN	4.6	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0460S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0460L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0460L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0460-PC		2	62.7	9.9	24.7	27.7	62	0.7	6	●	2
MPS1-0460-L8C		8	96.0	37.8	56.0	59.0	95	1.0	6	●	2
MPS1-0460-L10C		10	105.8	46.8	65.8	68.8	105	0.8	6	□	2
MPS1-0460-L12C		12	115.8	56.0	75.8	78.8	115	0.8	6	●	2
MPS1-0460-L15C		15	130.8	69.8	90.8	93.8	130	0.8	6	●	2
MPS1-0460-L20C		20	155.8	92.8	115.8	118.8	155	0.8	6	●	2
MPS1-0460-L25C		25	180.8	115.8	140.8	143.8	180	0.8	6	●	2
MPS1-0460-L30C		30	205.8	138.8	165.8	168.8	205	0.8	6	●	2
MPS1-0460-L35C		35	229.8	161.8	184.8	192.8	229	0.8	6	□	2
MPS1-0460-L40C		40	254.8	184.8	204.8	217.8	254	0.8	6	●	2
MPS1-0465S-DIN	4.65	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0465S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0465L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0465L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0470S-DIN	4.7	3	65.9	16.8	23.9	28.9	65	0.9	6	□	4
MPS1-0470S-DIN-C		3	65.9	16.8	23.9	28.9	65	0.9	6	●	2
MPS1-0470L-DIN		5	73.9	28.8	35.9	36.9	73	0.9	6	□	4
MPS1-0470L-DIN-C		5	73.9	28.8	35.9	36.9	73	0.9	6	●	2
MPS1-0470-PC		2	62.7	10.1	24.7	27.7	62	0.7	6	●	2
MPS1-0470-L8C		8	96.0	38.6	56.0	59.0	95	1.0	6	●	2
MPS1-0470-L10C		10	105.9	47.9	65.9	68.9	105	0.9	6	□	2
MPS1-0470-L12C		12	115.9	57.3	75.9	78.9	115	0.9	6	●	2
MPS1-0470-L15C		15	130.9	71.4	90.9	93.9	130	0.9	6	●	2
MPS1-0470-L20C		20	155.9	94.9	115.9	118.9	155	0.9	6	●	2
MPS1-0470-L25C		25	180.9	118.4	140.9	143.9	180	0.9	6	●	2
MPS1-0470-L30C		30	205.9	141.9	165.9	168.9	205	0.9	6	●	2
MPS1-0470-L35C		35	229.9	165.4	184.9	192.9	229	0.9	6	□	2
MPS1-0470-L40C		40	254.9	188.9	204.9	217.9	254	0.9	6	●	2
MPS1-0480S-DIN	4.8	3	65.9	20.7	27.9	28.9	65	0.9	6	□	4
MPS1-0480S-DIN-C		3	65.9	20.7	27.9	28.9	65	0.9	6	●	2
MPS1-0480L-DIN		5	81.9	36.7	43.9	44.9	81	0.9	6	□	4
MPS1-0480L-DIN-C		5	81.9	36.7	43.9	44.9	81	0.9	6	●	2
MPS1-0480-PC		2	62.8	10.4	24.8	27.8	62	0.8	6	●	2
MPS1-0480-L8C		8	96.0	39.4	56.0	59.0	95	1.0	6	●	2
MPS1-0480-L10C		10	105.9	48.9	65.9	68.9	105	0.9	6	□	2
MPS1-0480-L12C		12	115.9	58.5	75.9	78.9	115	0.9	6	●	2
MPS1-0480-L15C		15	130.9	72.9	90.9	93.9	130	0.9	6	●	2
MPS1-0480-L20C		20	155.9	96.9	115.9	118.9	155	0.9	6	●	2
MPS1-0480-L25C		25	180.9	120.9	140.9	143.9	180	0.9	6	●	2
MPS1-0480-L30C		30	205.9	144.9	165.9	168.9	205	0.9	6	●	2
MPS1-0480-L35C		35	229.9	168.9	190.9	192.9	229	0.9	6	□	2
MPS1-0480-L40C		40	254.9	192.9	215.9	217.9	254	0.9	6	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type	
MPS1-0490S-DIN	4.9	3	65.9	20.5	27.9	28.9	65	0.9	6	□	4	
MPS1-0490S-DIN-C		3	65.9	20.5	27.9	28.9	65	0.9	6	●	2	
MPS1-0490L-DIN		5	81.9	36.5	43.9	44.9	81	0.9	6	□	4	
MPS1-0490L-DIN-C		5	81.9	36.5	43.9	44.9	81	0.9	6	●	2	
MPS1-0490-PC		2	62.8	10.6	24.8	27.8	62	0.8	6	●	2	
MPS1-0490-L8C		8	96.0	40.2	56.0	59.0	95	1.0	6	●	2	
MPS1-0490-L10C		10	105.9	49.9	65.9	68.9	105	0.9	6	□	2	
MPS1-0490-L12C		12	115.9	59.7	75.9	78.9	115	0.9	6	●	2	
MPS1-0490-L15C		15	130.9	74.4	90.9	93.9	130	0.9	6	●	2	
MPS1-0490-L20C		20	155.9	98.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0490-L25C		25	180.9	123.4	140.9	143.9	180	0.9	6	●	2	
MPS1-0490-L30C		30	205.9	147.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0490-L35C		35	229.9	172.4	190.9	192.9	229	0.9	6	□	2	
MPS1-0490-L40C		40	254.9	196.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0500S-DIN		5.0	3	65.9	20.4	27.9	28.9	65	0.9	6	□	4
MPS1-0500S-DIN-C			3	65.9	20.4	27.9	28.9	65	0.9	6	●	2
MPS1-0500L-DIN	5		81.9	36.4	43.9	44.9	81	0.9	6	□	4	
MPS1-0500L-DIN-C	5		81.9	36.4	43.9	44.9	81	0.9	6	●	2	
MPS1-0500-PC	2		62.8	10.8	24.8	25.8	62	0.8	6	●	2	
MPS1-0500-L8C	8		96.0	41.0	56.0	59.0	95	1.0	6	●	2	
MPS1-0500-L10C	10		105.9	50.9	65.9	68.9	105	0.9	6	●	2	
MPS1-0500-L12C	12		115.9	60.9	75.9	78.9	115	0.9	6	●	2	
MPS1-0500-L15C	15		130.9	75.9	90.9	93.9	130	0.9	6	●	2	
MPS1-0500-L20C	20		155.9	100.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0500-L25C	25		180.9	125.9	140.9	143.9	180	0.9	6	●	2	
MPS1-0500-L30C	30		205.9	150.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0500-L35C	35		229.9	175.9	190.9	192.9	229	0.9	6	□	2	
MPS1-0500-L40C	40		254.9	200.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0505S-DIN	5.05		3	65.9	20.3	27.9	28.9	65	0.9	6	□	4
MPS1-0505S-DIN-C			3	65.9	20.3	27.9	28.9	65	0.9	6	●	2
MPS1-0505L-DIN		5	81.9	36.3	43.9	44.9	81	0.9	6	□	4	
MPS1-0505L-DIN-C		5	81.9	36.3	43.9	44.9	81	0.9	6	●	2	
MPS1-0510S-DIN		5.1	3	65.9	20.3	27.9	28.9	65	0.9	6	□	4
MPS1-0510S-DIN-C			3	65.9	20.3	27.9	28.9	65	0.9	6	●	2
MPS1-0510L-DIN			5	81.9	36.3	43.9	44.9	81	0.9	6	□	4
MPS1-0510L-DIN-C			5	81.9	36.3	43.9	44.9	81	0.9	6	●	2
MPS1-0510-PC			2	66.8	11.0	26.8	28.8	66	0.8	6	●	2
MPS1-0510-L8C			8	102.1	41.9	62.1	65.1	101	1.1	6	●	2
MPS1-0510-L10C			10	112.9	51.9	72.9	75.9	112	0.9	6	□	2
MPS1-0510-L12C			12	123.9	62.1	83.9	86.9	123	0.9	6	●	2
MPS1-0510-L15C			15	139.9	77.4	99.9	102.9	139	0.9	6	●	2
MPS1-0510-L20C			20	167.9	102.9	127.9	130.9	167	0.9	6	●	2
MPS1-0510-L25C			25	194.9	128.4	154.9	157.9	194	0.9	6	●	2
MPS1-0510-L30C			30	222.9	153.9	182.9	185.9	222	0.9	6	●	2
MPS1-0510-L35C	35		248.9	179.4	203.9	211.9	248	0.9	6	□	2	
MPS1-0510-L40C	40		278.9	204.9	230.9	241.9	278	0.9	6	●	2	

