

Multi-Flute End Mills High Speed Steel-Single End

- Used in deep cuts where longer flute length is required
- Suitable for use in a wide range of ferrous and non-ferrous materials



Long

Size	Shank Dia.	Length of Cut Inch(in)	Overall Length	No. of Flutes	Model No.		
					M2	M2AL	Tin Coated
1/4	3/8	1-1/4	3-1/8	4	E4L-14/38	E4LA-14/38	E4LC-14/38
5/16	3/8	1-3/8	3-1/8	4	E4L-516/38	E4LA-516/38	E4LC-516/38
3/8	3/8	1-1/2	3-1/4	4	E4L-38/38	E4LA-38/38	E4LC-38/38
7/16	1/2	1-3/4	3-3/4	4	E4L-716/12	E4LA-716/12	E4LC-716/12
1/2	1/2	2	4	4	E4L-12/12	E4LA-12/12	E4LC-12/12
5/8	1/2	2-1/2	4-5/8	4	E4L-58/12	E4LA-58/12	E4LC-58/12
5/8	5/8	2-1/2	4-5/8	4	E4L-58/58	E4LA-58/58	E4LC-58/58
3/4	1/2	3	5-1/4	4	E4L-34/12	E4LA-34/12	E4LC-34/12
3/4	3/4	3	5-1/4	4	E4L-34/34	E4LA-34/34	E4LC-34/34
7/8	7/8	3-1/2	5-3/4	4	E4L-78/78	E4LA-78/78	E4LC-78/78
1	3/4	4	6-1/2	4	E4L-1/34	E4LA-1/34	E4LC-1/34
1	1	4	6-1/2	4	E4L-1/1	E4LA-1/1	E4LC-1/1
1-1/8	3/4	4	6-1/2	6	E6L-118/34	E6LA-118/34	E6LC-118/34
1-1/8	1	4	6-1/2	6	E6L-118/1	E6LA-118/1	E6LC-118/1
1-1/4	3/4	4	6-1/2	6	E6L-114/34	E6LA-114/34	E6LC-114/34
1-1/4	1	4	6-1/2	6	E6L-114/1	E6LA-114/1	E6LC-114/1
1-1/4	1-1/4	4	6-1/2	4	E4L-114/114	E4LA-114/114	E4LC-114/114
1-1/4	1-1/4	4	6-1/2	6	E6L-114/114	E6LA-114/114	E6LC-114/114
1-3/8	1	4	6-1/2	6	E6L-138/1	E6LA-138/1	E6LC-138/1
1-1/2	1	4	6-1/2	6	E6L-112/1	E6LA-112/1	E6LC-112/1
1-1/2	1-1/4	4	6-1/2	6	E6L-112/114	E6LA-112/114	E6LC-112/114
1-3/4	1-1/4	4	6-1/2	6	E6L-134/114	E6LA-134/114	E6LC-134/114
2	1-1/4	4	6-1/2	4	E4L-2/114	E4LA-2/114	E4LC-2/114
2	1-1/4	4	6-1/2	6	E6L-2/114	E6LA-2/114	E6LC-2/114
2	1-1/4	4	6-1/2	8	E8L-2/114	E8LA-2/114	E8LC-2/114



Extra Long

Size	Shank Dia.	Length of Cut Inch(in)	OAL	No. of Flutes	Model No.		
					M2	M2AL	Tin Coated
1/4	3/8	1-3/4	3-9/16	4	E4E-14/38	E4EA-14/38	E4EC-14/38
5/16	3/8	2	3-3/4	4	E4E-516/38	E4EA-516/38	E4EC-516/38
3/8	3/8	2-1/2	4-1/4	4	E4E-38/38	E4EA-38/38	E4EC-38/38
1/2	1/2	3	5	4	E4E-12/12	E4EA-12/12	E4EC-12/12
5/8	1/2	4	6-1/8	4	E4E-58/12	E4EA-58/12	E4EC-58/12
5/8	5/8	4	6-1/8	5	E5E-58/58	E5EA-58/58	E5EC-58/58
3/4	1/2	4	6-1/4	4	E4E-34/12	E4EA-34/12	E4EC-34/12
3/4	3/4	4	6-1/4	4	E4E-34/34	E4EA-34/34	E4EC-34/34
7/8	7/8	5	7-1/4	4	E4E-78/78	E4EA-78/78	E4EC-78/78
1	1	6	8-1/2	4	E4E-1/1	E4EA-1/1	E4EC-1/1
1-1/4	1-1/4	6	8-1/2	4	E4E-114/114	E4EA-114/114	E4EC-114/114
1-1/4	1-1/4	6	8-1/2	6	E6E-114/114	E6EA-114/114	E6EC-114/114
1-1/2	1-1/4	8	10-1/2	6	E6E-112/114	E6EA-112/114	E6EC-112/114
2	2	8	11-3/4	6	E6E-2/2	E6EA-2/2	E6EC-2/2

