

SOLID CARBIDE ENDMILLS

C

SOLID CARBIDE ENDMILLS 2 FLUTE, SQUARE END



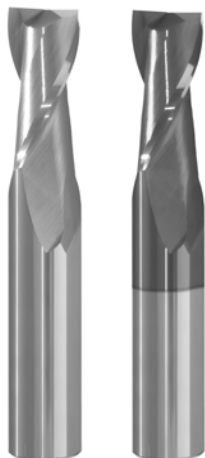
American Made Carbide End Mills
At High Speed Steel Prices!



- Premium sub-micron C-2 carbide with 10% cobalt
- 30° helix, right hand spiral, right hand cut
- Available uncoated, Tin coated and TiAIN coated
- Tolerances:
Cutting Dia: +.000/- .002
Shank Dia: +.0000/- .0005

Applications:
Slotting, pocketing and plunging

Materials:
Cast Iron, non-ferrous metals, plastics and abrasive materials



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	\$13.25	-	-	-	-
1/32	1/8	1/8	1-1/2	MO-EM001001-2	\$5.68	MO-EM001002-2	\$6.49	MO-EM001005-2	\$7.61
3/64	1/8	1/8	1-1/2	MO-EM001010-2	\$5.68	MO-EM001011-2	\$6.49	MO-EM001013-2	\$7.61
1/16	1/4	1/8	1-1/2	MO-EM001020-2	\$4.42	MO-EM001021-2	\$5.23	MO-EM001023-2	\$6.35
5/64	1/4	1/8	1-1/2	MO-EM001030-2	\$4.42	MO-EM001032-2	\$5.23	MO-EM001036-2	\$6.35
3/32	3/8	1/8	1-1/2	MO-EM001040-2	\$4.42	MO-EM001041-2	\$5.23	MO-EM001043-2	\$6.35
7/64	3/8	1/8	1-1/2	MO-EM001050-2	\$4.42	MO-EM001052-2	\$5.23	MO-EM001055-2	\$6.35
1/8	1/2	1/8	1-1/2	MO-EM001060-2	\$4.08	MO-EM001061-2	\$4.89	MO-EM001063-2	\$6.01
9/64	9/16	3/16	2	MO-EM001070-2	\$6.83	MO-EM001072-2	\$8.00	MO-EM001074-2	\$8.76
5/32	9/16	3/16	2	MO-EM001080-2	\$6.83	MO-EM001081-2	\$8.00	MO-EM001084-2	\$8.76
11/64	9/16	3/16	2	MO-EM001090-2	\$6.83	MO-EM001092-2	\$8.00	MO-EM001094-2	\$8.76
3/16	5/8	3/16	2	MO-EM001100-2	\$6.08	MO-EM001101-2	\$7.25	MO-EM001104-2	\$8.01
13/64	5/8	1/4	2-1/2	MO-EM001110-2	\$8.50	MO-EM001112-2	\$10.55	MO-EM001114-2	\$11.33
7/32	5/8	1/4	2-1/2	MO-EM001120-2	\$8.50	MO-EM001121-2	\$10.55	MO-EM001124-2	\$11.33
1/4	3/4	1/4	2-1/2	MO-EM001130-2	\$7.75	MO-EM001131-2	\$9.80	MO-EM001134-2	\$10.58
9/32	3/4	5/16	2-1/2	MO-EM001140-2	\$11.33	MO-EM001141-2	\$13.90	MO-EM001144-2	\$15.98
5/16	13/16	5/16	2-1/2	MO-EM001150-2	\$10.42	MO-EM001151-2	\$13.90	MO-EM001153-2	\$15.06
11/32	1	3/8	2-1/2	MO-EM001160-2	\$14.17	MO-EM001162-2	\$16.74	MO-EM001164-2	\$18.83
3/8	1	3/8	2-1/2	MO-EM001170-2	\$12.92	MO-EM001171-2	\$15.49	MO-EM001173-2	\$17.58
13/32	1	7/16	2-3/4	MO-EM001180-2	\$19.50	MO-EM001182-2	\$23.64	MO-EM001184-2	\$25.71
7/16	1	7/16	2-3/4	MO-EM001190-2	\$18.25	MO-EM001191-2	\$22.39	MO-EM001198-2	\$24.46
15/32	1	1/2	3	MO-EM001193-2	\$22.42	MO-EM001197-2	\$26.56	MO-EM001196-2	\$28.63
1/2	1	1/2	3	MO-EM001200-2	\$20.83	MO-EM001201-2	\$24.98	MO-EM001205-2	\$27.05
9/16	1-1/4	9/16	3-1/2	MO-EM001210-2	\$35.75	MO-EM001209-2	\$42.20	MO-EM001212-2	\$46.43
5/8	1-1/4	5/8	3-1/2	MO-EM001220-2	\$40.00	MO-EM001222-2	\$46.45	MO-EM001224-2	\$50.68
11/16	1-1/2	3/4	4	MO-EM001230-2	\$72.50	MO-EM001231-2	\$79.88	MO-EM001232-2	\$84.10
3/4	1-1/2	3/4	4	MO-EM001240-2	\$64.17	MO-EM001241-2	\$71.55	MO-EM001242-2	\$75.77
7/8	1-1/2	7/8	4	MO-EM001250-2	\$99.75	MO-EM001251-2	\$107.13	MO-EM001253-2	\$111.35
1	1-1/2	1	4	MO-EM001260-2	\$110.83	MO-EM001261-2	\$123.74	MO-EM001263-2	\$127.93

LATHES CHUCKS
LIVE CENTERS

WISE JAWS
WISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

SOLID CARBIDE ENDMILLS 4 FLUTE, SQUARE END



American Made Carbide End Mills
At High Speed Steel Prices!



- Premium sub-micron C-2 carbide with 10% cobalt
- 30° helix, right hand spiral, right hand cut
- Center cutting
- Increased core strength
- Available uncoated, Tin coated and TiAIN coated
- Tolerances:
Cutting Dia: +.000/- .002
Shank Dia: +.0000/- .0005

Materials:
Ferrous materials including stainless steel and high temperature alloys



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-EM001000-4	\$13.25	-	-	-	-
1/32	1/8	1/8	1-1/2	MO-EM001001-4	\$5.68	MO-EM001002-4	\$6.49	MO-EM001005-4	\$7.61
3/64	1/8	1/8	1-1/2	MO-EM001010-4	\$5.68	MO-EM001011-4	\$6.49	MO-EM001015-4	\$7.61
1/16	1/4	1/8	1-1/2	MO-EM001020-4	\$4.42	MO-EM001021-4	\$5.23	MO-EM001027-4	\$6.35
5/64	1/4	1/8	1-1/2	MO-EM001030-4	\$4.42	MO-EM001031-4	\$5.23	MO-EM001036-4	\$6.35
3/32	3/8	1/8	1-1/2	MO-EM001040-4	\$4.42	MO-EM001041-4	\$5.23	MO-EM001044-4	\$6.35
7/64	3/8	1/8	1-1/2	MO-EM001050-4	\$4.42	MO-EM001051-4	\$5.23	MO-EM001053-4	\$6.35
1/8	1/2	1/8	1-1/2	MO-EM001060-4	\$4.08	MO-EM001061-4	\$4.89	MO-EM001067-4	\$6.01
9/64	9/16	3/16	2	MO-EM001070-4	\$6.83	MO-EM001071-4	\$8.00	MO-EM001073-4	\$8.76
5/32	9/16	3/16	2	MO-EM001080-4	\$6.83	MO-EM001081-4	\$8.00	MO-EM001083-4	\$8.76
3/16	5/8	3/16	2	MO-EM001100-4	\$6.08	MO-EM001101-4	\$7.25	MO-EM001107-4	\$8.01
7/32	5/8	1/4	2-1/2	MO-EM001120-4	\$8.50	MO-EM001121-4	\$10.55	MO-EM001123-4	\$11.33
1/4	3/4	1/4	2-1/2	MO-EM001130-4	\$7.75	MO-EM001131-4	\$9.80	MO-EM001137-4	\$10.58
9/32	3/4	5/16	2-1/2	MO-EM001140-4	\$11.33	MO-EM001142-4	\$13.90	MO-EM001144-4	\$15.98
5/16	13/16	5/16	2-1/2	MO-EM001150-4	\$10.42	MO-EM001151-4	\$12.99	MO-EM001153-4	\$15.06
11/32	1	3/8	2-1/2	MO-EM001160-4	\$14.17	MO-EM001161-4	\$16.74	MO-EM001163-4	\$18.83
3/8	1	3/8	2-1/2	MO-EM001170-4	\$12.92	MO-EM001171-4	\$15.49	MO-EM001177-4	\$17.58
13/32	1	7/16	2-3/4	MO-EM001180-4	\$19.50	MO-EM001181-4	\$23.64	MO-EM001183-4	\$25.71
7/16	1	7/16	2-3/4	MO-EM001190-4	\$18.25	MO-EM001191-4	\$22.39	MO-EM001193-4	\$24.46
15/32	1	1/2	3	MO-EM001198-4	\$22.42	MO-EM001196-4	\$26.56	MO-EM001206-4	\$28.63
1/2	1	1/2	3	MO-EM001200-4	\$20.83	MO-EM001201-4	\$24.98	MO-EM001207-4	\$27.05
9/16	1-1/4	9/16	3-1/2	MO-EM001210-4	\$35.75	MO-EM001211-4	\$42.20	MO-EM001213-4	\$46.43
5/8	1-1/4	5/8	3-1/2	MO-EM001220-4	\$40.00	MO-EM001221-4	\$46.45	MO-EM001226-4	\$50.68
11/16	1-1/2	3/4	4	MO-EM001230-4	\$72.50	MO-EM001231-4	\$79.88	MO-EM001233-4	\$84.10
3/4	1-1/2	3/4	4	MO-EM001239-4	\$64.17	MO-EM001241-4	\$71.55	MO-EM001244-4	\$75.77
7/8	1-1/2	7/8	4	MO-EM001250-4	\$99.75	MO-EM001251-4	\$107.13	MO-EM001254-4	\$111.35
1	1-1/2	1	4	MO-EM001260-4	\$110.83	MO-EM001261-4	\$123.74	MO-EM001264-4	\$127.93

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

389

CHUCK JAWS
LATHE WORKHOLDING

ENDMILLS-2 FLUTE/SQUARE END

2 FLUTE ENDMILLS SQUARE END

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

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	



Minicut International
World Leader in Cutting Tool Technology



MACHINE VISES
MAGNETIC CHUCKS

2 Flute Square 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	CAR	3/32	1/8	1-1/2	NC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30601	\$8.50	C
	COB	3/32	3/16	2-1/4	CC	Miniature -Precision Milling	U	DE	-	YG1	YG-EM50252	\$9.54	C
3/64	CAR	1/8	1/8	1-1/2	NC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30603	\$8.50	C
	COB	9/64	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-601-1/2	\$14.69	B
1/16	CAR	1/8	1/8	1-1/2	CC	Hi Perf For Alum.	U	DE	-	IMCO Micrograin	IMCO-31803	\$11.28	C
	CAR	3/16	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30605	\$7.67	C
	COB	3/16	3/16	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-602	\$9.37	B
	COB	3/16	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-602	\$12.81	B
	COB	7/32	3/16	2-1/2	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-602-L	\$17.35	B
5/64	CAR	3/16	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30607	\$7.67	C
	COB	15/64	3/16	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-602-1/2	\$9.37	B
	COB	15/64	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-602-1/2	\$12.81	B
3/32	CAR	3/16	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM30556	\$5.20	C
	CAR	3/16	1/8	1-1/2	XX	GP For Alum. & Non Ferrous	A	DE	-	IMCO Spector	IMCO-31829	\$13.22	C
	CAR	3/8	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30609	\$7.34	C
	COB	9/32	3/16	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-603	\$9.37	B
	COB	9/32	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-603	\$12.81	B
	COB	9/32	3/16	2-1/4	CC	Miniature -Precision Milling	U	DE	-	YG1	YG-EM50260	\$8.65	C
7/64	CAR	3/8	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30611	\$7.34	C
1/8	CAR	1/4	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	No	MELIN	ME-AMGS-404	\$6.47	B
	CAR	3/8	1/8	2	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-404	\$10.29	B
	CAR	1/2	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AMG-404	\$6.79	B
	CAR	1/2	1/8	1-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01558	\$5.20	C
	COB	3/16	3/8	2-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1204	\$12.21	B
	COB	3/8	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-604	\$12.81	B
	COB	3/8	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1204	\$12.21	B
	COB	3/8	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01289	\$8.76	C
	COB	3/8	3/8	3-1/16	CC	GP For Alum. & Non Ferrous	U	DE	-	YG1	YG-EM11289	\$12.42	C
	COB	3/4	3/8	2-5/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1204-L	\$16.32	B
9/64	CAR	9/16	3/16	2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30615	\$10.08	C
	COB	13/32	3/16	2-1/4	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-B-604-1/2	\$12.81	B
	COB	3/4	3/16	3/4	CC	Miniature -Precision Milling	U	DE	-	YG1	YG-EM51266	\$9.93	C
5/32	CAR	5/16	3/16	2	CC	Hi Perf For Alum.	U	DE	-	IMCO Micrograin	IMCO-31809	\$14.97	C
	CAR	9/16	3/16	2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30617	\$10.08	C
11/64	CAR	5/8	3/16	2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30619	\$10.08	C

3/16" & Larger Sizes Continued On Following Page

RETENTION KNOBS
ER, DA, TG COLLETS

TOOLHOLDERS
TAP HOLDERS

INDEXABLE DRILLS
TURNING & BORING

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

We Offer A Large Variety Of Endmill Holders!

- CAT & BT Tapers
- Balanced Holders Available At An Unbeatable Price!



See Pages 175-232
For Our
LARGE VARIETY
Of Toolholders!



