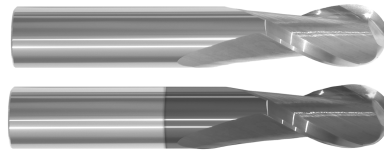


# SOLID CARBIDE BALL ENDMILLS

## SOLID CARBIDE ENDMILLS 2 FLUTE, BALL END



American Made Carbide End Mills  
At High Speed Steel Prices!

- Premium sub-micron C-2 carbide with 10% cobalt
- Ball end allows for three axis contour slotting and contour finishing
- Available uncoated, Tin coated and TiAIN coated
- Tolerances:  
Cutting Dia: +.000/- .002  
Shank Dia: +.0000/- .0005

**Applications:**  
Slotting and pocketing

**Materials:**  
**Uncoated:** General purpose milling of all materials  
**TiN Coated (gold):** Increased tool life in milling of all ferrous materials  
**TiAIN Coated (dark gray):** Increased tool life in milling of steels, alloy steels and hardened steels

Dia.	LOC	Shank Dia.	OAL	Uncoated		TiN Coated		TiAIN Coated	
				Part Number	Price Each	Part Number	Price Each	Part Number	Price Each
1/64	3/64	1/8	1-1/2	MO-EM001000-2	\$18.75	-	-	-	-
1/32	1/8	1/8	1-1/2	MO-EM001005-2	\$7.35	MO-EM001006-2	\$8.16	MO-EM001016-2	\$9.28
3/64	1/8	1/8	1-1/2	MO-EM001007-2	\$7.35	MO-EM001004-2	\$8.16	MO-EM001013-2	\$9.28
1/16	1/4	1/8	1-1/2	MO-EM001008AA-2	\$6.08	MO-EM001002-2	\$6.89	MO-EM001003-2	\$8.01
5/64	1/4	1/8	1-1/2	MO-EM001009-2	\$6.08	MO-EM001008-2	\$6.89	MO-EM001018-2	\$8.01
3/32	3/8	1/8	1-1/2	MO-EM001010-2	\$6.08	MO-EM001011-2	\$6.89	MO-EM001019-2	\$8.01
7/64	3/8	1/8	1-1/2	MO-EM001014-2	\$6.08	MO-EM001015-2	\$6.89	MO-EM001017-2	\$8.01
1/8	1/2	1/8	1-1/2	MO-EM001020-2	\$5.75	MO-EM001021-2	\$6.56	MO-EM001023-2	\$7.68
9/64	9/16	3/16	2	MO-EM001024-2	\$9.00	MO-EM001025-2	\$10.17	MO-EM001027-2	\$10.93
5/32	9/16	3/16	2	MO-EM001030-2	\$9.00	MO-EM001031-2	\$10.17	MO-EM001033-2	\$10.93
3/16	5/8	3/16	2	MO-EM001040-2	\$8.25	MO-EM001041-2	\$9.42	MO-EM001043-2	\$10.18
7/32	5/8	1/4	2-1/2	MO-EM001050-2	\$10.50	MO-EM001051-2	\$12.55	MO-EM001053-2	\$13.33
1/4	3/4	1/4	2-1/2	MO-EM001060-2	\$9.75	MO-EM001061-2	\$11.80	MO-EM001062-2	\$12.58
9/32	3/4	5/16	2-1/2	MO-EM001070-2	\$15.25	MO-EM001071-2	\$17.82	MO-EM001073-2	\$19.89
5/16	13/16	5/16	2-1/2	MO-EM001080-2	\$14.00	MO-EM001081-2	\$16.57	MO-EM001079-2	\$18.64
11/32	1	3/8	2-1/2	MO-EM001085-2	\$18.33	MO-EM001086-2	\$20.90	MO-EM001087-2	\$23.00
3/8	1	3/8	2-1/2	MO-EM001090-2	\$17.08	MO-EM001095-2	\$19.65	MO-EM001091-2	\$21.75
13/32	1	7/16	2-3/4	MO-EM001096-2	\$25.33	MO-EM001097-2	\$29.48	MO-EM001118-2	\$31.55
7/16	1	7/16	2-3/4	MO-EM001100-2	\$24.08	MO-EM001101-2	\$28.23	MO-EM001119-2	\$30.30
15/32	1	1/2	3	MO-EM001105-2	\$29.08	MO-EM001106-2	\$33.23	MO-EM001123-2	\$35.30
1/2	1	1/2	3	MO-EM001110-2	\$27.50	MO-EM001115-2	\$31.64	MO-EM001117-2	\$33.71
9/16	1-1/4	9/16	3-1/2	MO-EM001120-2	\$44.08	MO-EM001121-2	\$50.54	MO-EM001124-2	\$54.76
5/8	1-1/4	5/8	3-1/2	MO-EM001130-2	\$48.75	MO-EM001131-2	\$55.20	MO-EM001134-2	\$59.43
11/16	1-1/2	3/4	4	MO-EM001140-2	\$81.25	MO-EM001141-2	\$88.63	MO-EM001140-2	\$92.85
3/4	1-1/2	3/4	4	MO-EM001150-2	\$72.92	MO-EM001151-2	\$80.30	MO-EM001154-2	\$84.52
7/8	1-1/2	7/8	4	MO-EM001155-2	\$118.50	MO-EM001156-2	\$125.88	MO-EM001158-2	\$130.10
1	1-1/2	1	4	MO-EM001160-2	\$130.83	MO-EM001161-2	\$143.74	MO-EM001164-2	\$147.93

