

## Ultra Precision End Mills



### EIV4 - 4 Flute Variable Fluted Endmill, Square End w/45° Chamfer

Tool Ordering No.	Cutter Diameter tol. +0 / -0.0006	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
EIV4-0125-	1/8"	XX	0.125	0.500	1.500
EIV4-0187-	3/16"	XX	0.187	0.625	2.00
EIV4-0250-	1/4"	XX	0.250	0.750	2.500
EIV4-0312-	5/16"	XX	0.312	0.750	2.500
EIV4-0375-	3/8"	XX	0.375	0.875	2.500
EIV4-0437-	7/16"	XX	0.437	0.875	2.500
EIV4-0500-	1/2"	XX	0.500	1.250	3.000
EIV4-0625-	5/8"	XX	0.625	1.250	3.500
EIV4-0750-	3/4"	XX	0.750	1.500	4.000
EIV4-1000-	1"	XX	1.000	1.500	4.000



### BI220 - 220° 2 Flute Endmill, Ballnose

Tool Ordering No.	Cutter Diameter tol. +0 / -0.0006	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
BI220-0125-	1/8"	0.125"	0.125	0.0938	1.500
BI220-0187-	3/16"	0.093"	0.187	0.141	2.000
BI220-0250-	1/4"	0.125"	0.250	0.188	2.500
BI220-0312-	5/16"	0.156"	0.312	0.234	2.500
BI220-0375-	3/8"	0.187"	0.375	0.281	2.500
BI220-0437-	7/16"	0.218"	0.437	0.328	2.500
BI220-0500-	1/2"	0.250"	0.500	0.375	3.000



### EIS2 - 2 Flute Endmill, Square End

Tool Ordering No.	Cutter Diameter tol. +0 / -0.0006	Corner Radius (R1)	Shank Dia. (D1)	Cutting Length (L1)	Total Length (L2)	Nose Taper Per Side
EIS2-031-	1/32"	XX	0.125	0.094	1.500	7.5 Deg
EIS2-062-	1/16"	XX	0.125	0.250	1.500	7.5 Deg
EIS2-093-	3/32"	XX	0.125	0.375	1.500	7.5 Deg
EIS2-0125-	1/8"	XX	0.125	0.500	1.500	-
EIS2-0187-	3/16"	XX	0.187	0.625	2.000	-
EIS2-0250-	1/4"	XX	0.250	0.750	2.500	-
EIS2-0312-	5/16"	XX	0.312	0.750	2.500	-
EIS2-0375-	3/8"	XX	0.375	0.875	2.500	-
EIS2-0437-	7/16"	XX	0.437	0.875	2.500	-
EIS2-0500-	1/2"	XX	0.500	1.250	3.000	-
EIS2-0625-	5/8"	XX	0.625	1.250	3.500	-
EIS2-0750-	3/4"	XX	0.750	1.500	4.000	-
EIS2-0875-	7/8"	XX	0.875	1.500	4.000	-
EIS2-1000-	1"	XX	1.000	1.500	4.000	-



### EIS4 - 4 Flute Endmill, Square End

Tool Ordering No.	Cutter Diameter tol. +0 / -0.0006	Corner Radius (R1)	Shank Dia. (D1)	Cutting Length (L1)	Total Length (L2)	Nose Taper Per Side
EIS4-031-	1/32"	XX	0.125	0.094	1.500	7.5 Deg
EIS4-062-	1/16"	XX	0.125	0.250	1.500	7.5 Deg
EIS4-093-	3/32"	XX	0.125	0.375	1.500	7.5 Deg
EIS4-0125-	1/8"	XX	0.125	0.500	1.500	-
EIS4-0187-	3/16"	XX	0.187	0.625	2.000	-
EIS4-0250-	1/4"	XX	0.250	0.750	2.500	-
EIS4-0312-	5/16"	XX	0.312	0.750	2.500	-
EIS4-0375-	3/8"	XX	0.375	0.875	2.500	-
EIS4-0437-	7/16"	XX	0.437	0.875	2.500	-
EIS4-0500-	1/2"	XX	0.500	1.250	3.000	-
EIS4-0625-	5/8"	XX	0.625	1.250	3.500	-
EIS4-0750-	3/4"	XX	0.750	1.500	4.000	-
EIS4-0875-	7/8"	XX	0.875	1.500	4.000	-