Z-AXIS TOOL SETTER



- FEATURES:**
- Positioning accuracy and repeatability: 0.0004"
 - Set "0" point with built-in dial indicator
 - Height: 2" or 4" (with magnetic base)
 - Dimensions: 1.45" x 1.45" x 2" height



Z-AXIS SETTER
2" Height
Part # A-4401-0050
\$89.94

With Magnetic Base
4" Height
Part # A-4401-0051
\$112.17



Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-2 FLUTE/SQUARE END

2 FLUTE ENDMILLS (continued) SQUARE END

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



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 Square 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
3/16	CAR	3/8	3/16	2	CC	Hi Perf For Alum.	U	DE	-	IMCO Micrograin	IMCO-31811	\$13.88	C
	CAR	1/2	3/8	3-1/4	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1206	\$25.84	B
	CAR	5/8	3/16	2	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01565	\$7.70	C
	COB	3/16	3/8	2-1/16	CC	Streakers - Hi Perf For Alum	U	SE	Yes	MELIN	ME-AS-1206	\$11.31	B
	COB	7/16	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1206	\$11.31	B
	COB	7/16	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01293	\$8.76	C
	COB	7/16	3/8	3-1/8	CC	GP For Alum. & Non Ferrous	U	DE	-	YG1	YG-EM11293	\$12.42	C
	COB	1/2	3/8	2-11/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1206	\$14.87	B
13/64	CAR	5/8	1/4	2-1/2	CC	Hi Helix For Alum.	U	SE	-	IMCO Micrograin	IMCO-30623	\$12.59	C
7/32	CAR	1/2	1/4	2-1/2	CC	GP For Alum. & Non Ferrous	U	DE	-	IMCO Micrograin	IMCO-31813	\$18.35	C
	CAR	5/8	1/4	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30625	\$12.59	C
15/64	CAR	3/4	1/4	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30627	\$12.59	C
1/4	CAR	1/2	1/4	2-1/2	CC	Hi Perf For Alum.	U	DE	-	IMCO Micrograin	IMCO-31815	\$17.63	C
	CAR	5/8	3/8	3-1/2	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-BMG-1207	\$31.43	B
	CAR	3/4	1/4	2-1/2	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Micrograin	IMCO-30629	\$11.17	C
	CAR	3/4	1/4	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32430	\$24.85	C
	CAR	3/4	1/4	2-1/2	CC	Streakers - Hi Perf For Alum	U	SE	-	YG1	YG-EM01573	\$9.70	C
	CAR	1-1/4	1/4	3	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32444	\$33.98	C
	CAR	1-1/2	1/4	4	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM54573	\$18.49	C
	COB	1/2	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01297	\$8.76	C
COB	1/2	3/8	3-1/8	CC	GP For Alum. & Non Ferrous	U	DE	-	YG1	YG-EM11297	\$12.42	C	
	HSS	1-1/4	3/8	3-1/16	CC	GP For Alum. & Non Ferrous	U	SE	-	MINICUT	MN280-0008	\$12.01	C
17/64	CAR	3/4	5/16	2-1/2	CC	Hi Helix For Alum.	U	SE	-	IMCO Micrograin	IMCO-30631	\$19.65	C
9/32	CAR	3/4	5/16	2-1/2	CC	Hi Perf For Alum.	U	SE	-	IMCO Micrograin	IMCO-30633	\$19.65	C
	COB	9/16	3/8	3-1/8	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-1209	\$17.77	B
5/16	CAR	1/2	5/16	2-1/2	CC	GP For Alum. & Non Ferrous	U	DE	-	IMCO Micrograin	IMCO-31817	\$22.75	C
	CAR	3/4	3/8	3-1/2	CC	Streakers - Hi Perf For Alum	U	DE	No	MELIN	ME-BMG-1210	\$34.29	B
	CAR	13/16	5/16	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32431	\$29.37	C
	CAR	7/8	5/16	2-1/2	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Micrograin	IMCO-30637	\$15.78	C
	CAR	1-3/8	5/16	3	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32445	\$43.08	C
	COB	5/16	3/8	2-1/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1210	\$11.49	B
	COB	9/16	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1210	\$11.49	B
	COB	9/16	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01301	\$8.76	C
COB	9/16	3/8	3-1/8	CC	GP For Alum. & Non Ferrous	U	DE	-	YG1	YG-EM11301	\$12.42	C	
	COB	3/4	3/8	3-5/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1210	\$15.16	B
HSS	1-3/8	3/8	3-1/8	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN280-0010	\$12.01	C	
3/8	CAR	9/16	3/8	2-1/2	CC	Hi Perf For Alum.	U	DE	-	IMCO Micrograin	IMCO-31819	\$23.45	C
	CAR	3/4	3/8	3-1/2	CC	GP For Alum. & Non Ferrous	U	DE	No	MELIN	ME-BMG-1212	\$35.77	B
	CAR	7/8	3/8	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30645	\$19.67	C
	CAR	7/8	3/8	2-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32432	\$32.17	C
	CAR	1	3/8	2-1/2	CC	Hi Perf For Alum.	U	SE	-	YG1	YG-EM01584	\$16.26	C
	CAR	1-1/2	3/8	3-1/4	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Streaker	IMCO-32446	\$46.46	C
	COB	3/8	3/8	2-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1212	\$11.49	B
	COB	9/16	3/8	2-5/16	CC	Streakers - Hi Perf For Alum	U	SE	Yes	MELIN	ME-A-1212	\$11.49	B
	COB	9/16	3/8	2-5/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01305	\$8.76	C
	COB	9/16	3/8	3-1/8	CC	Streakers - Hi Perf For Alum	U	DE	-	YG1	YG-EM11305	\$12.42	C
COB	3/4	3/8	3-5/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1212	\$15.09	B	
	COB	2-1/2	3/8	4-1/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1212-E	\$23.95	B
HSS	1-1/2	3/8	3-1/4	CC	GP For Alum. & Non Ferrous	U	SE	-	MINICUT	MN280-0012	\$12.01	C	
7/16	CAR	5/8	7/16	3	CC	Hi Helix For Alum.	U	DE	-	IMCO Micrograin	IMCO-31821	\$33.82	C
	CAR	1	7/16	2-3/4	XX	GP For Alum. & Non Ferrous	A	SE	-	IMCO Spector	IMCO-99467	\$31.79	C
	COB	7/16	3/8	2-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1214	\$17.75	B
	COB	13/16	1/2	3-3/4	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-1614	\$26.79	B

1/2" & Larger Sizes Continued On Following Page

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

391

LATHES CHUCKS
LIVE CENTERS

WISE JAWS
WISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

ENDMILLS-2 FLUTE/SQUARE END

2 FLUTE ENDMILLS (continued) SQUARE END

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



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 Square 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
1/2	CAR	1	1/2	3	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30661	\$32.17	C
	CAR	1	1/2	3	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Streaker	IMCO-32434	\$48.04	C
	CAR	1	1/2	3	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01593	\$26.80	C
	CAR	2	1/2	4	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Streaker	IMCO-32447	\$77.10	C
	COB	1/2	3/8	2-3/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1216	\$18.56	B
	COB	13/16	1/2	3-3/4	CC	GP For Alum. & Non Ferrous	U	DE	-	YG1	YG-EM11321	\$19.37	C
	COB	1	1/2	3	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01321	\$12.59	C
	COB	1	1/2	4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-1616	\$21.04	B
	COB	1-1/4	1/2	3-1/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AA-1616-M	\$24.42	B
	COB	1-1/2	1/2	3-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-M	\$23.09	B
	COB	2	1/2	4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-L	\$23.82	B
	COB	2	1/2	4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AA-1616-L	\$27.39	B
COB	3	1/2	5	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1616-E	\$29.81	B	
HSS	2	1/2	4	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN280-0016	\$17.03	C	
HSS	3	1/2	5	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN285-0016	\$20.12	C	
17/32	COB	1-1/8	1/2	3-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1617	\$23.40	B
9/16	CAR	1-1/8	9/16	3-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30663	\$57.00	C
	CAR	1-1/4	9/16	3-1/2	CC	GP For Alum. & Non Ferrous	U	SE	No	MELIN	ME-AMG-1818	\$53.41	B
	COB	1-1/8	1/2	3-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-1618	\$20.99	B
5/8	CAR	1-1/4	5/8	3-1/2	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30665	\$62.00	C
	CAR	1-1/4	5/8	3-1/2	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Streaker	IMCO-32436	\$94.82	C
	COB	5/8	1/2	2-3/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1620	\$23.57	B
	COB	1-5/16	5/8	3-7/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01337	\$19.91	C
	COB	1-3/8	5/8	4-5/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-2020	\$31.14	B
	HSS	2	5/8	4-1/8	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN276-0020	\$22.43	C
11/16	COB	1-5/16	5/8	3-7/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2022	\$26.79	B
	COB	1-5/16	3/4	5	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-2422	\$50.76	B
3/4	CAR	1-1/2	3/4	4	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30669	\$90.83	C
	COB	1-5/16	5/8	3-7/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2024	\$27.21	B
	COB	1-5/16	3/4	3-7/16	CC	GP For Alum. & Non Ferrous	U	SE	-	YG1	YG-EM01359	\$22.16	C
	COB	1-5/16	3/4	3-9/16	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2424	\$27.21	B
	COB	1-5/8	3/4	3-7/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AA-2424	\$34.34	B
	COB	1-5/8	3/4	5-3/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AN-2424	\$40.23	B
	COB	2-1/4	3/4	4-1/2	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2424-M	\$39.12	B
	COB	3	3/4	5-1/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2424-L	\$47.42	B
	HSS	1-5/8	3/4	3-7/8	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN275-0024	\$20.55	C
	HSS	2-1/4	3/4	4-1/2	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN276-0024	\$24.93	C
13/16	COB	1-1/2	5/8	3-5/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2026	\$34.91	B
	COB	1-1/2	3/4	3-3/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2426	\$36.08	B
	COB	1-9/16	7/8	5-1/2	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-2826	\$64.30	B
7/8	CAR	1-1/2	7/8	4	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30673	\$133.60	C
	CAR	1-1/2	7/8	4	CC	GP For Alum. & Non Ferrous	U	SE	No	MELIN	ME-AMG-2828	\$137.89	B
	COB	5/8	1/2	2-5/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-AS-1628	\$39.05	B
	COB	1-1/2	3/4	3-3/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2428	\$36.59	B
	COB	1-9/16	7/8	5-1/2	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-2828	\$64.30	B
15/16	COB	1-5/8	1	5-7/8	CC	GP For Alum. & Non Ferrous	U	DE	Yes	MELIN	ME-B-3230	\$75.54	B
1	CAR	1-1/2	1	4	CC	GP For Alum. & Non Ferrous	U	SE	-	IMCO Micrograin	IMCO-30677	\$140.84	C
	CAR	2	1	4-1/2	CC	Streakers - Hi Perf For Alum	U	SE	-	IMCO Streaker	IMCO-32450	\$222.39	C
	COB	1-1/2	7/8	3-3/4	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-2832	\$45.05	B
	COB	1-5/8	1	4-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MELIN	ME-A-3232	\$45.09	B
	HSS	3	1	5-1/2	CC	Hi Helix For Alum.	U	SE	-	MINICUT	MN276-0032	\$44.03	C
1-1/4	COB	1-5/8	1-1/4	4-1/8	CC	GP For Alum. & Non Ferrous	U	SE	Yes	MINICUT	MN850-0040	\$61.49	C

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-3 FLUTE/SQUARE END

3 FLUTE ENDMILLS SQUARE END

Cobalt & Carbide
For Finishing Non-Ferrous Materials & Hard Alloys



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	

ALSO AVAILABLE!



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

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Helix Angle	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/16	CAR	1/8	1/8	1-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-402	\$7.16	B
	CAR	3/16	1/8	1-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-402	\$6.99	B
1/8	CAR	1/4	1/8	1-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62108	\$16.50	C
	CAR	1/4	1/8	1-1/2	CC	Stainless Steels	-	A	SE	-	YG1 Jet Power	YG-EM57558TF	\$15.35	C
	CAR	1/4	1/8	1-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-404	\$6.47	B
	CAR	1/2	1/8	1-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62308	\$17.45	C
	CAR	1/2	1/8	1-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-404	\$6.79	B
	CAR	3/4	1/8	3	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-404-L	\$10.23	B
	COB	3/8	3/8	2-5/16	CC	Light Mach-Alum./Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1204	\$14.03	B
3/16	CAR	5/16	3/16	2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62112	\$18.23	C
	CAR	3/8	3/16	1-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-606	\$8.61	B
	CAR	9/16	3/16	2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62312	\$19.14	C
	CAR	5/8	3/16	2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-606	\$9.47	B
	CAR	3/4	3/16	3	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-606-L	\$12.82	B
	COB	1/2	3/8	2-3/8	CC	Light Mach-Alum./Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1206	\$14.03	B
7/32	CAR	3/8	1/4	2	CC	Stainless Steels	-	A	SE	-	YG1 Jet Power	YG-EM57570TF	\$25.81	C
	CAR	3/4	1/4	2-1/2	CC	Stainless Steels	-	A	SE	-	YG1 Jet Power	YG-EM56570TC	\$27.96	C
1/4	CAR	3/8	1/4	2	CC	Stainless Steels	-	A	SE	-	YG1 Jet Power	YG-EM57573TF	\$23.61	C
	CAR	3/8	1/4	2-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO	IMCO-62116	\$21.03	C
	CAR	1/2	1/4	2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-808	\$10.15	B
	CAR	3/4	1/4	2-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62316	\$22.61	C
	CAR	3/4	1/4	2-1/2	CC	Gp For Steels	-	A	SE	-	YG1 Jet Power	YG-EM95065	\$19.03	C
	CAR	3/4	1/4	2-1/2	CC	Hard Alloys	60° HI	I	SE	-	IMCO Aucarb	IMCO-37517	\$18.78	C
	CAR	3/4	1/4	2-1/2	CC	Hard Alloys	60° HI	U	SE	-	IMCO Micrograin	IMCO-37516	\$15.99	C
	CAR	3/4	1/4	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-808	\$12.21	B
	CAR	3/4	1/4	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG60-808	\$15.12	B
	CAR	1-1/8	1/4	3	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-808-L	\$16.20	B
COB	5/8	3/8	2-7/16	CC	Light Mach-Alum./Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1208	\$14.39	B	
5/16	CAR	7/16	5/16	2	CC	Stainless Steels	-	A	SE	-	YG1 Jet Power	YG-EM57579TF	\$30.82	C
	CAR	7/16	5/16	2-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62120	\$27.76	C
	CAR	1/2	5/16	2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-1010	\$15.09	B
	CAR	13/16	5/16	2-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62320	\$29.69	C
	CAR	13/16	5/16	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1010	\$15.87	B
	CAR	1-1/8	5/16	3	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1010-L	\$18.05	B
	COB	3/4	3/8	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1210	\$14.39	B
3/8	CAR	1/2	3/8	2	CC	Stainless Steels	-	A	SE	-	YG1	YG-EM83584TF	\$27.41	C
	CAR	5/8	3/8	2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-1212	\$18.54	B
	CAR	7/8	3/8	2-1/2	CC	Hard Alloys	60° HI	I	SE	-	IMCO AuCARB	IMCO-37525	\$30.91	C
	CAR	7/8	3/8	2-1/2	CC	Hard Alloys	60° HI	U	SE	-	IMCO Micrograin	IMCO-37524	\$26.58	C
	CAR	1	3/8	2-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO Enduro	IMCO-62324	\$35.63	C
	CAR	1	3/8	2-1/2	CC	GP For Steels	-	A	SE	-	YG1 Jet Power	YG-EM95067	\$30.36	C
	CAR	1	3/8	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1212	\$18.27	B
	CAR	1-1/8	3/8	3	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1212-L	\$25.65	B
	COB	3/4	3/8	2-1/2	CC	Light Mach-Alum./Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1212	\$14.39	B
	HSS	3/4	3/8	2-1/2	CC	Hi Helix For Aluminum	-	U	SE	-	MINICUT	MN310-1208	\$12.26	C
HSS	1-1/2	3/8	3-1/4	CC	Hi Helix For Aluminum	-	U	SE	-	MINICUT	MN310-1215	\$14.02	C	
7/16	CAR	1	7/16	2-3/4	CC	Light Mach-Alum./Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1414	\$25.91	B

1/2" & Larger Sizes Continued On Following Page

Call Us Or Visit Our Website For Our Complete Selection!

LATHES CHUCKS
LIVE CENTERS
VISE ACCESSORIES
VISE JAWS
STRAIGHT SHANK COLLET HOLDERS
LATHE BUSHINGS
DRILL CHUCKS
CARBIDE INSERTS
THREADING/GROOVING
CUTTING TOOLS
MACHINERY
PRECISION TOOLS
DEBURRING
COOLANT/FLUIDS
TOOL STORAGE

ENDMILLS-3 FLUTE/SQUARE END

3 FLUTE ENDMILLS (continued) SQUARE END

Cobalt & Carbide
For Finishing Non-Ferrous Materials & Hard Alloys



ALSO AVAILABLE!