**Full Line Available!**  
Please call for more information.

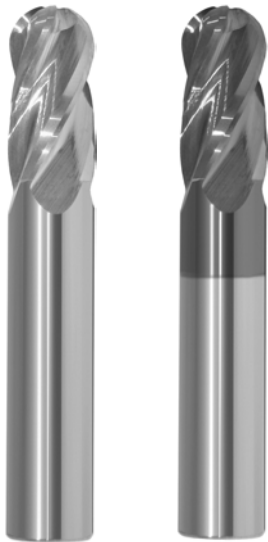
## SOLID CARBIDE ENDMILLS 4 FLUTE, BALL END



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- Available uncoated, Tin coated and TiAIN coated
- Tolerances:  
Cutting Dia: +.000/- .002  
Shank Dia: +.0000/- .0005



Dia.	LOC	Shank Dia.	OAL	Uncoated		TiN Coated		TiAIN Coated	
				Part Number	Price Each	Part Number	Price Each	Part Number	Price Each
1/64	3/64	1/8	1-1/2	MO-EM000998-4	\$18.75	-	-	-	-
1/32	1/8	1/8	1-1/2	MO-EM000999-4	\$7.35	MO-EM001003-4	\$8.16	MO-EM001009-4	\$9.28
3/64	1/8	1/8	1-1/2	MO-EM001000-4	\$7.35	MO-EM001004-4	\$8.16	MO-EM001014-4	\$9.28
1/16	1/4	1/8	1-1/2	MO-EM001001-4	\$6.08	MO-EM001002-4	\$6.89	MO-EM001016-4	\$8.01
5/64	1/4	1/8	1-1/2	MO-EM001005-4	\$6.08	MO-EM001006-4	\$6.89	MO-EM001019-4	\$8.01
3/32	3/8	1/8	1-1/2	MO-EM001010-4	\$6.08	MO-EM001011-4	\$6.89	MO-EM001013-4	\$8.01
7/64	3/8	1/8	1-1/2	MO-EM001017-4	\$6.08	MO-EM001052-4	\$6.89	MO-EM001039-4	\$8.01
1/8	1/2	1/8	1-1/2	MO-EM001020-4	\$5.75	MO-EM001021-4	\$6.56	MO-EM001028-4	\$7.68
9/64	9/16	3/16	2	MO-EM001025-4	\$9.00	MO-EM001026-4	\$10.17	MO-EM001029-4	\$10.93
5/32	9/16	3/16	2	MO-EM001030-4	\$9.00	MO-EM001031-4	\$10.17	MO-EM001032-4	\$10.93
3/16	5/8	3/16	2	MO-EM001040-4	\$8.25	MO-EM001041-4	\$9.42	MO-EM001034-4	\$10.18
7/32	5/8	1/4	2-1/2	MO-EM001050-4	\$10.50	MO-EM001056-4	\$12.55	MO-EM001036-4	\$13.33
1/4	3/4	1/4	2-1/2	MO-EM001060-4	\$9.75	MO-EM001062-4	\$11.80	MO-EM001066-4	\$12.58
9/32	3/4	5/16	2-1/2	MO-EM001070-4	\$15.25	MO-EM001065-4	\$17.82	MO-EM001068-4	\$19.89