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0520S-DIN	5.2	3	65.9	20.1	27.9	28.9	65	0.9	6	□	4
MPS1-0520S-DIN-C		3	65.9	20.1	27.9	28.9	65	0.9	6	●	2
MPS1-0520L-DIN		5	81.9	36.1	43.9	44.9	81	0.9	6	□	4
MPS1-0520L-DIN-C		5	81.9	36.1	43.9	44.9	81	0.9	6	●	2
MPS1-0520-PC		2	66.8	11.2	26.8	28.8	66	0.8	6	●	2
MPS1-0520-L8C		8	102.1	42.7	62.1	65.1	101	1.1	6	●	2
MPS1-0520-L10C		10	112.9	52.9	72.9	75.9	112	0.9	6	□	2
MPS1-0520-L12C		12	123.9	63.3	83.9	86.9	123	0.9	6	●	2
MPS1-0520-L15C		15	139.9	78.9	99.9	102.9	139	0.9	6	●	2
MPS1-0520-L20C		20	167.9	104.9	127.9	130.9	167	0.9	6	●	2
MPS1-0520-L25C		25	194.9	130.9	154.9	157.9	194	0.9	6	●	2
MPS1-0520-L30C		30	222.9	156.9	182.9	185.9	222	0.9	6	●	2
MPS1-0520-L35C		35	248.9	182.9	203.9	211.9	248	0.9	6	□	2
MPS1-0520-L40C		40	278.9	208.9	230.9	241.9	278	0.9	6	●	2
MPS1-0530S-DIN	5.3	3	66.0	20.0	28.0	29.0	65	1.0	6	□	4
MPS1-0530S-DIN-C		3	66.0	20.0	28.0	29.0	65	1.0	6	●	2
MPS1-0530L-DIN		5	82.0	36.0	44.0	45.0	81	1.0	6	□	4
MPS1-0530L-DIN-C		5	82.0	36.0	44.0	45.0	81	1.0	6	●	2
MPS1-0530-PC		2	66.8	11.4	26.8	28.8	66	0.8	6	●	2
MPS1-0530-L8C		8	102.1	43.5	62.1	65.1	101	1.1	6	●	2
MPS1-0530-L10C		10	113.0	54.0	73.0	76.0	112	1.0	6	□	2
MPS1-0530-L12C		12	124.0	64.6	84.0	87.0	123	1.0	6	●	2
MPS1-0530-L15C		15	140.0	80.5	100.0	103.0	139	1.0	6	●	2
MPS1-0530-L20C		20	168.0	107.0	128.0	131.0	167	1.0	6	□	2
MPS1-0530-L25C		25	195.0	133.5	155.0	158.0	194	1.0	6	●	2
MPS1-0530-L30C		30	223.0	160.0	183.0	186.0	222	1.0	6	●	2
MPS1-0530-L35C		35	249.0	186.5	210.0	212.0	248	1.0	6	□	2
MPS1-0530-L40C		40	279.0	213.0	241.0	242.0	278	1.0	6	●	2
MPS1-0540S-DIN	5.4	3	66.0	19.9	28.0	29.0	65	1.0	6	□	2
MPS1-0540S-DIN-C		3	66.0	19.9	28.0	29.0	65	1.0	6	●	4
MPS1-0540L-DIN		5	82.0	35.9	44.0	45.0	81	1.0	6	□	4
MPS1-0540L-DIN-C		5	82.0	35.9	44.0	45.0	81	1.0	6	●	2
MPS1-0540-PC		2	66.9	11.7	26.9	28.9	66	0.9	6	●	2
MPS1-0540-L8C		8	102.1	44.3	62.1	65.1	101	1.1	6	●	2
MPS1-0540-L10C		10	113.0	55.0	73.0	76.0	112	1.0	6	□	2
MPS1-0540-L12C		12	124.0	65.8	84.0	87.0	123	1.0	6	●	2
MPS1-0540-L15C		15	140.0	82.0	100.0	103.0	139	1.0	6	●	2
MPS1-0540-L20C		20	168.0	109.0	128.0	131.0	167	1.0	6	□	2
MPS1-0540-L25C		25	195.0	136.0	155.0	158.0	194	1.0	6	□	2
MPS1-0540-L30C		30	223.0	163.0	183.0	186.0	222	1.0	6	□	2
MPS1-0540-L35C		35	249.0	190.0	210.0	212.0	248	1.0	6	□	2
MPS1-0540-L40C		40	279.0	217.0	241.0	242.0	278	1.0	6	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0550S-DIN	5.5	3	66.0	19.8	28.0	29.0	65	1.0	6	□	4
MPS1-0550S-DIN-C		3	66.0	19.8	28.0	29.0	65	1.0	6	●	2
MPS1-0550L-DIN		5	82.0	35.8	44.0	45.0	81	1.0	6	□	4
MPS1-0550L-DIN-C		5	82.0	35.8	44.0	45.0	81	1.0	6	●	2
MPS1-0550-PC		2	66.9	11.9	26.9	28.9	66	0.9	6	●	2
MPS1-0550-L8C		8	102.1	45.1	62.1	65.1	101	1.1	6	●	2
MPS1-0550-L10C		10	113.0	56.0	73.0	76.0	112	1.0	6	□	2
MPS1-0550-L12C		12	124.0	67.0	84.0	87.0	123	1.0	6	●	2
MPS1-0550-L15C		15	140.0	83.5	100.0	103.0	139	1.0	6	●	2
MPS1-0550-L20C		20	168.0	111.0	128.0	131.0	167	1.0	6	●	2
MPS1-0550-L25C		25	195.0	138.5	155.0	158.0	194	1.0	6	●	2
MPS1-0550-L30C		30	223.0	166.0	183.0	186.0	222	1.0	6	●	2
MPS1-0550-L35C		35	249.0	193.5	210.0	212.0	248	1.0	6	□	2
MPS1-0550-L40C		40	279.0	221.0	241.0	242.0	278	1.0	6	●	2
MPS1-0555S-DIN	5.55	3	66.0	19.7	28.0	29.0	65	1.0	6	□	4
MPS1-0555S-DIN-C		3	66.0	19.7	28.0	29.0	65	1.0	6	●	2
MPS1-0555L-DIN		5	82.0	35.7	44.0	45.0	81	1.0	6	□	4
MPS1-0555L-DIN-C		5	82.0	35.7	44.0	45.0	81	1.0	6	●	2
MPS1-0560S-DIN	5.6	3	66.0	19.6	28.0	29.0	65	1.0	6	□	4
MPS1-0560S-DIN-C		3	66.0	19.6	28.0	29.0	65	1.0	6	●	2
MPS1-0560L-DIN		5	82.0	35.6	44.0	45.0	81	1.0	6	□	4
MPS1-0560L-DIN-C		5	82.0	35.6	44.0	45.0	81	1.0	6	●	2
MPS1-0560-PC		2	66.9	12.1	28.9	28.9	66	0.9	6	●	2
MPS1-0560-L8C		8	107.2	46.0	67.2	70.2	106	1.2	6	●	2
MPS1-0560-L10C		10	119.0	57.0	79.0	82.0	118	1.0	6	□	2
MPS1-0560-L12C		12	131.0	68.2	91.0	94.0	130	1.0	6	●	2
MPS1-0560-L15C		15	149.0	85.0	109.0	112.0	148	1.0	6	●	2
MPS1-0560-L20C		20	179.0	113.0	139.0	142.0	178	1.0	6	□	2
MPS1-0560-L25C		25	209.0	141.0	169.0	172.0	208	1.0	6	□	2
MPS1-0560-L30C		30	239.0	169.0	199.0	202.0	238	1.0	6	●	2
MPS1-0560-L35C		35	268.0	197.0	223.0	231.0	267	1.0	6	□	2
MPS1-0560-L40C		40	299.0	225.0	251.0	262.0	298	1.0	6	●	2
MPS1-0570S-DIN	5.7	3	66.0	19.5	28.0	29.0	65	1.0	6	□	4
MPS1-0570S-DIN-C		3	66.0	19.5	28.0	29.0	65	1.0	6	●	2
MPS1-0570L-DIN		5	82.0	35.5	44.0	45.0	81	1.0	6	□	4
MPS1-0570L-DIN-C		5	82.0	35.5	44.0	45.0	81	1.0	6	●	2
MPS1-0570-PC		2	66.9	12.3	28.9	28.9	66	0.9	6	●	2
MPS1-0570-L8C		8	107.2	46.8	67.2	70.2	106	1.2	6	●	2
MPS1-0570-L10C		10	119.0	58.0	79.0	82.0	118	1.0	6	□	2
MPS1-0570-L12C		12	131.0	69.4	91.0	94.0	130	1.0	6	●	2
MPS1-0570-L15C		15	149.0	86.5	109.0	112.0	148	1.0	6	●	2
MPS1-0570-L20C		20	179.0	115.0	139.0	142.0	178	1.0	6	□	2
MPS1-0570-L25C		25	209.0	143.5	169.0	172.0	208	1.0	6	●	2
MPS1-0570-L30C		30	239.0	172.0	199.0	202.0	238	1.0	6	□	2
MPS1-0570-L35C		35	268.0	200.5	223.0	231.0	267	1.0	6	□	2
MPS1-0570-L40C		40	299.0	229.0	251.0	262.0	298	1.0	6	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0580S-DIN	5.8	3	66.1	19.4	28.1	29.1	65	1.1	6	□	4
MPS1-0580S-DIN-C		3	66.1	19.4	28.1	29.1	65	1.1	6	●	2
MPS1-0580L-DIN		5	82.1	35.4	44.1	45.1	81	1.1	6	□	4
MPS1-0580L-DIN-C		5	82.1	35.4	44.1	45.1	81	1.1	6	●	2
MPS1-0580-PC		2	66.9	12.5	28.9	28.9	66	0.9	6	●	2
MPS1-0580-L8C		8	107.2	47.6	67.2	70.2	106	1.2	6	●	2
MPS1-0580-L10C		10	119.1	59.1	79.1	82.1	118	1.1	6	□	2
MPS1-0580-L12C		12	131.1	70.7	91.1	94.1	130	1.1	6	●	2
MPS1-0580-L15C		15	149.1	88.1	109.1	112.1	148	1.1	6	●	2
MPS1-0580-L20C		20	179.1	117.1	139.1	142.1	178	1.1	6	●	2
MPS1-0580-L25C		25	209.1	146.1	169.1	172.1	208	1.1	6	□	2
MPS1-0580-L30C		30	239.1	175.1	199.1	202.1	238	1.1	6	●	2
MPS1-0580-L35C		35	268.1	204.1	229.1	231.1	267	1.1	6	□	2
MPS1-0580-L40C		40	299.1	233.1	261.1	262.1	298	1.1	6	●	2
MPS1-0590S-DIN	5.9	3	66.1	19.2	28.1	29.1	65	1.1	6	□	4
MPS1-0590S-DIN-C		3	66.1	19.2	28.1	29.1	65	1.1	6	●	2
MPS1-0590L-DIN		5	82.1	35.2	44.1	45.1	81	1.1	6	□	4
MPS1-0590L-DIN-C		5	82.1	35.2	44.1	45.1	81	1.1	6	●	2
MPS1-0590-PC		2	66.9	12.7	28.9	28.9	66	0.9	6	●	2
MPS1-0590-L8C		8	107.2	48.4	67.2	70.2	106	1.2	6	●	2
MPS1-0590-L10C		10	119.1	60.1	79.1	82.1	118	1.1	6	□	2
MPS1-0590-L12C		12	131.1	71.9	91.1	94.1	130	1.1	6	●	2
MPS1-0590-L15C		15	149.1	89.6	109.1	112.1	148	1.1	6	●	2
MPS1-0590-L20C		20	179.1	119.1	139.1	142.1	178	1.1	6	●	2
MPS1-0590-L25C		25	209.1	148.6	169.1	172.1	208	1.1	6	●	2
MPS1-0590-L30C		30	239.1	178.1	199.1	202.1	238	1.1	6	□	2
MPS1-0590-L35C		35	268.1	207.6	229.1	231.1	267	1.1	6	□	2
MPS1-0590-L40C		40	299.1	237.1	261.1	262.1	298	1.1	6	●	2
MPS1-0600S-DIN	6.0	3	66.1	19.1	28.1	29.1	65	1.1	6	□	4
MPS1-0600S-DIN-C		3	66.1	19.1	28.1	29.1	65	1.1	6	●	2
MPS1-0600L-DIN		5	82.1	35.1	44.1	45.1	81	1.1	6	□	4
MPS1-0600L-DIN-C		5	82.1	35.1	44.1	45.1	81	1.1	6	●	2
MPS1-0600-PC		2	66.9	12.9	28.9	28.9	66	0.9	6	●	2
MPS1-0600-L8C		8	107.2	49.2	67.2	70.2	106	1.2	6	●	2
MPS1-0600-L10C		10	119.1	61.1	79.1	82.1	118	1.1	6	□	2
MPS1-0600-L12C		12	131.1	73.1	91.1	94.1	130	1.1	6	●	2
MPS1-0600-L15C		15	149.1	91.1	109.1	112.1	148	1.1	6	●	2
MPS1-0600-L20C		20	179.1	121.1	139.1	142.1	178	1.1	6	●	2
MPS1-0600-L25C		25	209.1	151.1	169.1	172.1	208	1.1	6	●	2
MPS1-0600-L30C		30	239.1	181.1	199.1	202.1	238	1.1	6	●	2
MPS1-0600-L35C		35	268.1	211.1	229.1	231.1	267	1.1	6	□	2
MPS1-0600-L40C		40	299.1	241.1	261.1	262.1	298	1.1	6	●	2
MPS1-0605S-DIN	6.05	3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0605S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0605L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0605L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0610S-DIN	6.1	3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0610S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0610L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0610L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2
MPS1-0610-PC		2	75.0	13.2	32.0	35.0	74	1.0	8	●	2
MPS1-0610-L8C		8	113.3	50.1	73.3	76.3	112	1.3	8	●	2
MPS1-0610-L10C		10	126.1	62.1	86.1	89.1	125	1.1	8	□	2
MPS1-0610-L12C		12	139.1	74.3	99.1	102.1	138	1.1	8	●	2
MPS1-0610-L15C		15	158.1	92.6	118.1	121.1	157	1.1	8	●	2
MPS1-0610-L20C		20	191.1	123.1	151.1	154.1	190	1.1	8	●	2
MPS1-0610-L25C		25	223.1	153.6	183.1	186.1	222	1.1	8	●	2
MPS1-0610-L30C		30	256.1	184.1	216.1	219.1	255	1.1	8	●	2
MPS1-0610-L35C		35	287.1	214.6	241.1	250.1	286	1.1	8	□	2
MPS1-0610-L40C		40	321.1	245.1	271.1	284.1	320	1.1	8	●	2
MPS1-0620S-DIN	6.2	3	79.1	24.8	34.1	42.1	78	1.1	8	□	4
MPS1-0620S-DIN-C		3	79.1	24.8	34.1	42.1	78	1.1	8	●	2
MPS1-0620L-DIN		5	91.1	43.8	53.1	54.1	90	1.1	8	□	4
MPS1-0620L-DIN-C		5	91.1	43.8	53.1	54.1	90	1.1	8	●	2
MPS1-0620-PC		2	75.0	13.4	32.0	35.0	74	1.0	8	●	2
MPS1-0620-L8C		8	113.3	50.9	73.3	76.3	112	1.3	8	●	2
MPS1-0620-L10C		10	126.1	63.1	86.1	89.1	125	1.1	8	□	2
MPS1-0620-L12C		12	139.1	75.5	99.1	102.1	138	1.1	8	●	2
MPS1-0620-L15C		15	158.1	94.1	118.1	121.1	157	1.1	8	●	2
MPS1-0620-L20C		20	191.1	125.1	151.1	154.1	190	1.1	8	●	2
MPS1-0620-L25C		25	223.1	156.1	183.1	186.1	222	1.1	8	□	2
MPS1-0620-L30C		30	256.1	187.1	216.1	219.1	255	1.1	8	●	2
MPS1-0620-L35C		35	287.1	218.1	241.1	250.1	286	1.1	8	□	2
MPS1-0620-L40C		40	321.1	249.1	271.1	284.1	320	1.1	8	●	2
MPS1-0630S-DIN	6.3	3	79.1	24.7	34.1	42.1	78	1.1	8	□	4
MPS1-0630S-DIN-C		3	79.1	24.7	34.1	42.1	78	1.1	8	●	2
MPS1-0630L-DIN		5	91.1	43.7	53.1	54.1	90	1.1	8	□	4
MPS1-0630L-DIN-C		5	91.1	43.7	53.1	54.1	90	1.1	8	●	2
MPS1-0630-PC		2	75.0	13.6	32.0	35.0	74	1.0	8	●	2
MPS1-0630-L8C		8	113.3	51.7	73.3	76.3	112	1.3	8	●	2
MPS1-0630-L10C		10	126.1	64.1	86.1	89.1	125	1.1	8	□	2
MPS1-0630-L12C		12	139.1	76.7	99.1	102.1	138	1.1	8	●	2
MPS1-0630-L15C		15	158.1	95.6	118.1	121.1	157	1.1	8	●	2
MPS1-0630-L20C		20	191.1	127.1	151.1	154.1	190	1.1	8	●	2
MPS1-0630-L25C		25	223.1	158.6	183.1	186.1	222	1.1	8	□	2
MPS1-0630-L30C		30	256.1	190.1	216.1	219.1	255	1.1	8	●	2
MPS1-0630-L35C		35	287.1	221.6	248.1	250.1	286	1.1	8	□	2
MPS1-0630-L40C		40	321.1	253.1	281.1	284.1	320	1.1	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0640S-DIN	6.4	3	79.2	24.6	34.2	42.2	78	1.2	8	□	4
MPS1-0640S-DIN-C		3	79.2	24.6	34.2	42.2	78	1.2	8	●	2
MPS1-0640L-DIN		5	91.2	43.6	53.2	54.2	90	1.2	8	□	4
MPS1-0640L-DIN-C		5	91.2	43.6	53.2	54.2	90	1.2	8	●	2
MPS1-0640-PC		2	75.0	13.8	32.0	35.0	74	1.0	8	●	2
MPS1-0640-L8C		8	113.3	52.5	73.3	76.3	112	1.3	8	●	2
MPS1-0640-L10C		10	126.2	65.2	86.2	89.2	125	1.2	8	□	2
MPS1-0640-L12C		12	139.2	78.0	99.2	102.2	138	1.2	8	●	2
MPS1-0640-L15C		15	158.2	97.2	118.2	121.2	157	1.2	8	●	2
MPS1-0640-L20C		20	191.2	129.2	151.2	154.2	190	1.2	8	●	2
MPS1-0640-L25C		25	223.2	161.2	183.2	186.2	222	1.2	8	●	2
MPS1-0640-L30C		30	256.2	193.2	216.2	219.2	255	1.2	8	●	2
MPS1-0640-L35C		35	287.2	225.2	248.2	250.2	286	1.2	8	□	2
MPS1-0640-L40C		40	321.2	257.2	281.2	284.2	320	1.2	8	●	2
MPS1-0650S-DIN	6.5	3	79.2	24.4	34.2	42.2	78	1.2	8	□	4
MPS1-0650S-DIN-C		3	79.2	24.4	34.2	42.2	78	1.2	8	●	2
MPS1-0650L-DIN		5	91.2	43.4	53.2	54.2	90	1.2	8	□	4
MPS1-0650L-DIN-C		5	91.2	43.4	53.2	54.2	90	1.2	8	●	2
MPS1-0650-PC		2	75.0	14.0	32.0	35.0	74	1.0	8	●	2
MPS1-0650-L8C		8	113.3	53.3	73.3	76.3	112	1.3	8	●	2
MPS1-0650-L10C		10	126.2	66.2	86.2	89.2	125	1.2	8	□	2
MPS1-0650-L12C		12	139.2	79.2	99.2	102.2	138	1.2	8	●	2
MPS1-0650-L15C		15	158.2	98.7	118.2	121.2	157	1.2	8	●	2
MPS1-0650-L20C		20	191.2	131.2	151.2	154.2	190	1.2	8	●	2
MPS1-0650-L25C		25	223.2	163.7	183.2	186.2	222	1.2	8	●	2
MPS1-0650-L30C		30	256.2	196.2	216.2	219.2	255	1.2	8	●	2
MPS1-0650-L35C		35	287.2	228.7	248.2	250.2	286	1.2	8	□	2
MPS1-0650-L40C		40	321.2	261.2	281.2	284.2	320	1.2	8	●	2
MPS1-0660S-DIN	6.6	3	79.2	24.3	34.2	42.2	78	1.2	8	□	4
MPS1-0660S-DIN-C		3	79.2	24.3	34.2	42.2	78	1.2	8	●	2
MPS1-0660L-DIN		5	91.2	43.3	53.2	54.2	90	1.2	8	□	4
MPS1-0660L-DIN-C		5	91.2	43.3	53.2	54.2	90	1.2	8	●	2
MPS1-0660-PC		2	75.0	14.2	35.0	37.0	74	1.0	8	●	2
MPS1-0660-L8C		8	118.4	54.2	78.4	81.4	117	1.4	8	●	2
MPS1-0660-L10C		10	132.2	67.2	92.2	95.2	131	1.2	8	□	2
MPS1-0660-L12C		12	146.2	80.4	106.2	109.2	145	1.2	8	●	2
MPS1-0660-L15C		15	167.2	100.2	127.2	130.2	166	1.2	8	●	2
MPS1-0660-L20C		20	202.2	133.2	162.2	165.2	201	1.2	8	□	2
MPS1-0660-L25C		25	237.2	166.2	197.2	200.2	236	1.2	8	●	2
MPS1-0660-L30C		30	272.2	199.2	232.2	235.2	271	1.2	8	●	2
MPS1-0660-L35C		35	306.2	232.2	267.2	269.2	305	1.2	8	□	2
