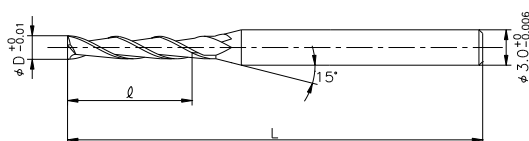


KMSEA-2

超硬ミニチュアエンドミル・TiA ℓ Nコーティング付
Tungsten Carbide Miniature Endmill TiA ℓ N Coating

- TiAlNコーティングを施しました
TiAlN coating is applied
- 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	ステンレス鋼 Stainless Steel
◎	◎	◎	◎	◎	◎

- 切削条件表はP167に記載
- Cutting conditions are recommended on page 167.

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
KMSEA-2010	0.1	0.2	50	3
KMSEA-2011	0.11	0.3	50	3
KMSEA-2012	0.12	0.3	50	3
KMSEA-2013	0.13	0.3	50	3
KMSEA-2014	0.14	0.3	50	3
KMSEA-2015	0.15	0.3	50	3
KMSEA-2016	0.16	0.3	50	3
KMSEA-2017	0.17	0.3	50	3
KMSEA-2018	0.18	0.3	50	3
KMSEA-2019	0.19	0.3	50	3
KMSEA-2020	0.2	0.4	50	3
KMSEA-2021	0.21	0.5	50	3
KMSEA-2022	0.22	0.5	50	3
KMSEA-2023	0.23	0.5	50	3
KMSEA-2024	0.24	0.5	50	3
KMSEA-2025	0.25	0.5	50	3
KMSEA-2026	0.26	0.8	50	3
KMSEA-2027	0.27	0.8	50	3
KMSEA-2028	0.28	0.8	50	3
KMSEA-2029	0.29	0.8	50	3
KMSEA-2030	0.3	1	50	3
KMSEA-2031	0.31	1	50	3
KMSEA-2032	0.32	1	50	3
KMSEA-2033	0.33	1	50	3
KMSEA-2034	0.34	1	50	3
KMSEA-2035	0.35	1	50	3
KMSEA-2036	0.36	1	50	3
KMSEA-2037	0.37	1	50	3
KMSEA-2038	0.38	1	50	3
KMSEA-2039	0.39	1	50	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSEA-2040	0.4	1	50	3
KMSEA-2041	0.41	1	50	3
KMSEA-2042	0.42	1	50	3
KMSEA-2043	0.43	1	50	3
KMSEA-2044	0.44	1	50	3
KMSEA-2045	0.45	1	50	3
KMSEA-2046	0.46	1	50	3
KMSEA-2047	0.47	1	50	3
KMSEA-2048	0.48	1	50	3
KMSEA-2049	0.49	1	50	3
KMSEA-2050	0.5	1	50	3
KMSEA-2051	0.51	1	50	3
KMSEA-2052	0.52	1	50	3
KMSEA-2053	0.53	1	50	3
KMSEA-2054	0.54	1	50	3
KMSEA-2055	0.55	1	50	3
KMSEA-2056	0.56	1	50	3
KMSEA-2057	0.57	1	50	3
KMSEA-2058	0.58	1	50	3
KMSEA-2059	0.59	1	50	3
KMSEA-2060	0.6	2	50	3
KMSEA-2061	0.61	2	50	3
KMSEA-2062	0.62	2	50	3
KMSEA-2063	0.63	2	50	3
KMSEA-2064	0.64	2	50	3
KMSEA-2065	0.65	2	50	3
KMSEA-2066	0.66	2	50	3
KMSEA-2067	0.67	2	50	3
KMSEA-2068	0.68	2	50	3
KMSEA-2069	0.69	2	50	3