5/16	13/16	5/16	2-1/2	MO-EM001080-4	\$14.00	MO-EM001082-4	\$16.57	MO-EM001073-4	\$18.64
11/32	1	3/8	2-1/2	MO-EM001086-4	\$18.33	MO-EM001087-4	\$20.90	MO-EM001115-4	\$23.00
3/8	1	3/8	2-1/2	MO-EM001090-4	\$17.08	MO-EM001092-4	\$19.65	MO-EM001116-4	\$21.75
13/32	1	7/16	2-3/4	MO-EM001095-4	\$25.33	MO-EM001097-4	\$29.48	MO-EM001117-4	\$31.55
7/16	1	7/16	2-3/4	MO-EM001100-4	\$24.08	MO-EM001101-4	\$28.23	MO-EM001118-4	\$30.30
15/32	1	1/2	3	MO-EM001105-4	\$29.08	MO-EM001107-4	\$33.23	MO-EM001119-4	\$35.30
1/2	1	1/2	3	MO-EM001110-4	\$27.50	MO-EM001111-4	\$31.64	MO-EM001114-4	\$33.71
9/16	1-1/4	9/16	3-1/2	MO-EM001120-4	\$44.08	MO-EM001125-4	\$50.54	MO-EM001127-4	\$54.76
5/8	1-1/4	5/8	3-1/2	MO-EM001130-4	\$48.75	MO-EM001131-4	\$55.20	MO-EM001135-4	\$59.43
11/16	1-1/2	3/4	4	MO-EM001140-4	\$81.25	MO-EM001155-4	\$88.63	MO-EM001167-4	\$92.85
3/4	1-1/2	3/4	4	MO-EM001150-4	\$72.92	MO-EM001151-4	\$80.30	MO-EM001154-4	\$84.52
7/8	1-1/2	7/8	4	MO-EM001157-4	\$118.50	MO-EM001159-4	\$125.88	MO-EM001165-4	\$130.10
1	1-1/2	1	4	MO-EM001160-4	\$130.83	MO-EM001161-4	\$143.74	MO-EM001163-4	\$147.93

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# ENDMILLS-2 FLUTE/BALL END

## 2 FLUTE BALL END ENDMILLS

Cobalt & Carbide  
For Aluminum, Plastic & Non-Ferrous Materials



### ENDMILL LEGEND

MATERIAL	CUT	COATING	TYPE
COB= M42 Cobalt	CC= Center Cutting	U= Uncoated	SE= Single End
CAR= Carbide	NC= Non-Center Cutting	A= AlTiN Coated	DE= Double End
HSS= High Speed Steel		L= TiAlN Coated	
STE= Stellar One- HSS w/ Toughness of Cobalt		I= TiN Coated	
		C= TiCN Coated	