MPS1-0660-L40C		40	341.2	265.2	301.2	304.2	340	1.2	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0670S-DIN	6.7	3	79.2	24.2	34.2	42.2	78	1.2	8	□	4
MPS1-0670S-DIN-C		3	79.2	24.2	34.2	42.2	78	1.2	8	●	2
MPS1-0670L-DIN		5	91.2	43.2	53.2	54.2	90	1.2	8	□	4
MPS1-0670L-DIN-C		5	91.2	43.2	53.2	54.2	90	1.2	8	●	2
MPS1-0670-PC		2	75.1	14.5	35.1	37.1	74	1.1	8	●	2
MPS1-0670-L8C		8	118.4	55.0	78.4	81.4	117	1.4	8	●	2
MPS1-0670-L10C		10	132.2	68.2	92.2	95.2	131	1.2	8	□	2
MPS1-0670-L12C		12	146.2	81.6	106.2	109.2	145	1.2	8	●	2
MPS1-0670-L15C		15	167.2	101.7	127.2	130.2	166	1.2	8	●	2
MPS1-0670-L20C		20	202.2	135.2	162.2	165.2	201	1.2	8	□	2
MPS1-0670-L25C		25	237.2	168.7	197.2	200.2	236	1.2	8	□	2
MPS1-0670-L30C		30	272.2	202.2	232.2	235.2	271	1.2	8	●	2
MPS1-0670-L35C		35	306.2	235.7	267.2	269.2	305	1.2	8	□	2
MPS1-0670-L40C		40	341.2	269.2	301.2	304.2	340	1.2	8	□	2
MPS1-0680S-DIN	6.8	3	79.2	24.0	34.2	42.2	78	1.2	8	●	4
MPS1-0680S-DIN-C		3	79.2	24.0	34.2	42.2	78	1.2	8	●	2
MPS1-0680L-DIN		5	91.2	43.0	53.2	54.2	90	1.2	8	□	4
MPS1-0680L-DIN-C		5	91.2	43.0	53.2	54.2	90	1.2	8	●	2
MPS1-0680-PC		2	75.1	14.7	35.1	37.1	74	1.1	8	●	2
MPS1-0680-L8C		8	118.4	55.8	78.4	81.4	117	1.4	8	●	2
MPS1-0680-L10C		10	132.2	69.2	92.2	95.2	131	1.2	8	□	2
MPS1-0680-L12C		12	146.2	82.8	106.2	109.2	145	1.2	8	●	2
MPS1-0680-L15C		15	167.2	103.2	127.2	130.2	166	1.2	8	●	2
MPS1-0680-L20C		20	202.2	137.2	162.2	165.2	201	1.2	8	●	2
MPS1-0680-L25C		25	237.2	171.2	197.2	200.2	236	1.2	8	●	2
MPS1-0680-L30C		30	272.2	205.2	232.2	235.2	271	1.2	8	●	2
MPS1-0680-L35C		35	306.2	239.2	267.2	269.2	305	1.2	8	□	2
MPS1-0680-L40C		40	341.2	273.2	301.2	304.2	340	1.2	8	●	2
MPS1-0690S-DIN	6.9	3	79.3	23.9	34.3	42.3	78	1.3	8	□	4
MPS1-0690S-DIN-C		3	79.3	23.9	34.3	42.3	78	1.3	8	●	2
MPS1-0690L-DIN		5	91.3	42.9	53.3	54.3	90	1.3	8	□	4
MPS1-0690L-DIN-C		5	91.3	42.9	53.3	54.3	90	1.3	8	●	2
MPS1-0690-PC		2	75.1	14.9	35.1	37.1	74	1.1	8	●	2
MPS1-0690-L8C		8	118.4	56.6	78.4	81.4	117	1.4	8	●	2
MPS1-0690-L10C		10	132.3	70.3	92.3	95.3	131	1.3	8	□	2
MPS1-0690-L12C		12	146.3	84.1	106.3	109.3	145	1.3	8	●	2
MPS1-0690-L15C		15	167.3	104.8	127.3	130.3	166	1.3	8	●	2
MPS1-0690-L20C		20	202.3	139.3	162.3	165.3	201	1.3	8	●	2
MPS1-0690-L25C		25	237.3	173.8	197.3	200.3	236	1.3	8	●	2
MPS1-0690-L30C		30	272.3	208.3	232.3	235.3	271	1.3	8	●	2
MPS1-0690-L35C		35	306.3	242.8	267.3	269.3	305	1.3	8	□	2
MPS1-0690-L40C		40	341.3	277.3	301.3	304.3	340	1.3	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0700S-DIN	7.0	3	79.3	23.8	34.3	42.3	78	1.3	8	□	4
MPS1-0700S-DIN-C		3	79.3	23.8	34.3	42.3	78	1.3	8	●	2
MPS1-0700L-DIN		5	91.3	42.8	53.3	54.3	90	1.3	8	□	4
MPS1-0700L-DIN-C		5	91.3	42.8	53.3	54.3	90	1.3	8	●	2
MPS1-0700-PC		2	75.1	15.1	35.1	37.1	74	1.1	8	●	2
MPS1-0700-L8C		8	118.4	57.4	78.4	81.4	117	1.4	8	●	2
MPS1-0700-L10C		10	132.3	71.3	92.3	95.3	131	1.3	8	●	2
MPS1-0700-L12C		12	146.3	85.3	106.3	109.3	145	1.3	8	●	2
MPS1-0700-L15C		15	167.3	106.3	127.3	130.3	166	1.3	8	●	2
MPS1-0700-L20C		20	202.3	141.3	162.3	165.3	201	1.3	8	●	2
MPS1-0700-L25C		25	237.3	176.3	197.3	200.3	236	1.3	8	●	2
MPS1-0700-L30C		30	272.3	211.3	232.3	235.3	271	1.3	8	●	2
MPS1-0700-L35C		35	306.3	246.3	267.3	269.3	305	1.3	8	□	2
MPS1-0700-L40C		40	341.3	281.3	301.3	304.3	340	1.3	8	●	2
MPS1-0710S-DIN	7.1	3	79.3	30.6	41.3	42.3	78	1.3	8	□	4
MPS1-0710S-DIN-C		3	79.3	30.6	41.3	42.3	78	1.3	8	●	2
MPS1-0710L-DIN		5	91.3	42.6	53.3	54.3	90	1.3	8	□	4
MPS1-0710L-DIN-C		5	91.3	42.6	53.3	54.3	90	1.3	8	●	2
MPS1-0710-PC		2	80.1	15.3	35.1	38.1	79	1.1	8	●	2
MPS1-0710-L8C		8	124.5	58.3	84.5	87.5	123	1.5	8	●	2
MPS1-0710-L10C		10	139.3	72.3	99.3	102.3	138	1.3	8	□	2
MPS1-0710-L12C		12	154.3	86.5	114.3	117.3	153	1.3	8	●	2
MPS1-0710-L15C		15	176.3	107.8	136.3	139.3	175	1.3	8	●	2
MPS1-0710-L20C		20	214.3	143.3	174.3	177.3	213	1.3	8	●	2
MPS1-0710-L25C		25	251.3	178.8	211.3	214.3	250	1.3	8	●	2
MPS1-0710-L30C		30	289.3	214.3	249.3	252.3	288	1.3	8	●	2
MPS1-0710-L35C		35	325.3	249.8	286.3	288.3	324	1.3	8	□	2
MPS1-0710-L40C		40	360.3	285.3	321.3	323.3	359	1.3	8	●	2
MPS1-0720S-DIN	7.2	3	79.3	30.5	41.3	42.3	78	1.3	8	□	4
MPS1-0720S-DIN-C		3	79.3	30.5	41.3	42.3	78	1.3	8	●	2
MPS1-0720L-DIN		5	91.3	42.5	53.3	54.3	90	1.3	8	□	4
MPS1-0720L-DIN-C		5	91.3	42.5	53.3	54.3	90	1.3	8	●	2
MPS1-0720-PC		2	80.1	15.5	35.1	38.1	79	1.1	8	●	2
MPS1-0720-L8C		8	124.5	59.1	84.5	87.5	123	1.5	8	●	2
MPS1-0720-L10C		10	139.3	73.3	99.3	102.3	138	1.3	8	□	2
MPS1-0720-L12C		12	154.3	87.7	114.3	117.3	153	1.3	8	●	2
MPS1-0720-L15C		15	176.3	109.3	136.3	139.3	175	1.3	8	□	2
MPS1-0720-L20C		20	214.3	145.3	174.3	177.3	213	1.3	8	□	2
MPS1-0720-L25C		25	251.3	181.3	211.3	214.3	250	1.3	8	□	2
MPS1-0720-L30C		30	289.3	217.3	249.3	252.3	288	1.3	8	□	2
MPS1-0720-L35C		35	325.3	253.3	286.3	288.3	324	1.3	8	□	2
MPS1-0720-L40C		40	360.3	289.3	321.3	323.3	359	1.3	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0730S-DIN	7.3	3	79.3	30.4	41.3	42.3	78	1.3	8	□	4
MPS1-0730S-DIN-C		3	79.3	30.4	41.3	42.3	78	1.3	8	●	2
MPS1-0730L-DIN		5	91.3	42.4	53.3	54.3	90	1.3	8	□	4
MPS1-0730L-DIN-C		5	91.3	42.4	53.3	54.3	90	1.3	8	●	2
MPS1-0730-PC		2	80.2	15.8	35.2	38.2	79	1.2	8	●	2
MPS1-0730-L8C		8	124.5	59.9	84.5	87.5	123	1.5	8	●	2
MPS1-0730-L10C		10	139.3	74.3	99.3	102.3	138	1.3	8	□	2
MPS1-0730-L12C		12	154.3	88.9	114.3	117.3	153	1.3	8	●	2
MPS1-0730-L15C		15	176.3	110.8	136.3	139.3	175	1.3	8	□	2
MPS1-0730-L20C		20	214.3	147.3	174.3	177.3	213	1.3	8	□	2
MPS1-0730-L25C		25	251.3	183.8	211.3	214.3	250	1.3	8	□	2
MPS1-0730-L30C		30	289.3	220.3	249.3	252.3	288	1.3	8	□	2
MPS1-0730-L35C		35	325.3	256.8	286.3	288.3	324	1.3	8	□	2
MPS1-0730-L40C		40	360.3	293.3	321.3	323.3	359	1.3	8	●	2
MPS1-0740S-DIN	7.4	3	79.3	30.2	41.3	42.3	78	1.3	8	□	4
MPS1-0740S-DIN-C		3	79.3	30.2	41.3	42.3	78	1.3	8	●	2
MPS1-0740L-DIN		5	91.3	42.2	53.3	54.3	90	1.3	8	□	4
MPS1-0740L-DIN-C		5	91.3	42.2	53.3	54.3	90	1.3	8	●	2
MPS1-0740-PC		2	80.2	16.0	35.2	38.2	79	1.2	8	●	2
MPS1-0740-L8C		8	124.5	60.7	84.5	87.5	123	1.5	8	●	2
MPS1-0740-L10C		10	139.3	75.3	99.3	102.3	138	1.3	8	□	2
MPS1-0740-L12C		12	154.3	90.1	114.3	117.3	153	1.3	8	●	2
MPS1-0740-L15C		15	176.3	112.3	136.3	139.3	175	1.3	8	□	2
MPS1-0740-L20C		20	214.3	149.3	174.3	177.3	213	1.3	8	□	2
MPS1-0740-L25C		25	251.3	186.3	211.3	214.3	250	1.3	8	□	2
MPS1-0740-L30C		30	289.3	223.3	249.3	252.3	288	1.3	8	□	2
MPS1-0740-L35C		35	325.3	260.3	286.3	288.3	324	1.3	8	□	2
MPS1-0740-L40C		40	360.3	297.3	321.3	323.3	359	1.3	8	●	2
MPS1-0750S-DIN	7.5	3	79.4	30.1	41.4	42.4	78	1.4	8	□	4
MPS1-0750S-DIN-C		3	79.4	30.1	41.4	42.4	78	1.4	8	●	2
MPS1-0750L-DIN		5	91.4	42.1	53.4	54.4	90	1.4	8	□	4
MPS1-0750L-DIN-C		5	91.4	42.1	53.4	54.4	90	1.4	8	●	2
MPS1-0750-PC		2	80.2	16.2	35.2	38.2	79	1.2	8	●	2
MPS1-0750-L8C		8	124.6	61.6	84.6	87.6	123	1.6	8	●	2
MPS1-0750-L10C		10	139.4	76.4	99.4	102.4	138	1.4	8	□	2
MPS1-0750-L12C		12	154.4	91.4	114.4	117.4	153	1.4	8	●	2
MPS1-0750-L15C		15	176.4	113.9	136.4	139.4	175	1.4	8	●	2
MPS1-0750-L20C		20	214.4	151.4	174.4	177.4	213	1.4	8	●	2
MPS1-0750-L25C		25	251.4	188.9	211.4	214.4	250	1.4	8	●	2
MPS1-0750-L30C		30	289.4	226.4	249.4	252.4	288	1.4	8	●	2
MPS1-0750-L35C		35	325.4	263.9	286.4	288.4	324	1.4	8	□	2
MPS1-0750-L40C		40	360.4	301.4	321.4	323.4	359	1.4	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0760S-DIN	7.6	3	79.4	30.0	41.4	42.4	78	1.4	8	□	4
MPS1-0760S-DIN-C		3	79.4	30.0	41.4	42.4	78	1.4	8	●	2
MPS1-0760L-DIN		5	91.4	42.0	53.4	54.4	90	1.4	8	□	4
MPS1-0760L-DIN-C		5	91.4	42.0	53.4	54.4	90	1.4	8	●	2
MPS1-0760-PC		2	80.2	16.4	38.2	38.2	79	1.2	8	●	2
MPS1-0760-L8C		8	129.6	62.4	89.6	92.6	128	1.6	8	●	2
MPS1-0760-L10C		10	145.4	77.4	105.4	108.4	144	1.4	8	□	2
MPS1-0760-L12C		12	161.4	92.6	121.4	124.4	160	1.4	8	●	2
MPS1-0760-L15C		15	185.4	115.4	145.4	148.4	184	1.4	8	●	2
MPS1-0760-L20C		20	225.4	153.4	185.4	188.4	224	1.4	8	□	2
MPS1-0760-L25C		25	265.4	191.4	225.4	228.4	264	1.4	8	●	2
MPS1-0760-L30C		30	305.4	229.4	265.4	268.4	304	1.4	8	□	2
MPS1-0760-L35C		35	344.4	267.4	305.4	307.4	343	1.4	8	□	2
MPS1-0760-L40C		40	379.4	305.4	341.4	342.4	378	1.4	8	●	2
MPS1-0770S-DIN	7.7	3	79.4	29.9	41.4	42.4	78	1.4	8	□	4
MPS1-0770S-DIN-C		3	79.4	29.9	41.4	42.4	78	1.4	8	●	2
MPS1-0770L-DIN		5	91.4	41.9	53.4	54.4	90	1.4	8	□	4
MPS1-0770L-DIN-C		5	91.4	41.9	53.4	54.4	90	1.4	8	●	2
MPS1-0770-PC		2	80.2	16.6	38.2	38.2	79	1.2	8	●	2
MPS1-0770-L8C		8	129.6	63.2	89.6	92.6	128	1.6	8	●	2
MPS1-0770-L10C		10	145.4	78.4	105.4	108.4	144	1.4	8	□	2
MPS1-0770-L12C		12	161.4	93.8	121.4	124.4	160	1.4	8	●	2
MPS1-0770-L15C		15	185.4	116.9	145.4	148.4	184	1.4	8	●	2
MPS1-0770-L20C		20	225.4	155.4	185.4	188.4	224	1.4	8	□	2
MPS1-0770-L25C		25	265.4	193.9	225.4	228.4	264	1.4	8	●	2
MPS1-0770-L30C		30	305.4	232.4	265.4	268.4	304	1.4	8	□	2
MPS1-0770-L35C		35	344.4	270.9	305.4	307.4	343	1.4	8	□	2
MPS1-0770-L40C		40	379.4	309.4	341.4	342.4	378	1.4	8	●	2
MPS1-0780S-DIN	7.8	3	79.4	29.7	41.4	42.4	78	1.4	8	□	4
MPS1-0780S-DIN-C		3	79.4	29.7	41.4	42.4	78	1.4	8	●	2
MPS1-0780L-DIN		5	91.4	41.7	53.4	54.4	90	1.4	8	□	4
MPS1-0780L-DIN-C		5	91.4	41.7	53.4	54.4	90	1.4	8	●	2
MPS1-0780-PC		2	80.2	16.8	38.2	38.2	79	1.2	8	●	2
MPS1-0780-L8C		8	129.6	64.0	89.6	92.6	128	1.6	8	●	2
MPS1-0780-L10C		10	145.4	79.4	105.4	108.4	144	1.4	8	□	2
MPS1-0780-L12C		12	161.4	95.0	121.4	124.4	160	1.4	8	●	2
MPS1-0780-L15C		15	185.4	118.4	145.4	148.4	184	1.4	8	●	2
MPS1-0780-L20C		20	225.4	157.4	185.4	188.4	224	1.4	8	□	2
MPS1-0780-L25C		25	265.4	196.4	225.4	228.4	264	1.4	8	□	2
MPS1-0780-L30C		30	305.4	235.4	265.4	268.4	304	1.4	8	●	2
MPS1-0780-L35C		35	344.4	274.4	305.4	307.4	343	1.4	8	□	2
MPS1-0780-L40C		40	379.4	313.4	341.4	342.4	378	1.4	8	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type	
MPS1-0790S-DIN	7.9	3	79.4	29.6	41.4	42.4	78	1.4	8	□	4	
MPS1-0790S-DIN-C		3	79.4	29.6	41.4	42.4	78	1.4	8	●	2	
MPS1-0790L-DIN		5	91.4	41.6	53.4	54.4	90	1.4	8	□	4	
MPS1-0790L-DIN-C		5	91.4	41.6	53.4	54.4	90	1.4	8	●	2	
MPS1-0790-PC		2	80.2	17.0	38.2	38.2	79	1.2	8	●	2	
MPS1-0790-L8C		8	129.6	64.8	89.6	92.6	128	1.6	8	●	2	
MPS1-0790-L10C		10	145.4	80.4	105.4	108.4	144	1.4	8	□	2	
MPS1-0790-L12C		12	161.4	96.2	121.4	124.4	160	1.4	8	●	2	
MPS1-0790-L15C		15	185.4	119.9	145.4	148.4	184	1.4	8	□	2	
MPS1-0790-L20C		20	225.4	159.4	185.4	188.4	224	1.4	8	□	2	
MPS1-0790-L25C		25	265.4	198.9	225.4	228.4	264	1.4	8	●	2	
MPS1-0790-L30C		30	305.4	238.4	265.4	268.4	304	1.4	8	●	2	
MPS1-0790-L35C		35	344.4	277.9	305.4	307.4	343	1.4	8	□	2	
MPS1-0790-L40C		40	379.4	317.4	341.4	342.4	378	1.4	8	●	2	
MPS1-0800S-DIN	8.0	3	79.5	29.5	41.5	42.5	78	1.5	8	□	4	
MPS1-0800S-DIN-C		3	79.5	29.5	41.5	42.5	78	1.5	8	●	2	
MPS1-0800L-DIN		5	91.5	41.5	53.5	54.5	90	1.5	8	□	4	
MPS1-0800L-DIN-C		5	91.5	41.5	53.5	54.5	90	1.5	8	●	2	
MPS1-0800-PC		2	80.3	17.3	38.3	38.3	79	1.3	8	●	2	
MPS1-0800-L8C		8	129.7	65.7	89.7	92.7	128	1.7	8	●	2	
MPS1-0800-L10C		10	145.5	81.5	105.5	108.5	144	1.5	8	●	2	
MPS1-0800-L12C		12	161.5	97.5	121.5	124.5	160	1.5	8	●	2	
MPS1-0800-L15C		15	185.5	121.5	145.5	148.5	184	1.5	8	●	2	
MPS1-0800-L20C		20	225.5	161.5	185.5	188.5	224	1.5	8	●	2	
MPS1-0800-L25C		25	265.5	201.5	225.5	228.5	264	1.5	8	●	2	
MPS1-0800-L30C		30	305.5	241.5	265.5	268.5	304	1.5	8	●	2	
MPS1-0800-L35C		35	344.5	281.5	305.5	307.5	343	1.5	8	□	2	
MPS1-0800-L40C		40	379.5	321.5	341.5	342.5	378	1.5	8	●	2	
MPS1-0805S-DIN	8.05	3	88.5	34.4	46.5	47.5	87	1.5	10	□	4	
MPS1-0805S-DIN-C		3	88.5	34.4	46.5	47.5	87	1.5	10	●	2	
MPS1-0805L-DIN		5	102.5	48.4	60.5	61.5	101	1.5	10	□	4	
MPS1-0805L-DIN-C		5	102.5	48.4	60.5	61.5	101	1.5	10	●	2	
MPS1-0810S-DIN		8.1	3	88.5	34.3	46.5	47.5	87	1.5	10	□	4
MPS1-0810S-DIN-C			3	88.5	34.3	46.5	47.5	87	1.5	10	●	2
MPS1-0810L-DIN			5	102.5	48.3	60.5	61.5	101	1.5	10	□	4
MPS1-0810L-DIN-C			5	102.5	48.3	60.5	61.5	101	1.5	10	●	2
MPS1-0810-PC			2	85.3	17.5	38.3	41.3	84	1.3	10	●	2
MPS1-0810-L8C			8	139.7	66.5	95.7	98.7	138	1.7	10	●	2
MPS1-0810-L10C			10	156.5	82.5	112.5	115.5	155	1.5	10	□	2
MPS1-0810-L12C			12	173.5	98.7	129.5	132.5	172	1.5	10	●	2
MPS1-0810-L15C			15	198.5	123.0	154.5	157.5	197	1.5	10	●	2
MPS1-0810-L20C			20	241.5	163.5	197.5	200.5	240	1.5	10	●	2
MPS1-0810-L25C	25		283.5	204.0	239.5	242.5	282	1.5	10	□	2	
MPS1-0810-L30C	30		325.5	244.5	282.5	284.5	324	1.5	10	□	2	
MPS1-0810-L35C	35		367.5	285.0	324.5	326.5	366	1.5	10	□	2	
MPS1-0810-L40C	40		411.5	325.5	366.5	370.5	410	1.5	10	●	2	

