

DRILLING (SOLID CARBIDE)

MSL

Standard margin type

- From 20—30 l/d hole depth.
- MSL standard margin type for accurate and reliable drilling.
- All drills with through coolant holes as standard.



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

	3.0≤D1≤6.0	6.0<D1≤10.0	10.0<D1≤18.0	18.0<D1≤20.0
	$\begin{matrix} 0 \\ -0.012 \end{matrix}$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$	$\begin{matrix} 0 \\ -0.021 \end{matrix}$
	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	$\begin{matrix} 0 \\ -0.011 \end{matrix}$	$\begin{matrix} 0 \\ -0.013 \end{matrix}$



●Cylindrical shank type



MSL (l/d 20—30)

Drill Dia. D1 (mm)	Hole Depth (l/d)	Stock		Order Number	Dimensions (mm)			
		VP15TF			L1	L3	L9	D4
3.0	20	●		MSL0300-L20C	110	70	36	6
	25	●		MSL0300-L25C	125	85	36	6
	30	●		MSL0300-L30C	140	100	36	6
3.1	20	●		MSL0310-L20C	122	82	36	6
	25	●		MSL0310-L25C	139	99	36	6
	30	●		MSL0310-L30C	157	117	36	6
3.2	20	●		MSL0320-L20C	122	82	36	6
	25	●		MSL0320-L25C	139	99	36	6
	30	●		MSL0320-L30C	157	117	36	6
3.3	20	●		MSL0330-L20C	122	82	36	6
	25	●		MSL0330-L25C	139	99	36	6
	30	●		MSL0330-L30C	157	117	36	6
3.4	20	●		MSL0340-L20C	122	82	36	6
	25	●		MSL0340-L25C	139	99	36	6
	30	●		MSL0340-L30C	157	117	36	6
3.5	20	●		MSL0350-L20C	122	82	36	6
	25	●		MSL0350-L25C	139	99	36	6
	30	●		MSL0350-L30C	157	117	36	6
3.6	20	●		MSL0360-L20C	133	93	36	6
	25	□		MSL0360-L25C	153	113	36	6
	30	●		MSL0360-L30C	173	133	36	6
3.7	20	●		MSL0370-L20C	133	93	36	6
	25	□		MSL0370-L25C	153	113	36	6
	30	●		MSL0370-L30C	173	133	36	6
3.8	20	●		MSL0380-L20C	133	93	36	6
	25	●		MSL0380-L25C	153	113	36	6
	30	●		MSL0380-L30C	173	133	36	6
3.9	20	●		MSL0390-L20C	133	93	36	6
	25	□		MSL0390-L25C	153	113	36	6
	30	●		MSL0390-L30C	173	133	36	6
4.0	20	●		MSL0400-L20C	133	93	36	6
	25	●		MSL0400-L25C	153	113	36	6
	30	●		MSL0400-L30C	173	133	36	6
4.1	20	●		MSL0410-L20C	145	105	36	6
	25	●		MSL0410-L25C	167	127	36	6
	30	●		MSL0410-L30C	190	150	36	6
4.2	20	●		MSL0420-L20C	145	105	36	6
	25	●		MSL0420-L25C	167	127	36	6
	30	●		MSL0420-L30C	190	150	36	6
4.3	20	●		MSL0430-L20C	145	105	36	6
	25	●		MSL0430-L25C	167	127	36	6
	30	●		MSL0430-L30C	190	150	36	6

Drill Dia. D1 (mm)	Hole Depth (l/d)	Stock		Order Number	Dimensions (mm)			
		VP15TF			L1	L3	L9	D4
4.4	20	□		MSL0440-L20C	145	105	36	6
	25	□		MSL0440-L25C	167	127	36	6
	30	□		MSL0440-L30C	190	150	36	6
4.5	20	●		MSL0450-L20C	145	105	36	6
	25	●		MSL0450-L25C	167	127	36	6
	30	●		MSL0450-L30C	190	150	36	6
4.6	20	●		MSL0460-L20C	156	116	36	6
	25	●		MSL0460-L25C	181	141	36	6
	30	●		MSL0460-L30C	206	166	36	6
4.7	20	●		MSL0470-L20C	156	116	36	6
	25	●		MSL0470-L25C	181	141	36	6
	30	●		MSL0470-L30C	206	166	36	6
4.8	20	●		MSL0480-L20C	156	116	36	6
	25	●		MSL0480-L25C	181	141	36	6
	30	●		MSL0480-L30C	206	166	36	6
4.9	20	□		MSL0490-L20C	156	116	36	6
	25	●		MSL0490-L25C	181	141	36	6
	30	●		MSL0490-L30C	206	166	36	6
5.0	20	●		MSL0500-L20C	156	116	36	6
	25	●		MSL0500-L25C	181	141	36	6
	30	●		MSL0500-L30C	206	166	36	6
5.1	20	●		MSL0510-L20C	168	128	36	6
	25	●		MSL0510-L25C	195	155	36	6
	30	●		MSL0510-L30C	223	183	36	6
5.2	20	●		MSL0520-L20C	168	128	36	6
	25	●		MSL0520-L25C	195	155	36	6
	30	●		MSL0520-L30C	223	183	36	6
5.3	20	□		MSL0530-L20C	168	128	36	6
	25	●		MSL0530-L25C	195	155	36	6
	30	□		MSL0530-L30C	223	183	36	6
5.4	20	●		MSL0540-L20C	168	128	36	6
	25	□		MSL0540-L25C	195	155	36	6
	30	□		MSL0540-L30C	223	183	36	6
5.5	20	●		MSL0550-L20C	168	128	36	6
	25	●		MSL0550-L25C	195	155	36	6
	30	●		MSL0550-L30C	223	183	36	6
5.6	20	□		MSL0560-L20C	179	139	36	6
	25	□		MSL0560-L25C	209	169	36	6
	30	●		MSL0560-L30C	239	199	36	6
5.7	20	□		MSL0570-L20C	179	139	36	6
	25	●		MSL0570-L25C	209	169	36	6
	30	□		MSL0570-L30C	239	199	36	6

● : Inventory maintained. □ : Non stock, produced to order only.