



MVX

INDEXABLE INSERT DRILL

THE LATEST TECHNOLOGY PROVIDING A HIGHLY RIGID BODY



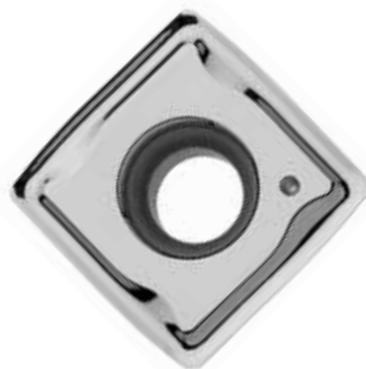
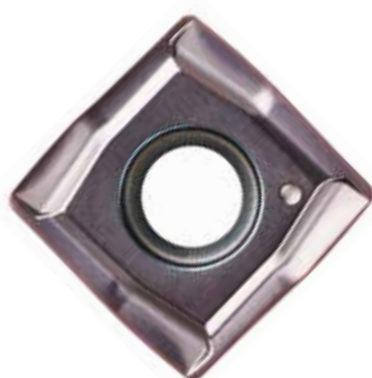
6xD

5xD

4xD

3xD

2xD



MITSUBISHI
MITSUBISHI MATERIALS

MVX

INDEXABLE DRILL



4 CUTTING EDGES



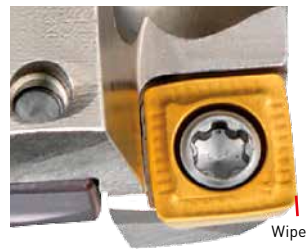
Economical
4-corner insert.

VARIOUS INSERT TYPES

For a wide range of
work materials and
applications.



EXCELLENT SURFACE FINISHES



A wiper type geometry
for the peripheral cutting
edge achieves excellent
wall accuracy.

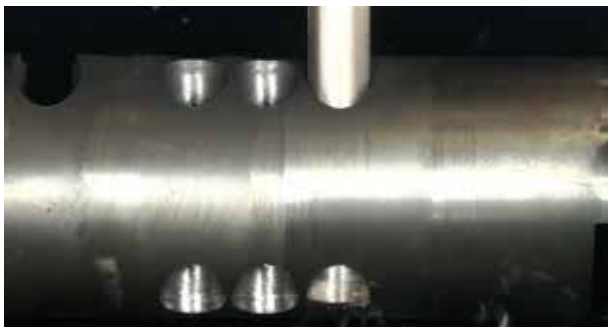
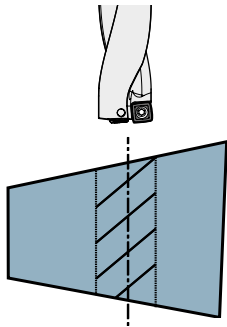
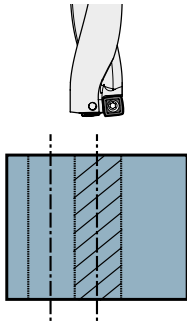
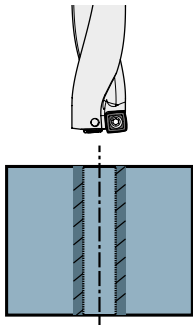
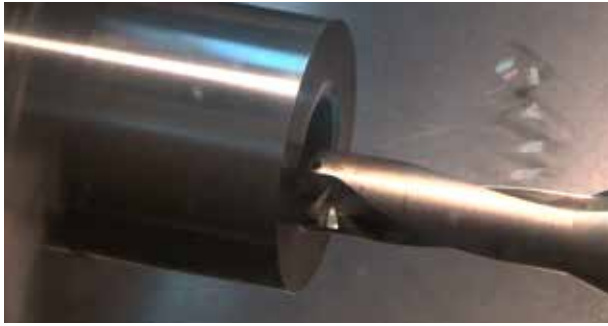
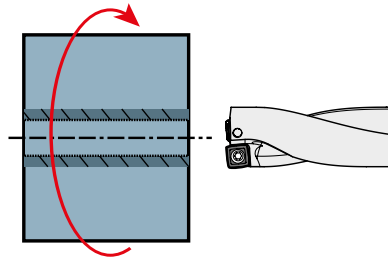
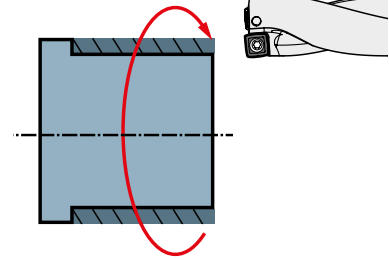
IDEAL COMBINATION OF CVD AND PVD INSERTS

A highly wear resistant CVD coated insert is used for the
peripheral edge and a PVD coated insert is used for the
inner position for extra stability.

DRILLING DEPTH ~ LD 6

High rigidity body and optimized insert position controls
deformation and vibration of the holder.

SPECIAL APPLICATION EXAMPLES

	Application Examples	Cutting Mode
Drilling on a Slope		
Overlapping Holes		
Boring		
Internal Turning		
External Turning		

For special applications only use up to DCx4 length tool body.

INSERT BREAKER

NEW UH BREAKER FOR HARDENED STEEL

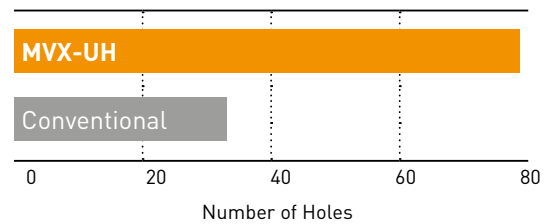


Strengthened cutting edge for drilling hardened steel up to 45 HRC.

Cutting Performance

Drill	MVX1700X3F20
Insert	Outer MC1020-UM Inner DP8020-UH
Work Material	DIN X40CrMoV51 (45HRC)
Cutting Speed Vc (m/min)	50
Feed Rate f (mm/rev)	0.08
Hole Depth ap (mm)	30 (Through Hole)

Comparison of number of holes drilled



NEW UN BREAKER FOR ALUMINIUM ALLOYS

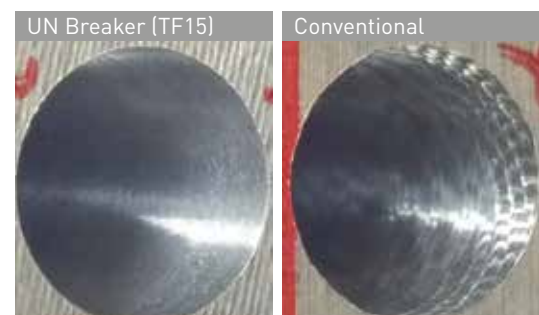


The UN chipbreaker designed with a sharp, ground edge provides outstanding chip disposal. Aluminium welding is also prevented by the smooth rake surfaces.