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0820S-DIN	8.2	3	88.5	34.2	46.5	47.5	87	1.5	10	□	4
MPS1-0820S-DIN-C		3	88.5	34.2	46.5	47.5	87	1.5	10	●	2
MPS1-0820L-DIN		5	102.5	48.2	60.5	61.5	101	1.5	10	□	4
MPS1-0820L-DIN-C		5	102.5	48.2	60.5	61.5	101	1.5	10	●	2
MPS1-0820-PC		2	85.3	17.7	38.3	41.3	84	1.3	10	●	2
MPS1-0820-L8C		8	139.7	67.3	95.7	98.7	138	1.7	10	●	2
MPS1-0820-L10C		10	156.5	83.5	112.5	115.5	155	1.5	10	□	2
MPS1-0820-L12C		12	173.5	99.9	129.5	132.5	172	1.5	10	●	2
MPS1-0820-L15C		15	198.5	124.5	154.5	157.5	197	1.5	10	●	2
MPS1-0820-L20C		20	241.5	165.5	197.5	200.5	240	1.5	10	●	2
MPS1-0820-L25C		25	283.5	206.5	239.5	242.5	282	1.5	10	□	2
MPS1-0820-L30C		30	325.5	247.5	282.5	284.5	324	1.5	10	□	2
MPS1-0820-L35C		35	367.5	288.5	324.5	326.5	366	1.5	10	□	2
MPS1-0820-L40C		40	411.5	329.5	366.5	370.5	410	1.5	10	●	2
MPS1-0830S-DIN	8.3	3	88.5	34.1	46.5	47.5	87	1.5	10	□	4
MPS1-0830S-DIN-C		3	88.5	34.1	46.5	47.5	87	1.5	10	●	2
MPS1-0830L-DIN		5	102.5	48.1	60.5	61.5	101	1.5	10	□	4
MPS1-0830L-DIN-C		5	102.5	48.1	60.5	61.5	101	1.5	10	●	2
MPS1-0830-PC		2	85.3	17.9	38.3	41.3	84	1.3	10	●	2
MPS1-0830-L8C		8	139.7	68.1	95.7	98.7	138	1.7	10	●	2
MPS1-0830-L10C		10	156.5	84.5	112.5	115.5	155	1.5	10	□	2
MPS1-0830-L12C		12	173.5	101.1	129.5	132.5	172	1.5	10	●	2
MPS1-0830-L15C		15	198.5	126.0	154.5	157.5	197	1.5	10	□	2
MPS1-0830-L20C		20	241.5	167.5	197.5	200.5	240	1.5	10	□	2
MPS1-0830-L25C		25	283.5	209.0	239.5	242.5	282	1.5	10	□	2
MPS1-0830-L30C		30	325.5	250.5	282.5	284.5	324	1.5	10	□	2
MPS1-0830-L35C		35	367.5	292.0	324.5	326.5	366	1.5	10	□	2
MPS1-0830-L40C		40	411.5	333.5	366.5	370.5	410	1.5	10	●	2
MPS1-0840S-DIN	8.4	3	88.5	33.9	46.5	47.5	87	1.5	10	□	4
MPS1-0840S-DIN-C		3	88.5	33.9	46.5	47.5	87	1.5	10	●	2
MPS1-0840L-DIN		5	102.5	47.9	60.5	61.5	101	1.5	10	□	4
MPS1-0840L-DIN-C		5	102.5	47.9	60.5	61.5	101	1.5	10	●	2
MPS1-0840-PC		2	85.3	18.1	38.3	41.3	84	1.3	10	●	2
MPS1-0840-L8C		8	139.7	68.9	95.7	98.7	138	1.7	10	●	2
MPS1-0840-L10C		10	156.5	85.5	112.5	115.5	155	1.5	10	□	2
MPS1-0840-L12C		12	173.5	102.3	129.5	132.5	172	1.5	10	●	2
MPS1-0840-L15C		15	198.5	127.5	154.5	157.5	197	1.5	10	●	2
MPS1-0840-L20C		20	241.5	169.5	197.5	200.5	240	1.5	10	□	2
MPS1-0840-L25C		25	283.5	211.5	239.5	242.5	282	1.5	10	□	2
MPS1-0840-L30C		30	325.5	253.5	282.5	284.5	324	1.5	10	□	2
MPS1-0840-L35C		35	367.5	295.5	324.5	326.5	366	1.5	10	□	2
MPS1-0840-L40C		40	411.5	337.5	366.5	370.5	410	1.5	10	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0850S-DIN	8.5	3	88.5	33.8	46.5	47.5	87	1.5	10	□	4
MPS1-0850S-DIN-C		3	88.5	33.8	46.5	47.5	87	1.5	10	●	2
MPS1-0850L-DIN		5	102.5	47.8	60.5	61.5	101	1.5	10	□	4
MPS1-0850L-DIN-C		5	102.5	47.8	60.5	61.5	101	1.5	10	●	2
MPS1-0850-PC		2	85.3	18.3	38.3	41.3	84	1.3	10	●	2
MPS1-0850-L8C		8	139.8	69.8	95.8	98.8	138	1.8	10	●	2
MPS1-0850-L10C		10	156.5	86.5	112.5	115.5	155	1.5	10	□	2
MPS1-0850-L12C		12	173.5	103.5	129.5	132.5	172	1.5	10	●	2
MPS1-0850-L15C		15	198.5	129.0	154.5	157.5	197	1.5	10	●	2
MPS1-0850-L20C		20	241.5	171.5	197.5	200.5	240	1.5	10	●	2
MPS1-0850-L25C		25	283.5	214.0	239.5	242.5	282	1.5	10	●	2
MPS1-0850-L30C		30	325.5	256.5	282.5	284.5	324	1.5	10	●	2
MPS1-0850-L35C		35	367.5	299.0	324.5	326.5	366	1.5	10	□	2
MPS1-0850-L40C		40	411.5	341.5	366.5	370.5	410	1.5	10	●	2
MPS1-0860S-DIN	8.6	3	88.6	33.7	46.6	47.6	87	1.6	10	□	4
MPS1-0860S-DIN-C		3	88.6	33.7	46.6	47.6	87	1.6	10	●	2
MPS1-0860L-DIN		5	102.6	47.7	60.6	61.6	101	1.6	10	□	4
MPS1-0860L-DIN-C		5	102.6	47.7	60.6	61.6	101	1.6	10	●	2
MPS1-0860-PC		2	85.4	18.6	41.4	43.4	84	1.4	10	●	2
MPS1-0860-L8C		8	144.8	70.6	100.8	103.8	143	1.8	10	●	2
MPS1-0860-L10C		10	162.6	87.6	118.6	121.6	161	1.6	10	□	2
MPS1-0860-L12C		12	180.6	104.8	136.6	139.6	179	1.6	10	●	2
MPS1-0860-L15C		15	207.6	130.6	163.6	166.6	206	1.6	10	●	2
MPS1-0860-L20C		20	252.6	173.6	208.6	211.6	251	1.6	10	□	2
MPS1-0860-L25C		25	297.6	216.6	253.6	256.6	296	1.6	10	●	2
MPS1-0860-L30C		30	341.6	259.6	298.6	300.6	340	1.6	10	●	2
MPS1-0860-L35C		35	386.6	302.6	343.6	345.6	385	1.6	10	□	2
MPS1-0860-L40C		40	435.6	345.6	391.6	394.6	434	1.6	10	●	2
MPS1-0870S-DIN	8.7	3	88.6	33.5	46.6	47.6	87	1.6	10	□	4
MPS1-0870S-DIN-C		3	88.6	33.5	46.6	47.6	87	1.6	10	●	2
MPS1-0870L-DIN		5	102.6	47.5	60.6	61.6	101	1.6	10	□	4
MPS1-0870L-DIN-C		5	102.6	47.5	60.6	61.6	101	1.6	10	●	2
MPS1-0870-PC		2	85.4	18.8	41.4	43.4	84	1.4	10	●	2
MPS1-0870-L8C		8	144.8	71.4	100.8	103.8	143	1.8	10	●	2
MPS1-0870-L10C		10	162.6	88.6	118.6	121.6	161	1.6	10	□	2
MPS1-0870-L12C		12	180.6	106.0	136.6	139.6	179	1.6	10	●	2
MPS1-0870-L15C		15	207.6	132.1	163.6	166.6	206	1.6	10	●	2
MPS1-0870-L20C		20	252.6	175.6	208.6	211.6	251	1.6	10	□	2
MPS1-0870-L25C		25	297.6	219.1	253.6	256.6	296	1.6	10	●	2
MPS1-0870-L30C		30	341.6	262.6	298.6	300.6	340	1.6	10	□	2
MPS1-0870-L35C		35	386.6	306.1	343.6	345.6	385	1.6	10	□	2
MPS1-0870-L40C		40	435.6	349.6	391.6	394.6	434	1.6	10	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0880S-DIN	8.8	3	88.6	33.4	46.6	47.6	87	1.6	10	□	4
MPS1-0880S-DIN-C		3	88.6	33.4	46.6	47.6	87	1.6	10	●	2
MPS1-0880L-DIN		5	102.6	47.4	60.6	61.6	101	1.6	10	□	4
MPS1-0880L-DIN-C		5	102.6	47.4	60.6	61.6	101	1.6	10	●	2
MPS1-0880-PC		2	85.4	19.0	41.4	43.4	84	1.4	10	●	2
MPS1-0880-L8C		8	144.8	72.2	100.8	103.8	143	1.8	10	●	2
MPS1-0880-L10C		10	162.6	89.6	118.6	121.6	161	1.6	10	□	2
MPS1-0880-L12C		12	180.6	107.2	136.6	139.6	179	1.6	10	●	2
MPS1-0880-L15C		15	207.6	133.6	163.6	166.6	206	1.6	10	●	2
MPS1-0880-L20C		20	252.6	177.6	208.6	211.6	251	1.6	10	●	2
MPS1-0880-L25C		25	297.6	221.6	253.6	256.6	296	1.6	10	●	2
MPS1-0880-L30C		30	341.6	265.6	298.6	300.6	340	1.6	10	●	2
MPS1-0880-L35C		35	386.6	309.6	343.6	345.6	385	1.6	10	□	2
MPS1-0880-L40C		40	435.6	353.6	391.6	394.6	434	1.6	10	●	2
MPS1-0890S-DIN	8.9	3	88.6	33.3	46.6	47.6	87	1.6	10	□	4
MPS1-0890S-DIN-C		3	88.6	33.3	46.6	47.6	87	1.6	10	●	2
MPS1-0890L-DIN		5	102.6	47.3	60.6	61.6	101	1.6	10	□	4
MPS1-0890L-DIN-C		5	102.6	47.3	60.6	61.6	101	1.6	10	●	2
MPS1-0890-PC		2	85.4	19.2	41.4	43.4	84	1.4	10	●	2
MPS1-0890-L8C		8	144.8	73.0	100.8	103.8	143	1.8	10	●	2
MPS1-0890-L10C		10	162.6	90.6	118.6	121.6	161	1.6	10	□	2
MPS1-0890-L12C		12	180.6	108.4	136.6	139.6	179	1.6	10	●	2
MPS1-0890-L15C		15	207.6	135.1	163.6	166.6	206	1.6	10	□	2
MPS1-0890-L20C		20	252.6	179.6	208.6	211.6	251	1.6	10	□	2
MPS1-0890-L25C		25	297.6	224.1	253.6	256.6	296	1.6	10	□	2
MPS1-0890-L30C		30	341.6	268.6	298.6	300.6	340	1.6	10	□	2
MPS1-0890-L35C		35	386.6	313.1	343.6	345.6	385	1.6	10	□	2
MPS1-0890-L40C		40	435.6	357.6	391.6	394.6	434	1.6	10	●	2
MPS1-0900S-DIN	9.0	3	88.6	33.1	46.6	47.6	87	1.6	10	□	4
MPS1-0900S-DIN-C		3	88.6	33.1	46.6	47.6	87	1.6	10	●	2
MPS1-0900L-DIN		5	102.6	47.1	60.6	61.6	101	1.6	10	□	4
MPS1-0900L-DIN-C		5	102.6	47.1	60.6	61.6	101	1.6	10	●	2
MPS1-0900-PC		2	85.4	19.4	41.4	43.4	84	1.4	10	●	2
MPS1-0900-L8C		8	144.9	73.9	100.9	103.9	143	1.9	10	●	2
MPS1-0900-L10C		10	162.6	91.6	118.6	121.6	161	1.6	10	●	2
MPS1-0900-L12C		12	180.6	109.6	136.6	139.6	179	1.6	10	●	2
MPS1-0900-L15C		15	207.6	136.6	163.6	166.6	206	1.6	10	●	2
MPS1-0900-L20C		20	252.6	181.6	208.6	211.6	251	1.6	10	●	2
MPS1-0900-L25C		25	297.6	226.6	253.6	256.6	296	1.6	10	●	2
MPS1-0900-L30C		30	341.6	271.6	298.6	300.6	340	1.6	10	●	2
MPS1-0900-L35C		35	386.6	316.6	343.6	345.6	385	1.6	10	□	2
MPS1-0900-L40C		40	435.6	361.6	391.6	394.6	434	1.6	10	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0910S-DIN		3	88.7	33.0	46.7	47.7	87	1.7	10	□	4
MPS1-0910S-DIN-C		3	88.7	33.0	46.7	47.7	87	1.7	10	●	2
MPS1-0910L-DIN		5	102.7	47.0	60.7	61.7	101	1.7	10	□	4
MPS1-0910L-DIN-C		5	102.7	47.0	60.7	61.7	101	1.7	10	●	2
MPS1-0910-PC		2	90.4	19.6	41.4	44.4	89	1.4	10	●	2
MPS1-0910-L8C		8	150.9	74.7	106.9	109.9	149	1.9	10	●	2
MPS1-0910-L10C	9.1	10	169.7	92.7	125.7	128.7	168	1.7	10	□	2
MPS1-0910-L12C		12	188.7	110.9	144.7	147.7	187	1.7	10	●	2
MPS1-0910-L15C		15	216.7	138.2	172.7	175.7	215	1.7	10	●	2
MPS1-0910-L20C		20	264.7	183.7	220.7	223.7	263	1.7	10	□	2
MPS1-0910-L25C		25	311.7	229.2	267.7	270.7	310	1.7	10	□	2
MPS1-0910-L30C		30	359.7	274.7	315.7	318.7	358	1.7	10	●	2
MPS1-0910-L35C		35	405.7	320.2	362.7	364.7	404	1.7	10	□	2
MPS1-0920S-DIN		3	88.7	32.9	46.7	47.7	87	1.7	10	□	4
MPS1-0920S-DIN-C		3	88.7	32.9	46.7	47.7	87	1.7	10	●	2
MPS1-0920L-DIN		5	102.7	46.9	60.7	61.7	101	1.7	10	□	4
MPS1-0920L-DIN-C		5	102.7	46.9	60.7	61.7	101	1.7	10	●	2
MPS1-0920-PC		2	90.5	19.9	41.5	44.5	89	1.5	10	●	2
MPS1-0920-L8C		8	150.9	75.5	106.9	109.9	149	1.9	10	●	2
MPS1-0920-L10C	9.2	10	169.7	93.7	125.7	128.7	168	1.7	10	□	2
MPS1-0920-L12C		12	188.7	112.1	144.7	147.7	187	1.7	10	●	2
MPS1-0920-L15C		15	216.7	139.7	172.7	175.7	215	1.7	10	●	2
MPS1-0920-L20C		20	264.7	185.7	220.7	223.7	263	1.7	10	□	2
MPS1-0920-L25C		25	311.7	231.7	267.7	270.7	310	1.7	10	□	2
MPS1-0920-L30C		30	359.7	277.7	315.7	318.7	358	1.7	10	□	2
MPS1-0920-L35C		35	405.7	323.7	362.7	364.7	404	1.7	10	□	2
MPS1-0930S-DIN		3	88.7	32.7	46.7	47.7	87	1.7	10	□	4
MPS1-0930S-DIN-C		3	88.7	32.7	46.7	47.7	87	1.7	10	●	2
MPS1-0930L-DIN		5	102.7	46.7	60.7	61.7	101	1.7	10	□	4
MPS1-0930L-DIN-C		5	102.7	46.7	60.7	61.7	101	1.7	10	●	2
MPS1-0930-PC		2	90.5	20.1	41.5	44.5	89	1.5	10	●	2
MPS1-0930-L8C		8	150.9	76.3	106.9	109.9	149	1.9	10	●	2
MPS1-0930-L10C	9.3	10	169.7	94.7	125.7	128.7	168	1.7	10	□	2
MPS1-0930-L12C		12	188.7	113.3	144.7	147.7	187	1.7	10	●	2
MPS1-0930-L15C		15	216.7	141.2	172.7	175.7	215	1.7	10	□	2
MPS1-0930-L20C		20	264.7	187.7	220.7	223.7	263	1.7	10	□	2
MPS1-0930-L25C		25	311.7	234.2	267.7	270.7	310	1.7	10	□	2
MPS1-0930-L30C		30	359.7	280.7	315.7	318.7	358	1.7	10	□	2
MPS1-0930-L35C		35	405.7	327.2	362.7	364.7	404	1.7	10	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0940S-DIN		3	88.7	32.6	46.7	47.7	87	1.7	10	□	4
MPS1-0940S-DIN-C		3	88.7	32.6	46.7	47.7	87	1.7	10	●	2
MPS1-0940L-DIN		5	102.7	46.6	60.7	61.7	101	1.7	10	□	4
MPS1-0940L-DIN-C		5	102.7	46.6	60.7	61.7	101	1.7	10	●	2
MPS1-0940-PC		2	90.5	20.3	41.5	44.5	89	1.5	10	●	2
MPS1-0940-L8C		8	150.9	77.1	106.9	109.9	149	1.9	10	●	2
MPS1-0940-L10C	9.4	10	169.7	95.7	125.7	128.7	168	1.7	10	□	2
MPS1-0940-L12C		12	188.7	114.5	144.7	147.7	187	1.7	10	●	2
MPS1-0940-L15C		15	216.7	142.7	172.7	175.7	215	1.7	10	□	2
MPS1-0940-L20C		20	264.7	189.7	220.7	223.7	263	1.7	10	□	2
MPS1-0940-L25C		25	311.7	236.7	267.7	270.7	310	1.7	10	□	2
MPS1-0940-L30C		30	359.7	283.7	315.7	318.7	358	1.7	10	□	2
MPS1-0940-L35C		35	405.7	330.7	362.7	364.7	404	1.7	10	□	2
MPS1-0950S-DIN		3	88.7	32.5	46.7	47.7	87	1.7	10	□	4
MPS1-0950S-DIN-C		3	88.7	32.5	46.7	47.7	87	1.7	10	●	2
MPS1-0950L-DIN		5	102.7	46.5	60.7	61.7	101	1.7	10	□	4
MPS1-0950L-DIN-C		5	102.7	46.5	60.7	61.7	101	1.7	10	●	2
MPS1-0950-PC		2	90.5	20.5	41.5	44.5	89	1.5	10	●	2
MPS1-0950-L8C		8	151.0	78.0	107.0	110.0	149	2.0	10	●	2
MPS1-0950-L10C	9.5	10	169.7	96.7	125.7	128.7	168	1.7	10	□	2
MPS1-0950-L12C		12	188.7	115.7	144.7	147.7	187	1.7	10	●	2
MPS1-0950-L15C		15	216.7	144.2	172.7	175.7	215	1.7	10	●	2
MPS1-0950-L20C		20	264.7	191.7	220.7	223.7	263	1.7	10	●	2
MPS1-0950-L25C		25	311.7	239.2	267.7	270.7	310	1.7	10	●	2
MPS1-0950-L30C		30	359.7	286.7	315.7	318.7	358	1.7	10	●	2
MPS1-0950-L35C		35	405.7	334.2	362.7	364.7	404	1.7	10	□	2
MPS1-0960S-DIN		3	88.7	32.3	46.7	47.7	87	1.7	10	□	4
MPS1-0960S-DIN-C		3	88.7	32.3	46.7	47.7	87	1.7	10	●	2
MPS1-0960L-DIN		5	102.7	46.3	60.7	61.7	101	1.7	10	□	4
MPS1-0960L-DIN-C		5	102.7	46.3	60.7	61.7	101	1.7	10	●	2
MPS1-0960-PC		2	90.5	20.7	44.5	44.5	89	1.5	10	●	2
MPS1-0960-L8C		8	156.0	78.8	112.0	115.0	154	2.0	10	●	2
MPS1-0960-L10C	9.6	10	175.7	97.7	131.7	134.7	174	1.7	10	□	2
MPS1-0960-L12C		12	195.7	116.9	151.7	154.7	194	1.7	10	●	2
MPS1-0960-L15C		15	225.7	145.7	181.7	184.7	224	1.7	10	●	2
MPS1-0960-L20C		20	275.7	193.7	231.7	234.7	274	1.7	10	□	2
MPS1-0960-L25C		25	325.7	241.7	281.7	284.7	324	1.7	10	□	2
MPS1-0960-L30C		30	375.7	289.7	331.7	334.7	374	1.7	10	□	2
MPS1-0960-L35C		35	424.7	337.7	381.7	383.7	423	1.7	10	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-0970S-DIN		3	88.8	32.2	46.8	47.8	87	1.8	10	□	4
MPS1-0970S-DIN-C		3	88.8	32.2	46.8	47.8	87	1.8	10	●	2
MPS1-0970L-DIN		5	102.8	46.2	60.8	61.8	101	1.8	10	□	4
MPS1-0970L-DIN-C		5	102.8	46.2	60.8	61.8	101	1.8	10	●	2
MPS1-0970-PC		2	90.5	20.9	44.5	44.5	89	1.5	10	●	2
MPS1-0970-L8C		8	156.0	79.6	112.0	115.0	154	2.0	10	●	2
MPS1-0970-L10C	9.7	10	175.8	98.8	131.8	134.8	174	1.8	10	□	2
MPS1-0970-L12C		12	195.8	118.2	151.8	154.8	194	1.8	10	●	2
MPS1-0970-L15C		15	225.8	147.3	181.8	184.8	224	1.8	10	●	2
MPS1-0970-L20C		20	275.8	195.8	231.8	234.8	274	1.8	10	□	2
MPS1-0970-L25C		25	325.8	244.3	281.8	284.8	324	1.8	10	□	2
MPS1-0970-L30C		30	375.8	292.8	331.8	334.8	374	1.8	10	□	2
MPS1-0970-L35C		35	424.8	341.3	381.8	383.8	423	1.8	10	□	2
MPS1-0980S-DIN		3	88.8	32.1	46.8	47.8	87	1.8	10	□	4
MPS1-0980S-DIN-C		3	88.8	32.1	46.8	47.8	87	1.8	10	●	2
MPS1-0980L-DIN		5	102.8	46.1	60.8	61.8	101	1.8	10	□	4
MPS1-0980L-DIN-C		5	102.8	46.1	60.8	61.8	101	1.8	10	●	2
MPS1-0980-PC		2	90.5	21.1	44.5	44.5	89	1.5	10	●	2
MPS1-0980-L8C		8	156.0	80.4	112.0	115.0	154	2.0	10	●	2
MPS1-0980-L10C	9.8	10	175.8	99.8	131.8	134.8	174	1.8	10	□	2
MPS1-0980-L12C		12	195.8	119.4	151.8	154.8	194	1.8	10	●	2
MPS1-0980-L15C		15	225.8	148.8	181.8	184.8	224	1.8	10	●	2
MPS1-0980-L20C		20	275.8	197.8	231.8	234.8	274	1.8	10	●	2
MPS1-0980-L25C		25	325.8	246.8	281.8	284.8	324	1.8	10	□	2
MPS1-0980-L30C		30	375.8	295.8	331.8	334.8	374	1.8	10	●	2
MPS1-0980-L35C		35	424.8	344.8	381.8	383.8	423	1.8	10	□	2
MPS1-0990S-DIN		3	88.8	32.0	46.8	47.8	87	1.8	10	□	4
MPS1-0990S-DIN-C		3	88.8	32.0	46.8	47.8	87	1.8	10	●	2
MPS1-0990L-DIN		5	102.8	46.0	60.8	61.8	101	1.8	10	□	4
MPS1-0990L-DIN-C		5	102.8	46.0	60.8	61.8	101	1.8	10	●	2
MPS1-0990-PC		2	90.6	21.4	44.6	44.6	89	1.6	10	●	2
MPS1-0990-L8C		8	156.1	81.3	112.1	115.1	154	2.1	10	●	2
MPS1-0990-L10C	9.9	10	175.8	100.8	131.8	134.8	174	1.8	10	□	2
MPS1-0990-L12C		12	195.8	120.6	151.8	154.8	194	1.8	10	●	2
MPS1-0990-L15C		15	225.8	150.3	181.8	184.8	224	1.8	10	●	2
MPS1-0990-L20C		20	275.8	199.8	231.8	234.8	274	1.8	10	□	2
MPS1-0990-L25C		25	325.8	249.3	281.8	284.8	324	1.8	10	□	2
MPS1-0990-L30C		30	375.8	298.8	331.8	334.8	374	1.8	10	□	2
MPS1-0990-L35C		35	424.8	348.3	381.8	383.8	423	1.8	10	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type	
MPS1-1000S-DIN	10.0	3	88.8	31.8	46.8	47.8	87	1.8	10	□	4	
MPS1-1000S-DIN-C		3	88.8	31.8	46.8	47.8	87	1.8	10	●	2	
MPS1-1000L-DIN		5	102.8	45.8	60.8	61.8	101	1.8	10	□	4	
MPS1-1000L-DIN-C		5	102.8	45.8	60.8	61.8	101	1.8	10	●	2	
MPS1-1000-PC		2	90.6	21.6	44.6	44.6	89	1.6	10	●	2	
MPS1-1000-L8C		8	156.1	82.1	112.1	115.1	154	2.1	10	●	2	
MPS1-1000-L10C		10	175.8	101.8	131.8	134.8	174	1.8	10	□	2	
MPS1-1000-L12C		12	195.8	121.8	151.8	154.8	194	1.8	10	●	2	
MPS1-1000-L15C		15	225.8	151.8	181.8	184.8	224	1.8	10	●	2	
MPS1-1000-L20C		20	275.8	201.8	231.8	234.8	274	1.8	10	●	2	
MPS1-1000-L25C		25	325.8	251.8	281.8	284.8	324	1.8	10	●	2	
MPS1-1000-L30C		30	375.8	301.8	331.8	334.8	374	1.8	10	●	2	
MPS1-1000-L35C		35	424.8	351.8	381.8	383.8	423	1.8	10	□	2	
MPS1-1005S-DIN		10.05	3	101.8	39.8	54.8	55.8	100	1.8	12	□	4
MPS1-1005S-DIN-C			3	101.8	39.8	54.8	55.8	100	1.8	12	●	2
MPS1-1005L-DIN	5		117.8	55.8	70.8	71.8	116	1.8	12	□	4	
MPS1-1005L-DIN-C	5		117.8	55.8	70.8	71.8	116	1.8	12	●	2	
MPS1-1010S-DIN	3		101.8	39.7	54.8	55.8	100	1.8	12	□	4	
MPS1-1010S-DIN-C	3	101.8	39.7	54.8	55.8	100	1.8	12	●	2		
MPS1-1010L-DIN	10.1	5	117.8	55.7	70.8	71.8	116	1.8	12	□	4	
MPS1-1010L-DIN-C		5	117.8	55.7	70.8	71.8	116	1.8	12	●	2	
MPS1-1010-PC		2	96.6	21.8	44.6	47.6	95	1.6	12	●	2	
MPS1-1010-L8C		8	167.1	82.9	118.1	121.1	165	2.1	12	●	2	
MPS1-1010-L10C		10	187.8	102.8	138.8	141.8	186	1.8	12	□	2	
MPS1-1010-L12C		12	208.8	123.0	159.8	162.8	207	1.8	12	●	2	
MPS1-1010-L15C		15	239.8	153.3	190.8	193.8	238	1.8	12	●	2	
MPS1-1010-L20C		20	292.8	203.8	243.8	246.8	291	1.8	12	●	2	
MPS1-1010-L25C		25	344.8	254.3	295.8	298.8	343	1.8	12	□	2	
MPS1-1020S-DIN		10.2	3	101.9	39.6	54.9	55.9	100	1.9	12	□	4
MPS1-1020S-DIN-C	3		101.9	39.6	54.9	55.9	100	1.9	12	●	2	
MPS1-1020L-DIN	5		117.9	55.6	70.9	71.9	116	1.9	12	□	4	
MPS1-1020L-DIN-C	5		117.9	55.6	70.9	71.9	116	1.9	12	●	2	
MPS1-1020-PC	2		96.6	22.0	44.6	47.6	95	1.6	12	●	2	
MPS1-1020-L8C	8		167.1	83.7	118.1	121.1	165	2.1	12	●	2	
MPS1-1020-L10C	10		187.9	103.9	138.9	141.9	186	1.9	12	□	2	
MPS1-1020-L12C	12		208.9	124.3	159.9	162.9	207	1.9	12	●	2	
MPS1-1020-L15C	15		239.9	154.9	190.9	193.9	238	1.9	12	●	2	
MPS1-1020-L20C	20		292.9	205.9	243.9	246.9	291	1.9	12	●	2	
MPS1-1020-L25C	25		344.9	256.9	295.9	298.9	343	1.9	12	□	2	

