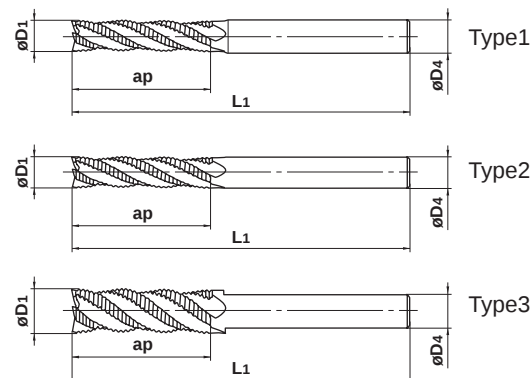


VALR

Roughing type, Long cut length, 4–6 flute, Medium pitch form

10 ≤ D₁ ≤ 25 28 ≤ D₁ ≤ 32 D₁ ≥ 35

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
◎	○			◎	○		



- Roughing 4–6 flute end mill with high grade HSS substrate and Violet coating for general use.

Unit : mm

Order Number	D ₁	ap	L ₁	D ₄	Flutes	Stock	Type
VALRD1000	10	45	110	10	4	●	2
D1200	12	50	130	12	4	●	2
D1400	14	55	155	16	4	●	1
D1500	15	65	165	16	4	●	1
D1600	16	65	165	16	4	●	2
D1800	18	65	165	16	4	●	3
D2000	20	75	175	20	4	●	2
D2200	22	75	175	20	4	●	3
D2400	24	85	185	25	4	●	1
D2500	25	90	190	25	4	●	2
D2800	28	90	190	25	5	●	3
D3000	30	90	200	25	5	●	3
D3200	32	95	210	32	5	★	2
D3500	35	100	215	32	6	★	3
D4000	40	110	230	32	6	★	3
D4500	45	120	250	42	6	★	3
D5000	50	120	250	42	6	★	3

● : Inventory maintained. ★ : Inventory maintained in Japan.

SQUARE

BALL

RADIUS

TAPER

SOLID END MILLS

HSS