Cutting Performance

Drill	MVX1700X5F20
Insert	Outer TF15-UN Inner TF15-UN
Work Material	JIS ADC12
Cutting Speed Vc (m/min)	400
Feed Rate f (mm/rev)	0.05
Hole Depth ap (mm)	40 (Blind Hole)

Comparison of surface finish quality



US BREAKER FOR STAINLESS STEEL

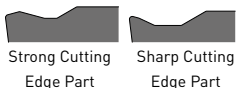
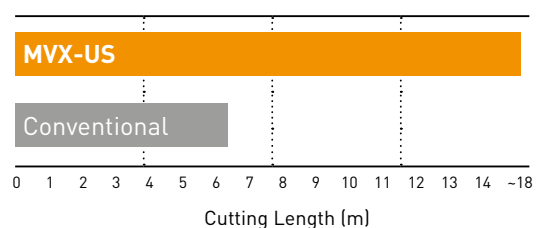


Specially designed for the inner edge. Excellent fracture and welding resistance.

Cutting Performance

Drill	MVX3000X3F32
Insert	Outer MC1020-UM Inner VP15TF-US
Work Material	DIN X5CrNi18-10
Cutting Speed Vc (m/min)	120
Feed Rate f (mm/rev)	0.12
Hole Depth ap (mm)	50 (Through Hole)

Comparison of cutting length



UM BREAKER FOR MEDIUM AND HIGH FEED RATES

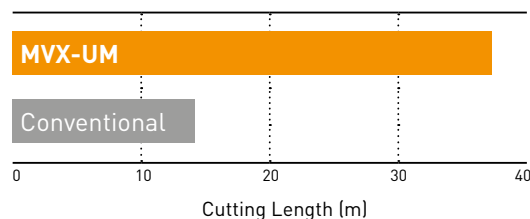


All-round breaker for steel, stainless steel, cast iron and hardened steel.

Cutting Performance

Drill	MVX1900X3F25
Insert	Outer MC1020-UM Inner VP15TF-UM
Work Material	DIN C50
Cutting Speed Vc (m/min)	220
Feed Rate f (mm/rev)	0.1
Hole Depth ap (mm)	50 (Through Hole)

Comparison of cutting length



INSERT SELECTION CRITERIA

The peripheral cutting speed is naturally slower towards the centre of the drill and chip welding easily occurs. Below are some important points that will help to select the correct insert.

Inserts	1st Recommendation		Outer insert fractures	
	Outer	Inner	Outer	Inner
P	MC1020 	VP15TF 	VP15TF 	VP15TF
	UM	UM	UM	UM
M	MC1020 	VP15TF 	VP15TF 	VP15TF
	UM	US	UM	US
K	MC5020 	VP15TF 	VP15TF 	VP15TF
	UM	UM	UM	UM
H	MC1020 	DP8020 	VP15TF 	DP8020
	UM	UH	UM	UH
N	TF15 	TF15 		
	UN	UN		

FEATURES OF GRADE

MC1020

MC1020 is a CVD coated grade for higher cutting speeds. The main properties are high wear and high plastic deformation resistance for reliability.

NEW DP8020

With the combination of a durable, special carbide substrate and high-hardness Ti-Al-Si coating. DP8020 is a PVD coated carbide grade suitable for hardened steel (45HRC or lower) and for preventing fracture when machining steel and cast iron.

MC5020

MC5020 is a CVD coated grade suitable for drilling cast iron. It has excellent abrasion resistance and gives long tool life by controlling chipping and thermal cracking that can occur when drilling nodular cast iron.

VP15TF

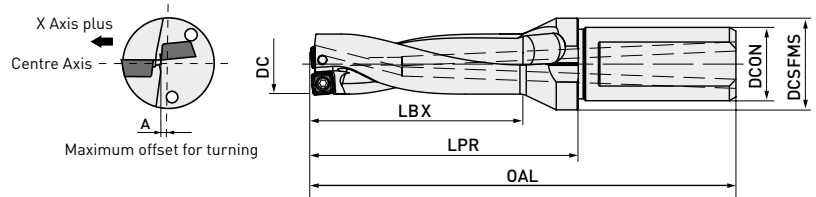
VP15TF is a PVD coated grade suitable for a wide range of applications. The micro-grain substrate and Miracle coating provide excellent welding resistance.

TF15

TF15 is a micro-grain, uncoated carbide with sharp cutting edge for drilling of aluminium alloys.

MVX

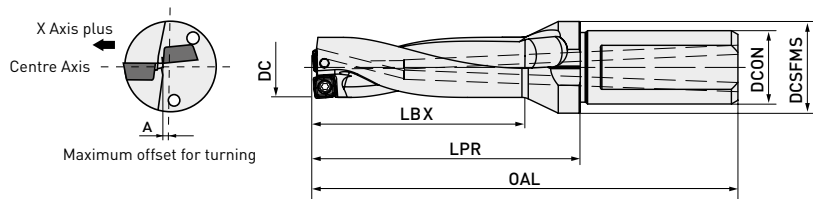
P M K N H



Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX1700X2F20	17.0	2	●	41	56	99	20	25	0.5	SO $\varnothing$ X06
MVX1700X3F20		3	●	58	73	116	20	25	0.5	SO $\varnothing$ X06
MVX1700X4F20		4	●	75	90	133	20	25	0.5	SO $\varnothing$ X06
MVX1700X5F20		5	●	92	107	150	20	25	0.5	SO $\varnothing$ X06
MVX1700X6F20		6	●	109	124	167	20	25	0.5	SO $\varnothing$ X06
MVX1750X2F25	17.5	2	●	42	62	112	25	32	0.45	SO $\varnothing$ X06
MVX1750X3F25		3	●	59.5	79.5	129.5	25	32	0.45	SO $\varnothing$ X06
MVX1750X4F25		4	●	77	97	147	25	32	0.45	SO $\varnothing$ X06
MVX1750X5F25		5	●	94.5	114.5	164.5	25	32	0.45	SO $\varnothing$ X06
MVX1750X6F25		6	●	112	132	182	25	32	0.45	SO $\varnothing$ X06
MVX1800X2F25	18.0	2	●	43	63	113	25	32	0.4	SO $\varnothing$ X06
MVX1800X3F25		3	●	61	81	131	25	32	0.4	SO $\varnothing$ X06
MVX1800X4F25		4	●	79	99	149	25	32	0.4	SO $\varnothing$ X06
MVX1800X5F25		5	●	97	117	167	25	32	0.4	SO $\varnothing$ X06
MVX1800X6F25		6	●	115	135	185	25	32	0.4	SO $\varnothing$ X06
MVX1850X2F25	18.5	2	●	44	64	114	25	32	0.35	SO $\varnothing$ X06
MVX1850X3F25		3	●	62.5	82.5	132.5	25	32	0.35	SO $\varnothing$ X06
MVX1850X4F25		4	●	81	101	151	25	32	0.35	SO $\varnothing$ X06
MVX1850X5F25		5	●	99.5	119.5	169.5	25	32	0.35	SO $\varnothing$ X06
MVX1850X6F25		6	●	118	138	188	25	32	0.35	SO $\varnothing$ X06
MVX1900X2F25	19.0	2	●	45	65	115	25	32	0.3	SO $\varnothing$ X06
MVX1900X3F25		3	●	64	84	134	25	32	0.3	SO $\varnothing$ X06
MVX1900X4F25		4	●	83	103	153	25	32	0.3	SO $\varnothing$ X06
MVX1900X5F25		5	●	102	122	172	25	32	0.3	SO $\varnothing$ X06
MVX1900X6F25		6	●	121	141	191	25	32	0.3	SO $\varnothing$ X06
MVX1950X2F25	19.5	2	●	46	66	116	25	32	0.25	SO $\varnothing$ X06
MVX1950X3F25		3	●	65.5	85.5	135.5	25	32	0.25	SO $\varnothing$ X06
MVX1950X4F25		4	●	85	105	155	25	32	0.25	SO $\varnothing$ X06
MVX1950X5F25		5	●	104.5	124.5	174.5	25	32	0.25	SO $\varnothing$ X06
MVX1950X6F25		6	●	124	144	194	25	32	0.25	SO $\varnothing$ X06

Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX2000X2F25	20.0	2	●	47	67	117	25	32	0.6	SOX07
MVX2000X3F25		3	●	67	87	137	25	32	0.6	SOX07
MVX2000X4F25		4	●	87	107	157	25	32	0.6	SOX07
MVX2000X5F25		5	●	107	127	177	25	32	0.6	SOX07
MVX2000X6F25		6	●	127	147	197	25	32	0.6	SOX07
MVX2050X2F25	20.5	2	●	48	68	118	25	32	0.55	SOX07
MVX2050X3F25		3	●	68.5	88.5	138.5	25	32	0.55	SOX07
MVX2100X2F25	21.0	2	●	49	69	119	25	32	0.5	SOX07
MVX2100X3F25		3	●	70	90	140	25	32	0.5	SOX07
MVX2100X4F25		4	●	91	111	161	25	32	0.5	SOX07
MVX2100X5F25		5	●	112	132	182	25	32	0.5	SOX07
MVX2100X6F25		6	●	133	153	203	25	32	0.5	SOX07
MVX2150X2F25	21.5	2	●	50	70	120	25	32	0.45	SOX07
MVX2150X3F25		3	●	71.5	91.5	141.5	25	32	0.45	SOX07
MVX2200X2F25	22.0	2	●	51	71	121	25	32	0.4	SOX07
MVX2200X3F25		3	●	73	93	143	25	32	0.4	SOX07
MVX2200X4F25		4	●	95	115	165	25	32	0.4	SOX07
MVX2200X5F25		5	●	117	137	187	25	32	0.4	SOX07
MVX2200X6F25		6	●	139	159	209	25	32	0.4	SOX07
MVX2250X2F25	22.5	2	●	52	72	122	25	32	0.35	SOX07
MVX2250X3F25		3	●	74.5	94.5	144.5	25	32	0.35	SOX07
MVX2300X2F25	23.0	2	●	53	73	123	25	32	0.8	SOX08
MVX2300X3F25		3	●	76	96	146	25	32	0.8	SOX08
MVX2300X4F25		4	●	99	119	169	25	32	0.8	SOX08
MVX2300X5F25		5	●	122	142	192	25	32	0.8	SOX08
MVX2300X6F25		6	●	145	165	215	25	32	0.8	SOX08
MVX2350X2F25	23.5	2	●	54	74	124	25	32	0.75	SOX08
MVX2350X3F25		3	●	77.5	97.5	147.5	25	32	0.75	SOX08
MVX2400X2F25	24.0	2	●	55	75	125	25	32	0.7	SOX08
MVX2400X3F25		3	●	79	99	149	25	32	0.7	SOX08
MVX2400X4F25		4	●	103	123	173	25	32	0.7	SOX08
MVX2400X5F25		5	●	127	147	197	25	32	0.7	SOX08
MVX2400X6F25		6	●	151	171	221	25	32	0.7	SOX08
MVX2450X2F25	24.5	2	●	56	76	126	25	32	0.65	SOX08
MVX2450X3F25		3	●	80.5	100.5	150.5	25	32	0.65	SOX08
MVX2500X2F25	25.0	2	●	57	77	127	25	32	0.6	SOX08
MVX2500X3F25		3	●	82	102	152	25	32	0.6	SOX08
MVX2500X4F25		4	●	107	127	177	25	32	0.6	SOX08
MVX2500X5F25		5	●	132	152	202	25	32	0.6	SOX08
MVX2500X6F25		6	●	157	177	227	25	32	0.6	SOX08
MVX2550X2F25	25.5	2	●	58	78	128	25	32	0.6	SOX08
MVX2550X3F25		3	●	83.5	103.5	153.5	25	32	0.6	SOX08

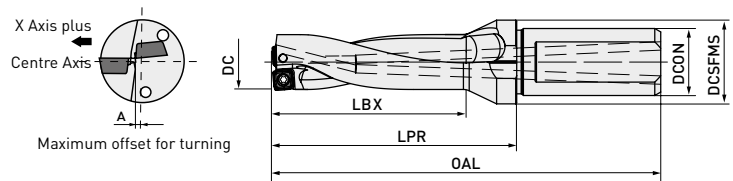
MVX



Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX2600X2F32	26.0	2	●	59	79	134	32	42	0.5	SO $\odot$ X08
MVX2600X3F32		3	●	85	105	160	32	42	0.5	SO $\odot$ X08
MVX2600X4F32		4	●	111	131	186	32	42	0.5	SO $\odot$ X08
MVX2600X5F32		5	●	137	157	212	32	42	0.5	SO $\odot$ X08
MVX2600X6F32		6	●	163	183	238	32	42	0.5	SO $\odot$ X08
MVX2650X2F32	26.5	2	●	60	80	135	32	42	0.5	SO $\odot$ X08
MVX2650X3F32		3	●	86.5	106.5	161.5	32	42	0.5	SO $\odot$ X08
MVX2700X2F32	27.0	2	●	61	81	136	32	42	0.45	SO $\odot$ X08
MVX2700X3F32		3	●	88	108	163	32	42	0.45	SO $\odot$ X08
MVX2700X4F32		4	●	115	135	190	32	42	0.45	SO $\odot$ X08
MVX2700X5F32		5	●	142	162	217	32	42	0.45	SO $\odot$ X08
MVX2700X6F32		6	●	169	189	244	32	42	0.45	SO $\odot$ X08
MVX2750X2F32	27.5	2	●	62	82	137	32	42	0.4	SO $\odot$ X08
MVX2750X3F32		3	●	89.5	109.5	164.5	32	42	0.4	SO $\odot$ X08
MVX2800X2F32	28.0	2	●	63	83	138	32	42	0.85	SO $\odot$ X09
MVX2800X3F32		3	●	91	111	166	32	42	0.85	SO $\odot$ X09
MVX2800X4F32		4	●	119	139	194	32	42	0.85	SO $\odot$ X09
MVX2800X5F32		5	●	147	167	222	32	42	0.85	SO $\odot$ X09
MVX2800X6F32		6	●	175	195	250	32	42	0.85	SO $\odot$ X09
MVX2850X2F32	28.5	2	●	64	84	139	32	42	0.8	SO $\odot$ X09
MVX2850X3F32		3	●	92.5	112.5	167.5	32	42	0.8	SO $\odot$ X09
MVX2900X2F32	29.0	2	●	65	85	140	32	42	0.75	SO $\odot$ X09
MVX2900X3F32		3	●	94	114	169	32	42	0.75	SO $\odot$ X09
MVX2900X4F32		4	●	123	143	198	32	42	0.75	SO $\odot$ X09
MVX2900X5F32		5	●	152	172	227	32	42	0.75	SO $\odot$ X09
MVX2900X6F32		6	●	181	201	256	32	42	0.75	SO $\odot$ X09
MVX2950X2F32	29.5	2	●	66	86	141	32	42	0.7	SO $\odot$ X09
MVX2950X3F32		3	●	95.5	115.5	170.5	32	42	0.7	SO $\odot$ X09
MVX3000X2F32	30.0	2	●	67	87	142	32	42	0.65	SO $\odot$ X09
MVX3000X3F32		3	●	97	117	172	32	42	0.65	SO $\odot$ X09
MVX3000X4F32		4	●	127	147	202	32	42	0.65	SO $\odot$ X09
MVX3000X5F32		5	●	157	177	232	32	42	0.65	SO $\odot$ X09
MVX3000X6F32		6	●	187	207	262	32	42	0.65	SO $\odot$ X09
MVX3050X3F32	30.5	3	●	98.5	118.5	173.5	32	42	0.6	SO $\odot$ X09

Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX3100X2F40	31.0	2	●	69	89	154	40	50	0.55	SOX09
MVX3100X3F40		3	●	100	120	185	40	50	0.55	SOX09
MVX3100X4F40		4	●	131	151	216	40	50	0.55	SOX09
MVX3100X5F40		5	●	162	182	247	40	50	0.55	SOX09
MVX3100X6F40		6	●	193	213	278	40	50	0.55	SOX09
MVX3150X3F40	31.5	3	●	101.5	121.5	186.5	40	50	0.55	SOX09
MVX3200X2F40	32.0	2	●	71	91	156	40	50	0.45	SOX09
MVX3200X3F40		3	●	103	123	188	40	50	0.45	SOX09
MVX3200X4F40		4	●	135	155	220	40	50	0.45	SOX09
MVX3200X5F40		5	●	167	187	252	40	50	0.45	SOX09
MVX3200X6F40		6	●	199	219	284	40	50	0.45	SOX09
MVX3250X3F40	32.5	3	●	104.5	124.5	189.5	40	50	0.45	SOX09
MVX3300X2F40	33.0	2	●	73	93	158	40	50	0.4	SOX09
MVX3300X3F40		3	●	106	126	191	40	50	0.4	SOX09
MVX3300X4F40		4	●	139	159	224	40	50	0.4	SOX09
MVX3300X5F40		5	●	172	192	257	40	50	0.4	SOX09
MVX3300X6F40		6	●	205	225	290	40	50	0.4	SOX09
MVX3350X3F40	33.5	3	●	107.5	127.5	192.5	40	50	1.2	SOX11
MVX3400X2F40	34.0	2	●	75	105	170	40	50	1.1	SOX11
MVX3400X3F40		3	●	109	139	204	40	50	1.1	SOX11
MVX3400X4F40		4	●	143	173	238	40	50	1.1	SOX11
MVX3400X5F40		5	●	177	207	272	40	50	1.1	SOX11
MVX3400X6F40		6	●	211	241	306	40	50	1.1	SOX11
MVX3450X3F40	34.5	3	●	110.5	140.5	205.5	40	50	1.1	SOX11
MVX3500X2F40	35.0	2	●	77	107	172	40	50	1.0	SOX11
MVX3500X3F40		3	●	112	142	207	40	50	1.0	SOX11
MVX3500X4F40		4	●	147	177	242	40	50	1.0	SOX11
MVX3500X5F40		5	●	182	212	277	40	50	1.0	SOX11
MVX3500X6F40		6	●	217	247	312	40	50	1.0	SOX11
MVX3550X3F40	35.5	3	●	113.5	143.5	208.5	40	50	1.0	SOX11
MVX3600X2F40	36.0	2	●	79	109	174	40	50	1.0	SOX11
MVX3600X3F40		3	●	115	145	210	40	50	1.0	SOX11
MVX3600X4F40		4	●	151	181	246	40	50	1.0	SOX11
MVX3600X5F40		5	●	187	217	282	40	50	1.0	SOX11
MVX3600X6F40		6	●	223	253	318	40	50	0.9	SOX11
MVX3700X2F40	37.0	2	●	81	111	176	40	50	0.9	SOX11
MVX3700X3F40		3	●	118	148	213	40	50	0.9	SOX11
MVX3700X4F40		4	●	155	185	250	40	50	0.9	SOX11
MVX3700X5F40		5	●	192	222	287	40	50	0.9	SOX11
MVX3700X6F40		6	●	229	259	324	40	50	0.9	SOX11

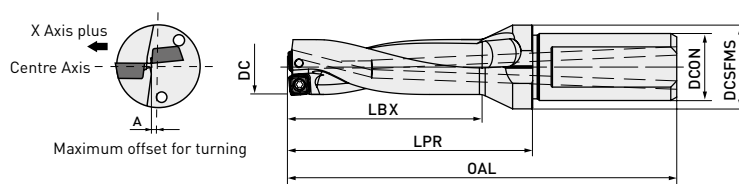
MVX



Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX3800X2F40	38.0	2	●	83	113	178	40	50	0.8	S0°X11
MVX3800X3F40		3	●	121	151	216	40	50	0.8	S0°X11
MVX3800X4F40		4	●	159	189	254	40	50	0.8	S0°X11
MVX3800X5F40		5	●	197	227	292	40	50	0.8	S0°X11
MVX3800X6F40		6	●	235	265	330	40	50	0.8	S0°X11
MVX3900X2F40	39.0	2	●	85	115	180	40	50	0.7	S0°X11
MVX3900X3F40		3	●	124	154	219	40	50	0.7	S0°X11
MVX3900X4F40		4	●	163	193	258	40	50	0.7	S0°X11
MVX3900X5F40		5	●	202	232	297	40	50	0.7	S0°X11
MVX3900X6F40		6	●	241	271	336	40	50	0.7	S0°X11
MVX4000X2F40	40.0	2	●	87	117	182	40	50	1.5	S0°X13
MVX4000X3F40		3	●	127	157	222	40	50	1.5	S0°X13
MVX4000X4F40		4	●	167	197	262	40	50	1.5	S0°X13
MVX4000X5F40		5	●	207	237	302	40	50	1.5	S0°X13
MVX4000X6F40		6	●	247	277	342	40	50	1.4	S0°X13
MVX4100X2F40	41.0	2	●	89	119	184	40	50	1.4	S0°X13
MVX4100X3F40		3	●	130	160	225	40	50	1.4	S0°X13
MVX4100X4F40		4	●	171	201	266	40	50	1.4	S0°X13
MVX4100X5F40		5	●	212	242	307	40	50	1.4	S0°X13
MVX4100X6F40		6	●	253	283	348	40	50	1.4	S0°X13
MVX4200X2F40	42.0	2	●	91	121	186	40	50	1.3	S0°X13
MVX4200X3F40		3	●	133	163	228	40	50	1.3	S0°X13
MVX4200X4F40		4	●	175	205	270	40	63	1.3	S0°X13
MVX4200X4F50		4	★	175	205	280	50	63	1.3	S0°X13
MVX4200X5F40		5	●	217	247	312	40	63	1.3	S0°X13
MVX4200X5F50		5	★	217	247	322	50	63	1.3	S0°X13
MVX4200X6F40	43.0	6	●	259	289	354	40	63	1.3	S0°X13
MVX4200X6F50		6	★	259	289	364	50	63	1.3	S0°X13
MVX4300X2F40		2	●	93	123	188	40	50	1.2	S0°X13
MVX4300X3F40		3	●	136	166	231	40	50	1.2	S0°X13
MVX4300X4F40		4	●	179	209	274	40	63	1.2	S0°X13
MVX4300X4F50		4	★	179	209	284	50	63	1.2	S0°X13
MVX4300X5F40	43.0	5	●	222	252	317	40	63	1.2	S0°X13
MVX4300X5F50		5	★	222	252	327	50	63	1.2	S0°X13
MVX4300X6F40		6	●	265	295	360	40	63	1.2	S0°X13
MVX4300X6F50		6	★	265	295	370	50	63	1.2	S0°X13

Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX4400X2F40	44.0	2	●	95	125	190	40	50	1.1	S0X13
MVX4400X3F40		3	●	139	169	234	40	50	1.1	S0X13
MVX4400X4F40		4	●	183	213	278	40	63	1.1	S0X13
MVX4400X4F50		4	★	183	213	288	50	63	1.1	S0X13
MVX4400X5F40		5	●	227	257	322	40	63	1.1	S0X13
MVX4400X5F50		5	★	227	257	332	50	63	1.1	S0X13
MVX4500X2F40	45.0	2	●	97	127	192	40	50	1.0	S0X13
MVX4500X3F40		3	●	142	172	237	40	50	1.0	S0X13
MVX4500X4F40		4	●	187	217	282	40	63	1.0	S0X13
MVX4500X4F50		4	★	187	217	292	50	63	1.0	S0X13
MVX4500X5F40		5	●	232	262	327	40	63	1.0	S0X13
MVX4500X5F50		5	★	232	262	337	50	63	1.0	S0X13
MVX4600X2F40	46.0	2	●	99	129	194	40	50	0.9	S0X13
MVX4600X3F40		3	●	145	175	240	40	50	0.9	S0X13
MVX4600X4F40		4	●	191	221	286	40	63	0.9	S0X13
MVX4600X4F50		4	★	191	221	296	50	63	0.9	S0X13
MVX4600X5F40		5	●	237	267	332	40	63	0.9	S0X13
MVX4600X5F50		5	★	237	267	342	50	63	0.9	S0X13
MVX4700X2F40	47.0	2	●	101	141	206	40	63	1.9	S0X16
MVX4700X3F40		3	●	148	188	253	40	63	1.9	S0X16
MVX4700X4F40		4	●	195	235	300	40	63	1.9	S0X16
MVX4700X4F50		4	★	195	235	310	50	63	1.9	S0X16
MVX4700X5F40		5	●	242	282	347	40	63	1.9	S0X16
MVX4700X5F50		5	★	242	282	357	50	63	1.9	S0X16
MVX4800X2F40	48.0	2	●	103	143	208	40	63	1.8	S0X16
MVX4800X3F40		3	●	151	191	256	40	63	1.8	S0X16
MVX4800X4F40		4	●	199	239	304	40	63	1.8	S0X16
MVX4800X4F50		4	★	199	239	314	50	63	1.8	S0X16
MVX4800X5F40		5	●	247	287	352	40	63	1.8	S0X16
MVX4800X5F50		5	★	247	287	362	50	63	1.8	S0X16
MVX4900X2F40	49.0	2	●	105	145	210	40	63	1.7	S0X16
MVX4900X3F40		3	●	154	194	259	40	63	1.7	S0X16
MVX4900X4F40		4	●	203	243	308	40	63	1.7	S0X16
MVX4900X4F50		4	★	203	243	318	50	63	1.7	S0X16
MVX4900X5F40		5	●	252	292	357	40	63	1.7	S0X16
MVX4900X5F50		5	★	252	292	367	50	63	1.7	S0X16
MVX5000X2F40	50.0	2	●	107	147	212	40	63	1.6	S0X16
MVX5000X3F40		3	●	157	197	262	40	63	1.6	S0X16
MVX5000X4F40		4	●	207	247	312	40	63	1.6	S0X16
MVX5000X4F50		4	★	207	247	322	50	63	1.6	S0X16
MVX5000X5F40		5	●	257	297	362	40	63	1.6	S0X16
MVX5000X5F50		5	★	257	297	372	50	63	1.6	S0X16

MVX



Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX5100X2F40	51.0	2	●	109	149	214	40	63	1.5	S0X16
MVX5100X3F40		3	●	160	200	265	40	63	1.5	S0X16
MVX5100X4F40		4	●	211	251	316	40	63	1.5	S0X16
MVX5100X4F50		4	★	211	251	326	50	63	1.5	S0X16
MVX5100X5F40		5	●	262	302	367	40	63	1.5	S0X16
MVX5100X5F50		5	★	262	302	377	50	63	1.5	S0X16
MVX5200X2F40	52.0	2	●	111	151	216	40	63	1.4	S0X16
MVX5200X3F40		3	●	163	203	268	40	63	1.4	S0X16
MVX5200X4F40		4	●	215	255	320	40	63	1.4	S0X16
MVX5200X4F50		4	★	215	255	330	50	63	1.4	S0X16
MVX5200X5F40		5	●	267	307	372	40	63	1.4	S0X16
MVX5200X5F50		5	★	267	307	382	50	63	1.4	S0X16
MVX5300X2F40	53.0	2	●	113	153	218	40	63	1.3	S0X16
MVX5300X3F40		3	●	166	206	271	40	63	1.3	S0X16
MVX5300X4F40		4	●	219	259	324	40	63	1.3	S0X16
MVX5300X4F50		4	★	219	259	334	50	63	1.3	S0X16
MVX5300X5F40		5	●	272	312	377	40	63	1.3	S0X16
MVX5300X5F50		5	★	272	312	387	50	63	1.3	S0X16
MVX5400X2F40	54.0	2	●	115	155	220	40	63	1.2	S0X16
MVX5400X3F40		3	●	169	209	274	40	63	1.2	S0X16
MVX5400X4F40		4	●	223	263	328	40	63	1.2	S0X16
MVX5400X4F50		4	★	223	263	338	50	63	1.2	S0X16
MVX5400X5F40		5	●	277	317	382	40	63	1.2	S0X16
MVX5400X5F50		5	★	277	317	392	50	63	1.2	S0X16
MVX5500X2F40	55.0	2	●	117	157	222	40	63	1.1	S0X16
MVX5500X3F40		3	●	172	212	277	40	63	1.1	S0X16
MVX5500X4F40		4	●	227	267	332	40	63	1.1	S0X16
MVX5500X4F50		4	★	227	267	342	50	63	1.1	S0X16
MVX5500X5F40		5	●	282	322	387	40	63	1.1	S0X16
MVX5500X5F50		5	★	282	322	397	50	63	1.1	S0X16
MVX5600X2F40	56.0	2	●	119	159	224	40	63	1.0	S0X16
MVX5600X3F40		3	●	175	215	280	40	63	1.0	S0X16
MVX5600X4F40		4	●	231	271	336	40	63	1.0	S0X16
MVX5600X4F50		4	★	231	271	346	50	63	1.0	S0X16
MVX5600X5F40		5	●	287	327	392	40	63	1.0	S0X16
MVX5600X5F50		5	★	287	327	402	50	63	1.0	S0X16

