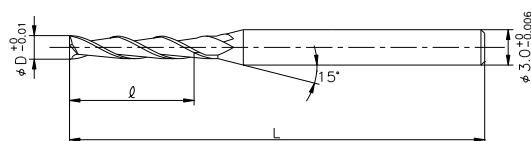


KMSE-2

超硬ミニチュアエンドミル
Tungsten Carbide Miniature Endmill

- 刃径をφ0.1～φ3まで0.01とびにラインナップ
Line-upped φ0.1～φ3 at pitch 0.01



被削材 Workpiece					
一般構造鋼 General Structural Steel	炭素鋼 Carbon Steel	合金鋼・工具鋼 Alloy Steel Tool Steel	プリハードン鋼 Pre-Harden Steel	鋳鉄 Cast Iron	アルミ合金 Aluminum Alloy
○	○	○	○	○	○

- 切削条件表はP162に記載
●Cutting conditions are recommended on page 162.

単位[寸法:mm]
Unit [size:mm]

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2010	0.1	0.2	40	3
KMSE-2011	0.11	0.3	40	3
KMSE-2012	0.12	0.3	40	3
KMSE-2013	0.13	0.3	40	3
KMSE-2014	0.14	0.3	40	3
KMSE-2015	0.15	0.3	40	3
KMSE-2016	0.16	0.3	40	3
KMSE-2017	0.17	0.3	40	3
KMSE-2018	0.18	0.3	40	3
KMSE-2019	0.19	0.3	40	3
KMSE-2020	0.2	0.4	40	3
KMSE-2021	0.21	0.5	40	3
KMSE-2022	0.22	0.5	40	3
KMSE-2023	0.23	0.5	40	3
KMSE-2024	0.24	0.5	40	3
KMSE-2025	0.25	0.5	40	3
KMSE-2026	0.26	0.8	40	3
KMSE-2027	0.27	0.8	40	3
KMSE-2028	0.28	0.8	40	3
KMSE-2029	0.29	0.8	40	3
KMSE-2030	0.3	1	40	3
KMSE-2031	0.31	1	40	3
KMSE-2032	0.32	1	40	3
KMSE-2033	0.33	1	40	3
KMSE-2034	0.34	1	40	3
KMSE-2035	0.35	1	40	3
KMSE-2036	0.36	1	40	3
KMSE-2037	0.37	1	40	3
KMSE-2038	0.38	1	40	3
KMSE-2039	0.39	1	40	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2040	0.4	1	40	3
KMSE-2041	0.41	1	40	3
KMSE-2042	0.42	1	40	3
KMSE-2043	0.43	1	40	3
KMSE-2044	0.44	1	40	3
KMSE-2045	0.45	1	40	3
KMSE-2046	0.46	1	40	3
KMSE-2047	0.47	1	40	3
KMSE-2048	0.48	1	40	3
KMSE-2049	0.49	1	40	3
KMSE-2050	0.5	1	40	3
KMSE-2051	0.51	1	40	3
KMSE-2052	0.52	1	40	3
KMSE-2053	0.53	1	40	3
KMSE-2054	0.54	1	40	3
KMSE-2055	0.55	1	40	3
KMSE-2056	0.56	1	40	3
KMSE-2057	0.57	1	40	3
KMSE-2058	0.58	1	40	3
KMSE-2059	0.59	1	40	3
KMSE-2060	0.6	2	40	3
KMSE-2061	0.61	2	40	3
KMSE-2062	0.62	2	40	3
KMSE-2063	0.63	2	40	3
KMSE-2064	0.64	2	40	3
KMSE-2065	0.65	2	40	3
KMSE-2066	0.66	2	40	3
KMSE-2067	0.67	2	40	3
KMSE-2068	0.68	2	40	3
KMSE-2069	0.69	2	40	3

KMSE-2

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2070	0.7	2	40	3
KMSE-2071	0.71	2	40	3
KMSE-2072	0.72	2	40	3
KMSE-2073	0.73	2	40	3
KMSE-2074	0.74	2	40	3
KMSE-2075	0.75	2	40	3
KMSE-2076	0.76	2	40	3
KMSE-2077	0.77	2	40	3
KMSE-2078	0.78	2	40	3
KMSE-2079	0.79	2	40	3
KMSE-2080	0.8	2.5	40	3
KMSE-2081	0.81	2.5	40	3
KMSE-2082	0.82	2.5	40	3
KMSE-2083	0.83	2.5	40	3
KMSE-2084	0.84	2.5	40	3
KMSE-2085	0.85	2.5	40	3
KMSE-2086	0.86	2.5	40	3
KMSE-2087	0.87	2.5	40	3
KMSE-2088	0.88	2.5	40	3
KMSE-2089	0.89	2.5	40	3
KMSE-2090	0.9	2.5	40	3
KMSE-2091	0.91	2.5	40	3
KMSE-2092	0.92	2.5	40	3
KMSE-2093	0.93	2.5	40	3
KMSE-2094	0.94	2.5	40	3
KMSE-2095	0.95	2.5	40	3
KMSE-2096	0.96	2.5	40	3
KMSE-2097	0.97	2.5	40	3
KMSE-2098	0.98	2.5	40	3
KMSE-2099	0.99	2.5	40	3
KMSE-2100	1	3	40	3
KMSE-2101	1.01	3	40	3
KMSE-2102	1.02	3	40	3
KMSE-2103	1.03	3	40	3
KMSE-2104	1.04	3	40	3
KMSE-2105	1.05	3	40	3
KMSE-2106	1.06	3	40	3
KMSE-2107	1.07	3	40	3
KMSE-2108	1.08	3	40	3
KMSE-2109	1.09	3	40	3
KMSE-2110	1.1	3	40	3
KMSE-2111	1.11	3	40	3
KMSE-2112	1.12	3	40	3
KMSE-2113	1.13	3	40	3
KMSE-2114	1.14	3	40	3
KMSE-2115	1.15	3	40	3
KMSE-2116	1.16	3	40	3
KMSE-2117	1.17	3	40	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2118	1.18	3	40	3
KMSE-2119	1.19	3	40	3
KMSE-2120	1.2	3	40	3
KMSE-2121	1.21	3	40	3
KMSE-2122	1.22	3	40	3
KMSE-2123	1.23	3	40	3
KMSE-2124	1.24	3	40	3
KMSE-2125	1.25	3	40	3
KMSE-2126	1.26	3	40	3
KMSE-2127	1.27	3	40	3
KMSE-2128	1.28	3	40	3
KMSE-2129	1.29	3	40	3
KMSE-2130	1.3	3	40	3
KMSE-2131	1.31	3	40	3
KMSE-2132	1.32	3	40	3
KMSE-2133	1.33	3	40	3
KMSE-2134	1.34	3	40	3
KMSE-2135	1.35	3	40	3
KMSE-2136	1.36	3	40	3
KMSE-2137	1.37	3	40	3
KMSE-2138	1.38	3	40	3
KMSE-2139	1.39	3	40	3
KMSE-2140	1.4	3	40	3
KMSE-2141	1.41	3	40	3
KMSE-2142	1.42	3	40	3
KMSE-2143	1.43	3	40	3
KMSE-2144	1.44	3	40	3
KMSE-2145	1.45	3	40	3
KMSE-2146	1.46	3	40	3
KMSE-2147	1.47	3	40	3
KMSE-2148	1.48	3	40	3
KMSE-2149	1.49	3	40	3
KMSE-2150	1.5	5	40	3
KMSE-2151	1.51	5	40	3
KMSE-2152	1.52	5	40	3
KMSE-2153	1.53	5	40	3
KMSE-2154	1.54	5	40	3
KMSE-2155	1.55	5	40	3
KMSE-2156	1.56	5	40	3
KMSE-2157	1.57	5	40	3
KMSE-2158	1.58	5	40	3
KMSE-2159	1.59	5	40	3
KMSE-2160	1.6	5	40	3
KMSE-2161	1.61	5	40	3
KMSE-2162	1.62	5	40	3
KMSE-2163	1.63	5	40	3
KMSE-2164	1.64	5	40	3
KMSE-2165	1.65	5	40	3

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品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2166	1.66	5	40	3
KMSE-2167	1.67	5	40	3
KMSE-2168	1.68	5	40	3
KMSE-2169	1.69	5	40	3
KMSE-2170	1.7	5	40	3
KMSE-2171	1.71	5	40	3
KMSE-2172	1.72	5	40	3
KMSE-2173	1.73	5	40	3
KMSE-2174	1.74	5	40	3
KMSE-2175	1.75	5	40	3
KMSE-2176	1.76	5	40	3
KMSE-2177	1.77	5	40	3
KMSE-2178	1.78	5	40	3
KMSE-2179	1.79	5	40	3
KMSE-2180	1.8	5	40	3
KMSE-2181	1.81	5	40	3
KMSE-2182	1.82	5	40	3
KMSE-2183	1.83	5	40	3
KMSE-2184	1.84	5	40	3
KMSE-2185	1.85	5	40	3
KMSE-2186	1.86	5	40	3
KMSE-2187	1.87	5	40	3
KMSE-2188	1.88	5	40	3
KMSE-2189	1.89	5	40	3
KMSE-2190	1.9	5	40	3
KMSE-2191	1.91	5	40	3
KMSE-2192	1.92	5	40	3
KMSE-2193	1.93	5	40	3
KMSE-2194	1.94	5	40	3
KMSE-2195	1.95	5	40	3
KMSE-2196	1.96	5	40	3
KMSE-2197	1.97	5	40	3
KMSE-2198	1.98	5	40	3
KMSE-2199	1.99	5	40	3
KMSE-2200	2	6	40	3
KMSE-2201	2.01	6	40	3
KMSE-2202	2.02	6	40	3
KMSE-2203	2.03	6	40	3
KMSE-2204	2.04	6	40	3
KMSE-2205	2.05	6	40	3
KMSE-2206	2.06	6	40	3
KMSE-2207	2.07	6	40	3
KMSE-2208	2.08	6	40	3
KMSE-2209	2.09	6	40	3
KMSE-2210	2.1	6	40	3
KMSE-2211	2.11	6	40	3
KMSE-2212	2.12	6	40	3
KMSE-2213	2.13	6	40	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSE-2214	2.14	6	40	3
KMSE-2215	2.15	6	40	3
KMSE-2216	2.16	6	40	3
KMSE-2217	2.17	6	40	3
KMSE-2218	2.18	6	40	3
KMSE-2219	2.19	6	40	3
KMSE-2220	2.2	6	40	3
KMSE-2221	2.21	6	40	3
KMSE-2222	2.22	6	40	3
KMSE-2223	2.23	6	40	3
KMSE-2224	2.24	6	40	3
KMSE-2225	2.25	6	40	3
KMSE-2226	2.26	6	40	3
KMSE-2227	2.27	6	40	3
KMSE-2228	2.28	6	40	3
KMSE-2229	2.29	6	40	3
KMSE-2230	2.3	6	40	3
KMSE-2231	2.31	6	40	3
KMSE-2232	2.32	6	40	3
KMSE-2233	2.33	6	40	3
KMSE-2234	2.34	6	40	3
KMSE-2235	2.35	6	40	3
KMSE-2236	2.36	6	40	3
KMSE-2237	2.37	6	40	3
KMSE-2238	2.38	6	40	3
KMSE-2239	2.39	6	40	3
KMSE-2240	2.4	6	40	3
KMSE-2241	2.41	6	40	3
KMSE-2242	2.42	6	40	3
KMSE-2243	2.43	6	40	3
KMSE-2244	2.44	6	40	3
KMSE-2245	2.45	6	40	3
KMSE-2246	2.46	6	40	3
KMSE-2247	2.47	6	40	3
KMSE-2248	2.48	6	40	3
KMSE-2249	2.49	6	40	3
KMSE-2250	2.5	8	40	3
KMSE-2251	2.51	8	40	3
KMSE-2252	2.52	8	40	3
KMSE-2253	2.53	8	40	3
KMSE-2254	2.54	8	40	3
KMSE-2255	2.55	8	40	3
KMSE-2256	2.56	8	40	3
KMSE-2257	2.57	8	40	3
KMSE-2258	2.58	8	40	3
KMSE-2259	2.59	8	40	3
KMSE-2260	2.6	8	40	3
KMSE-2261	2.61	8	40	3