### 2 Flute Ball End Endmills (Cobalt & Carbide)- For Aluminum, Plastic & Non-Ferrous Materials

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/32	COB	3/32	3/16	2-1/4	CC	GP For Aluminum & Non Ferrous	U	DE	No	MELIN	ME-B-601-B	\$21.77	B
3/64	COB	9/64	3/16	2-1/4	CC	GP For Aluminum & Non Ferrous	U	DE	No	MELIN	ME-B-601-1/2-B	\$21.77	B
1/16	CAR	3/16	1/8	1-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-402-B	\$8.38	B
	COB	3/16	3/16	2-1/4	CC	GP For Aluminum & Non Ferrous	U	DE	No	MELIN	ME-B-602-B	\$20.19	B
	COB	7/32	3/16	2-1/2	CC	GP For Aluminum & Non Ferrous	U	DE	No	MELIN	ME-B-602-LB	\$26.93	B
5/64	COB	15/64	3/16	2-1/4	CC	GP For Aluminum & Non Ferrous	U	DE	No	MELIN	ME-B-602-1/2-B	\$20.19	B
1/8	CAR	5/16	1/8	2-3/8	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1 X-Power	YG-EM93125	\$19.06	C
	CAR	3/8	3/8	3-1/16	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1204-B	\$32.19	B
	CAR	1/2	1/8	1-1/2	NC	GP For Aluminum & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30813	\$8.60	C
	COB	3/8	3/8	2-3/8	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1204-B	\$18.07	B
3/16	CAR	3/8	3/16	3-1/8	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1 X-Power	YG-EM93126	\$20.60	C
	CAR	1/2	3/8	3-1/4	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1206-B	\$31.01	B
	CAR	5/8	3/16	2	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-606-B	\$11.92	B
	COB	7/16	3/8	3-1/8	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-1206-B	\$25.15	B
	COB	1/2	3/8	2-3/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1206-B	\$15.36	B
1/4	CAR	1/2	1/4	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1 X-Power	YG-EM93127	\$28.99	C
	CAR	5/8	3/8	3-1/2	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1208-B	\$37.32	B
	CAR	3/4	1/4	2-1/2	NC	GP For Aluminum & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30829	\$14.59	C
	COB	1/2	3/8	3-1/8	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-1208-B	\$25.93	B
	COB	5/8	3/8	3-1/16	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1208-B	\$18.07	B
5/16	CAR	3/4	3/8	3-1/2	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1210-B	\$42.12	B
	COB	9/16	3/8	3-1/8	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-1210-B	\$29.02	B
3/8	CAR	3/4	3/8	3-1/2	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1212-B	\$42.91	B
	CAR	3/4	3/8	4	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1 X-Power	YG-EM93129	\$44.14	C
	CAR	1	3/8	2-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-1212-B	\$22.53	B
	COB	9/16	3/8	3-1/8	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-1212-B	\$28.42	B
	COB	3/4	3/8	2-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1	YG-EM41305	\$12.81	C
	COB	3/4	3/8	3-5/16	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1212-B	\$20.67	B
7/16	CAR	1	7/16	2-3/4	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-1414-B	\$31.83	B
	COB	13/16	3/8	2-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1214-B	\$25.93	B
15/32	COB	13/16	1/2	3-3/4	NC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-1615-B	\$43.28	B
1/2	CAR	7/8	1/2	4-1/4	CC	GP For Aluminum & Non Ferrous	U	SE	-	YG1 X-Power	YG-EM93130	\$66.75	C
	CAR	1	1/2	3	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-1616-B	\$38.00	B
	CAR	1	1/2	4	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1616-B	\$64.17	B
	COB	13/16	3/8	2-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1216-B	\$28.77	B
	COB	1	1/2	3	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-B	\$26.18	B
	COB	1	1/2	4	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1616-B	\$31.85	B
	COB	1-1/2	1/2	3-1/2	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-MB	\$33.19	B
	COB	2	1/2	4	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-LB	\$35.18	B
17/32	COB	1-1/8	1/2	3-1/8	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1617-B	\$34.46	B
9/16	CAR	1-1/4	9/16	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-1818-B	\$65.32	B
	COB	1-1/8	1/2	3-1/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1618-B	\$31.74	B
5/8	CAR	1-1/4	5/8	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-2020-B	\$72.52	B
	COB	1-1/8	1/2	3-1/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1620-B	\$34.64	B
	COB	1-1/8	5/8	5	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-2020-B	\$54.12	B
	COB	1-3/8	5/8	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2020-B	\$34.64	B
	COB	1-3/8	5/8	4-5/8	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AN-2020-B	\$39.56	B
	COB	2	5/8	4-1/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2020-MB	\$47.02	B
	COB	2-1/2	5/8	4-5/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2020-LB	\$50.59	B
11/16	COB	1-5/16	1/2	3-5/16	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1622-B	\$45.34	B

3/4" & Larger Sizes Continued On Following Page

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TOOL STORAGE

# ENDMILLS-2 FLUTE/BALL END

## 2 FLUTE BALL END ENDMILLS (continued)

Cobalt & Carbide  
For Aluminum, Plastic & Non-Ferrous Materials

### ENDMILL LEGEND



MATERIAL
COB= M42 Cobalt
CAR= Carbide
HSS= High Speed Steel
STE= Stellar One- HSS w/ Toughness of Cobalt

CUT
CC= Center Cutting
NC= Non-Center Cutting

COATING
U= Uncoated
A= AlTiN Coated
L= TiAlN Coated
I= TiN Coated
C= TiCN Coated

TYPE
SE= Single End
DE= Double End

### 2 Flute Ball End Endmills (Cobalt & Carbide)- For Aluminum, Plastic & Non-Ferrous Materials (continued)

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
3/4	CAR	1-1/2	3/4	4	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-2424-B	\$106.74	B
	CAR	1-1/2	3/4	4	NC	GP For Aluminum & Non Ferrous	A	SE	-	IMCO Spector	IMCO-30872	\$117.23	C
	COB	1-5/16	5/8	3-7/16	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2024-B	\$41.66	B
	COB	1-5/16	3/4	5	CC	GP For Aluminum & Non Ferrous	U	DE	Yes	MELIN	ME-B-2424-B	\$70.67	B
	COB	1-5/8	3/4	3-7/8	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2424-B	\$42.87	B
	COB	1-5/8	3/4	3-7/8	NC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-AA-2424-B	\$44.49	B
13/16	COB	1-1/2	1/2	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1626-B	\$54.79	B
7/8	CAR	1-1/2	7/8	4	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-2828-B	\$170.92	B
	COB	1-1/2	1/2	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1628-B	\$56.08	B
15/16	COB	1-1/2	1/2	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1630-B	\$70.92	B
1	CAR	1-1/2	1	4	CC	GP For Aluminum & Non Ferrous	U	SE	No	MELIN	ME-AMG-3232-B	\$185.11	B
	COB	1-1/2	1/2	3-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-1632-B	\$69.57	B
	COB	2-1/4	3/4	4-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-2432-B	\$67.65	B
	COB	3	1	5-1/2	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MELIN	ME-A-3232-MB	\$79.98	B
1-1/4	COB	2-1/2	1-1/4	5	CC	GP For Aluminum & Non Ferrous	U	SE	Yes	MINICUT	MN855-0040	\$86.21	C

## 3 FLUTE BALL END ENDMILLS

Cobalt & Carbide

For Finishing Non-Ferrous Materials & Hard Alloys



### 3 Flute Ball End Endmills (Cobalt & Carbide)- For Finishing Non-Ferrous Materials & Hard Alloys

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/16	CAR	1/8	1/8	1-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-402-B	\$7.91	B
1/8	CAR	1/2	1/8	1-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-404-B	\$8.38	B
	CAR	1/2	1/8	1-1/2	NC	Light Mach-Aluminum/Non-Ferrous	A	SE	-	IMCO Spector	IMCO-62057	\$10.37	C
	COB	3/8	3/8	2-5/16	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1204-B	\$19.77	B
3/16	CAR	5/16	3/16	1-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-606-B	\$10.33	B
	CAR	5/8	3/16	2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-606-B	\$11.92	B
	CAR	5/8	3/16	2	NC	Light Mach-Aluminum/Non-Ferrous	A	SE	-	IMCO Spector	IMCO-62058	\$13.58	C
	COB	1/2	3/8	2-3/8	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1206-B	\$20.16	B
1/4	CAR	1/2	1/4	2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-808-B	\$12.18	B
	CAR	3/4	1/4	2-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-808-B	\$15.03	B
	CAR	3/4	1/4	2-1/2	NC	Light Mach-Aluminum/Non-Ferrous	A	SE	-	IMCO Spector	IMCO-62059	\$17.82	C
	COB	5/8	3/8	2-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1208-B	\$20.78	B
5/16	CAR	1/2	5/16	2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-1010-B	\$18.09	B
	COB	3/4	3/8	2-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1210-B	\$22.22	B
3/8	CAR	5/8	3/8	2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-1212-B	\$22.24	B
	COB	3/4	3/8	2-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1212-B	\$22.38	B
7/16	CAR	1	7/16	2-3/4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-1414-B	\$31.83	B
	COB	1-3/4	1/2	3-3/4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1614-LB	\$37.74	B
1/2	CAR	5/8	1/2	2-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-1616-B	\$34.90	B
	CAR	1	1/2	3	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-1616-B	\$38.00	B
	COB	1-1/4	1/2	3-1/4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1616-B	\$33.58	B
5/8	CAR	3/4	5/8	3	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMGS-2020-B	\$67.75	B
	CAR	1-1/4	5/8	3-1/2	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-2020-B	\$72.52	B
	COB	1-5/8	5/8	3-3/4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-2020-B	\$46.83	B
11/16	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1622-B	\$51.95	B
3/4	CAR	1-1/2	3/4	4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-2424-B	\$106.74	B
	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-1624-B	\$54.29	B
13/16	COB	1-7/8	5/8	4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-2026-B	\$65.12	B
7/8	COB	1-7/8	3/4	4-1/8	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-2428-B	\$76.41	B
1	CAR	1-1/2	1	4	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	No	MELIN	ME-EMG-3232-B	\$185.11	B
	COB	1-7/8	3/4	4-1/8	CC	Light Mach-Aluminum/Non-Ferrous	U	SE	Yes	MELIN	ME-E-2432-B	\$82.19	B