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	



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

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Helix Angle	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/2	CAR	5/8	1/2	2-1/2	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-1616	\$29.96	B
	CAR	5/8	1/2	3	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62132	\$48.04	C
	CAR	1	1/2	3	CC	GP For Steels	-	A	SE	-	YG1 Jet Power	YG-EM95068	\$47.25	C
	CAR	1	1/2	3	CC	Hard Alloys	60° HI	I	SE	-	IMCO AuCARB	IMCO-37533	\$48.59	C
	CAR	1	1/2	3	CC	Hard Alloys	60° HI	U	SE	-	IMCO Micrograin	IMCO-37532	\$42.53	C
	CAR	1	1/2	3	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG60-1616	\$40.66	B
	CAR	1-1/4	1/2	3	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62332	\$52.80	C
	CAR	1-1/4	1/2	3	CC	Stainless Steels	-	A	SE	-	YG1 JetPower	YG-EM56593TF	\$59.19	C
	CAR	2	1/2	4	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG-1616-L	\$38.72	B
	COB	1	3/8	2-11/16	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1216	\$18.99	B
HSS	2	1/2	4	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-1620	\$19.00	C	
9/16	COB	1-3/8	1/2	3-3/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1618	\$28.42	B
5/8	CAR	3/4	5/8	3	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMGS-2020	\$56.47	B
	CAR	3/4	5/8	3-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62136	\$101.59	C
	CAR	1-1/4	5/8	3-1/2	CC	Hard Alloys	60° HI	I	SE	-	IMCO AuCARB	IMCO-37541	\$92.89	C
	CAR	1-1/4	5/8	3-1/2	CC	Hard Alloys	60° HI	U	SE	-	IMCO Micrograin	IMCO-37540	\$82.85	C
	CAR	1-1/4	5/8	3-1/2	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG60-2020	\$75.84	B
	CAR	1-5/8	5/8	3-1/2	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62336	\$111.63	C
	CAR	2-1/4	5/8	5	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG-2020-L	\$76.94	B
	CAR	3	5/8	6	NC	Light Mach-Alum. & Non Ferrous	-	A	SE	-	IMCO Micrograin	IMCO-33797	\$92.95	C
COB	1-3/8	1/2	3-3/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1620	\$28.42	B	
11/16	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1622	\$35.91	B
3/4	CAR	1	3/4	4	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62140	\$129.74	C
	CAR	1-1/2	3/4	4	CC	Hard Alloys	60° HI	I	SE	-	IMCO AuCARB	IMCO-37549	\$133.68	C
	CAR	1-1/2	3/4	4	CC	Hard Alloys	60° HI	U	SE	-	IMCO Micrograin	IMCO-37548	\$119.15	C
	CAR	1-5/8	3/4	4	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62340	\$142.97	C
	CAR	2-1/4	3/4	5	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG-2424-L	\$113.93	B
	CAR	2-1/4	3/4	5	NC	Light Mach-Alum. & Non Ferrous	-	U	SE	-	IMCO Micrograin	IMCO-33789	\$116.67	C
	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1624	\$32.04	B
	HSS	1-5/8	3/4	3-7/8	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-2416	\$26.22	C
13/16	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1626	\$40.74	B
	COB	1-7/8	5/8	4	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-2026	\$40.74	B
	COB	1-7/8	3/4	4-1/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-2426	\$46.28	B
27/32	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1627	\$45.52	B
7/8	COB	1-5/8	1/2	3-5/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1628	\$41.78	B
	COB	1-7/8	5/8	4	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-2028	\$45.64	B
15/16	COB	1-7/8	1/2	3-7/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-1630	\$52.42	B
1	CAR	1-1/8	1	4	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62148	\$205.46	C
	CAR	1-1/2	1	4	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	No	MELIN	ME-EMG60-3232	\$165.29	B
	CAR	2	1	4	CC	Stainless Steels	40°	A	SE	-	IMCO EnDuro	IMCO-62348	\$226.29	C
	COB	1-7/8	3/4	4-1/8	CC	Light Mach-Alum. & Non Ferrous	-	U	SE	Yes	MELIN	ME-E-2432	\$50.96	B
	HSS	2	1	4-1/2	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-3220	\$36.82	C
1	HSS	3	1	5-1/2	CC	Light Mach-Alum. & Non Ferrous	-	C	SE	-	MINICUT	MNTC820-3230	\$85.99	C
	HSS	3	1	5-1/2	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-3230	\$45.08	C
	HSS	4	1	6-1/2	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-3240	\$52.60	C
	HSS	6	1	8-1/2	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-3260	\$64.28	C
	1-1/4	HSS	4	1-1/4	6-1/2	CC	Hi Helix For Alum.	-	U	SE	-	MINICUT	MN310-4040	\$75.98

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-4 FLUTE/SQUARE END

4 FLUTE ENDMILLS SQUARE END

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	



Minicut International
World Leader in Cutting Tool Technology



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

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flat	Vendor	Part Number	Price Each	Code
1/32	CAR	3/32	1/8	1-1/2	NC	General Purpose	U	SE	No	IMCO	IMCO-30701	\$8.50	C
3/64	CAR	1/8	1/8	1-1/2	NC	General Purpose	U	SE	No	IMCO	IMCO-30703	\$8.50	C
1/16	CAR	1/8	1/8	1-1/2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31904	\$13.58	C
	CAR	1/8	1/8	1-1/2	CC	General Purpose	U	DE	-	IMCO Micrograin	IMCO-31903	\$11.28	C
	CAR	3/16	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07554TF	\$7.19	C
	CAR	3/16	1/8	1-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07554	\$5.20	C
	CAR	3/16	1/8	1-1/2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93093	\$10.67	C
	COB	3/16	3/16	1-1/2	NC	General Purpose	U	SE	No	MELIN	ME-C-602	\$9.49	B
	COB	3/16	3/16	2-1/4	CC	Miniature- Prec. Milling	U	DE	-	YG1	YG-EM53256	\$8.65	C
	COB	3/16	3/16	2-1/4	NC	General Purpose	U	DE	No	MELIN	ME-D-602	\$12.81	B
5/64	COB	7/32	3/16	2-1/2	NC	General Purpose	U	DE	No	MELIN	ME-D-602-L	\$17.77	B
	COB	15/64	3/16	2-1/4	NC	General Purpose	U	DE	No	MELIN	ME-D-602-1/2	\$12.81	B
	COB	1/4	3/16	1-1/2	NC	General Purpose	U	SE	No	MELIN	ME-C-602-1/2	\$9.49	B
	CAR	3/16	1/8	1-1/2	CC	GP For Steels	U	DE	-	YG1	YG-EM33556	\$8.42	C
3/32	CAR	3/8	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07556TF	\$7.19	C
	CAR	3/8	1/8	1-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07556	\$5.20	C
	COB	9/64	3/16	2	NC	General Purpose	U	DE	No	MELIN	ME-DS-603	\$11.97	B
	COB	9/32	3/16	2-1/4	NC	General Purpose	U	DE	No	MELIN	ME-D-603	\$12.81	B
7/64	CAR	3/8	1/8	1-1/2	CC	GP For Steels	C	SE	-	YG1	YG-EM07557TC	\$7.72	C
	CAR	3/8	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07557TF	\$7.72	C
	COB	5/32	3/16	2	NC	General Purpose	U	DE	No	MELIN	ME-DS-603-1/2	\$11.97	B
1/8	CAR	1/4	1/8	1-1/2	CC	GP For Steels	L	DE	-	YG1	YG-EM33558TF	\$10.52	C
	CAR	1/4	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM31558TF	\$7.19	C
	CAR	1/4	1/8	1-1/2	CC	GP For Steels	U	DE	-	YG1	YG-EM33558	\$8.02	C
	CAR	3/8	3/8	3-1/16	CC	GP For Steels	U	DE	-	YG1	YG-EM13559	\$20.17	C
	CAR	1/2	1/8	1-1/2	CC	GP For Steels	C	SE	-	YG1	YG-EM07558TE	\$7.41	C
	CAR	1/2	1/8	1-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07558TF	\$7.19	C
	CAR	1/2	1/8	1-1/2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30713	\$6.75	C
	CAR	1/2	1/8	1-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-404	\$6.79	B
	CAR	1/2	1/8	1-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07558	\$5.20	C
	CAR	1/2	1/8	1-1/2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93094	\$10.67	C
	COB	3/16	3/16	2	NC	General Purpose	U	DE	No	MELIN	ME-DS-604	\$11.97	B
	COB	3/8	3/16	2-1/4	NC	General Purpose	U	DE	No	MELIN	ME-D-604	\$12.81	B
	COB	3/8	3/8	2-5/16	CC	GP For Steels	U	SE	-	YG1	YG-EM07289	\$10.02	C
	COB	3/8	3/8	3-1/16	CC	GP For Steels	U	DE	-	YG1	YG-EM13289	\$13.92	C
	COB	1/2	3/8	2-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1204-M	\$17.06	B
	COB	1/2	3/8	3-1/4	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1204-M	\$18.99	B
COB	5/8	3/8	3-9/16	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1204-L	\$20.25	B	
COB	3/4	3/8	2-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1204-L	\$17.65	B	
9/64	COB	27/64	3/16	2-1/4	NC	General Purpose	U	DE	No	MELIN	ME-D-604-1/2	\$12.81	B
5/32	CAR	5/16	3/16	2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31910	\$17.90	C
	CAR	5/16	3/16	2	CC	GP For Steels	U	DE	-	YG1	YG-EM33561	\$11.23	C
	CAR	9/16	3/16	2	CC	GP For Steels	L	SE	-	YG1	YG-EM07561TF	\$10.25	C
	CAR	9/16	3/16	2	CC	GP For Steels	U	SE	-	YG1	YG-EM07561	\$7.70	C
	COB	15/64	3/16	2	NC	General Purpose	U	DE	No	MELIN	ME-DS-605	\$11.97	B
	COB	7/16	3/8	2-5/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1205	\$12.45	B
	COB	5/8	3/8	2-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1205-M	\$17.06	B
	COB	3/4	3/8	2-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1205-L	\$17.65	B

11/64" & Larger Sizes Continued On Following Page

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

395

LATHE CHUCKS
LIVE CENTERS

WISE JAWS
WISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHE BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

ENDMILLS-4 FLUTE/SQUARE END

4 FLUTE ENDMILLS (continued) SQUARE END 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 Square 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	
11/64	CAR	5/8	3/16	2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30719	\$10.08	C	
3/16	CAR	3/8	3/16	2	CC	GP For Steels	L	DE	-	YG1	YG-EM33565TF	\$14.44	C	
	CAR	3/8	3/16	2	CC	GP For Steels	U	DE	-	YG1	YG-EM33565	\$11.23	C	
	CAR	1/2	3/8	3-1/4	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1206	\$25.84	B	
	CAR	1/2	3/8	3-1/4	CC	GP For Steels	U	DE	-	YG1	YG-EM13567	\$22.12	C	
	CAR	5/8	3/16	2	CC	GP For Steels	L	SE	-	YG1	YG-EM07565TE	\$10.54	C	
	CAR	5/8	3/16	2	CC	GP For Steels	L	SE	-	YG1	YG-EM07565TF	\$10.25	C	
	CAR	5/8	3/16	2	CC	GP For Steels	U	SE	-	YG1	YG-EM07565	\$7.70	C	
	CAR	5/8	3/16	2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93095	\$11.99	C	
	CAR	5/8	3/16	2	NC	General Purpose	A	SE	-	IMCO Spector	IMCO-30520	\$11.63	C	
	COB	3/16	3/8	2-1/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1206	\$12.21	B	
	COB	9/32	3/8	2-3/4	CC	General Purpose	U	DE	Yes	MELIN	ME-DDS-1206	\$14.99	B	
	COB	1/2	3/8	2-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1206	\$12.45	B	
	COB	1/2	3/8	2-3/8	CC	GP For Steels	U	SE	-	YG1	YG-EM07293	\$10.02	C	
	COB	1/2	3/8	3-1/4	CC	GP For Steels	U	DE	-	YG1	YG-EM13293	\$13.92	C	
13/64	COB	5/8	3/8	2-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1206-M	\$17.06	B	
	COB	3/4	3/8	2-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1206-L	\$17.65	B	
	COB	7/8	3/8	4-1/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1206-L	\$19.46	B	
	COB	1-1/4	3/8	3-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1206-E	\$19.91	B	
	CAR	5/8	1/4	2-1/2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30723	\$12.59	C	
	7/32	CAR	1/2	1/4	2-1/2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31914	\$23.24	C
		CAR	5/8	1/4	2-1/2	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30726	\$15.56	C
		CAR	5/8	1/4	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07570TF	\$13.65	C
COB		1/4	3/8	2-3/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1207	\$12.21	B	
COB		1/2	3/8	2-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1207	\$12.45	B	
COB		7/8	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1207-M	\$17.06	B	
COB		1-1/4	3/8	3-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1207-L	\$17.65	B	
15/64	COB	1-1/2	3/8	3-5/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1207-E	\$20.78	B	
	CAR	3/4	1/4	2-1/2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30727	\$12.59	C	
	1/4	CAR	1/2	1/4	2	CC	GP For Steels	L	SE	-	YG1	YG-EM31573TF	\$13.65	C
		CAR	1/2	1/4	2-1/2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31916	\$22.85	C
		CAR	1/2	1/4	2-1/2	CC	GP For Steels	L	DE	-	YG1	YG-EM33573TF	\$19.64	C
		CAR	1/2	1/4	2-1/2	CC	GP For Steels	U	DE	-	YG1	YG-EM33573	\$13.10	C
		CAR	3/4	1/4	2-1/2	CC	GP For Steels	C	SE	-	YG1	YG-EM07573TC	\$13.65	C
		CAR	3/4	1/4	2-1/2	CC	GP For Steels	C	SE	-	YG1	YG-EM07573TE	\$14.09	C
		CAR	3/4	1/4	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07573TF	\$13.65	C
		CAR	3/4	1/4	2-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-808	\$12.21	B
		CAR	3/4	1/4	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07573	\$9.70	C
		CAR	3/4	1/4	2-1/2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93096	\$14.58	C
	COB	1-1/8	1/4	3	CC	GP For Steels	L	SE	-	YG1	YG-EM08573TF	\$16.95	C	
	COB	1-1/2	1/4	4	NC	General Purpose	A	SE	-	IMCO Spector	IMCO-98978	\$25.19	C	
	COB	1/4	3/8	2-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1208	\$12.21	B	
	COB	5/8	3/8	2-7/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208	\$12.45	B	
	COB	5/8	3/8	2-7/16	CC	GP For Steels	U	SE	-	YG1	YG-EM07297	\$10.02	C	
	COB	5/8	3/8	2-7/16	NC	GP For Steels	U	SE	-	YG1	YG-EM04297	\$8.76	C	
COB	5/8	3/8	3-3/8	CC	GP For Steels	U	DE	-	YG1	YG-EM13297	\$13.92	C		
COB	5/8	3/8	3-3/8	NC	GP For Steels	U	DE	-	YG1	YG-EM12297	\$12.42	C		
COB	7/8	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-M	\$17.06	B		
COB	1-1/4	3/8	3-1/16	CC	GP For Steels	U	SE	-	YG1	YG-EM08297	\$13.03	C		
COB	1-3/4	3/8	3-9/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-E	\$20.01	B		
COB	2-1/4	3/8	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1208-EE	\$28.13	B		