超硬
エンドミル

Carbide
Endmill

KMSEA-2

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSEA-2070	0.7	2	50	3
KMSEA-2071	0.71	2	50	3
KMSEA-2072	0.72	2	50	3
KMSEA-2073	0.73	2	50	3
KMSEA-2074	0.74	2	50	3
KMSEA-2075	0.75	2	50	3
KMSEA-2076	0.76	2	50	3
KMSEA-2077	0.77	2	50	3
KMSEA-2078	0.78	2	50	3
KMSEA-2079	0.79	2	50	3
KMSEA-2080	0.8	2.5	50	3
KMSEA-2081	0.81	2.5	50	3
KMSEA-2082	0.82	2.5	50	3
KMSEA-2083	0.83	2.5	50	3
KMSEA-2084	0.84	2.5	50	3
KMSEA-2085	0.85	2.5	50	3
KMSEA-2086	0.86	2.5	50	3
KMSEA-2087	0.87	2.5	50	3
KMSEA-2088	0.88	2.5	50	3
KMSEA-2089	0.89	2.5	50	3
KMSEA-2090	0.9	2.5	50	3
KMSEA-2091	0.91	2.5	50	3
KMSEA-2092	0.92	2.5	50	3
KMSEA-2093	0.93	2.5	50	3
KMSEA-2094	0.94	2.5	50	3
KMSEA-2095	0.95	2.5	50	3
KMSEA-2096	0.96	2.5	50	3
KMSEA-2097	0.97	2.5	50	3
KMSEA-2098	0.98	2.5	50	3
KMSEA-2099	0.99	2.5	50	3
KMSEA-2100	1	3	50	3
KMSEA-2101	1.01	3	50	3
KMSEA-2102	1.02	3	50	3
KMSEA-2103	1.03	3	50	3
KMSEA-2104	1.04	3	50	3
KMSEA-2105	1.05	3	50	3
KMSEA-2106	1.06	3	50	3
KMSEA-2107	1.07	3	50	3
KMSEA-2108	1.08	3	50	3
KMSEA-2109	1.09	3	50	3
KMSEA-2110	1.1	3	50	3
KMSEA-2111	1.11	3	50	3
KMSEA-2112	1.12	3	50	3
KMSEA-2113	1.13	3	50	3
KMSEA-2114	1.14	3	50	3
KMSEA-2115	1.15	3	50	3
KMSEA-2116	1.16	3	50	3
KMSEA-2117	1.17	3	50	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSEA-2118	1.18	3	50	3
KMSEA-2119	1.19	3	50	3
KMSEA-2120	1.2	3	50	3
KMSEA-2121	1.21	3	50	3
KMSEA-2122	1.22	3	50	3
KMSEA-2123	1.23	3	50	3
KMSEA-2124	1.24	3	50	3
KMSEA-2125	1.25	3	50	3
KMSEA-2126	1.26	3	50	3
KMSEA-2127	1.27	3	50	3
KMSEA-2128	1.28	3	50	3
KMSEA-2129	1.29	3	50	3
KMSEA-2130	1.3	3	50	3
KMSEA-2131	1.31	3	50	3
KMSEA-2132	1.32	3	50	3
KMSEA-2133	1.33	3	50	3
KMSEA-2134	1.34	3	50	3
KMSEA-2135	1.35	3	50	3
KMSEA-2136	1.36	3	50	3
KMSEA-2137	1.37	3	50	3
KMSEA-2138	1.38	3	50	3
KMSEA-2139	1.39	3	50	3
KMSEA-2140	1.4	3	50	3
KMSEA-2141	1.41	3	50	3
KMSEA-2142	1.42	3	50	3
KMSEA-2143	1.43	3	50	3
KMSEA-2144	1.44	3	50	3
KMSEA-2145	1.45	3	50	3
KMSEA-2146	1.46	3	50	3
KMSEA-2147	1.47	3	50	3
KMSEA-2148	1.48	3	50	3
KMSEA-2149	1.49	3	50	3
KMSEA-2150	1.5	5	50	3
KMSEA-2151	1.51	5	50	3
KMSEA-2152	1.52	5	50	3
KMSEA-2153	1.53	5	50	3
KMSEA-2154	1.54	5	50	3
KMSEA-2155	1.55	5	50	3
KMSEA-2156	1.56	5	50	3
KMSEA-2157	1.57	5	50	3
KMSEA-2158	1.58	5	50	3
KMSEA-2159	1.59	5	50	3
KMSEA-2160	1.6	5	50	3
KMSEA-2161	1.61	5	50	3
KMSEA-2162	1.62	5	50	3
KMSEA-2163	1.63	5	50	3
KMSEA-2164	1.64	5	50	3
KMSEA-2165	1.65	5	50	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
KMSEA-2166	1.66	5	50	3
KMSEA-2167	1.67	5	50	3
KMSEA-2168	1.68	5	50	3
KMSEA-2169	1.69	5	50	3
KMSEA-2170	1.7	5	50	3
KMSEA-2171	1.71	5	50	3
KMSEA-2172	1.72	5	50	3
KMSEA-2173	1.73	5	50	3
KMSEA-2174	1.74	5	50	3
KMSEA-2175	1.75	5	50	3
KMSEA-2176	1.76	5	50	3
KMSEA-2177	1.77	5	50	3
KMSEA-2178	1.78	5	50	3
KMSEA-2179	1.79	5	50	3
KMSEA-2180	1.8	5	50	3
KMSEA-2181	1.81	5	50	3
KMSEA-2182	1.82	5	50	3
KMSEA-2183	1.83	5	50	3
KMSEA-2184	1.84	5	50	3
KMSEA-2185	1.85	5	50	3
KMSEA-2186	1.86	5	50	3
KMSEA-2187	1.87	5	50	3
KMSEA-2188	1.88	5	50	3
KMSEA-2189	1.89	5	50	3
KMSEA-2190	1.9	5	50	3
KMSEA-2191	1.91	5	50	3
KMSEA-2192	1.92	5	50	3
KMSEA-2193	1.93	5	50	3
KMSEA-2194	1.94	5	50	3
KMSEA-2195	1.95	5	50	3
KMSEA-2196	1.96	5	50	3
KMSEA-2197	1.97	5	50	3
KMSEA-2198	1.98	5	50	3
KMSEA-2199	1.99	5	50	3
KMSEA-2200	2	6	50	3
KMSEA-2201	2.01	6	50	3
KMSEA-2202	2.02	6	50	3
KMSEA-2203	2.03	6	50	3
KMSEA-2204	2.04	6	50	3
KMSEA-2205	2.05	6	50	3
KMSEA-2206	2.06	6	50	3
KMSEA-2207	2.07	6	50	3
KMSEA-2208	2.08	6	50	3
KMSEA-2209	2.09	6	50	3
KMSEA-2210	2.1	6	50	3
KMSEA-2211	2.11	6	50	3
KMSEA-2212	2.12	6	50	3
KMSEA-2213	2.13	6	50	3