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# ENDMILLS-4 FLUTE/BALL END

## 4 FLUTE BALL END ENDMILLS

**Cobalt & Carbide**

For Steels & Stainless Steels



ALSO AVAILABLE!

**MICRO 100**

**INTERNAL TOOL**



**MONSTER TOOL**

### ENDMILL LEGEND

MATERIAL	CUT	COATING	TYPE
COB= M42 Cobalt	CC= Center Cutting	U= Uncoated	SE= Single End
CAR= Carbide	NC= Non-Center Cutting	A= AlTiN Coated	DE= Double End
HSS= High Speed Steel		L= TiAlN Coated	
STE= Stellar One- HSS w/ Toughness of Cobalt		I= TiN Coated	
		C= TiCN Coated	



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### 4 Flute Ball End Endmills (Cobalt & Carbide)- For Steels & Stainless Steels

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/16	CAR	3/16	1/8	1-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-402-B	\$8.38	B
1/8	CAR	5/16	1/8	2-3/8	CC	GP For Steels	U	SE	-	YG1 X-POWER	YG-EM93134	\$22.00	C
	CAR	3/8	3/8	3-1/16	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1204-B	\$32.19	B
	CAR	1/2	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM43558TE	\$10.44	C
	CAR	1/2	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM43558TF	\$10.22	C
	CAR	1/2	1/8	1-1/2	NC	General Purpose	U	SE	-	IMCO Micrograin	IMCO-30913	\$8.60	C
	COB	3/8	3/8	2-5/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1204-B	\$23.40	B
5/32	COB	7/16	3/8	2-5/16	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1205-B	\$23.40	B
3/16	CAR	3/8	3/16	2	NC	General Purpose	A	DE	-	IMCO Spector	IMCO-32138	\$19.54	C
	CAR	1/2	3/8	3-1/4	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1206-B	\$31.01	B
	CAR	5/8	3/16	2	CC	GP For Steels	L	SE	-	YG1	YG-EM43565TF	\$14.20	C
	CAR	5/8	3/16	2	NC	General Purpose	U	SE	-	IMCO Micrograin	IMCO-30921	\$11.31	C
	COB	1/2	3/8	2-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1206-B	\$23.40	B
	COB	1/2	3/8	3-1/4	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1206-B	\$34.88	B
7/32	CAR	5/8	1/4	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM43570	\$14.17	C
1/4	CAR	1/2	1/4	3-1/2	CC	GP For Steels	U	SE	-	YG1 X-POWER	YG-EM93136	\$33.44	C
	CAR	5/8	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1208-B	\$37.32	B
	CAR	3/4	1/4	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM43573TE	\$20.72	C
	CAR	3/4	1/4	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM43573TF	\$20.14	C
	CAR	3/4	1/4	2-1/2	NC	General Purpose	U	SE	-	IMCO Micrograin	IMCO-30929	\$14.59	C
	COB	5/8	3/8	3-3/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1208-B	\$35.91	B
	COB	3/4	3/8	2-9/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-B	\$23.40	B
	COB	1-1/4	3/8	3-1/16	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-LB	\$27.99	B
	COB	1-3/4	3/8	3-9/16	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-EB	\$32.34	B
5/16	CAR	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1210-B	\$42.12	B
	CAR	13/16	5/16	2-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1010-B	\$18.77	B
	COB	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1210-B	\$35.91	B
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1210-B	\$23.40	B
3/8	CAR	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1212-B	\$42.91	B