17/64" & Larger Sizes Continued On Following Page

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-4 FLUTE/SQUARE END

4 FLUTE ENDMILLS (continued) SQUARE END

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	



Minicut
International
World Leader in Cutting Tool Technology



4 Flute Square 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
17/64	CAR	3/4	5/16	2-1/2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30731	\$19.65	C
9/32	COB	5/16	3/8	2-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1209	\$12.75	B
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1209-M	\$17.06	B
	COB	1-3/4	3/8	3-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1209-E	\$22.22	B
5/16	CAR	1/2	5/16	2-1/2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31918	\$30.19	C
	CAR	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1210	\$34.29	B
	CAR	13/16	5/16	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07579TF	\$19.50	C
	CAR	13/16	5/16	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07579	\$11.75	C
	CAR	13/16	5/16	2-1/2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93097	\$21.07	C
	CAR	7/8	5/16	2-1/2	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30738	\$20.21	C
	COB	5/16	3/8	2-1/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1210	\$12.75	B
	COB	3/4	3/8	2-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1210	\$13.00	B
	COB	3/4	3/8	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07301	\$10.02	C
	COB	3/4	3/8	3-1/2	CC	GP For Steels	U	DE	-	YG1	YG-EM13301	\$13.92	C
21/64	COB	3/4	3/8	3-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1210-M	\$16.27	B
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1210-L	\$16.75	B
	COB	1-3/8	3/8	3-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1210-E	\$21.79	B
	COB	2	3/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1211-E	\$21.82	B
	COB	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-1210-1/2	\$18.07	B
11/32	COB	3/8	3/8	2-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1211	\$12.75	B
	COB	3/4	3/8	2-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1211	\$13.00	B
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1211-M	\$17.06	B
	COB	1-1/2	3/8	3-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1211-L	\$17.90	B
	COB	2-1/2	3/8	4-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1211-E	\$21.82	B
3/8	CAR	9/16	3/8	2-1/2	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31920	\$31.47	C
	CAR	3/4	3/8	3-1/2	CC	General Purpose	U	DE	Yes	MELIN	ME-DDMG-1212	\$35.77	B
	CAR	7/8	3/8	2-1/2	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30746	\$24.18	C
	CAR	1	3/8	2-1/2	CC	GP For Steels	C	SE	-	YG1	YG-EM07584TE	\$24.87	C
	CAR	1	3/8	2-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07584TF	\$24.00	C
	CAR	1	3/8	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07584	\$16.26	C
	CAR	1	3/8	2-1/2	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93098	\$24.92	C
	CAR	1	3/8	2-1/2	CC	General Purpose	A	SE	-	IMCO Spector	IMCO-39598	\$29.25	C
	CAR	1	3/8	2-1/2	CC	General Purpose	A	SE	-	IMCO Spector	IMCO-39605	\$29.25	C
	COB	3/8	3/8	2-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1212	\$12.75	B
	COB	3/4	3/8	2-1/2	CC	General Purpose	U	SE	-	MINICUT	MN860-1208	\$12.30	C
	COB	3/4	3/8	2-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07305	\$10.02	C
	COB	3/4	3/8	2-1/2	NC	GP For Steels	U	SE	-	YG1	YG-EM04305	\$8.76	C
	COB	3/4	3/8	3-1/2	CC	GP For Steels	U	DE	-	YG1	YG-EM13305	\$13.92	C
	COB	3/4	3/8	3-1/2	NC	GP For Steels	U	DE	-	YG1	YG-EM12305	\$12.42	C
	COB	1	3/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1212-M	\$16.27	B
	COB	1-1/2	3/8	3-1/4	CC	General Purpose	U	SE	-	MINICUT	MN860-1215	\$17.85	C
COB	2-1/2	3/8	4-1/4	CC	General Purpose	U	SE	Yes	MINICUT	MN875-0012	\$21.23	C	
HSS	3/4	3/8	2-1/2	CC	General Purpose	L	SE	-	MINICUT	MNTA811-1208	\$27.68	C	
HSS	3/4	3/8	2-1/2	CC	General Purpose	L	SE	-	MINICUT	MNTA816-1208	\$27.68	C	
HSS	1-3/8	3/8	3-1/8	CC	General Purpose	L	SE	-	MINICUT	MNTA811-1213	\$35.22	C	
HSS	1-3/8	3/8	3-1/8	CC	General Purpose	L	SE	-	MINICUT	MNTA816-1213	\$35.22	C	
13/32	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1213	\$17.77	B

7/16" & Larger Sizes Continued On Following Page

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

397

LATHES CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

ENDMILLS-4 FLUTE/SQUARE END

4 FLUTE ENDMILLS (continued)

SQUARE END

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 Square 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
7/16	CAR	5/8	7/16	3	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31922	\$43.68	C
	CAR	1	7/16	2-3/4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1414	\$25.91	B
	CAR	1	7/16	2-3/4	CC	General Purpose	A	SE	-	IMCO Spector	IMCO-31040	\$31.79	C
	CAR	1	7/16	2-3/4	CC	General Purpose	I	SE	-	IMCO AuCARB	IMCO-37754	\$31.59	C
	COB	9/16	3/8	2-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-1214	\$17.52	B
	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1214	\$17.77	B
	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	-	MINICUT	MN860-1410	\$19.24	C
	COB	1	3/8	2-11/16	CC	GP For Steels	U	SE	-	YG1	YG-EM07312	\$15.03	C
	COB	1-3/4	1/2	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1614-L	\$28.66	B
	COB	2-3/4	1/2	4-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1614-E	\$33.24	B
15/32	COB	1-1/4	1/2	3-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1615	\$19.53	B
1/2	CAR	5/8	1/2	3	CC	General Purpose	I	DE	-	IMCO AuCARB	IMCO-31924	\$50.90	C
	CAR	1	1/2	3	CC	GP For Steels	C	SE	-	YG1	YG-EM07593TE	\$37.50	C
	CAR	1	1/2	3	CC	GP For Steels	C	SE	-	YG1	YG-EM07593TN	\$32.88	C
	CAR	1	1/2	3	CC	GP For Steels	L	SE	-	YG1	YG-EM07593TF	\$36.43	C
	CAR	1	1/2	3	CC	GP For Steels	U	SE	-	YG1	YG-EM07593	\$26.80	C
	CAR	1	1/2	3	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93099	\$39.71	C
	CAR	1	1/2	3	CC	General Purpose	A	SE	-	IMCO Spector	IMCO-39704	\$46.73	C
	CAR	2	1/2	4	CC	GP For Steels	L	SE	-	YG1	YG-EM08593TF	\$48.88	C
	CAR	2	1/2	4	CC	GP For Steels	U	SE	-	YG1	YG-EM08593	\$36.37	C
	COB	1	3/8	2-11/16	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1216	\$17.77	B
	COB	1	1/2	4-1/8	CC	GP For Steels	U	DE	-	YG1	YG-EM13321	\$20.31	C
	COB	1	1/2	4-1/8	NC	GP For Steels	U	DE	-	YG1	YG-EM12321	\$19.37	C
	COB	1-1/4	1/2	3-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616	\$16.57	B
	COB	1-1/4	1/2	3-1/4	CC	General Purpose	U	SE	Yes	MINICUT	MN865-0016	\$19.30	C
	COB	1-1/4	1/2	3-1/4	CC	GP For Steels	U	SE	-	YG1	YG-EM07321	\$15.03	C
	COB	1-1/4	1/2	3-1/4	NC	GP For Steels	U	SE	-	YG1	YG-EM04321	\$12.59	C
	COB	1-5/8	1/2	3-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-M	\$23.46	B
	COB	2	1/2	4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-L	\$21.89	B
	COB	2	1/2	4	CC	General Purpose	U	SE	-	MINICUT	MN860-1620	\$23.67	C
	COB	2	1/2	4	CC	General Purpose	U	SE	Yes	MINICUT	MN870-0016	\$23.67	C
COB	3	1/2	5	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-E	\$27.92	B	
COB	4	1/2	6	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1616-EE	\$34.40	B	
HSS	1-1/4	1/2	3-1/4	CC	General Purpose	L	SE	-	MINICUT	MNTA816-1612	\$39.54	C	
HSS	2	1/2	4	CC	General Purpose	L	SE	-	MINICUT	MNTA816-1620	\$50.63	C	
17/32	COB	1-3/8	1/2	3-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1617	\$23.22	B
COB	1-3/8	5/8	5	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2017	\$38.51	B	
9/16	CAR	1-1/8	9/16	3-1/2	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30764	\$66.14	C
	CAR	1-1/8	9/16	3-1/2	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30763	\$57.00	C
	CAR	1-1/4	9/16	3-1/2	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-1818	\$53.41	B
	COB	1-3/8	1/2	3-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1618	\$23.22	B
	COB	1-3/8	5/8	5	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2018	\$34.77	B
	COB	2-1/2	1/2	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1618-L	\$32.65	B
	COB	3-1/2	1/2	5-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1618-E	\$39.88	B
5/8	CAR	1-1/4	5/8	3-1/2	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30766	\$72.23	C
	CAR	1-1/4	5/8	3-1/2	CC	GP For Steels	L	SE	-	YG1	YG-EM07595TF	\$64.85	C
	CAR	1-1/4	5/8	3-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07595	\$50.95	C
	COB	5/8	5/8	2-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-2020	\$24.55	B
	COB	1-3/8	1/2	3-3/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-1620	\$24.55	B
	COB	1-5/8	5/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020	\$24.55	B
	COB	1-5/8	5/8	3-3/4	CC	GP For Steels	U	SE	-	YG1	YG-EM07337	\$22.97	C
	COB	1-5/8	5/8	3-3/4	NC	GP For Steels	U	SE	-	YG1	YG-EM04337	\$19.91	C
	COB	2	5/8	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020-M	\$32.52	B
	COB	2-1/2	5/8	4-5/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020-L	\$32.29	B
11/16	COB	4	5/8	6-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020-E	\$40.27	B
	COB	5	5/8	7-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2020-EE	\$56.00	B
	HSS	1-5/8	5/8	3-3/4	CC	General Purpose	C	SE	-	MINICUT	MNTC811-2016	\$43.09	C
11/16	COB	1-5/8	5/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2022	\$31.75	B

3/4" & Larger Sizes Continued On Following Page

Call Us Today For All Of Your Machine Tool Needs!

2010-11 Master Catalog

ENDMILLS-4 FLUTE/SQUARE END

4 FLUTE ENDMILLS (continued) SQUARE END

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 Square 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	I	SE	No	IMCO AuCARB	IMCO-30770	\$105.77	C
	CAR	1-1/2	3/4	4	CC	GP For Steels	L	SE	-	YG1	YG-EM07598TF	\$91.67	C
	CAR	1-1/2	3/4	4	CC	General Purpose	U	SE	No	IMCO Micrograin	IMCO-30769	\$90.83	C
	CAR	1-1/2	3/4	4	CC	General Purpose	U	SE	No	MELIN	ME-CCMG-2424	\$87.51	C
	CAR	1-1/2	3/4	4	CC	GP For Steels	U	SE	-	YG1	YG-EM07598	\$75.22	B
	CAR	1-1/2	3/4	4	CC	Stainless Steels	U	SE	-	YG1 X-Power	YG-EM93101	\$99.00	C
	COB	3/4	3/4	3	CC	General Purpose	U	SE	Yes	MELIN	ME-CCS-2424	\$31.99	B
	COB	1-5/8	5/8	3-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2024	\$32.43	B
	COB	1-5/8	3/4	3-7/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424	\$31.99	B
	COB	1-5/8	3/4	3-7/8	CC	General Purpose	U	SE	-	MINICUT	MN860-2416	\$34.45	C
	COB	1-5/8	3/4	3-7/8	CC	GP For Steels	U	SE	-	YG1	YG-EM07359	\$27.15	C
	COB	1-5/8	3/4	3-7/8	NC	GP For Steels	U	SE	-	YG1	YG-EM04359	\$22.16	C
	COB	1-5/8	3/4	5-5/8	CC	General Purpose	U	DE	Yes	MELIN	ME-DD-2424	\$46.42	C
	COB	1-5/8	3/4	5-5/8	CC	GP For Steels	U	DE	-	YG1	YG-EM13359	\$40.13	B
	COB	2-1/4	3/4	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424-M	\$40.02	B
	COB	3	3/4	5-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424-L	\$47.60	B
	COB	4	3/4	6-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424-E	\$55.01	B
	COB	6	3/4	8-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2424-EE	\$73.28	B
	HSS	1-5/8	3/4	3-7/8	CC	General Purpose	C	SE	-	MINICUT	MNTC816-2416	\$54.24	C
	HSS	1-5/8	3/4	3-7/8	CC	Inconel, Stainless & Steels	U	SE	-	MINICUT	MN985-2416	\$57.32	C
HSS	1-5/8	3/4	3-7/8	CC	Titanium	U	SE	-	MINICUT	MN995-2416	\$57.32	C	
13/16	COB	1-7/8	3/4	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2426	\$37.84	B
7/8	CAR	1-1/2	7/8	4	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30774	\$153.59	C
	COB	1-7/8	7/8	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2828	\$41.48	B
	COB	3-1/2	7/8	5-3/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2828-L	\$59.41	B
	COB	5	7/8	7-1/4	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2828-E	\$75.29	B
15/16	COB	1-7/8	3/4	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2430	\$47.61	B
	COB	1-7/8	7/8	4-1/8	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-2830	\$47.39	B
1	CAR	1-1/2	1	4	CC	General Purpose	I	SE	No	IMCO AuCARB	IMCO-30778	\$159.67	C
	COB	2	1	4-1/2	CC	GP For Steels	U	SE	-	YG1	YG-EM07426	\$41.13	C
	COB	2	1	4-1/2	NC	GP For Steels	U	SE	-	YG1	YG-EM04426	\$35.33	C
	COB	3	1	5-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-3232-M	\$67.31	B
	COB	4	1	6-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-3232-L	\$74.30	B
	COB	6	1	8-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-3232-E	\$94.91	B
1-1/8	COB	2	1	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-3236	\$69.57	B
1-1/4	COB	2	1-1/4	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-4040	\$76.83	B
	COB	4	1-1/4	6-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-4040-L	\$108.70	B
1-1/2	HSS	2	1-1/4	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-4048	\$89.40	B
	HSS	4	1-1/4	6-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CC-4048-L	\$135.27	B
2	COB	2	1-1/4	4-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CCP-4064	\$159.92	B
	COB	4	1-1/4	6-1/2	CC	General Purpose	U	SE	Yes	MELIN	ME-CCP-4064-L	\$270.00	B

END MILLS 101



2-FLUTE - Allows maximum space for chip ejection. Used for general milling operations.

3-FLUTE - Excellent for slotting. Used for general milling operations.

4, 5, 6, and 8 FLUTE - A greater number of flutes reduces chip load and can improve surface finish.

BALL END - Used to mill die cavities and fillets, round bottom holes and slots.

COATINGS - The use of Titanium coated tools will increase the surface hardness of the tool to near 85 Rc. This will allow for greater tool life at increased cutting speeds & feeds (15 - 25%).