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1030S-DIN	10.3	3	101.9	39.4	54.9	55.9	100	1.9	12	□	4
MPS1-1030S-DIN-C		3	101.9	39.4	54.9	55.9	100	1.9	12	●	2
MPS1-1030L-DIN		5	117.9	55.4	70.9	71.9	116	1.9	12	□	4
MPS1-1030L-DIN-C		5	117.9	55.4	70.9	71.9	116	1.9	12	●	2
MPS1-1030-PC		2	96.6	22.2	44.6	47.6	95	1.6	12	●	2
MPS1-1030-L8C		8	167.1	84.5	118.1	121.1	165	2.1	12	●	2
MPS1-1030-L10C		10	187.9	104.9	138.9	141.9	186	1.9	12	□	2
MPS1-1030-L12C		12	208.9	125.5	159.9	162.9	207	1.9	12	●	2
MPS1-1030-L15C		15	239.9	156.4	190.9	193.9	238	1.9	12	□	2
MPS1-1030-L20C		20	292.9	207.9	243.9	246.9	291	1.9	12	□	2
MPS1-1030-L25C		25	344.9	259.4	295.9	298.9	343	1.9	12	□	2
MPS1-1040S-DIN		10.4	3	101.9	39.3	54.9	55.9	100	1.9	12	□
MPS1-1040S-DIN-C	3		101.9	39.3	54.9	55.9	100	1.9	12	●	2
MPS1-1040L-DIN	5		117.9	55.3	70.9	71.9	116	1.9	12	□	4
MPS1-1040L-DIN-C	5		117.9	55.3	70.9	71.9	116	1.9	12	●	2
MPS1-1040-PC	2		96.6	22.4	44.6	47.6	95	1.6	12	●	2
MPS1-1040-L8C	8		167.2	85.4	118.2	121.2	165	2.2	12	●	2
MPS1-1040-L10C	10		187.9	105.9	138.9	141.9	186	1.9	12	□	2
MPS1-1040-L12C	12		208.9	126.7	159.9	162.9	207	1.9	12	●	2
MPS1-1040-L15C	15		239.9	157.9	190.9	193.9	238	1.9	12	□	2
MPS1-1040-L20C	20		292.9	209.9	243.9	246.9	291	1.9	12	□	2
MPS1-1040-L25C	25		344.9	261.9	295.9	298.9	343	1.9	12	□	2
MPS1-1050S-DIN	10.5		3	101.9	39.2	54.9	55.9	100	1.9	12	□
MPS1-1050S-DIN-C		3	101.9	39.2	54.9	55.9	100	1.9	12	●	2
MPS1-1050L-DIN		5	117.9	55.2	70.9	71.9	116	1.9	12	□	4
MPS1-1050L-DIN-C		5	117.9	55.2	70.9	71.9	116	1.9	12	●	2
MPS1-1050-PC		2	96.7	22.7	44.7	47.7	95	1.7	12	●	2
MPS1-1050-L8C		8	167.2	86.2	118.2	121.2	165	2.2	12	●	2
MPS1-1050-L10C		10	187.9	106.9	138.9	141.9	186	1.9	12	□	2
MPS1-1050-L12C		12	208.9	127.9	159.9	162.9	207	1.9	12	●	2
MPS1-1050-L15C		15	239.9	159.4	190.9	193.9	238	1.9	12	●	2
MPS1-1050-L20C		20	292.9	211.9	243.9	246.9	291	1.9	12	●	2
MPS1-1050-L25C		25	344.9	264.4	295.9	298.9	343	1.9	12	●	2
MPS1-1060S-DIN		10.6	3	101.9	39.0	54.9	55.9	100	1.9	12	□
MPS1-1060S-DIN-C	3		101.9	39.0	54.9	55.9	100	1.9	12	●	2
MPS1-1060L-DIN	5		117.9	55.0	70.9	71.9	116	1.9	12	□	4
MPS1-1060L-DIN-C	5		117.9	55.0	70.9	71.9	116	1.9	12	●	2
MPS1-1060-PC	2		96.7	22.9	48.7	49.7	95	1.7	12	□	2
MPS1-1060-L8C	8		172.2	87.0	123.2	126.2	170	2.2	12	●	2
MPS1-1060-L10C	10		193.9	107.9	144.9	147.9	192	1.9	12	□	2
MPS1-1060-L12C	12		215.9	129.1	166.9	169.9	214	1.9	12	□	2
MPS1-1060-L15C	15		248.9	160.9	199.9	202.9	247	1.9	12	□	2
MPS1-1060-L20C	20		303.9	213.9	254.9	257.9	302	1.9	12	□	2
MPS1-1060-L25C	25		358.9	266.9	309.9	312.9	357	1.9	12	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1070S-DIN	10.7	3	101.9	38.9	54.9	55.9	100	1.9	12	□	4
MPS1-1070S-DIN-C		3	101.9	38.9	54.9	55.9	100	1.9	12	●	2
MPS1-1070L-DIN		5	117.9	54.9	70.9	71.9	116	1.9	12	□	4
MPS1-1070L-DIN-C		5	117.9	54.9	70.9	71.9	116	1.9	12	●	2
MPS1-1070-PC		2	96.7	23.1	48.7	49.7	95	1.7	12	●	2
MPS1-1070-L8C		8	172.2	87.8	123.2	126.2	170	2.2	12	●	2
MPS1-1070-L10C		10	193.9	108.9	144.9	147.9	192	1.9	12	□	2
MPS1-1070-L12C		12	215.9	130.3	166.9	169.9	214	1.9	12	●	2
MPS1-1070-L15C		15	248.9	162.4	199.9	202.9	247	1.9	12	□	2
MPS1-1070-L20C		20	303.9	215.9	254.9	257.9	302	1.9	12	□	2
MPS1-1070-L25C		25	358.9	269.4	309.9	312.9	357	1.9	12	□	2
MPS1-1080S-DIN		10.8	3	102.0	38.8	55.0	56.0	100	2.0	12	□
MPS1-1080S-DIN-C	3		102.0	38.8	55.0	56.0	100	2.0	12	●	2
MPS1-1080L-DIN	5		118.0	54.8	71.0	72.0	116	2.0	12	□	4
MPS1-1080L-DIN-C	5		118.0	54.8	71.0	72.0	116	2.0	12	●	2
MPS1-1080-PC	2		96.7	23.3	48.7	49.7	95	1.7	12	●	2
MPS1-1080-L8C	8		172.2	88.6	123.2	126.2	170	2.2	12	●	2
MPS1-1080-L10C	10		194.0	110.0	145.0	148.0	192	2.0	12	□	2
MPS1-1080-L12C	12		216.0	131.6	167.0	170.0	214	2.0	12	●	2
MPS1-1080-L15C	15		249.0	164.0	200.0	203.0	247	2.0	12	□	2
MPS1-1080-L20C	20		304.0	218.0	255.0	258.0	302	2.0	12	□	2
MPS1-1080-L25C	25		359.0	272.0	310.0	313.0	357	2.0	12	□	2
MPS1-1090S-DIN	10.9		3	102.0	38.6	55.0	56.0	100	2.0	12	□
MPS1-1090S-DIN-C		3	102.0	38.6	55.0	56.0	100	2.0	12	●	2
MPS1-1090L-DIN		5	118.0	54.6	71.0	72.0	116	2.0	12	□	4
MPS1-1090L-DIN-C		5	118.0	54.6	71.0	72.0	116	2.0	12	●	2
MPS1-1090-PC		2	96.7	23.5	48.7	49.7	95	1.7	12	□	2
MPS1-1090-L8C		8	172.3	89.5	123.3	126.3	170	2.3	12	●	2
MPS1-1090-L10C		10	194.0	111.0	145.0	148.0	192	2.0	12	□	2
MPS1-1090-L12C		12	216.0	132.8	167.0	170.0	214	2.0	12	□	2
MPS1-1090-L15C		15	249.0	165.5	200.0	203.0	247	2.0	12	□	2
MPS1-1090-L20C		20	304.0	220.0	255.0	258.0	302	2.0	12	□	2
MPS1-1090-L25C		25	359.0	274.5	310.0	313.0	357	2.0	12	□	2
MPS1-1100S-DIN		11.0	3	102.0	38.5	55.0	56.0	100	2.0	12	□
MPS1-1100S-DIN-C	3		102.0	38.5	55.0	56.0	100	2.0	12	●	2
MPS1-1100L-DIN	5		118.0	54.5	71.0	72.0	116	2.0	12	□	4
MPS1-1100L-DIN-C	5		118.0	54.5	71.0	72.0	116	2.0	12	●	2
MPS1-1100-PC	2		96.7	23.7	48.7	49.7	95	1.7	12	●	2
MPS1-1100-L8C	8		172.3	90.3	123.3	126.3	170	2.3	12	●	2
MPS1-1100-L10C	10		194.0	112.0	145.0	148.0	192	2.0	12	□	2
MPS1-1100-L12C	12		216.0	134.0	167.0	170.0	214	2.0	12	●	2
MPS1-1100-L15C	15		249.0	167.0	200.0	203.0	247	2.0	12	●	2
MPS1-1100-L20C	20		304.0	222.0	255.0	258.0	302	2.0	12	●	2
MPS1-1100-L25C	25		359.0	277.0	310.0	313.0	357	2.0	12	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1110S-DIN		3	102.0	38.4	55.0	56.0	100	2.0	12	□	4
MPS1-1110S-DIN-C		3	102.0	38.4	55.0	56.0	100	2.0	12	●	2
MPS1-1110L-DIN		5	118.0	54.4	71.0	72.0	116	2.0	12	□	4
MPS1-1110L-DIN-C		5	118.0	54.4	71.0	72.0	116	2.0	12	●	2
MPS1-1110-PC		2	96.7	23.9	48.7	51.7	95	1.7	12	●	2
MPS1-1110-L8C	11.1	8	178.3	91.1	129.3	132.3	176	2.3	12	●	2
MPS1-1110-L10C		10	201.0	113.0	152.0	155.0	199	2.0	12	□	2
MPS1-1110-L12C		12	224.0	135.2	175.0	178.0	222	2.0	12	●	2
MPS1-1110-L15C		15	258.0	168.5	209.0	212.0	256	2.0	12	●	2
MPS1-1110-L20C		20	316.0	224.0	267.0	270.0	314	2.0	12	□	2
MPS1-1110-L25C		25	373.0	279.5	324.0	327.0	371	2.0	12	●	2
MPS1-1120S-DIN		3	102.0	38.2	55.0	56.0	100	2.0	12	□	4
MPS1-1120S-DIN-C		3	102.0	38.2	55.0	56.0	100	2.0	12	●	2
MPS1-1120L-DIN		5	118.0	54.2	71.0	72.0	116	2.0	12	□	4
MPS1-1120L-DIN-C		5	118.0	54.2	71.0	72.0	116	2.0	12	●	2
MPS1-1120-PC		2	96.8	24.2	48.8	51.8	95	1.8	12	●	2
MPS1-1120-L8C	11.2	8	178.3	91.9	129.3	132.3	176	2.3	12	●	2
MPS1-1120-L10C		10	201.0	114.0	152.0	155.0	199	2.0	12	□	2
MPS1-1120-L12C		12	224.0	136.4	175.0	178.0	222	2.0	12	□	2
MPS1-1120-L15C		15	258.0	170.0	209.0	212.0	256	2.0	12	●	2
MPS1-1120-L20C		20	316.0	226.0	267.0	270.0	314	2.0	12	□	2
MPS1-1120-L25C		25	373.0	282.0	324.0	327.0	371	2.0	12	□	2
MPS1-1130S-DIN		3	102.1	38.1	55.1	56.1	100	2.1	12	□	4
MPS1-1130S-DIN-C		3	102.1	38.1	55.1	56.1	100	2.1	12	●	2
MPS1-1130L-DIN		5	118.1	54.1	71.1	72.1	116	2.1	12	□	4
MPS1-1130L-DIN-C		5	118.1	54.1	71.1	72.1	116	2.1	12	●	2
MPS1-1130-PC		2	96.8	24.4	48.8	51.8	95	1.8	12	□	2
MPS1-1130-L8C	11.3	8	178.3	92.7	129.3	132.3	176	2.3	12	●	2
MPS1-1130-L10C		10	201.1	115.1	152.1	155.1	199	2.1	12	□	2
MPS1-1130-L12C		12	224.1	137.7	175.1	178.1	222	2.1	12	□	2
MPS1-1130-L15C		15	258.1	171.6	209.1	212.1	256	2.1	12	□	2
MPS1-1130-L20C		20	316.1	228.1	267.1	270.1	314	2.1	12	□	2
MPS1-1130-L25C		25	373.1	284.6	324.1	327.1	371	2.1	12	□	2
MPS1-1140S-DIN		3	102.1	38.0	55.1	56.1	100	2.1	12	□	4
MPS1-1140S-DIN-C		3	102.1	38.0	55.1	56.1	100	2.1	12	●	2
MPS1-1140L-DIN		5	118.1	54.0	71.1	72.1	116	2.1	12	□	4
MPS1-1140L-DIN-C		5	118.1	54.0	71.1	72.1	116	2.1	12	●	2
MPS1-1140-PC		2	96.8	24.6	48.8	51.8	95	1.8	12	□	2
MPS1-1140-L8C	11.4	8	178.4	93.6	129.4	132.4	176	2.4	12	●	2
MPS1-1140-L10C		10	201.1	116.1	152.1	155.1	199	2.1	12	□	2
MPS1-1140-L12C		12	224.1	138.9	175.1	178.1	222	2.1	12	□	2
MPS1-1140-L15C		15	258.1	173.1	209.1	212.1	256	2.1	12	□	2
MPS1-1140-L20C		20	316.1	230.1	267.1	270.1	314	2.1	12	□	2
MPS1-1140-L25C		25	373.1	287.1	324.1	327.1	371	2.1	12	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1150S-DIN	11.5	3	102.1	37.8	55.1	56.1	100	2.1	12	□	4
MPS1-1150S-DIN-C		3	102.1	37.8	55.1	56.1	100	2.1	12	●	2
MPS1-1150L-DIN		5	118.1	53.8	71.1	72.1	116	2.1	12	□	4
MPS1-1150L-DIN-C		5	118.1	53.8	71.1	72.1	116	2.1	12	●	2
MPS1-1150-PC		2	96.8	24.8	48.8	51.8	95	1.8	12	●	2
MPS1-1150-L8C		8	178.4	94.4	129.4	132.4	176	2.4	12	●	2
MPS1-1150-L10C		10	201.1	117.1	152.1	155.1	199	2.1	12	□	2
MPS1-1150-L12C		12	224.1	140.1	175.1	178.1	222	2.1	12	●	2
MPS1-1150-L15C		15	258.1	174.6	209.1	212.1	256	2.1	12	●	2
MPS1-1150-L20C		20	316.1	232.1	267.1	270.1	314	2.1	12	●	2
MPS1-1150-L25C		25	373.1	289.6	324.1	327.1	371	2.1	12	●	2
MPS1-1160S-DIN	11.6	3	102.1	37.7	55.1	56.1	100	2.1	12	□	4
MPS1-1160S-DIN-C		3	102.1	37.7	55.1	56.1	100	2.1	12	●	2
MPS1-1160L-DIN		5	118.1	53.7	71.1	72.1	116	2.1	12	□	4
MPS1-1160L-DIN-C		5	118.1	53.7	71.1	72.1	116	2.1	12	●	2
MPS1-1160-PC		2	96.8	25.0	48.8	48.8	95	1.8	12	□	2
MPS1-1160-L8C		8	183.4	95.2	134.4	137.4	181	2.4	12	●	2
MPS1-1160-L10C		10	207.1	118.1	158.1	161.1	205	2.1	12	□	2
MPS1-1160-L12C		12	231.1	141.3	182.1	185.1	229	2.1	12	□	2
MPS1-1160-L15C		15	267.1	176.1	218.1	221.1	265	2.1	12	□	2
MPS1-1160-L20C		20	327.1	234.1	278.1	281.1	325	2.1	12	□	2
MPS1-1160-L25C		25	387.1	292.1	338.1	341.1	385	2.1	12	□	2
MPS1-1170S-DIN	11.7	3	102.1	37.6	55.1	56.1	100	2.1	12	□	4
MPS1-1170S-DIN-C		3	102.1	37.6	55.1	56.1	100	2.1	12	●	2
MPS1-1170L-DIN		5	118.1	53.6	71.1	72.1	116	2.1	12	□	4
MPS1-1170L-DIN-C		5	118.1	53.6	71.1	72.1	116	2.1	12	●	2
MPS1-1170-PC		2	96.8	25.2	48.8	48.8	95	1.8	12	●	2
MPS1-1170-L8C		8	183.4	96.0	134.4	137.4	181	2.4	12	●	2
MPS1-1170-L10C		10	207.1	119.1	158.1	161.1	205	2.1	12	□	2
MPS1-1170-L12C		12	231.1	142.5	182.1	185.1	229	2.1	12	●	2
MPS1-1170-L15C		15	267.1	177.6	218.1	221.1	265	2.1	12	●	2
MPS1-1170-L20C		20	327.1	236.1	278.1	281.1	325	2.1	12	□	2
MPS1-1170-L25C		25	387.1	294.6	338.1	341.1	385	2.1	12	□	2
MPS1-1180S-DIN	11.8	3	102.1	37.4	55.1	56.1	100	2.1	12	□	4
MPS1-1180S-DIN-C		3	102.1	37.4	55.1	56.1	100	2.1	12	●	2
MPS1-1180L-DIN		5	118.1	53.4	71.1	72.1	116	2.1	12	□	4
MPS1-1180L-DIN-C		5	118.1	53.4	71.1	72.1	116	2.1	12	●	2
MPS1-1180-PC		2	96.9	25.5	48.9	48.9	95	1.9	12	●	2
MPS1-1180-L8C		8	183.4	96.8	134.4	137.4	181	2.4	12	●	2
MPS1-1180-L10C		10	207.1	120.1	158.1	161.1	205	2.1	12	□	2
MPS1-1180-L12C		12	231.1	143.7	182.1	185.1	229	2.1	12	●	2
MPS1-1180-L15C		15	267.1	179.1	218.1	221.1	265	2.1	12	●	2
MPS1-1180-L20C		20	327.1	238.1	278.1	281.1	325	2.1	12	□	2
MPS1-1180-L25C		25	387.1	297.1	338.1	341.1	385	2.1	12	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type	
MPS1-1190S-DIN	11.9	3	102.2	37.3	55.2	56.2	100	2.2	12	□	4	
MPS1-1190S-DIN-C		3	102.2	37.3	55.2	56.2	100	2.2	12	●	2	
MPS1-1190L-DIN		5	118.2	53.3	71.2	72.2	116	2.2	12	□	4	
MPS1-1190L-DIN-C		5	118.2	53.3	71.2	72.2	116	2.2	12	●	2	
MPS1-1190-PC		2	96.9	25.7	48.9	48.9	95	1.9	12	□	2	
MPS1-1190-L8C		8	183.5	97.7	134.5	137.5	181	2.5	12	●	2	
MPS1-1190-L10C		10	207.2	121.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1190-L12C		12	231.2	145.0	182.2	185.2	229	2.2	12	□	2	
MPS1-1190-L15C		15	267.2	180.7	218.2	221.2	265	2.2	12	□	2	
MPS1-1190-L20C		20	327.2	240.2	278.2	281.2	325	2.2	12	□	2	
MPS1-1190-L25C		25	387.2	299.7	338.2	341.2	385	2.2	12	□	2	
MPS1-1200S-DIN		12.0	3	102.2	37.2	55.2	56.2	100	2.2	12	□	4
MPS1-1200S-DIN-C	3		102.2	37.2	55.2	56.2	100	2.2	12	●	2	
MPS1-1200L-DIN	5		118.2	53.2	71.2	72.2	116	2.2	12	□	4	
MPS1-1200L-DIN-C	5		118.2	53.2	71.2	72.2	116	2.2	12	●	2	
MPS1-1200-PC	2		96.9	25.9	48.9	48.9	95	1.9	12	●	2	
MPS1-1200-L8C	8		183.5	98.5	134.5	137.5	181	2.5	12	●	2	
MPS1-1200-L10C	10		207.2	122.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1200-L12C	12		231.2	146.2	182.2	185.2	229	2.2	12	●	2	
MPS1-1200-L15C	15		267.2	182.2	218.2	221.2	265	2.2	12	●	2	
MPS1-1200-L20C	20		327.2	242.2	278.2	281.2	325	2.2	12	●	2	
MPS1-1200-L25C	25		387.2	302.2	338.2	341.2	385	2.2	12	●	2	
MPS1-1205S-DIN	12.05		3	107.2	42.1	60.2	61.2	105	2.2	14	□	4
MPS1-1205S-DIN-C		3	107.2	42.1	60.2	61.2	105	2.2	14	●	2	
MPS1-1205L-DIN		5	124.2	59.1	77.2	78.2	122	2.2	14	□	4	
MPS1-1205L-DIN-C		5	124.2	59.1	77.2	78.2	122	2.2	14	●	2	
MPS1-1210S-DIN	12.1	3	107.2	42.1	60.2	61.2	105	2.2	14	□	4	
MPS1-1210S-DIN-C		3	107.2	42.1	60.2	61.2	105	2.2	14	●	2	
MPS1-1210L-DIN		5	124.2	59.1	77.2	78.2	122	2.2	14	□	4	
MPS1-1210L-DIN-C		5	124.2	59.1	77.2	78.2	122	2.2	14	●	2	
MPS1-1210-PC		2	103.9	26.1	52.9	55.9	102	1.9	14	●	2	
MPS1-1210-L8C		8	189.5	99.3	140.5	143.5	187	2.5	14	●	2	
MPS1-1210-L10C		10	214.2	123.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1210-L12C		12	239.2	147.4	190.2	193.2	237	2.2	14	●	2	
MPS1-1210-L15C		15	276.2	183.7	227.2	230.2	274	2.2	14	●	2	
MPS1-1210-L20C		20	339.2	244.2	290.2	293.2	337	2.2	14	□	2	
MPS1-1220S-DIN		12.2	3	107.2	41.9	60.2	61.2	105	2.2	14	□	4
MPS1-1220S-DIN-C			3	107.2	41.9	60.2	61.2	105	2.2	14	●	2
MPS1-1220L-DIN	5		124.2	58.9	77.2	78.2	122	2.2	14	□	4	
MPS1-1220L-DIN-C	5		124.2	58.9	77.2	78.2	122	2.2	14	●	2	
MPS1-1220-PC	2		103.9	26.3	52.9	55.9	102	1.9	14	●	2	
MPS1-1220-L8C	8		189.5	100.1	140.5	143.5	187	2.5	14	●	2	
MPS1-1220-L10C	10		214.2	124.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1220-L12C	12		239.2	148.6	190.2	193.2	237	2.2	14	●	2	
MPS1-1220-L15C	15		276.2	185.2	227.2	230.2	274	2.2	14	●	2	
MPS1-1220-L20C	20		339.2	246.2	290.2	293.2	337	2.2	14	□	2	