Order Number	DC	L x DC	Stock	LBX	LPR	OAL	DCON	DCSFMS	A	Insert Type
MVX5700X2F40	57.0	2	●	121	161	226	40	68	1.5	SOX18
MVX5700X3F40		3	●	178	218	283	40	68	1.5	SOX18
MVX5700X4F40		4	●	235	275	340	40	68	1.5	SOX18
MVX5700X4F50		4	★	235	275	350	50	68	1.5	SOX18
MVX5700X5F40		5	●	292	332	397	40	68	1.5	SOX18
MVX5700X5F50		5	★	292	332	407	50	68	1.5	SOX18
MVX5800X2F40	58.0	2	●	123	163	228	40	68	1.4	SOX18
MVX5800X3F40		3	●	181	221	286	40	68	1.4	SOX18
MVX5800X4F40		4	●	239	279	344	40	68	1.4	SOX18
MVX5800X4F50		4	★	239	279	354	50	68	1.4	SOX18
MVX5800X5F40		5	●	297	337	402	40	68	1.4	SOX18
MVX5800X5F50		5	★	297	337	412	50	68	1.4	SOX18
MVX5900X2F40	59.0	2	●	125	165	230	40	68	1.3	SOX18
MVX5900X3F40		3	●	184	224	289	40	68	1.3	SOX18
MVX5900X4F40		4	●	243	283	348	40	68	1.3	SOX18
MVX5900X4F50		4	★	243	283	358	50	68	1.3	SOX18
MVX5900X5F40		5	●	302	342	407	40	68	1.3	SOX18
MVX5900X5F50		5	★	302	342	417	50	68	1.3	SOX18
MVX6000X2F40	60.0	2	●	127	167	232	40	68	1.2	SOX18
MVX6000X3F40		3	●	187	227	292	40	68	1.2	SOX18
MVX6000X4F40		4	●	247	287	352	40	68	1.2	SOX18
MVX6000X4F50		4	★	247	287	362	50	68	1.2	SOX18
MVX6000X5F40		5	●	307	347	412	40	68	1.2	SOX18
MVX6000X5F50		5	★	307	347	422	50	68	1.2	SOX18
MVX6100X2F40	61.0	2	●	129	169	234	40	68	1.1	SOX18
MVX6100X3F40		3	●	190	230	295	40	68	1.1	SOX18
MVX6100X4F40		4	●	251	291	356	40	68	1.1	SOX18
MVX6100X4F50		4	★	251	291	366	50	68	1.1	SOX18
MVX6100X5F40		5	●	312	352	417	40	68	1.1	SOX18
MVX6100X5F50		5	★	312	352	427	50	68	1.1	SOX18
MVX6200X2F40	62.0	2	●	131	171	236	40	68	1.0	SOX18
MVX6200X3F40		3	●	193	233	298	40	68	1.0	SOX18
MVX6200X4F40		4	●	255	295	360	40	68	1.0	SOX18
MVX6200X4F50		4	★	255	295	370	50	68	1.0	SOX18
MVX6200X5F40		5	●	317	357	422	40	68	1.0	SOX18
MVX6200X5F50		5	★	317	357	432	50	68	1.0	SOX18
MVX6300X2F40	63.0	2	●	133	173	238	40	68	0.8	SOX18
MVX6300X3F40		3	●	196	236	301	40	68	0.8	SOX18
MVX6300X4F40		4	●	259	299	364	40	68	0.8	SOX18
MVX6300X4F50		4	★	259	299	374	50	68	0.8	SOX18
MVX6300X5F40		5	●	322	362	427	40	68	0.8	SOX18
MVX6300X5F50		5	★	322	362	437	50	68	0.8	SOX18

SPARE PARTS

Drill Diameter (mm)	Clamp Screw	Clamp Torque (Nm)	Wrench
17 - 19.5	 TPS25	1.0	 TIP07F
20 - 22.5	 TPS3	2.0	 TIP10W
23 - 27.5	 TPS351	2.5	 TIP10W
28 - 33	 TPS4	3.5	 TIP15W
33.5 - 46	 TPS43	3.5	 TIP15W
47 - 63	 TPS54	7.5	 TIP25D

MACHINING TOLERANCE

	(mm)		
L x DC	Ø 17 - Ø 33	Ø 33.5 - Ø 47	Ø 48 - Ø 63
2.3	+ 0.25 0	+ 0.3 0	+ 0.3 0
4.5	+ 0.35 0	+ 0.4 0	+ 0.45 0
6	+ 0.45 0	+ 0.6 0	-



INSERTS

Order Number	MC5020*	MC1020*	VP15TF	DP8020	TF15	IC	S	RE	Drill Dia.	Shape
UM										
SOMX063005-UM	●	●	●			6.0	3.0	0.5	Ø17 - Ø19.5	
SOMX073505-UM	●	●	●			7.0	3.5	0.5	Ø20 - Ø22.5	
SOMX084005-UM	●	●	●			8.3	4.0	0.5	Ø23 - Ø27.5	
SOMX094506-UM	●	●	●			9.7	4.5	0.6	Ø28 - Ø33	
SOMX115506-UM	●	●	●			11.6	5.5	0.6	Ø33.5 - Ø39	
SOMX136008-UM	●	●	●			13.8	6.0	0.8	Ø40 - Ø46	
SOMX166508-UM	●	●	●			16.5	6.5	0.8	Ø47 - Ø56	
SOMX187008-UM	●	●	●			18.2	7.0	0.8	Ø57 - Ø63	
US										
SOMX063005-US			●			6.0	3.0	0.5	Ø17 - Ø19.5	
SOMX073505-US			●			7.0	3.5	0.5	Ø20 - Ø22.5	
SOMX084005-US			●			8.3	4.0	0.5	Ø23 - Ø27.5	
SOMX094506-US			●			9.7	4.5	0.6	Ø28 - Ø33	
SOMX115506-US			●			11.6	5.5	0.6	Ø33.5 - Ø39	
SOMX136008-US			●			13.8	6.0	0.8	Ø40 - Ø46	
SOMX166508-US			●			16.5	6.5	0.8	Ø47 - Ø56	
SOMX187008-US			●			18.2	7.0	0.8	Ø57 - Ø63	
UH										
NEW SOMX062905-UH				●		6.0	2.9	0.5	Ø17 - Ø19.5	
NEW SOMX073405-UH				●		7.0	3.4	0.5	Ø20 - Ø22.5	
NEW SOMX083905-UH				●		8.3	3.9	0.5	Ø23 - Ø27.5	
NEW SOMX094406-UH				●		9.7	4.4	0.6	Ø28 - Ø33	
NEW SOMX115406-UH				●		11.6	5.4	0.6	Ø33.5 - Ø39	
NEW SOMX135908-UH				●		13.8	5.9	0.8	Ø40 - Ø46	
NEW SOMX166408-UH				●		16.5	6.4	0.8	Ø47 - Ø56	
NEW SOMX186908-UH				●		18.2	6.9	0.8	Ø57 - Ø63	
UN										
NEW SOGX063005-UN					●	6.0	3.0	0.5	Ø17 - Ø19.5	
NEW SOGX073505-UN					●	7.0	3.5	0.5	Ø20 - Ø22.5	
NEW SOGX084005-UN					●	8.3	4.0	0.5	Ø23 - Ø27.5	
NEW SOGX094506-UN					●	9.7	4.5	0.6	Ø28 - Ø33	
NEW SOGX115506-UN					●	11.6	5.5	0.6	Ø33.5 - Ø39	
NEW SOGX136008-UN					●	13.8	6.0	0.8	Ø40 - Ø46	
NEW SOGX166508-UN					●	16.5	6.5	0.8	Ø47 - Ø56	
NEW SOGX187008-UN					●	18.2	7.0	0.8	Ø57 - Ø63	

*MC1020 and MC5020 are made exclusively for use as an outer insert.