COBALT - Type of high speed steel tool which has a 8% cobalt content (M42). This material has excellent abrasion resistance for improved tool life over standard high speed steel (M7).

CORNER ROUNDERS - Cutters having form ground radius with relieved clearance.

DOUBLE END - An end mill that has teeth on both ends of the cutter. End mill holders must have sufficient clearance.

DRILL POINT - Multipurpose tool which can be used for drilling, milling, or chamfering.

HIGH HELIX - Usually a 40 to 60 degree spiral on the tool's flutes. Effective for rapid chip ejection in milling of aluminum and other materials.

ROUGHER (HOGGERS) - End mill with interrupted shape on outside diameter to remove large amounts of material quickly.

Typically can remove material up to three times the rate of conventional end mills with different types available to achieve the desired finish on the material. We offer roughers in Coarse Pitch, Fine Pitch, Rougher/Finisher, and 3-Flute for Aluminum styles.



LATHЕ CHUCKS
LIVE CENTERS

VISE JAWS
VISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHЕ BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

399

CHUCK JAWS
LATHE WORKHOLDING

ENDMILLS-5 & 6 FLUTE/SQUARE END

5 & 6 FLUTE ENDMILLS SQUARE END 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	



MACHINE VISES
MAGNETIC CHUCKS

5 Flute Square 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
1/8	CAR	1/2	1/8	1-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-404	\$8.91	B
5/32	CAR	9/16	3/16	2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-605	\$12.67	B
3/16	CAR	9/16	3/16	2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-606	\$12.54	B
7/32	CAR	3/4	1/4	2-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-807	\$15.93	B
1/4	CAR	3/4	1/4	2-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-808	\$15.68	B
	CAR	1-1/2	1/4	4	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-808-E	\$25.54	B
5/16	CAR	13/16	5/16	2-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-1010	\$19.46	B
3/8	CAR	1	3/8	2-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-1212	\$24.47	B
	CAR	1-3/4	3/8	4	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-1212-E	\$40.31	B
1/2	CAR	3	1/2	6	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-1616-E	\$82.28	B
9/16	CAR	1-1/4	9/16	3-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-1818	\$63.30	B
5/8	CAR	1-1/4	5/8	3-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-2020	\$71.12	B
3/4	CAR	1-1/2	3/4	4	CC	Stainless Steels/High Tensile Steels	U	SE	No	MELIN	ME-GMG-2424	\$104.69	B
1	HSS	2-1/4	1	4-3/4	CC	Stainless Steels/High Tensile Steels	C	SE	-	MINICUT	MNTC811-3222	\$84.80	C
	HSS	2-1/4	1	4-3/4	CC	Stainless Steels/High Tensile Steels	C	SE	-	MINICUT	MNTC816-3222	\$84.80	C
	HSS	3	1	5-1/2	CC	Stainless Steels/High Tensile Steels	L	SE	-	MINICUT	MNTA811-3230	\$111.35	C
	HSS	4	1	6-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	-	MINICUT	MN811-3240	\$93.45	C
	HSS	6	1	8-1/2	CC	Stainless Steels/High Tensile Steels	U	SE	-	MINICUT	MN811-3260	\$130.83	C

RETENTION KNOBS
ER, DA, TG COLLETS

TOOL HOLDERS
TAP HOLDERS

6 Flute Square 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
3/8	CAR	1	3/8	2-1/2	CC	General Purpose	L	SE	-	IMCO Omega6	IMCO-62785	\$36.86	C
1	COB	2	1	4-1/2	CC	General Purpose	U	SE	-	MINICUT	MN860-3220-A	\$53.36	C
	COB	4	1	6-1/2	CC	General Purpose	U	SE	-	MINICUT	MN860-3240-A	\$69.95	C
	HSS	2	1	4-1/2	CC	Titanium	U	SE	-	MINICUT	MN995-3220-A	\$97.32	C
1-1/4	COB	3	1-1/4	5-1/2	CC	General Purpose	U	SE	-	MINICUT	MN860-4030-A	\$85.16	C
	HSS	2	1-1/4	4-1/2	CC	Titanium	U	SE	-	MINICUT	MN995-4020-A	\$135.93	C

INDEXABLE DRILLS
TURNING & BORING

GENERAL ENDMILL INFORMATION

General Information for Endmill Usage:

The Following factors should be kept in mind when using the recommended starting feed per tooth.



Use Higher Feeds For:

- Heavy, roughing cuts
- Rigid set-ups
- Easy-to-machine work materials
- Rugged cutters
- Slab milling cuts
- Low tensile strength materials
- Coarse tooth cutters
- Abrasive materials

Use Lower Feeds For:

- Light, and finishing cuts
- Frail set-ups
- Hard to machine work materials
- Frail and small cutters
- Deep slots
- High tensile strength materials
- Fine tooth cutters

To Calculate	Given	Formula
Surface Speed in Feet per Minute = SFM	Tool Dia (inches) = D	SFM = (D x 3.1416 x RPM) / 12
	Revolutions per Minute = RPM	
Revolutions per Minute = RPM	Tool Dia (inches) = D	RPM = (SFM x 12) / (D x 3.1416)
	Surface Speed in Feet per Minute = SFM	
Feed Per Revolution in inches = FR	Feed in Inches per Minute = FM	FR = FM / RPM
	Revolutions per Minute = RPM	
Feed in Inches per Minute = FM	Feed Per Revolution in inches = FR	FM = FR x RPM
	Revolutions per Minute = RPM	
Number of Cutting Teeth per Minute = TM	Number of Teeth in Tool = T	TM = T x RPM
	Revolutions per Minute = RPM	
Feed Per Tooth = FT	Number of Teeth in Tool = T	FT = FR / T
	Feed Per Revolution in inches = FR	
Feed Per Tooth = FT	Number of Teeth in Tool = T	FT = FM / (T x RPM)
	Feed in Inches per Minute = FM	
	Revolutions per Minute = RPM	

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

Call Us Today For All Of Your Machine Tool Needs!

SOLID CARBIDE END MILLS

C

LATHES CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

HIGH SPIRAL END MILLS

3 & 4 Flute - Single End - 60° Helix

MICRO 100



These *high spiral end mills* feature 60° helix for high volume metal removal even in the most difficult applications. Sizes 3/8" and larger feature Weldon Flat.

Cutter Dia	Shank Dia	OAL	Flute Len.	3-Flute Part Number	4-Flute Part Number	Price Each
1/4	1/4	2-1/2	3/4	MI-SDH25003	-	\$22.30
9/32	5/16	2-1/2	3/4	MI-SDH28103	-	\$25.95
5/16	5/16	2-1/2	13/16	MI-SDH31203	MI-SDH31204	\$25.95
3/8	3/8	2-1/2	7/8	MI-SDH37503	MI-SDH37504	\$29.45
7/16	7/16	2-1/2	1	MI-SDH43703	MI-SDH43704	\$46.60
1/2	1/2	3	1	MI-SDH50003	MI-SDH50004	\$51.20
9/16	9/16	3-1/2	1-1/4	MI-SDH56203	MI-SDH56204	\$75.30
5/8	5/8	3-1/2	1-1/4	MI-SDH62503	MI-SDH62504	\$90.35
3/4	3/4	4	1-1/2	MI-SDH75003	MI-SDH75004	\$137.90
1	1	4	1-1/2	MI-SDH00003	MI-SDH00004	\$208.90
1	1	5	2-1/2	MI-SDH00103	MI-SDH00104	\$267.20

HIGH HELIX END MILLS

6 Flute-Center Cutting-Single End - 38° Helix



MICRO 100

These high helix end mills have a 38° helix to provide superior finish in all finish milling applications, including heat treated materials to 65 Rc. Sizes 3/8" and larger feature Weldon Flat.

Cutter Dia	Shank Dia	OAL	Flute Len.	Part Number	Price Each
1/4	1/4	2-1/2	3/4	MI-EMH25006	\$24.35
9/32	5/16	2-1/2	3/4	MI-EMH28106	\$28.30
5/16	5/16	2-1/2	13/16	MI-EMH31206	\$28.30
3/8	3/8	2-1/2	7/8	MI-EMH37506	\$32.15
7/16	7/16	2-1/2	1	MI-EMH43706	\$50.75
1/2	1/2	3	1	MI-EMH50006	\$55.75
5/8	5/8	3-1/2	1-1/4	MI-EMH62506	\$98.65
3/4	3/4	4	1-1/2	MI-EMH75006	\$150.40
1	1	4	1-1/2	MI-EMH00006	\$227.80
1	1	5	2-1/2	MI-EMH00106	\$283.90

LONG REACH END MILLS

2 & 4 Flute Center Cutting - 30° Helix

MICRO 100



Cutter Dia	Shank Dia	OAL	Flute Len.	Neck Len.	2-Flute Part Number	4-Flute Part Number	Price Each
3/16	3/16	3	3/8	1-5/8	MI-GLR1872	MI-GLR1874	\$27.20
1/4	1/4	4	1/2	2	MI-GLR2502	MI-GLR2504	\$32.85
5/16	5/16	4	5/8	2	MI-GLR3122	MI-GLR3124	\$37.75
3/8	3/8	4	3/4	2	MI-GLR3752	MI-GLR3754	\$43.55
7/16	7/16	6	1	3-1/2	MI-GLR4372	MI-GLR4374	\$65.70
1/2	1/2	6	1	3-1/2	MI-GLR5002	MI-GLR5004	\$75.15
5/8	5/8	6	1-1/4	3-1/4	MI-GLR6252	MI-GLR6254	\$133.25
3/4	3/4	6	1-1/2	3	MI-GLR7502	MI-GLR7504	\$202.30
1	1	6	1-1/2	3	MI-GLR0012	MI-GLR0014	\$306.65

HIGH TECH END MILLS

2 Flute - Center Cutting Single Ended - 45° Helix

MICRO 100

These 2 flute high tech end mills featuring 45° helix for high speed milling of aluminum and soft, nonferrous materials. Sizes 3/8" and larger feature Weldon Flat.



Stub Length

Cutter Dia	Shank Dia	OAL	Flute Len.	Part Number	Price Each
1/6	1/8	1-1/2	1/8	MI-ASM0622	12.05
3/32	1/8	1-1/2	3/16	MI-ASM0932	12.05
1/8	1/8	1-1/2	1/4	MI-ASM1252	10.70
5/32	3/16	1-1/2	5/16	MI-ASM1562	17.10
3/16	3/16	1-1/2	3/8	MI-ASM1872	17.10
7/32	1/4	2	7/16	MI-ASM2182	21.30
1/4	1/4	2	1/2	MI-ASM2502	21.30
9/32	5/16	2	1/2	MI-ASM2812	19.60
5/16	5/16	2	1/2	MI-ASM3122	23.45
3/8	3/8	2	5/8	MI-ASM3752	28.10
7/16	7/16	2-1/2	5/8	MI-ASM4372	42.15
1/2	1/2	2-1/2	5/8	MI-ASM5002	46.30

Regular Length

Cutter Dia	Shank Dia	OAL	Flute Len.	Part Number	Price Each
1/6	1/8	1-1/2	3/16	MI-ARM0622	\$12.60
3/32	1/8	1-1/2	3/8	MI-ARM0932	\$12.60
1/8	1/8	1-1/2	1/2	MI-ARM1252	\$11.25
5/32	3/16	2	9/16	MI-ARM1562	\$17.85
3/16	3/16	2	5/8	MI-ARM1872	\$17.85
7/32	1/4	2-1/2	5/8	MI-ARM2182	\$22.40
1/4	1/4	2-1/2	3/4	MI-ARM2502	\$22.40
9/32	5/16	2-1/2	3/4	MI-ARM2812	\$26.10
5/16	5/16	2-1/2	13/16	MI-ARM3122	\$26.10
3/8	3/8	2-1/2	7/8	MI-ARM3752	\$29.55
7/16	7/16	2-1/2	1	MI-ARM4372	\$44.98
1/2	1/2	3	1	MI-ARM5002	\$51.40
9/16	9/16	3-1/2	1-1/4	MI-ARM5622	\$79.10
5/8	5/8	3-1/2	1-1/4	MI-ARM6252	\$90.90
11/16	3/4	4	1-3/8	MI-ARM6872	\$111.95
3/4	3/4	4	1-1/2	MI-ARM7502	\$138.55
1	1	4	1-1/2	MI-ARM0012	\$209.95

HIGH TECH END MILLS

5 Flute - Center Cutting - 45° Helix

MICRO 100



Cutter Dia	Shank Dia	OAL	Flute Len.	Part Number	Price Each
3/16	3/16	2	5/8	MI-ARM1875	\$19.45
1/4	1/4	2 1/2	3/4	MI-ARM2505	\$24.35
5/16	5/16	2 1/2	13/16	MI-ARM3125	\$28.30
3/8	3/8	2 1/2	7/8	MI-ARM3755	\$32.15
1/2	1/2	3	1	MI-ARM5005	\$53.60
5/8	5/8	3 1/2	1 1/4	MI-ARM6255	\$98.65
3/4	3/4	4	1 1/2	MI-ARM7505	\$150.40
1	1	4	1 1/2	MI-ARM0015	\$227.80

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

401

SOLID CARBIDE END MILLS

CHUCK JAWS
LATHE WORKHOLDING

MACHINE VISES
MAGNETIC CHUCKS

RETENTION KNOBS
ER, DA, TG COLLETS

TOOLHOLDERS
TAP HOLDERS

INDEXABLE DRILLS
TURNING & BORING

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

VARIABLE HELIX ENDMILLS

HIGH VELOCITY, AITIN COATED CARBIDE
4 Flutes, VHM Series, Corner Radius

- Variable pitch- Ideal for high production and high speed milling
- Excellent surface finishes
- Offset flute design eliminates chatter and reduces machine vibration
- All tools 3/8" and over have Weldon flats

MICRO 100

"The V-Hemoth"

NEW ITEM!



Dia	Shank Dia	OAL	Flute Length	Corner Radius	Part Number	Price
1/8	1/8	1-1/2	1/2	.010	MI-VHM1254X	\$14.80
3/16	3/16	2	5/8	.010	MI-VHM1874X	\$22.85
1/4	1/4	2-1/2	3/4	.020	MI-VHM2504X	\$27.70
5/16	5/16	2-1/2	13/16	.020	MI-VHM3124X	\$33.70
3/8	3/8	2-1/2	3/4	.020	MI-VHM3754X	\$37.40
7/16	7/16	2-1/2	1	.020	MI-VHM4374X	\$56.45
1/2	1/2	3	1	.030	MI-VHM5004X	\$61.75
5/8	5/8	3-1/2	1-1/4	.030	MI-VHM6254X	\$112.65
3/4	3/4	4	1-1/2	.030	MI-VHM7504X	\$167.70
1	1	4	1-1/2	.030	MI-VHM0014X	\$252.95

VARIABLE HELIX ENDMILLS

LONG LENGTH, HIGH VELOCITY, AITIN COATED CARBIDE
4 Flutes, VHM Series, Corner Radius

- Variable pitch- Ideal for high production and high speed milling
- Excellent surface finishes
- Offset flute design eliminates chatter and reduces machine vibration
- All tools 3/8" and over have Weldon flats

MICRO 100

"The V-Hemoth"

NEW ITEM!