Metric End Mills High Speed Steel

Suitable for use in a wide range of ferrous and non-ferrous materials



2 Flute Single End

Size	Shank Dia.	Flute Length	OAL	Model No.		
				M2	M2AL	Tin Coated
5mm	3/8	1/2	2-5/16	EM2-5	EM2A-5	EM2C-5
6mm	3/8	1/2	2-5/16	EM2-6	EM2A-6	EM2C-6
7mm	3/8	9/16	2-5/16	EM2-7	EM2A-7	EM2C-7
8mm	3/8	9/16	2-5/16	EM2-8	EM2A-8	EM2C-8
9mm	3/8	9/16	2-5/16	EM2-9	EM2A-9	EM2C-9
10mm	3/8	13/16	2-1/2	EM2-10	EM2A-10	EM2C-10
11mm	3/8	13/16	2-1/2	EM2-11	EM2A-11	EM2C-11
12mm	1/2	1	3	EM2-12	EM2A-12	EM2C-12
13mm	1/2	1-1/8	3-1/8	EM2-13	EM2A-13	EM2C-13
14mm	1/2	1-1/8	3-1/8	EM2-14	EM2A-14	EM2C-14
15mm	1/2	1-1/8	3-1/8	EM2-15	EM2A-15	EM2C-15
16mm	1/2	1-5/16	3-5/16	EM2-16	EM2A-16	EM2C-16
18mm	1/2	1-5/16	3-5/16	EM2-18	EM2A-18	EM2C-18
20mm	3/4	1-1/2	3-3/4	EM2-20	EM2A-20	EM2C-20
22mm	7/8	1-1/2	3-3/4	EM2-22	EM2A-22	EM2C-22
24mm	1/2	1-1/2	3-1/2	EM2-24	EM2A-24	EM2C-24
25mm	1	1-5/8	4-1/8	EM2-25	EM2A-25	EM2C-25



4 Flute Single End

Size	Shank Dia.	Flute Length	OAL	Model No.		
				M2	M2AL	Tin Coated
5mm	3/8	9/16	2-7/16	EM4-5	EM4A-5	EM4C-5
6mm	3/8	5/8	2-1/2	EM4-6	EM4A-6	EM4C-6
7mm	3/8	5/8	2-1/2	EM4-7	EM4A-7	EM4C-7
8mm	3/8	3/4	2-1/2	EM4-8	EM4A-8	EM4C-8
9mm	3/8	3/4	2-1/2	EM4-9	EM4A-9	EM4C-9
10mm	3/8	3/4	2-1/2	EM4-10	EM4A-10	EM4C-10
11mm	3/8	1	2-11/16	EM4-11	EM4A-11	EM4C-11
12mm	1/2	1	2-11/16	EM4-12	EM4A-12	EM4C-12
13mm	1/2	1-1/4	3-1/4	EM4-13	EM4A-13	EM4C-13
14mm	1/2	1-3/8	3-3/8	EM4-14	EM4A-14	EM4C-14
15mm	1/2	1-3/8	3-3/8	EM4-15	EM4A-15	EM4C-15
16mm	1/2	1-5/8	3-3/4	EM4-16	EM4A-16	EM4C-16
18mm	1/2	1-5/8	3-3/4	EM4-18	EM4A-18	EM4C-18
20mm	3/4	1-7/8	4-1/8	EM4-20	EM4A-20	EM4C-20
22mm	7/8	1-7/8	4-1/8	EM4-22	EM4A-22	EM4C-22
24mm	1/2	1-7/8	4-1/8	EM4-24	EM4A-24	EM4C-24
25mm	1	2	4-1/2	EM4-25	EM4A-25	EM4C-25



2 Flute Double End

Size	Shank Dia.	Flute Length	OAL	Model No.		
				M2	M2AL	Tin Coated
3mm	3/8	3/8	3-1/16	EDM2-3	EDM2A-3	EDM2C-3
4mm	3/8	7/16	3-1/8	EDM2-4	EDM2A-4	EDM2C-4
5mm	3/8	1/2	3-1/8	EDM2-5	EDM2A-5	EDM2C-5
6mm	3/8	1/2	3-1/8	EDM2-6	EDM2A-6	EDM2C-6
7mm	3/8	9/16	3-1/8	EDM2-7	EDM2A-7	EDM2C-7
8mm	3/8	9/16	3-1/8	EDM2-8	EDM2A-8	EDM2C-8
9mm	3/8	9/16	3-1/8	EDM2-9	EDM2A-9	EDM2C-9
10mm	1/2	13/16	3-3/4	EDM2-10	EDM2A-10	EDM2C-10
11mm	1/2	13/16	3-3/4	EDM2-11	EDM2A-11	EDM2C-11
12mm	1/2	13/16	3-3/4	EDM2-12	EDM2A-12	EDM2C-12
13mm	5/8	1-1/8	4-1/2	EDM2-13	EDM2A-13	EDM2C-13
14mm	5/8	1-1/8	4-1/2	EDM2-14	EDM2A-14	EDM2C-14
15mm	5/8	1-1/8	4-1/2	EDM2-15	EDM2A-15	EDM2C-15
16mm	3/4	1-5/16	5	EDM2-16	EDM2A-16	EDM2C-16
18mm	3/4	1-5/16	5	EDM2-18	EDM2A-18	EDM2C-18
20mm	7/8	1-9/16	5-1/2	EDM2-20	EDM2A-20	EDM2C-20
22mm	7/8	1-9/16	5-1/2	EDM2-22	EDM2A-22	EDM2C-22
24mm	1	1-5/8	5-7/8	EDM2-24	EDM2A-24	EDM2C-24
25mm	1	1-5/8	5-7/8	EDM2-25	EDM2A-25	EDM2C-25