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1230S-DIN	12.3	3	107.2	41.8	60.2	61.2	105	2.2	14	□	4
MPS1-1230S-DIN-C		3	107.2	41.8	60.2	61.2	105	2.2	14	●	2
MPS1-1230L-DIN		5	124.2	58.8	77.2	78.2	122	2.2	14	□	4
MPS1-1230L-DIN-C		5	124.2	58.8	77.2	78.2	122	2.2	14	●	2
MPS1-1230-PC		2	103.9	26.5	52.9	55.9	102	1.9	14	□	2
MPS1-1230-L8C		8	189.5	100.9	140.5	143.5	187	2.5	14	●	2
MPS1-1230-L10C		10	214.2	125.2	165.2	168.2	212	2.2	14	□	2
MPS1-1230-L12C		12	239.2	149.8	190.2	193.2	237	2.2	14	□	2
MPS1-1230-L15C		15	276.2	186.7	227.2	230.2	274	2.2	14	□	2
MPS1-1230-L20C		20	339.2	248.2	290.2	293.2	337	2.2	14	□	2
MPS1-1240S-DIN	12.4	3	107.3	41.7	60.3	61.3	105	2.3	14	□	4
MPS1-1240S-DIN-C		3	107.3	41.7	60.3	61.3	105	2.3	14	●	2
MPS1-1240L-DIN		5	124.3	58.7	77.3	78.3	122	2.3	14	□	4
MPS1-1240L-DIN-C		5	124.3	58.7	77.3	78.3	122	2.3	14	●	2
MPS1-1240-PC		2	104.0	26.8	53.0	56.0	102	2.0	14	□	2
MPS1-1240-L8C		8	189.6	101.8	140.6	143.6	187	2.6	14	●	2
MPS1-1240-L10C		10	214.3	126.3	165.3	168.3	212	2.3	14	□	2
MPS1-1240-L12C		12	239.3	151.1	190.3	193.3	237	2.3	14	□	2
MPS1-1240-L15C		15	276.3	188.3	227.3	230.3	274	2.3	14	□	2
MPS1-1240-L20C		20	339.3	250.3	290.3	293.3	337	2.3	14	□	2
MPS1-1250S-DIN	12.5	3	107.3	41.5	60.3	61.3	105	2.3	14	□	4
MPS1-1250S-DIN-C		3	107.3	41.5	60.3	61.3	105	2.3	14	●	2
MPS1-1250L-DIN		5	124.3	58.5	77.3	78.3	122	2.3	14	□	4
MPS1-1250L-DIN-C		5	124.3	58.5	77.3	78.3	122	2.3	14	●	2
MPS1-1250-PC		2	104.0	27.0	53.0	56.0	102	2.0	14	●	2
MPS1-1250-L8C		8	189.6	102.6	140.6	143.6	187	2.6	14	●	2
MPS1-1250-L10C		10	214.3	127.3	165.3	168.3	212	2.3	14	□	2
MPS1-1250-L12C		12	239.3	152.3	190.3	193.3	237	2.3	14	●	2
MPS1-1250-L15C		15	276.3	189.8	227.3	230.3	274	2.3	14	●	2
MPS1-1250-L20C		20	339.3	252.3	290.3	293.3	337	2.3	14	□	2
MPS1-1260S-DIN	12.6	3	107.3	41.4	60.3	61.3	105	2.3	14	□	4
MPS1-1260S-DIN-C		3	107.3	41.4	60.3	61.3	105	2.3	14	●	2
MPS1-1260L-DIN		5	124.3	58.4	77.3	78.3	122	2.3	14	□	4
MPS1-1260L-DIN-C		5	124.3	58.4	77.3	78.3	122	2.3	14	●	2
MPS1-1260-PC		2	104.0	27.2	53.0	55.0	102	2.0	14	□	2
MPS1-1260-L8C		8	194.6	103.4	145.6	148.6	192	2.6	14	●	2
MPS1-1260-L10C		10	220.3	128.3	171.3	174.3	218	2.3	14	□	2
MPS1-1260-L12C		12	246.3	153.5	197.3	200.3	244	2.3	14	□	2
MPS1-1260-L15C		15	285.3	191.3	236.3	239.3	283	2.3	14	□	2
MPS1-1260-L20C		20	350.3	254.3	301.3	304.3	348	2.3	14	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1270S-DIN	12.7	3	107.3	41.3	60.3	61.3	105	2.3	14	□	4
MPS1-1270S-DIN-C		3	107.3	41.3	60.3	61.3	105	2.3	14	●	2
MPS1-1270L-DIN		5	124.3	58.3	77.3	78.3	122	2.3	14	□	4
MPS1-1270L-DIN-C		5	124.3	58.3	77.3	78.3	122	2.3	14	●	2
MPS1-1270-PC		2	104.0	27.4	53.0	55.0	102	2.0	14	●	2
MPS1-1270-L8C		8	194.6	104.2	145.6	148.6	192	2.6	14	●	2
MPS1-1270-L10C		10	220.3	129.3	171.3	174.3	218	2.3	14	□	2
MPS1-1270-L12C		12	246.3	154.7	197.3	200.3	244	2.3	14	●	2
MPS1-1270-L15C		15	285.3	192.8	236.3	239.3	283	2.3	14	□	2
MPS1-1270-L20C		20	350.3	256.3	301.3	304.3	348	2.3	14	□	2
MPS1-1280S-DIN	12.8	3	107.3	41.1	60.3	61.3	105	2.3	14	□	4
MPS1-1280S-DIN-C		3	107.3	41.1	60.3	61.3	105	2.3	14	●	2
MPS1-1280L-DIN		5	124.3	58.1	77.3	78.3	122	2.3	14	□	4
MPS1-1280L-DIN-C		5	124.3	58.1	77.3	78.3	122	2.3	14	●	2
MPS1-1280-PC		2	104.0	27.6	53.0	55.0	102	2.0	14	●	2
MPS1-1280-L8C		8	194.7	105.1	145.7	148.7	192	2.7	14	●	2
MPS1-1280-L10C		10	220.3	130.3	171.3	174.3	218	2.3	14	□	2
MPS1-1280-L12C		12	246.3	155.9	197.3	200.3	244	2.3	14	●	2
MPS1-1280-L15C		15	285.3	194.3	236.3	239.3	283	2.3	14	□	2
MPS1-1280-L20C		20	350.3	258.3	301.3	304.3	348	2.3	14	□	2
MPS1-1290S-DIN	12.9	3	107.3	41.0	60.3	61.3	105	2.3	14	□	4
MPS1-1290S-DIN-C		3	107.3	41.0	60.3	61.3	105	2.3	14	●	2
MPS1-1290L-DIN		5	124.3	58.0	77.3	78.3	122	2.3	14	□	4
MPS1-1290L-DIN-C		5	124.3	58.0	77.3	78.3	122	2.3	14	●	2
MPS1-1290-PC		2	104.0	27.8	53.0	55.0	102	2.0	14	□	2
MPS1-1290-L8C		8	194.7	105.9	145.7	148.7	192	2.7	14	●	2
MPS1-1290-L10C		10	220.3	131.3	171.3	174.3	218	2.3	14	□	2
MPS1-1290-L12C		12	246.3	157.1	197.3	200.3	244	2.3	14	□	2
MPS1-1290-L15C		15	285.3	195.8	236.3	239.3	283	2.3	14	□	2
MPS1-1290-L20C		20	350.3	260.3	301.3	304.3	348	2.3	14	□	2
MPS1-1300S-DIN	13.0	3	107.4	40.9	60.4	61.4	105	2.4	14	□	4
MPS1-1300S-DIN-C		3	107.4	40.9	60.4	61.4	105	2.4	14	●	2
MPS1-1300L-DIN		5	124.4	57.9	77.4	78.4	122	2.4	14	□	4
MPS1-1300L-DIN-C		5	124.4	57.9	77.4	78.4	122	2.4	14	●	2
MPS1-1300-PC		2	104.0	28.0	53.0	55.0	102	2.0	14	●	2
MPS1-1300-L8C		8	194.7	106.7	145.7	148.7	192	2.7	14	●	2
MPS1-1300-L10C		10	220.4	132.4	171.4	174.4	218	2.4	14	□	2
MPS1-1300-L12C		12	246.4	158.4	197.4	200.4	244	2.4	14	●	2
MPS1-1300-L15C		15	285.4	197.4	236.4	239.4	283	2.4	14	●	2
MPS1-1300-L20C		20	350.4	262.4	301.4	304.4	348	2.4	14	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1310S-DIN	13.1	3	107.4	40.7	60.4	61.4	105	2.4	14	□	4
MPS1-1310S-DIN-C		3	107.4	40.7	60.4	61.4	105	2.4	14	●	2
MPS1-1310L-DIN		5	124.4	57.7	77.4	78.4	122	2.4	14	□	4
MPS1-1310L-DIN-C		5	124.4	57.7	77.4	78.4	122	2.4	14	●	2
MPS1-1310-PC		2	109.1	28.3	56.1	59.1	107	2.1	14	□	2
MPS1-1310-L8C		8	200.7	107.5	151.7	154.7	198	2.7	14	●	2
MPS1-1310-L10C		10	227.4	133.4	178.4	181.4	225	2.4	14	□	2
MPS1-1310-L12C		12	254.4	159.6	205.4	208.4	252	2.4	14	□	2
MPS1-1310-L15C		15	294.4	198.9	245.4	248.4	292	2.4	14	□	2
MPS1-1310-L20C		20	362.4	264.4	313.4	316.4	360	2.4	14	□	2
MPS1-1320S-DIN	13.2	3	107.4	40.6	60.4	61.4	105	2.4	14	□	4
MPS1-1320S-DIN-C		3	107.4	40.6	60.4	61.4	105	2.4	14	●	2
MPS1-1320L-DIN		5	124.4	57.6	77.4	78.4	122	2.4	14	□	4
MPS1-1320L-DIN-C		5	124.4	57.6	77.4	78.4	122	2.4	14	●	2
MPS1-1320-PC		2	109.1	28.5	56.1	59.1	107	2.1	14	●	2
MPS1-1320-L8C		8	200.7	108.3	151.7	154.7	198	2.7	14	●	2
MPS1-1320-L10C		10	227.4	134.4	178.4	181.4	225	2.4	14	□	2
MPS1-1320-L12C		12	254.4	160.8	205.4	208.4	252	2.4	14	●	2
MPS1-1320-L15C		15	294.4	200.4	245.4	248.4	292	2.4	14	□	2
MPS1-1320-L20C		20	362.4	266.4	313.4	316.4	360	2.4	14	□	2
MPS1-1330S-DIN	13.3	3	107.4	40.5	60.4	61.4	105	2.4	14	□	4
MPS1-1330S-DIN-C		3	107.4	40.5	60.4	61.4	105	2.4	14	●	2
MPS1-1330L-DIN		5	124.4	57.5	77.4	78.4	122	2.4	14	□	4
MPS1-1330L-DIN-C		5	124.4	57.5	77.4	78.4	122	2.4	14	●	2
MPS1-1330-PC		2	109.1	28.7	56.1	59.1	107	2.1	14	□	2
MPS1-1330-L8C		8	200.8	109.2	151.8	154.8	198	2.8	14	●	2
MPS1-1330-L10C		10	227.4	135.4	178.4	181.4	225	2.4	14	□	2
MPS1-1330-L12C		12	254.4	162.0	205.4	208.4	252	2.4	14	□	2
MPS1-1330-L15C		15	294.4	201.9	245.4	248.4	292	2.4	14	□	2
MPS1-1330-L20C		20	362.4	268.4	313.4	316.4	360	2.4	14	□	2
MPS1-1340S-DIN	13.4	3	107.4	40.3	60.4	61.4	105	2.4	14	□	4
MPS1-1340S-DIN-C		3	107.4	40.3	60.4	61.4	105	2.4	14	●	2
MPS1-1340L-DIN		5	124.4	57.3	77.4	78.4	122	2.4	14	□	4
MPS1-1340L-DIN-C		5	124.4	57.3	77.4	78.4	122	2.4	14	●	2
MPS1-1340-PC		2	109.1	28.9	56.1	59.1	107	2.1	14	□	2
MPS1-1340-L8C		8	200.8	110.0	151.8	154.8	198	2.8	14	●	2
MPS1-1340-L10C		10	227.4	136.4	178.4	181.4	225	2.4	14	□	2
MPS1-1340-L12C		12	254.4	163.2	205.4	208.4	252	2.4	14	□	2
MPS1-1340-L15C		15	294.4	203.4	245.4	248.4	292	2.4	14	□	2
MPS1-1340-L20C		20	362.4	270.4	313.4	316.4	360	2.4	14	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1350S-DIN	13.5	3	107.5	40.2	60.5	61.5	105	2.5	14	□	4
MPS1-1350S-DIN-C		3	107.5	40.2	60.5	61.5	105	2.5	14	●	2
MPS1-1350L-DIN		5	124.5	57.2	77.5	78.5	122	2.5	14	□	4
MPS1-1350L-DIN-C		5	124.5	57.2	77.5	78.5	122	2.5	14	●	2
MPS1-1350-PC		2	109.1	29.1	56.1	59.1	107	2.1	14	●	2
MPS1-1350-L8C		8	200.8	110.8	151.8	154.8	198	2.8	14	●	2
MPS1-1350-L10C		10	227.5	137.5	178.5	181.5	225	2.5	14	□	2
MPS1-1350-L12C		12	254.5	164.5	205.5	208.5	252	2.5	14	●	2
MPS1-1350-L15C		15	294.5	205.0	245.5	248.5	292	2.5	14	□	2
MPS1-1350-L20C		20	362.5	272.5	313.5	316.5	360	2.5	14	□	2
MPS1-1360S-DIN	13.6	3	107.5	40.1	60.5	61.5	105	2.5	14	□	4
MPS1-1360S-DIN-C		3	107.5	40.1	60.5	61.5	105	2.5	14	●	2
MPS1-1360L-DIN		5	124.5	57.1	77.5	78.5	122	2.5	14	□	4
MPS1-1360L-DIN-C		5	124.5	57.1	77.5	78.5	122	2.5	14	●	2
MPS1-1360-PC		2	109.1	29.3	56.1	56.1	107	2.1	14	□	2
MPS1-1360-L8C		8	205.8	111.6	156.8	159.8	203	2.8	14	●	2
MPS1-1360-L10C		10	233.5	138.5	184.5	187.5	231	2.5	14	□	2
MPS1-1360-L12C		12	261.5	165.7	212.5	215.5	259	2.5	14	□	2
MPS1-1360-L15C		15	303.5	206.5	254.5	257.5	301	2.5	14	□	2
MPS1-1360-L20C		20	373.5	274.5	324.5	327.5	371	2.5	14	□	2
MPS1-1370S-DIN	13.7	3	107.5	39.9	60.5	61.5	105	2.5	14	□	4
MPS1-1370S-DIN-C		3	107.5	39.9	60.5	61.5	105	2.5	14	●	2
MPS1-1370L-DIN		5	124.5	56.9	77.5	78.5	122	2.5	14	□	4
MPS1-1370L-DIN-C		5	124.5	56.9	77.5	78.5	122	2.5	14	●	2
MPS1-1370-PC		2	109.2	29.6	56.2	56.2	107	2.2	14	□	2
MPS1-1370-L8C		8	205.8	112.4	156.8	159.8	203	2.8	14	●	2
MPS1-1370-L10C		10	233.5	139.5	184.5	187.5	231	2.5	14	□	2
MPS1-1370-L12C		12	261.5	166.9	212.5	215.5	259	2.5	14	□	2
MPS1-1370-L15C		15	303.5	208.0	254.5	257.5	301	2.5	14	□	2
MPS1-1370-L20C		20	373.5	276.5	324.5	327.5	371	2.5	14	□	2
MPS1-1380S-DIN	13.8	3	107.5	39.8	60.5	61.5	105	2.5	14	□	4
MPS1-1380S-DIN-C		3	107.5	39.8	60.5	61.5	105	2.5	14	●	2
MPS1-1380L-DIN		5	124.5	56.8	77.5	78.5	122	2.5	14	□	4
MPS1-1380L-DIN-C		5	124.5	56.8	77.5	78.5	122	2.5	14	●	2
MPS1-1380-PC		2	109.2	29.8	56.2	56.2	107	2.2	14	□	2
MPS1-1380-L8C		8	205.9	113.3	156.9	159.9	203	2.9	14	●	2
MPS1-1380-L10C		10	233.5	140.5	184.5	187.5	231	2.5	14	□	2
MPS1-1380-L12C		12	261.5	168.1	212.5	215.5	259	2.5	14	□	2
MPS1-1380-L15C		15	303.5	209.5	254.5	257.5	301	2.5	14	□	2
MPS1-1380-L20C		20	373.5	278.5	324.5	327.5	371	2.5	14	□	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1390S-DIN	13.9	3	107.5	39.7	60.5	61.5	105	2.5	14	□	4
MPS1-1390S-DIN-C		3	107.5	39.7	60.5	61.5	105	2.5	14	●	2
MPS1-1390L-DIN		5	124.5	56.7	77.5	78.5	122	2.5	14	□	4
MPS1-1390L-DIN-C		5	124.5	56.7	77.5	78.5	122	2.5	14	●	2
MPS1-1390-PC		2	109.2	30.0	56.2	56.2	107	2.2	14	□	2
MPS1-1390-L8C		8	205.9	114.1	156.9	159.9	203	2.9	14	●	2
MPS1-1390-L10C		10	233.5	141.5	184.5	187.5	231	2.5	14	□	2
MPS1-1390-L12C		12	261.5	169.3	212.5	215.5	259	2.5	14	□	2
MPS1-1390-L15C		15	303.5	211.0	254.5	257.5	301	2.5	14	□	2
MPS1-1390-L20C		20	373.5	280.5	324.5	327.5	371	2.5	14	□	2
MPS1-1400S-DIN	14.0	3	107.5	39.5	60.5	61.5	105	2.5	14	□	4
MPS1-1400S-DIN-C		3	107.5	39.5	60.5	61.5	105	2.5	14	●	2
MPS1-1400L-DIN		5	124.5	56.5	77.5	78.5	122	2.5	14	□	4
MPS1-1400L-DIN-C		5	124.5	56.5	77.5	78.5	122	2.5	14	●	2
MPS1-1400-PC		2	109.2	30.2	56.2	56.2	107	2.2	14	●	2
MPS1-1400-L8C		8	205.9	114.9	156.9	159.9	203	2.9	14	●	2
MPS1-1400-L10C		10	233.5	142.5	184.5	187.5	231	2.5	14	□	2
MPS1-1400-L12C		12	261.5	170.5	212.5	215.5	259	2.5	14	●	2
MPS1-1400-L15C		15	303.5	212.5	254.5	257.5	301	2.5	14	●	2
MPS1-1400-L20C		20	373.5	282.5	324.5	327.5	371	2.5	14	●	2
MPS1-1420S-DIN	14.2	3	114.6	43.3	64.6	65.6	112	2.6	16	□	4
MPS1-1420S-DIN-C		3	114.6	43.3	64.6	65.6	112	2.6	16	●	2
MPS1-1420L-DIN		5	132.6	61.3	82.6	83.6	130	2.6	16	□	4
MPS1-1420L-DIN-C		5	132.6	61.3	82.6	83.6	130	2.6	16	●	2
MPS1-1450S-DIN	14.5	3	114.6	42.9	64.6	65.6	112	2.6	16	□	4
MPS1-1450S-DIN-C		3	114.6	42.9	64.6	65.6	112	2.6	16	●	2
MPS1-1450L-DIN		5	132.6	60.9	82.6	83.6	130	2.6	16	□	4
MPS1-1450L-DIN-C		5	132.6	60.9	82.6	83.6	130	2.6	16	●	2
MPS1-1500S-DIN	15.0	3	114.7	42.2	64.7	65.7	112	2.7	16	□	4
MPS1-1500S-DIN-C		3	114.7	42.2	64.7	65.7	112	2.7	16	●	2
MPS1-1500L-DIN		5	132.7	60.2	82.7	83.7	130	2.7	16	□	4
MPS1-1500L-DIN-C		5	132.7	60.2	82.7	83.7	130	2.7	16	●	2
MPS1-1550S-DIN	15.5	3	114.8	41.6	64.8	65.8	112	2.8	16	□	4
MPS1-1550S-DIN-C		3	114.8	41.6	64.8	65.8	112	2.8	16	●	2
MPS1-1550L-DIN		5	132.8	59.6	82.8	83.8	130	2.8	16	□	4
MPS1-1550L-DIN-C	5	132.8	59.6	82.8	83.8	130	2.8	16	●	2	
MPS1-1600S-DIN	16.0	3	114.9	40.9	64.9	65.9	112	2.9	16	□	4
MPS1-1600S-DIN-C		3	114.9	40.9	64.9	65.9	112	2.9	16	●	2
MPS1-1600L-DIN		5	132.9	58.9	82.9	83.9	130	2.9	16	□	4
MPS1-1600L-DIN-C		5	132.9	58.9	82.9	83.9	130	2.9	16	●	2
MPS1-1650S-DIN	16.5	3	123.0	48.3	73.0	74.0	120	3.0	18	□	4
MPS1-1650S-DIN-C		3	123.0	48.3	73.0	74.0	120	3.0	18	●	2
MPS1-1650L-DIN		5	143.0	68.3	93.0	94.0	140	3.0	18	□	4
MPS1-1650L-DIN-C		5	143.0	68.3	93.0	94.0	140	3.0	18	●	2
MPS1-1700S-DIN	17.0	3	123.1	47.6	73.1	74.1	120	3.1	18	□	4
MPS1-1700S-DIN-C		3	123.1	47.6	73.1	74.1	120	3.1	18	●	2
MPS1-1700L-DIN		5	143.1	67.6	93.1	94.1	140	3.1	18	□	4
MPS1-1700L-DIN-C		5	143.1	67.6	93.1	94.1	140	3.1	18	●	2