Dia	Shank Dia	OAL	Flute Length	Corner Radius	Part Number	Price
3/16	3/16	2-1/2	3/4	.010	MI-VLM1874X	\$29.20
1/4	1/4	3	1-1/8	.020	MI-VLM2504X	\$34.25
5/16	5/16	3	1-1/8	.020	MI-VLM3124X	\$39.30
3/8	3/8	3	1-1/4	.020	MI-VLM3754X	\$46.15
7/16	7/16	4-1/2	2	.020	MI-VLM4374X	\$74.60
1/2	1/2	4-1/2	2-1/4	.030	MI-VLM5004X	\$80.80
5/8	5/8	5	2-1/4	.030	MI-VLM6254X	\$140.65
3/4	3/4	5	2-1/2	.030	MI-VLM7504X	\$210.40
1	1	5	2-1/2	.030	MI-VLM0014X	\$317.65

6 FLUTE END MILLS

Center Cutting - 45° Helix, 25° Chamfer
AITiN Coated

MICRO 100

These end mills are specifically developed for high-speed cutting of heat-treated and tough machine materials. Ideal for dry machining applications. Extensively used in the mold and die industries.



Cutter Dia	Shank Dia	OAL	Flute Length	25° Chamfer	Part Number	Price Each
3/16	3/16	2	5/8	.003	MI-MEM1876TX	\$22.37
1/4	1/4	2-1/2	3/4	.004	MI-MEM2506TX	\$27.07
5/16	5/16	2-1/2	13/16	.007	MI-MEM3126TX	\$34.85
3/8	3/8	2-1/2	7/8	.009	MI-MEM3756TX	\$36.55
1/2	1/2	3	1	.011	MI-MEM5006TX	\$60.51
5/8	5/8	3-1/2	1-1/4	.015	MI-MEM6256TX	\$110.40
3/4	3/4	4	1-1/2	.017	MI-MEM7506TX	\$164.45
1	1	4	1-1/2	.019	MI-MEM0016TX	\$248.31

LONG LENGTH END MILLS

Long & Extra Long Length
2 & 4 Flute, Center Cutting, 30° Helix

MICRO 100



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-GLL1872	MI-GLL1874	\$22.45
1/4	1/4	3	1-1/8	MI-GLL2502	MI-GLL2504	\$27.00
5/16	5/16	3	1-1/8	MI-GLL3122	MI-GLL3124	\$31.55
3/8	3/8	3	1-1/8	MI-GLL3752	MI-GLL3754	\$35.85
7/16	7/16	4-1/2	2	MI-GLL4372	MI-GLL4374	\$56.60
1/2	1/2	4-1/2	2	MI-GLL5002	MI-GLL5004	\$62.15
5/8	5/8	5	2-1/4	MI-GLL6252	MI-GLL6254	\$109.95
3/4	3/4	5	2-1/4	MI-GLL7502	MI-GLL7504	\$167.60
1	1	5	2-1/4	MI-GLL0012	MI-GLL0014	\$253.95

Extra Long

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-GEL1872	MI-GEL1874	\$23.75
1/4	1/4	4	1-1/2	MI-GEL2502	MI-GEL2504	\$28.55
5/16	5/16	4	1-5/8	MI-GEL3122	MI-GEL3124	\$32.85
3/8	3/8	4	1-3/4	MI-GEL3752	MI-GEL3754	\$37.90
7/16	7/16	6	3	MI-GEL4372	MI-GEL4374	\$59.65
1/2	1/2	6	3	MI-GEL5002	MI-GEL5004	\$68.25
5/8	5/8	6	3	MI-GEL6252	MI-GEL6254	\$120.70
3/4	3/4	6	3	MI-GEL7502	MI-GEL7504	\$183.95
1	1	6	3	MI-GEL0012	MI-GEL0014	\$278.80

5 FLUTE END MILLS

Center Cutting - 45° Helix
ASM-5 Series, Stub Length

MICRO 100

Ideal For Finishing, Roughing And Slotting In
Medium To Hard Steels, Stainless And Hi-Temp Alloys!



5-Flute Stub Length

Cutter Dia	Shank Dia	OAL	Flute Length	Part Number	Price Each
3/16	3/16	1-1/2	3/8	MI-ASM1875	\$17.50
1/4	1/4	2	1/2	MI-ASM2505	\$20.65
5/16	5/16	2	1/2	MI-ASM3125	\$24.20
3/8	3/8	2	5/8	MI-ASM3755	\$30.15
1/2	1/2	2-1/2	5/8	MI-ASM5005	\$47.45

5 FLUTE END MILLS

Center Cutting - 45° Helix
ALM Series, Long Length

Ideal For Finishing, Roughing And Slotting In
Medium To Hard Steels, Stainless And Hi-Temp Alloys!



5-Flute Long Length

Cutter Dia	Shank Dia	OAL	Flute Len.	Part Number	Price Each
1/4	1/4	3	1-1/4	MI-ALM2505	\$29.05
5/16	5/16	3	1-1/4	MI-ALM3125	\$33.85
3/8	3/8	4	1-1/2	MI-ALM3755	\$38.50
1/2	1/2	4	2	MI-ALM5005	\$66.85
5/8	5/8	6	3	MI-ALM6255	\$118.10
3/4	3/4	6	3	MI-ALM7505	\$180.15
1	1	6	3	MI-ALM0015	\$286.55

Call Us Today For All Of Your Machine Tool Needs!

CORNER RADIUS ENDMILLS-SOLID CARBIDE

C

CORNER RADIUS ENDMILLS SOLID CARBIDE 2 & 4 FLUTE, SINGLE END



- 30° helix, right hand spiral, right hand cut
- Center cutting
- Used for generating corner radius on work piece
- Corner radius promotes additional strength for longer tool life, resulting in greater productivity
- Use coated tools for increased tool life
- **Tolerances:**
Cutting Dia: +.000"/-.002"
Shank Dia: +.0000" /-.0005"

- **Materials:** Cast iron, non-ferrous metals plastics and abrasive materials



2 FLUTE RADIUS ENDMILLS

Mill Dia	LOC	Shank	OAL	Corner Radius	Uncoated		TiAlN Coated	
					Part Number	Price Each	Part Number	Price Each
1/8	1/2	1/8	1-1/2	.010R	MO-EM602300-2	\$6.88	MO-EM602303-2	\$9.08
1/8	1/2	1/8	1-1/2	.030R	MO-EM602318-2	\$6.88	MO-EM602321-2	\$9.08
3/16	5/8	3/16	2	.010R	MO-EM602424-2	\$8.98	MO-EM602427-2	\$11.55
3/16	5/8	3/16	2	.030R	MO-EM602442-2	\$8.98	MO-EM602445-2	\$11.55
1/4	3/4	1/4	2-1/2	.015R	MO-EM602551-2	\$11.55	MO-EM602554-2	\$15.07
1/4	3/4	1/4	2-1/2	.030R	MO-EM602569-2	\$11.55	MO-EM602572-2	\$15.07
1/4	3/4	1/4	2-1/2	.060R	MO-EM602581-2	\$11.55	MO-EM602584-2	\$15.07
5/16	13/16	5/16	2-1/2	.015R	MO-EM602684-2	\$14.76	MO-EM602687-2	\$19.89
5/16	13/16	5/16	2-1/2	.030R	MO-EM602702-2	\$14.76	MO-EM602705-2	\$19.89
5/16	13/16	5/16	2-1/2	.060R	MO-EM602714-2	\$14.76	MO-EM602717-2	\$19.89
3/8	1	3/8	2-1/2	.015R	MO-EM602820-2	\$19.71	MO-EM602823-2	\$24.84
3/8	1	3/8	2-1/2	.030R	MO-EM602838-2	\$19.71	MO-EM602841-2	\$24.84
3/8	1	3/8	2-1/2	.060R	MO-EM602850-2	\$19.71	MO-EM602853-2	\$24.84
7/16	1	7/16	2-3/4	.015R	MO-EM602961-2	\$27.87	MO-EM602964-2	\$35.20
7/16	1	7/16	2-3/4	.030R	MO-EM602980-2	\$27.87	MO-EM602983-2	\$35.20
7/16	1	7/16	2-3/4	.060R	MO-EM602992-2	\$27.87	MO-EM602995-2	\$35.20
1/2	1	1/2	3	.015R	MO-EM603003-2	\$31.99	MO-EM603006-2	\$41.23
1/2	1	1/2	3	.030R	MO-EM603021-2	\$31.99	MO-EM603024-2	\$41.23
1/2	1	1/2	3	.060R	MO-EM603033-2	\$31.99	MO-EM603036-2	\$41.23
1/2	1	1/2	3	.125R	MO-EM603045-2	\$31.99	MO-EM603048-2	\$41.23
5/8	1-1/4	5/8	3-1/2	.015R	MO-EM603150-2	\$59.49	MO-EM603153-2	\$73.43
5/8	1-1/4	5/8	3-1/2	.030R	MO-EM603168-2	\$59.49	MO-EM603171-2	\$73.43
5/8	1-1/4	5/8	3-1/2	.060R	MO-EM603180-2	\$59.49	MO-EM603183-2	\$73.43
3/4	1-1/2	3/4	4	.020R	MO-EM603303-2	\$90.75	MO-EM603306-2	\$105.42
3/4	1-1/2	3/4	4	.045R	MO-EM603321-2	\$90.75	MO-EM603324-2	\$105.42
3/4	1-1/2	3/4	4	.090R	MO-EM603333-2	\$90.75	MO-EM603336-2	\$105.42
1	1-1/2	1	4	.020R	MO-EM603456-2	\$156.29	MO-EM603459-2	\$175.07
1	1-1/2	1	4	.045R	MO-EM603474-2	\$156.29	MO-EM603477-2	\$175.07
1	1-1/2	1	4	.090R	MO-EM603486-2	\$156.29	MO-EM603489-2	\$175.07

4 FLUTE RADIUS ENDMILLS

Mill Dia	LOC	Shank	OAL	Corner Radius	Uncoated		TiAlN Coated	
					Part Number	Price Each	Part Number	Price Each
1/8	1/2	1/8	1-1/2	.015R	MO-EM602306-4	\$6.88	MO-EM602309-4	\$9.08
1/8	1/2	1/8	1-1/2	.030R	MO-EM602318-4	\$6.88	MO-EM602321-4	\$9.08
3/16	5/8	3/16	2	.015R	MO-EM602430-4	\$8.98	MO-EM602433-4	\$11.55
3/16	5/8	3/16	2	.030R	MO-EM602442-4	\$8.98	MO-EM602445-4	\$11.55
1/4	3/4	1/4	2-1/2	.020R	MO-EM602557-4	\$11.55	MO-EM602560-4	\$15.07
1/4	3/4	1/4	2-1/2	.030R	MO-EM602569-4	\$11.55	MO-EM602572-4	\$15.07
5/16	13/16	5/16	2-1/2	.020R	MO-EM602690-4	\$14.76	MO-EM602693-4	\$19.89
5/16	13/16	5/16	2-1/2	.030R	MO-EM602702-4	\$14.76	MO-EM602705-4	\$19.89
3/8	1	3/8	2-1/2	.015R	MO-EM602820-4	\$19.71	MO-EM602823-4	\$24.84
3/8	1	3/8	2-1/2	.030R	MO-EM602838-4	\$19.71	MO-EM602841-4	\$24.84
3/8	1	3/8	2-1/2	.060R	MO-EM602850-4	\$19.71	MO-EM602853-4	\$24.84
7/16	1	7/16	2-3/4	.015R	MO-EM602961-4	\$27.87	MO-EM602964-4	\$35.20
7/16	1	7/16	2-3/4	.030R	MO-EM602980-4	\$27.87	MO-EM602983-4	\$35.20
7/16	1	7/16	2-3/4	.060R	MO-EM602992-4	\$27.87	MO-EM602995-4	\$35.20
1/2	1	1/2	3	.015R	MO-EM603003-4	\$31.99	MO-EM603006-4	\$41.23
1/2	1	1/2	3	.030R	MO-EM603021-4	\$31.99	MO-EM603024-4	\$41.23
1/2	1	1/2	3	.045R	MO-EM603027-4	\$31.99	MO-EM603030-4	\$41.23
1/2	1	1/2	3	.060R	MO-EM603033-4	\$31.99	MO-EM603036-4	\$41.23
1/2	1	1/2	3	.125R	MO-EM603045-4	\$31.99	MO-EM603048-4	\$41.23
5/8	1-1/4	5/8	3-1/2	.015R	MO-EM603150-4	\$59.49	MO-EM603153-4	\$73.43
5/8	1-1/4	5/8	3-1/2	.030R	MO-EM603168-4	\$59.49	MO-EM603171-4	\$73.43
5/8	1-1/4	5/8	3-1/2	.060R	MO-EM603180-4	\$59.49	MO-EM603183-4	\$73.43
5/8	1-1/4	5/8	3-1/2	.125R	MO-EM603192-4	\$59.49	MO-EM603195-4	\$73.43
3/4	1-1/2	3/4	4	.020R	MO-EM603303-4	\$90.75	MO-EM603306-4	\$105.42
3/4	1-1/2	3/4	4	.030R	MO-EM603315-4	\$90.75	MO-EM603318-4	\$105.42
3/4	1-1/2	3/4	4	.060R	MO-EM603327-4	\$90.75	MO-EM603330-4	\$105.42
3/4	1-1/2	3/4	4	.125R	MO-EM603339-4	\$90.75	MO-EM603342-4	\$105.42
1	1-1/2	1	4	.020R	MO-EM603456-4	\$156.29	MO-EM603459-4	\$175.07
1	1-1/2	1	4	.030R	MO-EM603468-4	\$156.29	MO-EM603471-4	\$175.07
1	1-1/2	1	4	.060R	MO-EM603480-4	\$156.29	MO-EM603483-4	\$175.07
1	1-1/2	1	4	.125R	MO-EM603492-4	\$156.29	MO-EM603495-4	\$175.07

**Additional Radii & Coatings Available!
Please Call For More Information!**

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

403

LATHES CHUCKS
LIVE CENTERS

WISE JAWS
WISE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

ROUGHER/FINISHER ENDMILLS-SOLID CARBIDE

ROUGHING/FINISHING ENDMILLS WITH CHIPBREAKER SQUARE AND BALL END 3 & 4 FLUTES, CARBIDE



- Manufactured from the highest quality carbide material with 10% cobalt
- Sinter hipped, C-2 grade, fine grain carbide
- Chipbreaker geometry permits extremely high feed rates in roughing operations
- Designed with tooth overlap to produce fairly smooth part finish
- Minimizes cutting force for longer tool life