Ball Nose End Mills High Speed Steel

- Designed for milling radius bottom slots, fillets and special contours
- Center cutting design is used to plunge into solid material at the beginning of slotting cut
- 2 Flute design provides excellent chip evacuation
- 4 Flute design produces a high surface finish



2 Flute Single End

Model No.	Size	Shank Dia.	Flute Length	Overall Length
EB2-18/38	1/8	3/8	3/8	2-5/16
EB2-316/38	3/16	3/8	1/2	2-3/8
EB2-14/38	1/4	3/8	5/8	2-7/16
EB2-516/38	5/16	3/8	3/4	2-1/2
EB2-38/38	3/8	3/8	3/4	2-1/2
EB2-716/12	7/16	1/2	1	3
EB2-12/12	1/2	1/2	1	3
EB2-916/12	9/16	1/2	1	3
EB2-58/12	5/8	1/2	1-3/8	3-3/8
EB2-58/58	5/8	5/8	1-3/8	3-1/2
EB2-34/12	3/4	1/2	1-3/8	3-3/8
EB2-34/34	3/4	3/4	1-5/8	3-7/8
EB2-78/34	7/8	3/4	2	4-1/4
EB2-78/78	7/8	7/8	2	4-1/4
EB2-1/34	1	3/4	2-1/4	4-1/2
EB2-1/1	1	1	2-1/4	4-3/4
EB2-118/1	1-1/8	1	2-1/4	4-3/4
EB2-114/114	1-1/4	1-1/4	2-1/2	5

2 Flute Long

Length Single End



Model No.	Size	Shank Dia.	Flute Length	Length Below Shank	OAL
EBL2-14/38	1/4	3/8	5/8	1-1/2	3-1/16
EBL2-516/38	5/16	3/8	3/4	1-3/4	3-5/16
EBL2-38/38	3/8	3/8	3/4	1-3/4	3-5/16
EBL2-12/12	1/2	1/2	1	2-1/4	4
EBL2-58/58	5/8	5/8	1-1/8	3-3/4	4-5/8
EBL2-34/34	3/4	3/4	1-5/8	3-3/8	5-3/8
EBL2-78/78	7/8	7/8	2	4	6
EBL2-1/1	1	1	2-1/2	5	7-1/4
EBL2-114/114	1-1/4	1-1/4	3	5	7-1/4

2 Flute Double End



Model No.	Size	Shank Dia.	Flute Length	Overall Length
EBD2-1/8	1/8	3/8	3/8	3-1/16
EBD2-9/64	9/64	3/8	7/16	3-1/8
EBD2-5/32	5/32	3/8	1/2	3-1/8
EBD2-11/64	11/64	3/8	7/16	3-1/8
EBD2-3/16	3/16	3/8	7/16	3-1/8
EBD2-13/64	13/64	3/8	1/2	3-1/8
EBD2-7/32	7/32	3/8	1/2	3-1/8
EBD2-15/64	15/64	3/8	1/2	3-1/8
EBD2-1/4	1/4	3/8	1/2	3-1/8
EBD2-17/64	17/64	3/8	9/16	3-1/8
EBD2-9/32	9/32	3/8	9/16	3-1/8
EBD2-19/64	19/64	3/8	9/16	3-1/8
EBD2-5/16	5/16	3/8	9/16	3-1/8
EBD2-21/64	21/64	3/8	9/16	3-1/8
EBD2-11/32	11/32	3/8	9/16	3-1/8
EBD2-23/64	23/64	1/2	9/16	3-1/8
EBD2-3/8	3/8	3/8	9/16	3-1/8
EBD2-13/32	13/32	1/2	13/16	3-3/4
EBD2-7/16	7/16	1/2	13/16	3-3/4
EBD2-1/2	1/2	1/2	13/16	3-3/4
EBD2-5/8	5/8	5/8	1-1/8	4-1/2
EBD2-3/4	3/4	3/4	1-5/16	5
EBD2-7/8	7/8	7/8	1-9/16	5-1/2
EBD2-1	1	1	1-5/8	5-7/8

4 Flute Single End



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