

2 flute IMPACT MIRACLE short ball endmill (S)

Expand

VF-255B

**Short overall length
gives high rigidity.**

Realized optimum tool overhang.



NEW

VF-255B

IMPACT

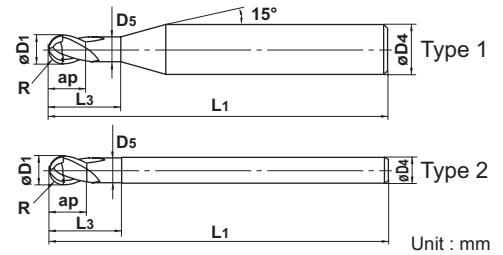
IMPACT MIRACLE END MILL

VF-255B Expand

2 flute IMPACT MIRACLE short ball endmill (S)



● Suitable for shrink fit chucks.



Unit : mm

Order Number	Radius of Ball Nose R	Dia. D1	Length of Cut ap	Neck Length L3	Neck Dia. D5	Overall Length L1	Shank Dia. D4	No. of Flutes N	Stock	Type
* VF2SSBR0050S04	0.5	1	1	2	0.94	40	4	2	●	1
R0050	0.5	1	1	2	0.94	40	6	2	●	1
* R0075S04	0.75	1.5	1.5	3	1.44	40	4	2	●	1
R0075	0.75	1.5	1.5	3	1.44	40	6	2	●	1
R0100	1	2	2	4	1.9	45	6	2	●	1
R0150	1.5	3	3	6	2.9	45	6	2	●	1
R0200	2	4	4	8	3.9	45	6	2	●	1
R0250	2.5	5	5	10	4.9	50	6	2	●	1
R0300	3	6	6	12	5.85	50	6	2	●	2
R0400	4	8	8	14	7.85	60	8	2	●	2
R0500	5	10	10	18	9.7	70	10	2	●	2
R0600	6	12	12	22	11.7	75	12	2	●	2

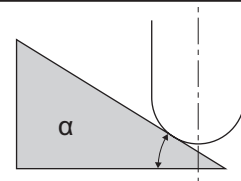
* Expand

Cutting conditions

Work material	Hardened steel (-55HRC) NAK, AISI H13					Hardened steel (55-62HRC) AISI D2, SUS420					Hardened steel (62-70HRC) SKS, SKH				
	α ≤ 15°		α > 15°		Depth of cut (mm)	α ≤ 15°		α > 15°		Depth of cut (mm)	α ≤ 15°		α > 15°		Depth of cut (mm)
	Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)		Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)		Revolution (min ⁻¹)	Feed rate (mm/min)	Revolution (min ⁻¹)	Feed rate (mm/min)	
R 0.5	40,000	8,000	40,000	3,200	0.06	40,000	5,600	40,000	2,400	0.05	40,000	3,600	32,000	1,300	0.04
R 0.75	40,000	9,600	40,000	4,000	0.09	40,000	7,200	32,000	2,500	0.075	32,000	4,500	21,000	1,200	0.05
R 1	40,000	9,600	39,000	4,700	0.11	40,000	8,000	24,000	2,400	0.1	24,000	3,800	16,000	1,000	0.07
R 1.5	40,000	12,000	27,000	4,300	0.13	32,000	7,700	16,000	2,200	0.12	16,000	3,200	11,000	880	0.09
R 2	32,000	10,880	20,000	3,600	0.15	24,000	6,200	12,000	1,900	0.13	12,000	2,400	8,000	800	0.1
R 2.5	25,000	9,000	16,000	2,900	0.2	19,000	5,300	9,600	1,700	0.15	9,600	2,100	6,000	600	0.1
R 3	21,000	8,400	13,000	2,600	0.25	16,000	4,800	8,000	1,600	0.2	8,000	1,700	5,000	600	0.11
R 4	16,000	6,400	10,000	2,000	0.3	12,000	3,600	6,000	1,200	0.2	6,000	1,400	4,000	480	0.11
R 5	13,000	5,200	8,000	1,700	0.5	10,000	3,200	4,800	960	0.2	4,800	1,100	3,000	420	0.12
R 6	9,000	3,600	6,000	1,300	0.5	7,000	2,200	3,600	720	0.3	3,600	860	2,200	310	0.12

Depth of cut: Pick feed rates should be chosen according to the surface finish required. The table above should be used as a reference start point. ≤ Please refer to the list above for depth of cut. R:Radius

- 1) If the rigidity of the machine or the workpiece installation is very low, or chattering and noise are generated, please reduce the revolution and the feed rate proportionately.
- 2) If the depth of cut is shallow, the revolution and feed rate can be increased. If accuracy is important, please reduce the feed rate.
- 3) α is the inclination angle of the machined surface.



JQA-2522
JQA-EM0941

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