

MIRACLE END MILLS

VCPSRB MIRACLE ORBIT

Corner radius, Short cut length, 2—4 flute, Taper neck, High precision



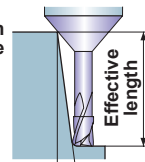
D1 ≤ 1.5

D1 ≥ 2

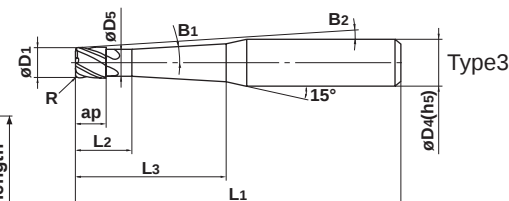
Carbon Steel, Alloy Steel, Cast Iron (≤30HRC)	Tool Steel, Pre-Hardened Steel, Hardened Steel (≤45HRC)	Hardened Steel (≤55HRC)	Hardened Steel (>55HRC)	Austenitic Stainless Steel	Titanium Alloy, Heat Resistant Alloy	Copper Alloy	Aluminium Alloy
◎	◎	◎	◎	○	○		

SQUARE

Taper neck type

Effective length
for inclined angle

Inclined angle



BALL



0.5 ≤ R ≤ 3				
±0.01				



1.5 ≤ D1 ≤ 12				
0 - 0.01				

RADIUS



D4=6	8 ≤ D4 ≤ 10	12 ≤ D4 ≤ 16		
0 - 0.005	0 - 0.006	0 - 0.008		

● ±0.01mm corner radius tolerance, 0—-0.01mm outer diameter tolerance.

End mill with corner radius for precise and efficient machining.

Unit : mm

TAPER

SOLID END MILLS

Order Number	D1	R	B1	ap	L3	L2	D5	B2	L1	D4	Flutes	Stock	Type	Effective length for inclined angle		
														1°	2°	3°
VCPSRBD0150N03L06R05	1.5	0.5	1° 30'	1.5	6	3	1.44	9°	50	6	2	●	3	—	7.1	7.7
D0150N03L10R05	1.5	0.5	1° 30'	1.5	10	3	1.44	7.2°	50	6	2	●	3	—	11.3	12.2
D0200N04L10R05	2	0.5	1° 30'	2	10	4	1.9	6.7°	60	6	4	●	3	—	11.5	12.4
D0200N04L15R05	2	0.5	1° 30'	2	15	4	1.9	5.3°	60	6	4	●	3	—	16.7	18
D0250N05L12R10	2.5	1	1° 30'	2.5	12	5	2.4	5.6°	60	6	4	●	3	—	14.2	15.3
D0250N05L20R10	2.5	1	1° 30'	2.5	20	5	2.4	4°	60	6	4	●	3	—	22.5	24.2
D0300N06L15R05	3	0.5	1° 30'	3	15	6	2.9	4.4°	60	6	4	●	3	—	16.9	18.2
D0300N06L20R05	3	0.5	1° 30'	3	20	6	2.9	3.6°	60	6	4	●	3	—	22.1	23.8
D0300N06L15R10	3	1	1° 30'	3	15	6	2.9	4.4°	60	6	4	●	3	—	17.4	18.7
D0300N06L20R10	3	1	1° 30'	3	20	6	2.9	3.6°	60	6	4	●	3	—	22.6	24.4
D0400N08L20R10	4	1	1° 30'	4	20	8	3.9	2.6°	60	6	4	●	3	—	22.8	*
D0400N08L30R10	4	1	1° 30'	4	30	8	3.9	1.9°	70	6	4	●	3	—	*	*
D0500N08L40R05	5	0.5	1°	5	40	8	4.9	2°	90	8	4	●	3	41.2	*	*
D0500N08L60R05	5	0.5	1°	5	60	8	4.9	1.4°	110	8	4	●	3	61.2	*	*
D0500N08L40R10	5	1	1°	5	40	8	4.9	2°	90	8	4	●	3	41.7	*	*
D0500N08L60R10	5	1	1°	5	60	8	4.9	1.4°	110	8	4	●	3	61.7	*	*
D0600N08L40R20	6	2	1°	6	40	8	5.85	1.4°	70	8	4	●	3	42.8	*	*
D0600N08L60R20	6	2	1°	6	60	8	5.85	1°	100	8	4	●	3	*	*	*
D0800N10L53R20	8	2	1°	8	53	10	7.85	1.1°	90	10	4	●	3	55.9	*	*
D0800N10L70R20	8	2	1°	8	70	10	7.85	1.6°	130	12	4	●	3	72.9	*	*
D1000N12L55R30	10	3	1°	10	55	12	9.7	1.1°	100	12	4	●	3	59.4	*	*
D1000N12L70R30	10	3	1°	10	70	12	9.7	0.9°	130	12	4	●	3	*	*	*
D1200N24L70R30	12	3	1°	12	70	24	11.7	1.6°	130	16	4	●	3	75.2	*	*

* No interference

● : Inventory maintained.