RECOMMENDED CUTTING CONDITIONS

Work Material	Hardness	Vc (m/min)	Inner Breaker	Ø17 - Ø19.5				Ø20 - Ø23.5			
				f (mm/rev)				f (mm/rev)			
		LxDC=2-6		LxDC=2.3	LxDC=4	LxDC=5	LxDC=6	LxDC=2.3	LxDC=4	LxDC=5	LxDC=6
P	Mild Steel (C15, Ck15)	≤180HB 200 (180-235)	UM	0.05	0.05	0.05	0.04	0.06	0.06	0.06	0.04
			UH	(0.04 - 0.06)	(0.04 - 0.06)	(0.04 - 0.06)	(0.04 - 0.05)	(0.04 - 0.08)	(0.04 - 0.07)	(0.04 - 0.07)	(0.04 - 0.05)
	Carbon Steel, Alloy Steel (Ck45, 41CrMo4)	180 - 280HB 140 (115 - 180)	UM	0.08	0.08	0.08	0.05	0.10	0.09	0.09	0.07
			UH	(0.06 - 0.14)	(0.06 - 0.09)	(0.06 - 0.09)	(0.04 - 0.06)	(0.06 - 0.18)	(0.06 - 0.12)	(0.06 - 0.12)	(0.06 - 0.08)
	Carbon Steel, Alloy Steel (100Cr6)	280 - 350HB 100 (75-140)	UM	0.08	0.08	0.08	0.05	0.10	0.09	0.09	0.07
			UH	(0.06 - 0.14)	(0.06 - 0.09)	(0.06 - 0.09)	(0.04 - 0.06)	(0.06 - 0.18)	(0.06 - 0.12)	(0.06 - 0.12)	(0.06 - 0.08)
	Alloy Tool Steel (X210Cr12)	≤350HB 135 (100-170)	UM	0.08	0.08	0.08	0.05	0.10	0.09	0.09	0.07
			UH	(0.06 - 0.14)	(0.06 - 0.09)	(0.06 - 0.09)	(0.04 - 0.06)	(0.06 - 0.18)	(0.06 - 0.12)	(0.06 - 0.12)	(0.06 - 0.08)
M	Austenitic Stainless Steel (X5CrNi18-10, X5CrNi- Mo17-12-2)	≤200HB 130 (80-180)	US	0.08	0.06	0.06	0.05	0.10	0.07	0.07	0.06
			UM	(0.06 - 0.12)	(0.04 - 0.08)	(0.04 - 0.08)	(0.04 - 0.06)	(0.06 - 0.14)	(0.06 - 0.08)	(0.06 - 0.08)	(0.06 - 0.07)
	Austenitic Stainless Steel (X2CrNiN18-9, X5CrNi- MoN17-11-2)	>200HB 130 (80-180)	US	0.06	0.05	0.05	0.04	0.08	0.07	0.07	0.06
			UM	(0.04 - 0.08)	(0.04 - 0.06)	(0.04 - 0.06)	(0.04 - 0.05)	(0.06 - 0.12)	(0.06 - 0.08)	(0.06 - 0.08)	(0.06 - 0.07)
	Ferritic and Martensitic Stainless Steel (X12Cr13, X6Cr17)	≤200HB 120 (80-165)	US	0.08	0.06	0.06	0.05	0.10	0.07	0.07	0.06
			UM	(0.06 - 0.12)	(0.04 - 0.08)	(0.04 - 0.08)	(0.04 - 0.06)	(0.06 - 0.14)	(0.06 - 0.08)	(0.06 - 0.08)	(0.06 - 0.07)
	Ferritic and Martensitic Stainless Steel (X17CrNi16-2, X30Cr13)	>200HB 120 (80-165)	US	0.06	0.05	0.05	0.04	0.08	0.07	0.07	0.06
			UM	(0.04 - 0.08)	(0.04 - 0.06)	(0.04 - 0.06)	(0.04 - 0.05)	(0.06 - 0.12)	(0.06 - 0.08)	(0.06 - 0.08)	(0.06 - 0.07)
K	Gray Cast Iron (GG25, GG30)	Tensile Strength ≤350MPa 160 (130-195)	UM	0.11	0.09	0.09	0.05	0.14	0.10	0.10	0.07
	Ductile Cast Iron (GG40)	Tensile Strength ≤450MPa 100 (80-135)	UM	(0.08 - 0.14)	(0.08 - 0.10)	(0.08 - 0.10)	(0.04 - 0.06)	(0.10 - 0.18)	(0.10 - 0.12)	(0.10 - 0.12)	(0.06 - 0.08)
	Ductile Cast Iron (GGG70)	Tensile Strength ≤800MPa 100 (70-125)	UM	(0.08 - 0.14)	(0.08 - 0.10)	(0.08 - 0.10)	(0.04 - 0.06)	(0.10 - 0.16)	(0.10 - 0.11)	(0.10 - 0.11)	(0.06 - 0.08)
N	Aluminium Alloy (A6061, A7075)	Si<5% 200 (100-350)	UN	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08
	Aluminium Alloy (AC4B)	5%≤Si≤10% 150 (100-200)	UN	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)
	Aluminium Alloy (ADC12, A390)	Si>10% 150 (100-200)	UN	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)
H	Hardened Steel (X40CrMoV51, 55NiCrMoV6)	38 - 45HRC 50 (30-80)	UH	0.08	0.06	-	-	0.09	0.07	-	-
				(0.04 - 0.12)	(0.04 - 0.09)			(0.06 - 0.14)	(0.06 - 0.09)		

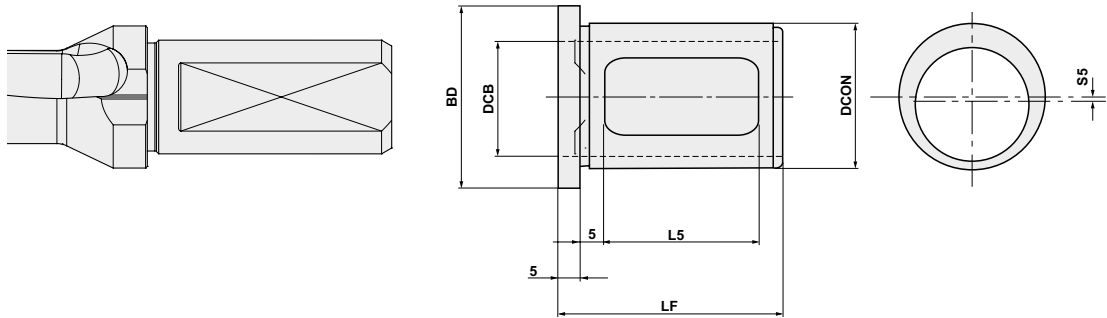
RECOMMENDED CUTTING CONDITIONS

Work Material	Hardness	Vc (m/min)	Inner Breaker	Ø24 - Ø29.5				Ø30 - Ø63			
				f (mm/rev)				f (mm/rev)			
		LxDC=2-6		LxDC=2.3	LxDC=4	LxDC=5	LxDC=6	LxDC=2.3	LxDC=4	LxDC=5	LxDC=6
P	Mild Steel (C15, Ck15)	≤180HB 200 (180-235)	UM	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.06
			UH	(0.04 - 0.08)	(0.04 - 0.07)	(0.04 - 0.07)	(0.04 - 0.06)	(0.06 - 0.10)	(0.06 - 0.08)	(0.06 - 0.08)	(0.06 - 0.07)
	Carbon Steel, Alloy Steel (Ck45, 41CrMo4)	180 - 280HB 140 (115 - 180)	UM	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.11
			UH	(0.08 - 0.18)	(0.08 - 0.12)	(0.08 - 0.12)	(0.08 - 0.10)	(0.08 - 0.20)	(0.08 - 0.16)	(0.08 - 0.16)	(0.10 - 0.12)
	Carbon Steel, Alloy Steel (100Cr6)	280 - 350HB 100 (75-140)	UM	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.11
			UH	(0.08 - 0.18)	(0.08 - 0.12)	(0.08 - 0.12)	(0.08 - 0.10)	(0.08 - 0.20)	(0.08 - 0.16)	(0.08 - 0.16)	(0.10 - 0.12)
	Alloy Tool Steel (X210Cr12)	≤350HB 135 (100-170)	UM	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.10
			UH	(0.08 - 0.18)	(0.08 - 0.12)	(0.08 - 0.12)	(0.08 - 0.10)	(0.08 - 0.20)	(0.08 - 0.16)	(0.08 - 0.16)	(0.08 - 0.12)
M	Austenitic Stainless Steel (X5CrNi18-10, X5CrNi- Mo17-12-2)	≤200HB 130 (80-180)	US	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
			UM	(0.06 - 0.14)	(0.06 - 0.10)	(0.06 - 0.10)	(0.06 - 0.08)	(0.06 - 0.14)	(0.06 - 0.12)	(0.06 - 0.12)	(0.06 - 0.10)
	Austenitic Stainless Steel (X2CrNiN18-9, X5CrNi- MoN17-11-2)	>200HB 130 (80-180)	US	0.09	0.07	0.07	0.06	0.09	0.08	0.08	0.07
			UM	(0.06 - 0.12)	(0.06 - 0.09)	(0.06 - 0.09)	(0.06 - 0.08)	(0.06 - 0.12)	(0.06 - 0.10)	(0.06 - 0.10)	(0.06 - 0.08)
	Ferritic and Martensitic Stainless Steel (X12Cr13, X6Cr17)	≤200HB 120 (80-165)	US	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
			UM	(0.06 - 0.14)	(0.06 - 0.10)	(0.06 - 0.10)	(0.06 - 0.08)	(0.06 - 0.14)	(0.06 - 0.12)	(0.06 - 0.12)	(0.06 - 0.10)
	Ferritic and Martensitic Stainless Steel (X17CrNi16-2, X30Cr13)	>200HB 120 (80-165)	US	0.09	0.07	0.07	0.06	0.09	0.08	0.08	0.07
			UM	(0.06 - 0.12)	(0.06 - 0.09)	(0.06 - 0.09)	(0.06 - 0.08)	(0.06 - 0.12)	(0.06 - 0.10)	(0.06 - 0.10)	(0.06 - 0.08)
K	Gray Cast Iron (GG25, GG30)	Tensile Strength ≤350MPa 160 (130-195)	UM	0.15	0.11	0.11	0.09	0.15	0.12	0.12	0.11
	Ductile Cast Iron (GG40)	Tensile Strength ≤450MPa 100 (80-135)	UM	(0.10 - 0.20)	(0.10 - 0.13)	(0.10 - 0.13)	(0.08 - 0.10)	(0.10 - 0.20)	(0.10 - 0.13)	(0.10 - 0.13)	(0.10 - 0.12)
	Ductile Cast Iron (GGG70)	Tensile Strength ≤800MPa 100 (70-125)	UM	0.14	0.11	0.11	0.09	0.15	0.12	0.12	0.11
N	Aluminium Alloy (A6061, A7075)	Si<5% 200 (100-350)	UN	(0.10 - 0.18)	(0.10 - 0.12)	(0.10 - 0.12)	(0.08 - 0.10)	(0.10 - 0.20)	(0.10 - 0.13)	(0.10 - 0.13)	(0.10 - 0.12)
	Aluminium Alloy (AC4B)	5%≤Si≤10% 150 (100-200)	UN	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08
	Aluminium Alloy (ADC12, A390)	Si>10% 150 (100-200)	UN	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)	(0.05 - 0.20)	(0.05 - 0.18)	(0.05 - 0.18)	(0.05 - 0.12)
H	Hardened Steel (X40CrMoV51, 55NiCrMoV6)	38 - 45HRC 50 (30-80)	UH	0.09	0.07	-	-	0.11	0.09	-	-
				(0.06 - 0.14)	(0.06 - 0.09)			(0.06 - 0.16)	(0.06 - 0.012)		

1. Reduce the cutting speed by 30% when VP15TF is used as an outer insert.
2. L/D=3 is the recommended maximum depth when only external coolant is used.
3. Internal through coolant is essential when drilling stainless steel.

JUST FIT SLEEVE [JFS]

INCREASED CUTTING DIAMETER



Order Number	Set Order Number	Stock	DCB	DCON	BD	LF	L5	Increase (S5×2)	* MVX Order Number
JFS2520-10	JFS-1	●	20	25	33	43	30	0.1	F20
JFS2520-20		●	20	25	33	43	30	0.2	F20
JFS2520-30		●	20	25	33	43	30	0.3	F20
JFS2520-40		●	20	25	33	43	30	0.4	F20
JFS2520-50		●	20	25	33	43	30	0.5	F20
JFS3225-10	JFS-2	●	25	32	40	50	34	0.1	F25
JFS3225-20		●	25	32	40	50	34	0.2	F25
JFS3225-30		●	25	32	40	50	34	0.3	F25
JFS3225-40		●	25	32	40	50	34	0.4	F25
JFS3225-50		●	25	32	40	50	34	0.5	F25
JFS4032-10	JFS-3	●	32	40	48	55	40	0.1	F32
JFS4032-20		●	32	40	48	55	40	0.2	F32
JFS4032-30		●	32	40	48	55	40	0.3	F32
JFS4032-40		●	32	40	48	55	40	0.4	F32
JFS4032-50		●	32	40	48	55	40	0.5	F32
NEW JFS5040-10	-	★	40	50	68	65	50	0.1	F40
NEW JFS5040-20		★	40	50	68	65	50	0.2	F40
NEW JFS5040-30		★	40	50	68	65	50	0.3	F40
NEW JFS5040-40		★	40	50	68	65	50	0.4	F40
NEW JFS5040-50		★	40	50	68	65	50	0.5	F40

*Increase: Size of the increased cutting diameter.

1. Not suitable for shank Ø 50mm.

MEMO

A series of horizontal dotted lines for writing.



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