

DRILLING (SOLID CARBIDE)

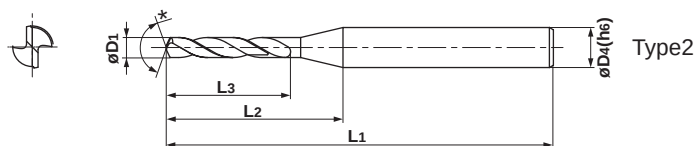
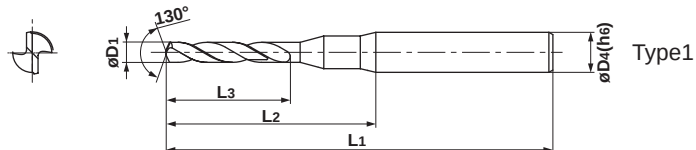
CARBIDE

MSE

- Wide flute for preventing chip jamming.
- Stable, small diameter machining.

Carbon Steel Alloy Steel	Hardened Steel	Stainless Steel	Cast Iron	Light Alloy	Heat Resistant Alloy
◎	○	○	◎	○	○

$0.1 \leq D_1 \leq 3$
$\begin{matrix} \uparrow \\ \downarrow \end{matrix}$ $\begin{matrix} h6 \\ h6 \end{matrix}$
$\begin{matrix} 0 \\ -0.009 \\ 0 \\ -0.006 \end{matrix}$



★ Drill Dia. $\phi 0.30 - 1.59 : 130^\circ$
 $\phi 1.60 - 2.50 : 140^\circ$

(Note) MSE drills are suitable for use with shrink fit holders.

Drill Dia. D1 (mm)	Coolant (Int./Ext.)	Stock		Order Number	Dimensions (mm)				Type
		VP20MF	VP15TF		L3	L2	L1	D4	
0.10	Ext.	★		MSE0010SB	1.2	9.7	38	3	1
0.11	Ext.	★		0011SB	1.2	9.7	38	3	1
0.12	Ext.	★		0012SB	1.4	9.7	38	3	1
0.13	Ext.	★		0013SB	1.4	9.7	38	3	1
0.14	Ext.	★		0014SB	2	9.7	38	3	1
0.15	Ext.	★		0015SB	2	9.7	38	3	1
0.16	Ext.	★		0016SB	2	9.7	38	3	1
0.17	Ext.	★		0017SB	2	9.7	38	3	1
0.18	Ext.	★		0018SB	2	9.7	38	3	1
0.19	Ext.	★		0019SB	2	9.7	38	3	1
0.20	Ext.	★		0020SB	2.5	9.7	38	3	1
0.21	Ext.	★		0021SB	2.5	9.7	38	3	1
0.22	Ext.	★		0022SB	2.5	9.7	38	3	1
0.23	Ext.	★		0023SB	2.5	9.7	38	3	1
0.24	Ext.	★		0024SB	3	9.7	38	3	1
0.25	Ext.	★		0025SB	3	9.7	38	3	1
0.26	Ext.	★		0026SB	3	9.7	38	3	1
0.27	Ext.	★		0027SB	3	9.7	38	3	1
0.28	Ext.	★		0028SB	3	9.7	38	3	1
0.29	Ext.	★		0029SB	3	9.7	38	3	1
0.30	Ext.		★	0030SB	5	10.2	38	3	2
0.31	Ext.		★	0031SB	5	10.2	38	3	2
0.32	Ext.		★	0032SB	5	10.2	38	3	2
0.33	Ext.		★	0033SB	5	10.2	38	3	2
0.34	Ext.		★	0034SB	6	11.2	38	3	2
0.35	Ext.		★	0035SB	6	11.1	38	3	2
0.36	Ext.		★	0036SB	6	11.1	38	3	2
0.37	Ext.		★	0037SB	6	11.1	38	3	2
0.38	Ext.		★	0038SB	6	11.1	38	3	2
0.39	Ext.		★	0039SB	6	11.1	38	3	2
0.40	Ext.		★	0040SB	7	12.1	38	3	2
0.41	Ext.		★	0041SB	7	12.0	38	3	2
0.42	Ext.		★	0042SB	7	12.0	38	3	2
0.43	Ext.		★	0043SB	7	12.0	38	3	2

Drill Dia. D1 (mm)	Coolant (Int./Ext.)	Stock		Order Number	Dimensions (mm)				Type
		VP20MF	VP15TF		L3	L2	L1	D4	
0.44	Ext.		★	MSE0044SB	7	12.0	38	3	2
0.45	Ext.		★	0045SB	7	12.0	38	3	2
0.46	Ext.		★	0046SB	7	11.9	38	3	2
0.47	Ext.		★	0047SB	7	11.9	38	3	2
0.48	Ext.		★	0048SB	7	11.9	38	3	2
0.49	Ext.		★	0049SB	7	11.9	38	3	2
0.50	Ext.		★	0050SB	7	11.9	38	3	2
0.51	Ext.		★	0051SB	7	11.8	38	3	2
0.52	Ext.		★	0052SB	7	11.8	38	3	2
0.53	Ext.		★	0053SB	7	11.8	38	3	2
0.54	Ext.		★	0054SB	7	11.8	38	3	2
0.55	Ext.		★	0055SB	7	11.8	38	3	2
0.56	Ext.		★	0056SB	7	11.8	38	3	2
0.57	Ext.		★	0057SB	7	11.7	38	3	2
0.58	Ext.		★	0058SB	7	11.7	38	3	2
0.59	Ext.		★	0059SB	7	11.7	38	3	2
0.60	Ext.		★	0060SB	7	11.7	38	3	2
0.61	Ext.		★	0061SB	7	11.7	38	3	2
0.62	Ext.		★	0062SB	7	11.6	38	3	2
0.63	Ext.		★	0063SB	7	11.6	38	3	2
0.64	Ext.		★	0064SB	7	11.6	38	3	2
0.65	Ext.		★	0065SB	7	11.6	38	3	2
0.66	Ext.		★	0066SB	7	11.6	38	3	2
0.67	Ext.		★	0067SB	7	11.5	38	3	2
0.68	Ext.		★	0068SB	7	11.5	38	3	2
0.69	Ext.		★	0069SB	7	11.5	38	3	2
0.70	Ext.		★	0070SB	8	12.5	38	3	2
0.71	Ext.		★	0071SB	8	12.5	38	3	2
0.72	Ext.		★	0072SB	8	12.5	38	3	2
0.73	Ext.		★	0073SB	8	12.4	38	3	2
0.74	Ext.		★	0074SB	8	12.4	38	3	2
0.75	Ext.		★	0075SB	8	12.4	38	3	2
0.76	Ext.		★	0076SB	8	12.4	38	3	2
0.77	Ext.		★	0077SB	8	12.4	38	3	2

(Note) Please contact us for any geometry that is not in this catalogue (e.g. different diameters and lengths can be made to order).

★ : Inventory maintained in Japan.