SQUARE END

Mill Dia.	LOC	Shank	OAL	Coating	3 Flute Part Number	4 Flute Part Number	Price Each
1/8	1/2	1/8	1-1/2	Uncoated	MO-267-125500	MO-257-125500	\$7.60
	1/2	1/8	1-1/2	TiAlN	MO-267-125503	MO-257-125503	\$10.84
3/16	5/8	3/16	2	Uncoated	MO-267-187625	MO-257-187625	\$11.47
	5/8	3/16	2	TiAlN	MO-267-187628	MO-257-187628	\$14.73
1/4	3/4	1/4	2-1/2	Uncoated	MO-267-250750	MO-257-250750	\$15.93
	3/4	1/4	2-1/2	TiAlN	MO-267-250753	MO-257-250753	\$20.67
5/16	13/16	5/16	2-1/2	Uncoated	MO-267-312812	MO-257-312812	\$19.80
	13/16	5/16	2-1/2	TiAlN	MO-267-312815	MO-257-312815	\$27.60
3/8	1	3/8	2-1/2	Uncoated	MO-267-375875	MO-257-375875	\$26.33
	1	3/8	2-1/2	TiAlN	MO-267-375878	MO-257-375878	\$34.16
7/16	1	7/16	2-3/4	Uncoated	MO-267-437100	MO-257-437100	\$34.80
	1	7/16	2-3/4	TiAlN	MO-267-437103	MO-257-437103	\$45.24
1/2	1	1/2	3	Uncoated	MO-267-500100	MO-257-500100	\$42.44
	1	1/2	3	TiAlN	MO-267-500103	MO-257-500103	\$52.87
5/8	1-1/4	5/8	3-1/2	Uncoated	MO-267-625114	MO-257-625114	\$66.13
	1-1/4	5/8	3-1/2	TiAlN	MO-267-625117	MO-257-625117	\$83.16
3/4	1-1/2	3/4	4	Uncoated	MO-267-750112	MO-257-750112	\$115.40
	1-1/2	3/4	4	TiAlN	MO-267-750115	MO-257-750115	\$133.93
1	1-1/2	1	4	Uncoated	MO-267-100112	MO-257-100112	\$173.33
	1-1/2	1	4	TiAlN	MO-267-100115	MO-257-100115	\$200.60



BALL NOSE

Mill Dia.	LOC	Shank	OAL	Coating	3 Flute Part Number	4 Flute Part Number	Price Each
1/8	1/2	1/8	1-1/2	Uncoated	MO-268-125500	MO-258-125500	\$9.80
	1/2	1/8	1-1/2	TiAlN	MO-268-125503	MO-258-125503	\$13.04
3/16	5/8	3/16	2	Uncoated	MO-268-187625	MO-258-187625	\$14.56
	5/8	3/16	2	TiAlN	MO-268-187628	MO-258-187628	\$17.80
1/4	3/4	1/4	2-1/2	Uncoated	MO-268-250750	MO-258-250750	\$19.73
	3/4	1/4	2-1/2	TiAlN	MO-268-250753	MO-258-250753	\$24.47
5/16	13/16	5/16	2-1/2	Uncoated	MO-268-312812	MO-258-312812	\$23.60
	13/16	5/16	2-1/2	TiAlN	MO-268-312815	MO-258-312815	\$31.40
3/8	1	3/8	2-1/2	Uncoated	MO-268-375875	MO-258-375875	\$31.93
	1	3/8	2-1/2	TiAlN	MO-268-375878	MO-258-375878	\$39.76
7/16	1	7/16	2-3/4	Uncoated	MO-268-437100	MO-258-437100	\$42.40
	1	7/16	2-3/4	TiAlN	MO-268-437103	MO-258-437103	\$52.84
1/2	1	1/2	3	Uncoated	MO-268-500100	MO-258-500100	\$50.44
	1	1/2	3	TiAlN	MO-268-500103	MO-258-500103	\$60.87
5/8	1-1/4	5/8	3-1/2	Uncoated	MO-268-625114	MO-258-625114	\$75.13
	1-1/4	5/8	3-1/2	TiAlN	MO-268-625117	MO-258-625117	\$92.16
3/4	1-1/2	3/4	4	Uncoated	MO-268-750112	MO-258-750112	\$127.40
	1-1/2	3/4	4	TiAlN	MO-268-750115	MO-258-750115	\$145.93
1	1-1/2	1	4	Uncoated	MO-268-100112	MO-258-100112	\$195.33
	1-1/2	1	4	TiAlN	MO-268-100115	MO-258-100115	\$222.60

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-ROUGHING

3 FLUTE ROUGHING ENDMILLS FINE PITCH & SPECIAL GEOMETRY

Cobalt, Carbide & Stellar One
For Aluminum



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	



3 Flute Coarse & Fine Pitch & Special Geometry ROUGHERS

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Helix Angle	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
3/16	COB	1/2	3/8	2-3/8	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP1206	\$19.57	B
	CAR	3/4	1/4	2-1/2	CC	Fine Pitch - For Aluminum	-	A	SE	-	YG1 X-Power	YG-EM93112	\$25.46	C
	CAR	3/4	1/4	2-1/2	CC	Fine Pitch - For Aluminum	-	A	SE	-	YG1 Jet Power	YG-EM95079	\$24.03	C
	COB	5/8	3/8	2-7/16	CC	Fine Pitch - For Aluminum	-	L	SE	-	YG1	YG-EM76297CF	\$25.43	C
	COB	5/8	3/8	2-7/16	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1208	\$19.98	B
	COB	5/8	3/8	2-7/16	NC	Coarse Pitch - For Steels	-	C	SE	-	YG1	YG-EM70297CC	\$23.11	C
	COB	5/8	3/8	2-7/16	NC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM60297	\$14.56	C
	COB	5/8	3/8	2-7/16	NC	Coarse Pitch - For Steels	-	U	SE	-	YG1	YG-EM70297	\$16.02	C
1/4	COB	1-1/8	3/8	2-15/16	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1208-L	\$21.66	B
	STE	5/8	3/8	2-7/16	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-0806	\$21.84	C
	CAR	3/4	5/16	2-1/2	CC	Fine Pitch - For Aluminum	-	A	SE	-	YG1 X-Power	YG-EM93113	\$35.51	C
	CAR	3/4	5/16	2-1/2	CC	Fine Pitch - For Aluminum	-	A	SE	-	YG1 Jet Power	YG-EM95080	\$32.30	C
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1210	\$21.02	B
5/16	COB	3/4	3/8	2-1/2	NC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM60301	\$14.56	C
	COB	1-3/8	3/8	3-1/8	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1210-L	\$25.93	B
	CAR	7/8	3/8	2-1/2	CC	Fine Pitch - For Aluminum	-	A	SE	-	YG1 X-Power	YG-EM93114	\$42.00	C
	COB	3/4	3/8	2-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-1208	\$26.89	C
	COB	3/4	3/8	2-1/2	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-1208	\$34.97	C
3/8	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM66305	\$20.38	C
	COB	1-3/8	3/8	3-1/8	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-1213	\$35.10	C
	COB	1-3/8	3/8	3-1/8	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-1213	\$45.62	C
	COB	1-1/2	3/8	3-1/4	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1212-L	\$24.94	B
	COB	1/2	1/2	2-9/16	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERPS-1616-2	\$23.95	B
	COB	1-1/4	1/2	3-1/4	CC	Sp. Geom Rough-Polished Fits-Alum	-	C	SE	Yes	MINICUT	MN930PM-1612	\$46.81	C
	COB	1-1/4	1/2	3-1/4	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-1612	\$27.71	C
1/2	COB	1-1/4	1/2	3-1/4	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-1612	\$36.04	C
	COB	1-1/4	1/2	3-1/4	CC	Sp. Geom Rough-Polished Fits-Alum	-	U	SE	Yes	MINICUT	MN930PM-1612	\$41.75	C
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM66321	\$28.00	C
	COB	1-5/8	1/2	3-5/8	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-1616-M	\$28.74	B
	COB	2	1/2	4	CC	Sp. Geom Rough-Polished Fits-Alum	-	C	SE	Yes	MINICUT PM	MN930P-1620	\$58.98	C
	COB	2	1/2	4	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-1620	\$36.12	C
	COB	2	1/2	4	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-1620	\$46.98	C
	COB	2	1/2	4	CC	Sp. Geom Rough-Polished Fits-Alum	-	U	SE	Yes	MINICUT PM	MN930PM-1620	\$53.92	C
	COB	3	1/2	5	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-1630	\$46.40	C
	STE	1-1/4	1/2	3-1/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-1612	\$26.81	C
5/8	STE	2	1/2	4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-1620	\$35.37	C
	COB	3/4	5/8	2-7/8	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERPS-2020	\$26.64	B
	COB	1-5/8	5/8	3-3/4	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2016	\$38.93	C
	COB	1-5/8	5/8	3-3/4	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2016	\$50.63	C
	COB	2-1/2	5/8	4-5/8	CC	Sp. Geom Rough-Polished Fits-Alum	-	C	SE	Yes	MINICUT	MN930P-2025	\$82.80	C
	COB	2-1/2	5/8	4-5/8	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2025	\$48.30	C
	COB	2-1/2	5/8	4-5/8	CC	Sp. Geom Rough-Polished Fits-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2025	\$67.78	C
	STE	1-5/8	5/8	3-3/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-2016	\$33.62	C
	STE	2-1/2	5/8	4-5/8	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-2025	\$40.84	C

3/4" & Larger Sizes Continued On Following Page

CHIP BRUSHES

- For cleaning chips from machinery and parts
- Wood handle
- Stiff plastic filament or tampico fiber bristles



Overall Width	Brush Thickness	Fill Material	Trim Length	Part Number	Price Each
1"	5/16"	Plastic Filament	1-3/4	OSB-72030	\$1.82
1-1/2"	11/16"	Black Tampico Fiber	1-7/8	OSB-73035	\$3.84
2"	7/16"	Plastic Filament	1-3/4	OSB-72031	\$2.84
3"	1/2"	Plastic Filament	2	OSB-72032	\$4.40

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

405

LATHES CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHES BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

CHUCK JAWS
LATHE WORKHOLDING
MACHINE VISES
MAGNETIC CHUCKS
RETENTION KNOBS
ER, DA, TG COLLETS
TOOLHOLDERS
TAP HOLDERS
INDEXABLE DRILLS
TURNING & BORING
ENDMILLS, DRILLS
TAPS & REAMERS
ABRASIVES
MEASURING TOOLS
MRO & SAFETY
FLAT STOCK/DRILL ROD

ENDMILLS-ROUGHING

3 FLUTE ROUGHING ENDMILLS (continued) FINE PITCH & SPECIAL GEOMETRY Cobalt, Carbide & Stellar One For Aluminum



List 930

List 930P

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	

3 Flute Coarse & Fine Pitch & Special Geometry ROUGHERS (continued)

ALSO AVAILABLE!

MICRO IOO INTERNAL TOOL **MONSTER TOOL**

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Helix Angle	Coating	Type	Flats	Vendor	Part Number	Price Each	Code	
3/4	COB	3/4	3/4	3	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERPS-2424	\$36.62	B	
	COB	1-5/8	3/4	3-3/4	CC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM66359	\$43.05	C	
	COB	1-5/8	3/4	3-7/8	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2416	\$43.97	C	
	COB	1-5/8	3/4	3-7/8	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2416	\$64.37	C	
	COB	2	3/4	4-1/4	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-2424-2	\$41.30	B	
	COB	2-1/4	3/4	4-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2422	\$51.16	C	
	COB	2-1/4	3/4	4-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2422	\$66.52	C	
	COB	3	3/4	5-1/4	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-2424-L	\$50.40	B	
	COB	3	3/4	5-1/4	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2430	\$62.43	C	
	COB	3	3/4	5-1/4	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2430	\$75.86	C	
	COB	4	3/4	6-1/4	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2440	\$69.58	C	
	COB	4	3/4	6-1/4	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-2440	\$82.22	C	
STE	2-1/4	3/4	4-1/2	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-2422	\$45.13	C		
STE	3	3/4	5-1/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-2430	\$48.64	C		
STE	4	3/4	6-1/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-2440	\$70.14	C		
7/8	COB	1-7/8	7/8	4-1/8	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-2818	\$58.24	C	
1	COB	1-1/8	3/4	3-3/8	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERPS-2432	\$50.98	B	
	COB	1-1/2	3/4	3-3/4	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-2432	\$57.59	B	
	COB	2	1	4-1/2	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-3232	\$60.72	B	
	COB	2	1	4-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-3220	\$67.60	C	
	COB	2	1	4-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-3220	\$87.86	C	
	COB	2	1	4-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	-	U	SE	Yes	MINICUT PM	MN930PM-3220	\$113.62	C	
	COB	2	1	4-1/2	CC	Coarse Pitch - For Aluminum	-	U	SE	-	YG1	YG-EM66426	\$64.85	C	
	COB	3	1	5-1/2	CC	Coarse Pitch - For Aluminum	-	U	SE	Yes	MELIN	ME-ERP-3232-M	\$63.79	B	
	COB	3	1	5-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-3230	\$89.11	C	
	COB	3	1	5-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-3230	\$115.86	C	
	COB	4	1	6-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-3240	\$97.18	C	
	COB	4	1	6-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-3240	\$126.34	C	
	COB	6	1	8-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-3260	\$126.43	C	
	STE	2-1/4	1	4-3/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-3222	\$58.24	C	
	STE	3	1	5-1/2	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-3230	\$71.41	C	
	STE	4	1	6-1/2	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-3240	\$74.80	C	
	1-1/4	COB	2	1-1/4	4-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-4020	\$94.02	C
		COB	2	1-1/4	4-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-4020	\$122.24	C
COB		3	1-1/4	5-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-4030	\$114.62	C	
COB		3	1-1/4	5-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-4030	\$148.99	C	
COB		4	1-1/4	6-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-4040	\$135.20	C	
COB		4	1-1/4	6-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	43.5°	U	SE	Yes	MINICUT	MN930P-4040	\$175.76	C	
1-1/2	COB	6	1-1/4	8-1/2	CC	Special Geom Rough. - For Alum	43.5°	U	SE	Yes	MINICUT	MN930-4060	\$176.95	C	
	STE	2-1/4	1-1/4	4-3/4	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-4022	\$75.53	C	
	STE	3	1-1/4	5-1/2	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-4030	\$101.13	C	
	STE	4	1-1/4	6-1/2	CC	Fine Pitch - For Aluminum	-	U	SE	-	MINICUT	MN820-4040	\$107.25	C	
1-1/2	COB	2	1-1/4	4-1/2	CC	Sp. Geom Rough-Polished Flts-Alum	-	U	SE	Yes	MINICUT	MN930P-4820	\$145.95	C	



BALANCED TOOLHOLDERS FOR INCREASED SPEED & SPINDLE LIFE!

Kingston Tool offers a complete line of balanced CNC tool holders, manufactured to meet today's machinists need for speed and accuracy at a competitive price. Balanced to 12000 rpm @ g6.3, Kingston Balanced Toolholders increase spindle and tool life, as well as helping to improve surface finish.



Please See Pages 177-225
For Our Complete Selection!

Balanced Toolholders
Starting At Only
\$53.50 each

FEATURES:

- Balanced to 12,000 rpm @ g6.3
- Manufactured to the highest degree of technical excellence to ISO9002 quality control standards
- Certification included with each holder
- Crafted from SAE 8620 alloy steel
- AT3 Class Accuracy
- Balanced holders result in less vibration, chatter and extended tool life.
- 100% Satisfaction Guaranteed!