品番 Code No.	刃径 D Flute Diameter	刃長 ℓ Flute Length	全長 L Total Length	柄径 Shank Diameter
KMSEA-2214	2.14	6	50	3
KMSEA-2215	2.15	6	50	3
KMSEA-2216	2.16	6	50	3
KMSEA-2217	2.17	6	50	3
KMSEA-2218	2.18	6	50	3
KMSEA-2219	2.19	6	50	3
KMSEA-2220	2.2	6	50	3
KMSEA-2221	2.21	6	50	3
KMSEA-2222	2.22	6	50	3
KMSEA-2223	2.23	6	50	3
KMSEA-2224	2.24	6	50	3
KMSEA-2225	2.25	6	50	3
KMSEA-2226	2.26	6	50	3
KMSEA-2227	2.27	6	50	3
KMSEA-2228	2.28	6	50	3
KMSEA-2229	2.29	6	50	3
KMSEA-2230	2.3	6	50	3
KMSEA-2231	2.31	6	50	3
KMSEA-2232	2.32	6	50	3
KMSEA-2233	2.33	6	50	3
KMSEA-2234	2.34	6	50	3
KMSEA-2235	2.35	6	50	3
KMSEA-2236	2.36	6	50	3
KMSEA-2237	2.37	6	50	3
KMSEA-2238	2.38	6	50	3
KMSEA-2239	2.39	6	50	3
KMSEA-2240	2.4	6	50	3
KMSEA-2241	2.41	6	50	3
KMSEA-2242	2.42	6	50	3
KMSEA-2243	2.43	6	50	3
KMSEA-2244	2.44	6	50	3
KMSEA-2245	2.45	6	50	3
KMSEA-2246	2.46	6	50	3
KMSEA-2247	2.47	6	50	3
KMSEA-2248	2.48	6	50	3
KMSEA-2249	2.49	6	50	3
KMSEA-2250	2.5	8	50	3
KMSEA-2251	2.51	8	50	3
KMSEA-2252	2.52	8	50	3
KMSEA-2253	2.53	8	50	3
KMSEA-2254	2.54	8	50	3
KMSEA-2255	2.55	8	50	3
KMSEA-2256	2.56	8	50	3
KMSEA-2257	2.57	8	50	3
KMSEA-2258	2.58	8	50	3
KMSEA-2259	2.59	8	50	3
KMSEA-2260	2.6	8	50	3
KMSEA-2261	2.61	8	50	3