	CAR	1	3/8	2-1/2	NC	General Purpose	A	SE	-	IMCO Spector	IMCO-98262	\$28.47	C
	CAR	1	3/8	2-1/2	NC	General Purpose	U	SE	-	IMCO Micrograin	IMCO-30945	\$23.54	C
	COB	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1212-B	\$35.91	B
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1212-B	\$25.21	B
	COB	1-1/2	3/8	3-1/4	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1212-LB	\$27.44	B
7/16	CAR	1	7/16	2-3/4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1414-B	\$31.83	B
	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1214-B	\$32.83	B
1/2	CAR	1	1/2	3	CC	GP For Steels	L	SE	-	YG1	YG-EM43593TE	\$46.95	C
	CAR	1	1/2	3	CC	GP For Steels	L	SE	-	YG1	YG-EM43593TF	\$45.88	C
	CAR	1	1/2	3	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1616-B	\$38.00	B
	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1216-B	\$32.83	B
	COB	1-1/4	1/2	3-1/4	CC	General Purpose	U	SE	Yes	MINICUT	MN880-0016	\$37.97	C
	COB	1-1/4	1/2	3-1/4	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-B	\$32.52	B
	COB	3	1/2	5	NC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-EB	\$42.68	B
9/16	CAR	1-1/4	9/16	3-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1818-B	\$65.32	B
5/8	CAR	1-1/4	5/8	3-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-2020-B	\$72.52	B
	CAR	1-1/4	5/8	3-1/2	NC	General Purpose	A	SE	-	IMCO Spector	IMCO-30991	\$81.94	C
	COB	1-3/8	5/8	5	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2020-B	\$68.01	B
	COB	1-5/8	5/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020-B	\$41.17	B
11/16	COB	1-5/8	5/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2022-B	\$52.54	B

3/4 & Larger Sizes Continued on Following Page

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# ENDMILLS-BALL END

## 4 FLUTE BALL END ENDMILLS (continued)

**Cobalt & Carbide**

For Steels & Stainless Steels

### ENDMILL LEGEND

MATERIAL	CUT	COATING	TYPE
COB= M42 Cobalt	CC= Center Cutting	U= Uncoated	SE= Single End
CAR= Carbide	NC= Non-Center Cutting	A= AlTiN Coated	DE= Double End
HSS= High Speed Steel		L= TiAlN Coated	
STE= Stellar One- HSS w/ Toughness of Cobalt		I= TiN Coated	
		C= TiCN Coated	



### 4 Flute Ball End Endmills (Cobalt & Carbide)- For Steels & Stainless Steels (continued)

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
3/4	CAR	1-1/2	3/4	4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-2424-B	\$106.74	B
	COB	1-5/8	3/4	3-7/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424-B	\$53.56	B
	COB	1-5/8	3/4	5-5/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2424-B	\$91.54	B
7/8	CAR	1-1/2	7/8	4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-2828-B	\$170.92	B
	COB	1-7/8	7/8	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2828-B	\$76.54	B
	COB	1-7/8	7/8	6-1/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2828-B	\$117.82	B
1	CAR	1-1/2	1	4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-3232-B	\$185.11	B
	COB	1-7/8	1	6-3/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-3232-B	\$137.45	B
	COB	2	1	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-3232-B	\$91.64	B