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MPS1

SOLID CARBIDE DRILL

Order number	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Type
MPS1-1750S-DIN	17.5	3	123.2	46.9	73.2	74.2	120	3.2	18	□	4
MPS1-1750S-DIN-C		3	123.2	46.9	73.2	74.2	120	3.2	18	●	2
MPS1-1750L-DIN		5	143.2	66.9	93.2	94.2	140	3.2	18	□	4
MPS1-1750L-DIN-C		5	143.2	66.9	93.2	94.2	140	3.2	18	●	2
MPS1-1800S-DIN	18.0	3	123.3	46.3	73.3	74.3	120	3.3	18	□	4
MPS1-1800S-DIN-C		3	123.3	46.3	73.3	74.3	120	3.3	18	●	2
MPS1-1800L-DIN		5	143.3	66.3	93.3	94.3	140	3.3	18	□	4
MPS1-1800L-DIN-C		5	143.3	66.3	93.3	94.3	140	3.3	18	●	2
MPS1-1850S-DIN	18.5	3	131.4	51.6	79.4	80.4	128	3.4	20	□	4
MPS1-1850S-DIN-C		3	131.4	51.6	79.4	80.4	128	3.4	20	●	2
MPS1-1850L-DIN		5	153.4	73.6	101.4	102.4	150	3.4	20	□	4
MPS1-1850L-DIN-C		5	153.4	73.6	101.4	102.4	150	3.4	20	●	2
MPS1-1900S-DIN	19.0	3	131.5	51.0	79.5	80.5	128	3.5	20	□	4
MPS1-1900S-DIN-C		3	131.5	51.0	79.5	80.5	128	3.5	20	●	2
MPS1-1900L-DIN		5	153.5	73.0	101.5	102.5	150	3.5	20	□	4
MPS1-1900L-DIN-C		5	153.5	73.0	101.5	102.5	150	3.5	20	●	2
MPS1-1950S-DIN	19.5	3	131.5	50.3	79.5	80.5	128	3.5	20	□	4
MPS1-1950S-DIN-C		3	131.5	50.3	79.5	80.5	128	3.5	20	●	2
MPS1-1950L-DIN		5	153.5	72.3	101.5	102.5	150	3.5	20	□	4
MPS1-1950L-DIN-C		5	153.5	72.3	101.5	102.5	150	3.5	20	●	2
MPS1-2000S-DIN	20.0	3	131.6	49.6	79.6	80.6	128	3.6	20	□	4
MPS1-2000S-DIN-C		3	131.6	49.6	79.6	80.6	128	3.6	20	●	2
MPS1-2000L-DIN		5	153.6	71.6	101.6	102.6	150	3.6	20	□	4
MPS1-2000L-DIN-C		5	153.6	71.6	101.6	102.6	150	3.6	20	●	2