KMSE-2

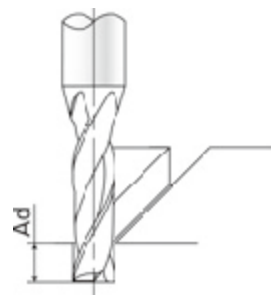
[illegible][illegible]

KMSE-2

切削条件参考

Referential Cutting Conditions

刃 径	切込み深さ Cutting Depth
Flute Diameter	Ad
$D < \phi 0.2$	0.08D
$\phi 0.2 \leq D < \phi 1.0$	0.10D
$\phi 1.0 \leq D$	0.30D



被削材 Workpiece	炭素鋼・一般構造用鋼 Carbon Steel・ General Structural Steel S55C・SS材		合金鋼・工具鋼 Alloy Steel・Tool Steel SCM・SKT・SKS・SKD		プリハードン鋼 Pre-Harden Steel HPM-1・NAK55・SKT		鋳 鉄 Cast iron FC・FCD	
刃 径 Flute Diameter mm	回転数 Revolution min ⁻¹	送り速度 Feed mm/min	回転数 Revolution min ⁻¹	送り速度 Feed mm/min	回転数 Revolution min ⁻¹	送り速度 Feed mm/min	回転数 Revolution min ⁻¹	送り速度 Feed mm/min
0.1 ~0.14	32,000	15	32,000	15	32,000	15	32,000	15
0.15~0.19	32,000	20	32,000	18	32,000	15	32,000	20
0.2 ~0.24	32,000	30	32,000	25	32,000	20	32,000	30
0.25~0.29	32,000	35	32,000	30	29,300	20	32,000	35
0.3 ~0.34	31,500	45	31,000	35	25,100	20	31,500	45
0.35~0.39	31,500	50	27,000	35	22,000	20	31,500	50
0.4 ~0.49	26,500	60	21,600	40	17,400	25	28,200	60
0.5 ~0.59	21,000	60	18,000	40	14,500	25	23,500	65
0.6 ~0.79	15,500	65	13,500	40	11,000	25	17,500	75
0.8 ~0.89	14,000	70	11,500	40	10,000	25	15,500	80
0.9 ~0.99	12,500	75	10,500	40	8,900	25	14,000	90
1 ~1.09	11,500	85	9,800	40	8,100	30	12,500	95
1.1 ~1.19	10,500	85	9,000	40	7,400	30	11,500	95
1.2 ~1.29	9,800	85	8,300	40	6,850	30	10,800	95
1.3 ~1.39	9,100	85	7,700	45	6,350	30	10,000	95
1.4 ~1.49	8,500	85	7,200	45	5,550	30	9,500	95
1.5 ~1.69	7,500	90	6,400	45	5,250	30	8,400	95
1.7 ~1.79	7,000	95	6,000	50	4,950	30	7,950	100
1.8 ~1.99	6,400	100	5,400	55	4,450	30	7,150	105
2 ~2.19	5,800	100	4,900	60	4,050	30	6,500	110
2.2 ~2.39	5,300	100	4,500	65	3,700	30	5,950	110
2.4 ~2.59	4,900	100	4,200	65	3,400	30	5,500	110
2.6 ~2.79	4,500	100	3,900	70	3,150	30	5,100	110
2.8 ~3	4,200	100	3,600	75	2,950	30	4,750	110
備 考 Remarks	・回転数と送り速度は同じ割合で調整して下さい。・ Adjust Revolution and Feed Speed at the same rate. ・ 切削油を使用して下さい。・ Use Cutting Oil.							