## Ultra Precision End Mills



### EMV4 - 4 Flute Variable Fluted Endmill, Square End w/45° Chamfer

Tool Ordering No.	Cutter Diameter tol. +0 /-0.015	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
EMV4-03-	3	XX	3	16	38
EMV4-04-	4	XX	4	20	50
EMV4-06-	6	XX	6	25	63
EMV4-08-	8	XX	8	25	63
EMV4-10-	10	XX	10	25	63
EMV4-12-	12	XX	12	25	76
EMV4-16-	16	XX	16	50	92
EMV4-20-	20	XX	20	50	101



### BM220 - 220° 2 Flute Endmill, Ballnose

Tool Ordering No.	Cutter Diameter tol. +0 /-0.015	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
BM220-03-	3	1,5	3	2,25	38
BM220-04-	4	2	4	3,00	50
BM220-06-	6	3	6	4,50	63
BM220-08-	8	4	8	6,00	63
BM220-10-	10	5	10	7,50	63
BM220-12-	12	6	12	9,00	76



### EMS2 - 2 Flute Endmill, Square End

Tool Ordering No.	Cutter Diameter tol. +0 /-0.015	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
EMS2-01-	1*	XX	3,000	4	38
EMS2-02-	2*	XX	3,000	8	38
EMS2-03-	3	XX	3,000	12	38
EMS2-04-	4	XX	4,000	14	50
EMS2-06-	6	XX	6,000	19	63
EMS2-08-	8	XX	8,000	22	63
EMS2-10-	10	XX	10,000	25	63
EMS2-12-	12	XX	12,000	25	76
EMS2-16-	16	XX	16,000	38	92
EMS2-20-	20	XX	20,000	38	101



### EMS4 - 4 Flute Endmill, Square End

Tool Ordering No.	Cutter Diameter tol. +0 /-0.015	Corner Radius (R1)	Shank Diameter (D1)	Cutting Length (L1)	Total Length (L2)
EMS4-03-	3	XX	3,000	12	38
EMS4-04-	4	XX	4,000	14	50
EMS4-06-	6	XX	6,000	19	63
EMS4-08-	8	XX	8,000	22	63
EMS4-10-	10	XX	10,000	25	63
EMS4-12-	12	XX	12,000	25	76
EMS4-16-	16	XX	16,000	38	92
EMS4-20-	20	XX	20,000	38	101



### BM - Ball Nose w/.75° Taper Neck HSN Coated

Tool Ordering No.	Cutter Diameter tol. +0 /-0.01	Corner Radius	Shank Diameter (h6)	No. of Flutes	Neck Taper Angle per Side	Cutting Length	Neck Taper Length	Overall Length
BM-2.0-HSN-16NL	2	1	6	2	0,75°	2	16	50
BM-2.0-HSN-21NL	2	1	6	2	0,75°	2	21	50
BM-2.0-HSN-26NL	2	1	6	2	0,75°	2	26	50
BM-2.0-HSN-31.75NL	2	1	6	2	0,75°	2	31,75	50
BM-2.4-HSN-16NL	2,4	1,2	6	2	0,75°	2,4	16	50
BM-2.4-HSN-21NL	2,4	1,2	6	2	0,75°	2,4	21	50
BM-2.4-HSN-26NL	2,4	1,2	6	2	0,75°	2,4	26	50
BM-2.4-HSN-31.75NL	2,4	1,2	6	2	0,75°	2,4	31,75	50