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MPS1

RECOMMENDED CUTTING CONDITIONS

Material	Properties	DC	L x DC	Vc	f
Mild steel	<180HB	3	3-8	100 (60-150)	0.15 (0.10-0.20)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	75 (40- 95)	0.14 (0.08-0.19)
		4	3-8	120 (70-170)	0.19 (0.12-0.25)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	75 (40- 95)	0.16 (0.10-0.24)
		5	3-8	130 (80-190)	0.23 (0.15-0.30)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	75 (40- 95)	0.20 (0.12-0.28)
		6	3-8	140 (90-210)	0.27 (0.18-0.35)
			10-25	110 (70-120)	0.27 (0.17-0.37)
			30-40	90 (40-110)	0.22 (0.14-0.30)
		8	3-8	160 (100-240)	0.30 (0.20-0.40)
			10-25	110 (70-120)	0.30 (0.20-0.40)
			30-40	90 (40-110)	0.24 (0.16-0.32)
		10	3-8	170 (100-250)	0.33 (0.20-0.45)
			10-25	110 (70-120)	0.32 (0.22-0.42)
			30-40	90 (40-110)	0.26 (0.18-0.34)
		12	3-8	180 (100-250)	0.35 (0.20-0.50)
			10-25	130 (90-150)	0.34 (0.24-0.44)
30-40	105 (55-125)		0.27 (0.19-0.35)		
16	3-8	180 (100-250)	0.38 (0.20-0.55)		
	10-25	130 (90-150)	0.36 (0.26-0.46)		
20	3-8	180 (100-250)	0.40 (0.20-0.60)		
Carbon steel, Alloy steel	180-250HB	3	3-8	90 (60-140)	0.15 (0.10-0.19)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	75 (40- 85)	0.14 (0.08-0.19)
		4	3-8	100 (70-160)	0.18 (0.12-0.24)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	75 (40- 85)	0.16 (0.10-0.24)
		5	3-8	110 (80-180)	0.22 (0.15-0.29)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	75 (40- 85)	0.20 (0.12-0.28)
		6	3-8	120 (90-190)	0.26 (0.18-0.33)
			10-25	100 (60-110)	0.24 (0.15-0.33)
			30-40	80 (40- 90)	0.22 (0.14-0.30)
		8	3-8	140 (100-220)	0.29 (0.20-0.38)
			10-25	100 (60-110)	0.30 (0.20-0.40)
			30-40	80 (40- 90)	0.24 (0.16-0.32)
		10	3-8	150 (100-230)	0.32 (0.20-0.43)
			10-25	100 (60-110)	0.32 (0.22-0.42)
			30-40	80 (40- 90)	0.26 (0.18-0.34)
		12	3-8	160 (100-230)	0.34 (0.20-0.48)
			10-25	120 (80-140)	0.34 (0.24-0.44)
30-40	95 (55-105)		0.27 (0.19-0.35)		
16	3-8	160 (100-230)	0.36 (0.20-0.52)		
	10-25	120 (80-140)	0.36 (0.26-0.46)		
20	3-8	160 (100-230)	0.39 (0.20-0.57)		

MPS1

Material	Properties	DC	L x DC	Vc	f
P Carbon steel, Alloy steel	280-350 HB	3	3-8	80 (50-110)	0.12 (0.10-0.14)
			10-25	80 (40- 90)	0.15 (0.09-0.22)
			30-40	65 (40- 75)	0.15 (0.07-0.18)
		4	3-8	90 (60-120)	0.15 (0.12-0.18)
			10-25	80 (40- 90)	0.18 (0.11-0.27)
			30-40	65 (40- 75)	0.18 (0.09-0.22)
		5	3-8	90 (70-140)	0.19 (0.15-0.22)
			10-25	80 (40- 90)	0.22 (0.14-0.32)
			30-40	65 (40- 75)	0.22 (0.11-0.26)
		6	3-8	100 (80-150)	0.22 (0.18-0.25)
			10-25	90 (40-110)	0.24 (0.15-0.33)
			30-40	75 (40- 85)	0.24 (0.12-0.26)
		8	3-8	120 (90-170)	0.24 (0.20-0.27)
			10-25	90 (40-110)	0.27 (0.18-0.36)
			30-40	75 (40- 85)	0.27 (0.14-0.29)
		10	3-8	130 (90-180)	0.25 (0.20-0.30)
			10-25	90 (40-110)	0.29 (0.20-0.38)
			30-40	75 (40- 95)	0.29 (0.16-0.30)
		12	3-8	140 (90-180)	0.27 (0.20-0.34)
			10-25	100 (60-110)	0.30 (0.22-0.40)
30-40	80 (40-100)		0.30 (0.18-0.32)		
16	3-8	140 (90-180)	0.28 (0.20-0.36)		
	10-25	100 (60-110)	0.32 (0.23-0.41)		
20	3-8	140 (90-180)	0.30 (0.20-0.40)		
M Stainless steel		3	3-8	40 (20- 50)	0.08 (0.06-0.12)
			10-25	40 (20- 60)	0.07 (0.05-0.09)
			30-40	30 (20- 50)	0.06 (0.04-0.07)
		4	3-8	40 (30- 50)	0.09 (0.07-0.13)
			10-25	40 (20- 60)	0.08 (0.06-0.10)
			30-40	30 (20- 50)	0.06 (0.05-0.08)
		5	3-8	40 (30- 50)	0.11 (0.08-0.16)
			10-25	40 (20- 60)	0.10 (0.07-0.12)
			30-40	30 (20- 50)	0.08 (0.06-0.10)
		6	3-8	50 (40- 70)	0.14 (0.11-0.18)
			10-25	50 (20- 60)	0.12 (0.08-0.16)
			30-40	40 (20- 60)	0.10 (0.06-0.13)
		8	3-8	50 (40- 70)	0.15 (0.12-0.20)
			10-25	50 (20- 60)	0.14 (0.10-0.17)
			30-40	40 (20- 50)	0.11 (0.08-0.14)
		10	3-8	50 (40- 70)	0.16 (0.12-0.22)
			10-25	50 (20- 60)	0.15 (0.12-0.18)
			30-40	40 (20- 50)	0.12 (0.10-0.14)
		12	3-8	50 (40- 70)	0.18 (0.14-0.24)
			10-25	60 (25- 65)	0.17 (0.14-0.19)
			30-40	50 (20- 60)	0.14 (0.11-0.15)
		16	3-8	50 (40- 70)	0.19 (0.15-0.26)
			10-25	60 (25- 65)	0.17 (0.14-0.19)
		20	3-8	50 (40- 70)	0.21 (0.16-0.28)

MPS1

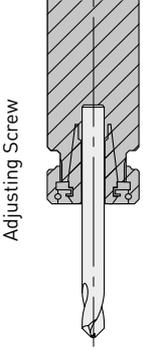
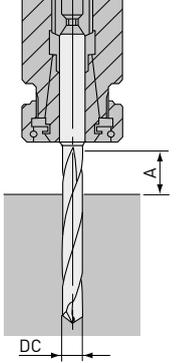
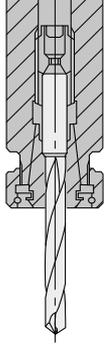
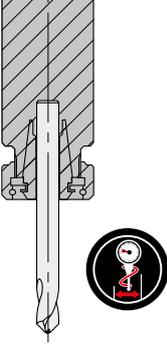
Material	Properties	DC	L x DC	Vc	f
K Cast iron	$\leq 350 \text{ MPa}$	3	3-8	90 (60-100)	0.15 (0.10-0.20)
			10-25	90 (40-110)	0.19 (0.11-0.26)
			30-40	75 (45- 95)	0.15 (0.09-0.21)
		4	3-8	100 (70-110)	0.21 (0.12-0.30)
			10-25	90 (40-110)	0.22 (0.13-0.33)
			30-40	75 (45- 95)	0.18 (0.10-0.26)
		5	3-8	110 (80-130)	0.25 (0.15-0.35)
			10-25	90 (40-110)	0.28 (0.17-0.39)
			30-40	75 (45- 95)	0.22 (0.13-0.31)
		6	3-8	120 (90-140)	0.29 (0.18-0.40)
			10-25	100 (60-110)	0.30 (0.19-0.41)
			30-40	90 (60-110)	0.24 (0.15-0.33)
		8	3-8	140 (100-160)	0.33 (0.20-0.45)
			10-25	100 (60-110)	0.33 (0.22-0.44)
			30-40	90 (60-100)	0.26 (0.18-0.35)
		10	3-8	150 (100-170)	0.35 (0.20-0.50)
			10-25	100 (60-110)	0.35 (0.24-0.46)
			30-40	90 (60-100)	0.28 (0.19-0.37)
		12	3-8	160 (100-170)	0.40 (0.20-0.60)
			10-25	120 (90-140)	0.37 (0.26-0.48)
30-40	105 (65-115)		0.30 (0.21-0.38)		
16	3-8	160 (100-170)	0.43 (0.20-0.65)		
	10-25	120 (90-140)	0.40 (0.29-0.48)		
20	3-8	160 (100-170)	0.45 (0.20-0.70)		
K Ductile cast iron	$\leq 450 \text{ MPa}$	3	3-8	80 (50- 90)	0.12 (0.08-0.16)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	30 (20- 50)	0.14 (0.08-0.19)
		4	3-8	90 (60-100)	0.17 (0.10-0.24)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	30 (20- 50)	0.16 (0.10-0.24)
		5	3-8	90 (70-120)	0.21 (0.14-0.28)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	30 (20- 50)	0.20 (0.12-0.28)
		6	3-8	100 (80-130)	0.25 (0.16-0.34)
			10-25	100 (60-110)	0.27 (0.17-0.37)
			30-40	40 (30- 60)	0.22 (0.14-0.30)
		8	3-8	120 (90-150)	0.28 (0.18-0.38)
			10-25	100 (60-110)	0.30 (0.20-0.40)
			30-40	40 (30- 60)	0.24 (0.16-0.32)
		10	3-8	130 (90-160)	0.29 (0.18-0.40)
			10-25	100 (60-110)	0.32 (0.22-0.42)
			30-40	40 (30- 60)	0.26 (0.18-0.34)
		12	3-8	140 (90-160)	0.31 (0.18-0.44)
			10-25	120 (90-140)	0.34 (0.24-0.44)
30-40	50 (40- 70)		0.27 (0.19-0.35)		
16	3-8	140 (90-160)	0.33 (0.18-0.48)		
	10-25	120 (90-140)	0.36 (0.26-0.46)		
20	3-8	140 (90-160)	0.35 (0.18-0.52)		

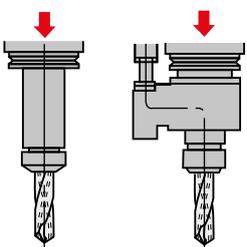
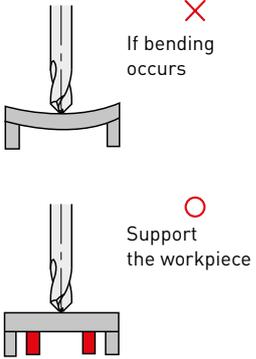
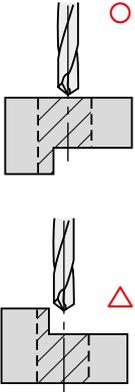
MPS1

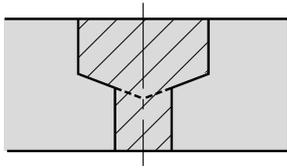
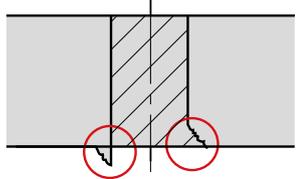
Material	Properties	DC	L x DC	Vc	f
K Ductile cast iron	≤ 800 MPa	3	3-8	60 (40- 80)	0.09 (0.06-0.12)
		4	3-8	70 (50- 90)	0.13 (0.08-0.18)
		5	3-8	70 (60-100)	0.17 (0.12-0.22)
		6	3-8	80 (70-110)	0.20 (0.14-0.26)
		8	3-8	100 (80-130)	0.23 (0.16-0.30)
		10	3-8	110 (80-140)	0.24 (0.16-0.32)
		12	3-8	110 (80-140)	0.25 (0.16-0.34)
		16	3-8	110 (80-140)	0.27 (0.16-0.38)
		20	3-8	110 (80-140)	0.28 (0.16-0.40)

MPS1

OPERATIONAL GUIDANCE

DRILL HOLDING	DRILL LENGTH	DRILL INSTALLATION	INSTALLATION TOLERANCE
 <p>Adjusting Screw</p>	 <p>DC</p> <p>A</p>		
<p>Thrust bearing type collet chuck holds the drill securely.</p>	<p>$A \geq DC \times 1.5$</p>	<p>Do not clamp on the flutes.</p>	<p>Run-out ≤ 0.03 mm</p>

THROUGH COOLANT TYPE	COOLANT HANDLING	THIN WORKPIECE	INTERRUPTED CUTTING
<p>Spindles through Coolant type Revolving coolant Machine type</p>  <p>Coolant pressure is approx. 0.5-1MPa (<math>\phi 5</math>:2-3MPa).</p>	<p>Small particles of swarf will jam in the oil hole of small diameter drills. Always use a fine mesh filter as a preventative measure.</p> <p>Dirt and dust particles adhere to the oil in old coolant and prevent an efficient flow. Regular coolant exchange is recommended.</p>	 <p>If bending occurs</p> <p>Support the workpiece</p>	<p>One Process</p>  <p>1. Lower the feed when drilling the interrupted part.</p> <p>Requires prior machining</p> <p>1. Spot face with an end mill prior to drilling.</p>

STEPPED HOLES	BURRING AND WORKPIECE CHIPPING
	
<p>Divide the two processes. Drill the larger hole first. A tool for machining both chamfer and spot face can be produced to order.</p>	<p>Lower the feed rate by 50 % at the end of through cutting. Add a 45° chamfer. Change the point angle.</p>

MPS1

HOW TO USE LONG TYPE DRILLS

DRILLING A BLIND HOLE

1. Drilling a pilot hole



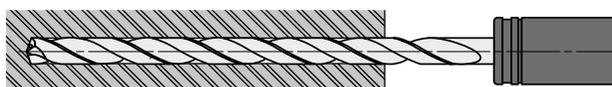
Use a drill with a larger (flatter) point angle than the super long type. Mitsubishi type MPS1 (PC) is recommended. Ensure a high precision hole is drilled for the guide. Drill depth: Approx 1DC or deeper. (Adjust the pilot hole depth according to the length of the super long type.)

2. Initial cutting with the long type drill



Penetrate the pilot hole at low revolution. (Cutting speed 20–30 m/min, feed rate 0.2–0.3 mm/rev) Stop the long type drill 1–3mm short of the pilot hole bottom.

3. Drill the deep hole



Start cutting at the recommended speed and feed with a non-peck (continuous feed) cycle.

4. Drill retraction



After drilling, lower the cutting revolution about 1–2 mm short of the hole end. (Cutting speed of around 20–30 m/min) Retract the drill to the pilot hole depth starting point at a feed rate of 3000 mm/min. Finally, clear the hole at a cutting speed of 20–30 m/min and feed rate of 0.2–0.3 mm/rev.

DRILLING AND BREAKING THROUGH ON IRREGULAR FACES OR ANGLES

1. Spot facing



Machine a flat on the irregular face by using an end mill or slot drill capable of spot facing. Make the spot face diameter the same size as the required deep hole diameter.

2. Drilling a pilot hole



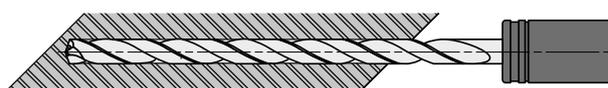
Use a drill with a larger (flatter) point angle than the super long type. Mitsubishi type MPS1 (PC) is recommended. Ensure a high precision hole is drilled for the guide. Drill depth: Approx 1DC or deeper. (Adjust the pilot hole depth according to the length of the super long type.)

3. Initial cutting with the long type drill



Penetrate the pilot hole at a low revolution. (Cutting speed 20–30 m/min, feed rate 0.2–0.3 mm/rev) Stop the long type drill 1–3 mm short of the pilot hole bottom.

4. Drill the deep hole



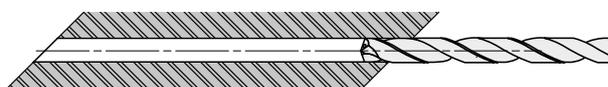
Start cutting at the recommended speed and feed with a non-peck (continuous feed) cycle. Feed as usual until breaking through.

5. Breaking through



When breaking through, the cutting edge can be damaged. A feed rate of 0.05–0.1 mm/rev is recommended.

6. Drill retraction



Retract the drill to the pilot hole depth starting point at a feed rate of 3000 mm/min. Finally clear the hole at a cutting speed of 20–30 m/min and feed rate of 0.2–0.3 mm/rev.

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