KMSEA-2

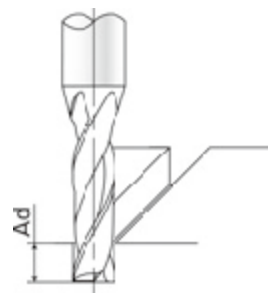
[illegible][illegible]

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切削条件参考

Referential Cutting Conditions

刃 径	切込み深さ Cutting Depth
Flute Diameter	Ad
$D < \phi 0.2$	0.05D
$\phi 0.2 \leq D < \phi 1.0$	0.1D
$\phi 1.0 \leq D$	0.3D



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	10	32,000	15
0.15 ~ 0.19	32,000	20	32,000	20	32,000	15	32,000	20
0.2 ~ 0.24	32,000	50	32,000	45	32,000	30	32,000	50
0.25 ~ 0.29	32,000	60	32,000	55	32,000	30	32,000	60
0.3 ~ 0.34	32,000	70	32,000	60	32,000	40	32,000	70
0.35 ~ 0.39	32,000	80	32,000	70	32,000	45	32,000	80
0.4 ~ 0.49	32,000	85	32,000	80	32,000	50	32,000	85
0.5 ~ 0.59	32,000	85	29,500	80	25,000	60	32,000	85
0.6 ~ 0.79	32,000	85	24,500	80	21,000	60	32,000	85
0.8 ~ 0.89	24,500	90	18,500	80	15,500	70	24,500	90
0.9 ~ 0.99	22,000	90	16,500	80	14,000	70	22,000	90
1 ~ 1.09	19,500	100	14,500	80	12,500	75	19,500	100
1.1 ~ 1.19	18,400	100	13,700	80	11,800	75	18,400	100
1.2 ~ 1.29	17,300	100	12,900	80	11,100	75	17,300	100
1.3 ~ 1.39	16,200	100	12,100	90	10,400	75	16,200	100
1.4 ~ 1.49	15,100	110	11,300	90	9,700	75	15,100	110
1.5 ~ 1.69	14,000	110	10,500	90	8,900	75	14,000	110
1.7 ~ 1.79	13,000	120	9,800	100	8,300	75	13,000	120
1.8 ~ 1.99	12,000	120	9,100	100	7,600	75	12,000	120
2 ~ 2.19	11,000	130	8,400	110	7,000	75	11,000	130
2.2 ~ 2.39	10,000	130	7,900	110	6,600	75	10,000	130
2.4 ~ 2.59	9,000	140	7,400	120	6,200	80	9,000	140
2.6 ~ 2.79	8,000	140	6,900	120	5,800	80	8,000	140
2.8 ~ 3	7,400	150	6,350	130	5,300	90	7,400	150
備 考 Remarks	・回転数と送り速度は同じ割合で調整して下さい。 ・切削油を使用して下さい。				・Adjust Revolution and Feed Speed at the same rate. ・Use Cutting Oil.			