## BALL END MILLS

Long & Extra Long Length

2 & 4 Flute, Center Cutting, 30° Helix



### Long Length

Dia	Shank Dia	OAL	Flute Length	2-Flute Part Number	4-Flute Part Number	Price Each
3/16	3/16	2-1/2	3/4	MI-BLL1872	MI-BLL1874	\$24.75
1/4	1/4	3	1-1/8	MI-BLL2502	MI-BLL2504	\$29.80
5/16	5/16	3	1-1/8	MI-BLL3122	MI-BLL3124	\$34.65
3/8	3/8	3	1-1/8	MI-BLL3752	MI-BLL3754	\$39.40
7/16	7/16	4-1/2	2	MI-BLL4372	MI-BLL4374	\$62.30
1/2	1/2	4-1/2	2	MI-BLL5002	MI-BLL5004	\$68.35
5/8	5/8	5	2-1/4	MI-BLL6252	MI-BLL6254	\$120.9
3/4	3/4	5	2-1/4	MI-BLL7502	MI-BLL7504	\$184.4
1	1	5	2-1/4	MI-BLL0012	MI-BLL0014	\$279.3

### Extra Long Length

Dia	Shank Dia	OAL	Flute Length	2-Flute Part Number	4-Flute Part Number	Price Each
3/16	3/16	3	1-1/8	MI-BEL1872	MI-BEL1874	\$27.20
1/4	1/4	4	1-1/2	MI-BEL2502	MI-BEL2504	\$32.85
5/16	5/16	4	1-5/8	MI-BEL3122	MI-BEL3124	\$37.75
3/8	3/8	4	1-3/4	MI-BEL3752	MI-BEL3754	\$42.20
7/16	7/16	6	3	MI-BEL4372	MI-BEL4374	\$65.70
1/2	1/2	6	3	MI-BEL5002	MI-BEL5004	\$75.15
5/8	5/8	6	3	MI-BEL6252	MI-BEL6254	\$133.25
3/4	3/4	6	3	MI-BEL7502	MI-BEL7504	\$202.30
1	1	6	3	MI-BEL0012	MI-BEL0014	\$306.65

## LONG REACH BALL END MILLS

2 & 4 Flute Center Cutting - 30° Helix



Dia.	Shank Dia	OAL	Flute Length	Neck Length	2-Flute Part Number	4-Flute Part Number	Price Each
3/16	3/16	3	3/8	1-5/8	MI-BLR1872	MI-BLR1874	\$29.95
1/4	1/4	4	1/2	2	MI-BLR2502	MI-BLR2504	\$36.10
5/16	5/16	4	5/8	2	MI-BLR3122	MI-BLR3124	\$41.55
3/8	3/8	4	3/4	2	MI-BLR3752	MI-BLR3754	\$47.90
7/16	7/16	6	1	3-1/2	MI-BLR4372	MI-BLR4374	\$72.30
1/2	1/2	6	1	3-1/2	MI-BLR5002	MI-BLR5004	\$82.70
5/8	5/8	6	1-1/4	3-1/4	MI-BLR6252	MI-BLR6254	\$146.55
3/4	3/4	6	1-1/2	3	MI-BLR7502	MI-BLR7504	\$222.60
1	1	6	1-1/2	3	MI-BLR0012	MI-BLR0014	\$337.45

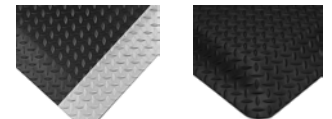
## DIAMOND PLATE SPONGECOTE

Anti-Fatigue Mats-No. 415

Diamond-Plate SpongeCote is the most popular anti-fatigue mat in the industry because no other offers such a complete package of exceptional comfort, long life, and a high-tech, industrial image. Its exceptionally resilient Nitricell sponge base defines the mat by providing true comfort, enhancing productivity, and reviving morale, all while relieving fatigue throughout the day. The safety-engineered surface adds traction and durability, and is ideal for heavily trafficked areas.



- For use in dry work areas
- Anti-fatigue
- Nitricell sponge base for unparalleled comfort
- Safety beveled edges
- Slip and wear resistant
- **3 Year Warranty**



Size	Thickness	Color	Part Number	Price
2' x 3'	9/16"	Black	WW-415916-2-3BK	\$41.84
		Blk/Yellow	WW-415916-2-3BY	\$47.68
3' x 5'	9/16"	Black	WW-415916-3-5BK	\$101.76
		Blk/Yellow	WW-415916-3-5BY	\$109.76

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