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-ROUGHING

4 FLUTE ROUGHING ENDMILLS COARSE & FINE PITCH

Cobalt, Carbide & Stellar One
For 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= TiTiN 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 Coarse & Fine Pitch ROUGHERS

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
3/16	COB	1/2	3/8	2-3/8	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-1206	\$19.57	B
1/4	COB	5/8	3/8	2-7/16	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1208	\$19.98	B
	COB	5/8	3/8	2-7/16	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1208	\$19.98	B
	COB	5/8	3/8	2-7/16	CC	Fine Pitch	U	SE	No	MELIN	ME-CFP-1208	\$19.98	B
	COB	1-1/8	3/8	2-15/16	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1208-L	\$21.66	B
5/16	COB	1-1/8	3/8	2-15/16	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1208-L	\$21.66	B
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1210	\$21.02	B
	COB	3/4	3/8	2-1/2	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1210	\$21.02	B
	COB	3/4	3/8	2-1/2	CC	Fine Pitch	U	SE	No	MELIN	ME-CFP-1210	\$21.02	B
3/8	COB	1-3/8	3/8	3-1/8	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1210-L	\$25.93	B
	COB	1-3/8	3/8	3-1/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1210-L	\$25.93	B
	COB	3/8	3/8	2-1/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFPS-1212	\$29.08	B
	COB	3/8	3/8	2-5/32	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM75305CC	\$27.35	C
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM76305CC	\$25.43	C
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM76305CF	\$25.43	C
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1212	\$23.89	B
	COB	3/4	3/8	2-1/2	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1212	\$23.89	B
	COB	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM76305	\$17.30	C
	COB	3/4	3/8	2-1/2	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM60305CC	\$21.65	C
7/16	COB	3/4	3/8	2-1/2	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM70305CC	\$23.11	C
	COB	3/4	3/8	2-1/2	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM60305CF	\$21.65	C
	COB	3/4	3/8	2-1/2	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60305	\$14.56	C
	COB	1-1/2	3/8	3-1/4	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1212-L	\$24.94	B
	COB	1-1/2	3/8	3-1/4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1212-L	\$24.94	B
	STE	3/4	3/8	2-1/2	CC	Fine Pitch	U	SE	-	MINICUT	MN816-1208	\$23.17	C
	STE	3/4	3/8	2-1/2	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-1208	\$23.17	C
	STE	1-3/8	3/8	3-1/8	CC	Fine Pitch	U	SE	-	MINICUT	MN816-1213	\$30.27	C
	STE	1-3/8	3/8	3-1/8	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-1213	\$30.27	C
	1/2	COB	1	3/8	2-11/16	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1214	\$24.94
COB		1	3/8	2-11/16	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1214	\$24.94	B
COB		1	3/8	2-11/16	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60312	\$20.29	C
CAR		5/8	1/2	3	CC	Fine Pitch	U	SE	-	YG1 X-Power	YG-EM93273	\$46.48	C
CAR		1	1/2	3	CC	Fine Pitch	U	SE	-	YG1 X-Power	YG-EM93115	\$66.95	C
COB		1/2	1/2	2-1/2	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM75321CC	\$36.50	C
COB		1/2	1/2	2-1/2	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM75321CF	\$36.50	C
COB		1/2	1/2	2-1/2	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFPS-1616	\$24.55	B
COB		5/8	1/2	2-5/8	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1616-2	\$24.55	B
COB		5/8	1/2	2-5/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1616-2	\$24.55	B
1/2	COB	5/8	1/2	2-5/8	NC	Fine Pitch	U	SE	No	MELIN	ME-CFPS-1616-2	\$23.95	B
	COB	1	1/2	3	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRPS-1616	\$24.55	B
	COB	1	1/2	3	NC	Fine Pitch	U	SE	No	MELIN	ME-CFPS-1616	\$24.55	B
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM76321CC	\$36.89	C
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM76321CF	\$36.89	C
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1616	\$26.29	B
	COB	1-1/4	1/2	3-1/4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1616	\$26.29	B
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM64321	\$22.01	C
	COB	1-1/4	1/2	3-1/4	CC	GP For Steels	U	SE	-	YG1	YG-EM73321	\$22.01	C
	COB	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM76321	\$23.79	C
1/2	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM60321CC	\$31.52	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM70321CC	\$33.23	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	I	SE	-	YG1	YG-EM60321CN	\$28.37	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM60321CF	\$31.52	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM70321CF	\$33.23	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRP-1616	\$26.29	B
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60321	\$20.29	C
	COB	1-1/4	1/2	3-1/4	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM70321	\$22.01	C

1/2" & Larger Sizes Continued On Following Page

Call Us Or Visit Our Website For Our Complete Selection!

LATHES CHUCKS
LIVE CENTERS
VISE ACCESSORIES
VISE JAWS
STRAIGHT SHANK
COLLET HOLDERS
LATHES BUSHINGS
DRILL CHUCKS
CARBIDE INSERTS
THREADING/GROOVING
CUTTING TOOLS
MACHINERY
PRECISION TOOLS
DEBURRING
COOLANT/FLUIDS
TOOL STORAGE

ENDMILLS-ROUGHING

4 FLUTE ROUGHING ENDMILLS (continued)

COARSE & FINE PITCH
Cobalt, Carbide & Stellar One
For 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 Coarse & Fine Pitch ROUGHERS (continued)

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/2	COB	1-5/8	1/2	3-5/8	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1616-M	\$28.74	B
	COB	1-5/8	1/2	3-5/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1616-M	\$28.74	B
	COB	2	1/2	4	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-1616-L	\$36.62	B
	COB	2	1/2	4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-1616-L	\$36.62	B
	COB	2	1/2	4	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRP-1616-L	\$36.62	B
	STE	1-1/4	1/2	3-1/4	CC	Fine Pitch	U	SE	-	MINICUT	MN816-1612	\$32.20	C
	STE	1-1/4	1/2	3-1/4	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-1612	\$32.20	C
	STE	2	1/2	4	CC	Fine Pitch	U	SE	-	MINICUT	MN816-1620	\$42.08	C
	STE	2	1/2	4	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-1620	\$42.08	C
	STE	3	1/2	5	CC	Fine Pitch	U	SE	-	MINICUT	MN816-1630	\$50.49	C
	STE	3	1/2	5	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-1630	\$50.49	C
	5/8	COB	1-3/8	1/2	3-3/8	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-1618	\$28.74
COB		5/8	5/8	2-3/4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFPS-2020	\$41.06	B
COB		1-1/4	5/8	3-3/4	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-2020-2	\$28.04	B
COB		1-5/8	5/8	3-3/4	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM76337CF	\$44.09	C
COB		1-5/8	5/8	3-3/4	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-2020	\$32.54	B
COB		1-5/8	5/8	3-3/4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-2020	\$32.54	B
COB		1-5/8	5/8	3-3/4	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM70337CC	\$39.87	C
COB		1-5/8	5/8	3-3/4	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-2020	\$32.54	B
COB		1-5/8	5/8	3-3/4	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60337	\$24.74	C
COB		2-1/2	5/8	4-5/8	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-2020-L	\$43.51	B
COB		2-1/2	5/8	4-5/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-2020-L	\$43.51	B
STE		1-5/8	5/8	3-3/4	CC	Fine Pitch	U	SE	-	MINICUT	MN816-2016	\$40.13	C
STE		1-5/8	5/8	3-3/4	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-2016	\$40.13	C
STE		2-1/2	5/8	4-5/8	CC	Fine Pitch	U	SE	-	MINICUT	MN816-2025	\$51.29	C
STE		2-1/2	5/8	4-5/8	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-2025	\$51.29	C
STE		3	5/8	5-1/8	CC	Fine Pitch	U	SE	-	MINICUT	MN816-2030	\$57.44	C
STE		3	5/8	5-1/8	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-2030	\$57.44	C
3/4		CAR	1-5/8	3/4	4	CC	Fine Pitch	U	SE	-	YG1	YG-EM93117	\$133.13
	COB	3/4	3/4	2-7/8	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM75359CC	\$54.63	C
	COB	3/4	3/4	3	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFPS-2424	\$54.21	B
	COB	3/4	3/4	3	NC	Fine Pitch	U	SE	No	MELIN	ME-CFPS-2424	\$36.62	B
	COB	1-1/4	3/4	3-1/2	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-2424-2	\$37.38	B
	COB	1-5/8	3/4	3-3/4	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM60359CC	\$45.62	C
	COB	1-5/8	3/4	3-3/4	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM60359CF	\$45.62	C
	COB	1-5/8	3/4	3-3/4	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60359	\$30.76	C
	COB	1-5/8	3/4	3-7/8	CC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM76359CC	\$53.88	C
	COB	1-5/8	3/4	3-7/8	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM76359CF	\$53.88	C
	COB	1-5/8	3/4	3-7/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-2424	\$39.66	B
	COB	1-5/8	3/4	3-7/8	CC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM64359	\$33.84	C
	COB	1-5/8	3/4	3-7/8	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM70359CC	\$48.70	C
	COB	1-5/8	3/4	3-7/8	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM70359CF	\$48.70	C
	COB	1-5/8	3/4	3-7/8	NC	Fine Pitch	U	SE	No	MELIN	ME-CFP-2424	\$39.66	B
	COB	1-5/8	3/4	3-7/8	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRP-2424	\$39.66	B
	COB	1-5/8	3/4	3-7/8	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM70359	\$33.84	C
	COB	2-1/4	3/4	4-5/8	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-2424-M	\$42.92	B
	COB	2-1/4	3/4	4-5/8	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-2424-M	\$42.92	B
	COB	2-1/2	3/4	4-5/8	NC	Coarse Pitch - For Steels	U	SE	No	MELIN	ME-CFP-2424-M	\$42.92	B
	COB	3	3/4	5-1/4	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-2424-L	\$50.40	B
	COB	3	3/4	5-1/4	CC	Fine Pitch	U	SE	No	MELIN	ME-CCFP-2424-L	\$50.40	B
	COB	3	3/4	5-1/4	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRP-2424-L	\$50.40	B
	COB	3	3/4	5-1/4	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM62359	\$38.46	C
STE	3	3/4	5-1/4	CC	Fine Pitch	U	SE	-	MINICUT	MN816-2430	\$59.71	C	
STE	3	3/4	5-1/4	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-2430	\$59.71	C	
STE	4	3/4	6-1/4	CC	Fine Pitch	U	SE	-	MINICUT	MN816-2440	\$71.66	C	
STE	4	3/4	6-1/4	CC	Coarse Pitch - For Steels	U	SE	-	MINICUT	MN811-2440	\$71.66	C	

Call Us Today For All Of Your Machine Tool Needs!

ENDMILLS-ROUGHING

5 & 6 FLUTE ROUGHING ENDMILLS COARSE & FINE PITCH

Cobalt & Carbide
For Steels



ALSO AVAILABLE!

MICRO 100 INTERNAL TOOL MONSTER TOOL



Minicut International
World Leader in Cutting Tool Technology



5 & 6 Flute Coarse & Fine Pitch ROUGHERS

Mill Dia	Material	LOC	Shank	OAL	Cut	Application	Coating	Type	Flats	Vendor	Part Number	Price Each	Code
1/2	CAR	1-1/4	1/2	3	CC	Fine Pitch	L	SE	-	YG1	YG-EM82593TF	\$74.87	C
1	COB	3/4	3/4	3	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRPS-2432	\$50.98	B
	COB	1-1/8	3/4	3-3/8	NC	Fine Pitch	U	SE	No	MELIN	ME-CFPS-2432	\$50.98	B
	COB	2	1	4-1/2	CC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM76426CF	\$82.18	C
	COB	2	1	4-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-3232	\$56.66	B
	COB	2	1	4-1/2	NC	Coarse Pitch - For Steels	C	SE	-	YG1	YG-EM70426CC	\$74.03	C
	COB	2	1	4-1/2	NC	Coarse Pitch - For Steels	L	SE	-	YG1	YG-EM70426CF	\$74.03	C
	COB	2	1	4-1/2	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM60426	\$44.49	C
	COB	3	1	5-1/2	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM61426	\$54.94	C
	COB	4	1	6-1/2	NC	Coarse Pitch - For Steels	U	SE	-	YG1	YG-EM62426	\$63.85	C
3/8	CAR	7/8	3/8	2-7/8	CC	Fine Pitch	U	SE	-	YG1 X-Power	YG-EM93121	\$54.45	C
1/2	CAR	1	1/2	3-1/4	CC	Fine Pitch	U	SE	-	YG1 X-Power	YG-EM93122	\$74.01	C
1-1/4	COB	2	1-1/4	4-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-4040	\$74.06	B
	COB	2	1-1/4	4-1/2	NC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CRP-4040	\$74.06	B
	COB	4	1-1/4	6-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-4040-L	\$103.32	B
1-1/2	COB	2	1-1/4	4-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-4048	\$100.81	B
	COB	4	1-1/4	6-1/2	CC	Coarse Pitch - For Steels	U	SE	Yes	MELIN	ME-CCRP-4048-L	\$139.79	B

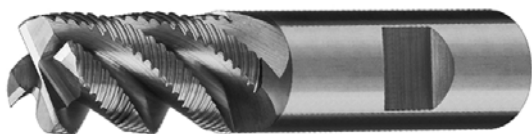
ROUGHING ENDMILLS SOLID CARBIDE 4 Flutes, SHR Series

- AlTiN Coated, 38° helix
- Designed to generate the maximum metal removal rates in most applications
- All tools 3/8" and over have Weldon flats

MICRO 100

NEW ITEM!

"The Shredder"



Dia.	Shank Dia.	OAL	Flute Length	Part Number	Price
1/4	1/4	2-1/2	3/4	MI-SHR2504X	\$36.75
5/16	5/16	2-1/2	13/16	MI-SHR3124X	\$42.50
3/8	3/8	2-1/2	7/8	MI-SHR3754X	\$51.95
1/2	1/2	3	1	MI-SHR5004X	\$74.80
5/8	5/8	3-1/2	1-1/4	MI-SHR6254X	\$130.00
3/4	3/4	4	1-1/4	MI-SHR7504X	\$179.85
1	1	4	1-1/4	MI-SHR0014X	\$245.60

ROUGHING ENDMILLS FOR ALUMINUM SOLID CARBIDE 3 Flutes, SAR Series

- 3 flute design, 38° helix
- Designed to generate the maximum metal removal rates in most applications
- Designed specifically for aluminum
- All tools 3/8" and over have Weldon flats

MICRO 100

NEW ITEM!

"The Shredder"



Dia.	Shank Dia.	OAL	Flute Length	Part Number	Price
1/4	1/4	2-1/2	3/4	MI-SAR2503	\$32.40
5/16	5/16	2-1/2	13/16	MI-SAR3123	\$36.15
3/8	3/8	2-1/2	7/8	MI-SAR3753	\$45.50
1/2	1/2	3	1	MI-SAR5003	\$66.60
5/8	5/8	3-1/2	1-1/4	MI-SAR6253	\$118.30
3/4	3/4	4	1-1/4	MI-SAR7503	\$165.80
1	1	4	1-1/4	MI-SAR0013	\$225.30

International Minicut® Index

Item	Description
Cobalt M-42 - Roughing Endmill	To Machine Aluminium
Pm Super Cobalt	For High Velocity Machining Of Aluminium
Minicut Stellar One - List 985	To Machine Inconel, Stainless & High Tensile Steels
List 995	To Machine Titanium Alloys
List 811 & 816 - Roughing Endmills	Coarse Pitch 811 & Fine Pitch 816
Combination Shank Endmills	High Helix For Aluminium
International Standard Endmills	High Helix For Aluminium
Cobalt M-42 - Finishing Endmill	To Machine Titanium Alloy

Minicut International
World Leader in Cutting Tool Technology



For additional information on International Minicut,
please visit www.minicut.com/

Call Us Or Visit Our Website For Our Complete Selection!

2010-11 Master Catalog

409

LATHE CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHE BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE