

# SOLID CARBIDE TOOLS

**HARDLine**<sup>®</sup>

BY PROFESSIONALS  
TO PROFESSIONALS



# Solid Carbide Tools

**HARDLine**

Up to 50 HRC

**TRUCUT**  
QUALITY CUTTING TOOLS



## 4 Flute Carbide End Mill / Flat / Std

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124SF-0100-M	o	1	2	50	4
124SF-0150-M	o	1	4	50	4
124SF-0200-M	o	2	5	50	4
124SF-0250-M	o	2	6	50	4
124SF-0300	o	3	8	50	3
124SF-0400	o	4	11	50	4
124SF-0500	o	5	13	50	5
124SF-0600	o	6	16	50	6
124SF-0800	o	8	20	60	8
124SF-1000	o	10	25	75	10
124SF-1200	o	12	30	75	12
124SF-1600	o	16	40	100	16
124SF-2000	o	20	40	100	20

## 2 Flute Carbide End Mill / Ball / Std

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
122SB-0100-M	o	1	2	50	4
122SB-0150-M	o	1	4	50	4
122SB-0200-M	o	2	5	50	4
122SB-0250-M	o	2	6	50	4
122SB-0300	o	3	6	50	3
122SB-0400	o	4	8	50	4
122SB-0500	o	5	10	50	5
122SB-0600	o	6	12	50	6
122SB-0800	o	8	16	60	8
122SB-1000	o	10	20	75	10
122SB-1200	o	12	24	75	12
122SB-1600	o	16	32	100	16

## 4 Flute Carbide End Mill / Flat / Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124LF-0300	o	3	8	75	3
124LF-0400	o	4	11	75	4
124LF-0500	o	5	10	75	5
124LF-0600	o	6	16	75	6

## 2 Flute Carbide End Mill / Ball / Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
122LB-0300	o	3	6	75	3
122LB-0400	o	4	8	75	4
122LB-0500	o	5	10	75	5
122LB-0600	o	6	12	75	6

## 4 Flute Carbide End Mill / Flat / Extra Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124ELF-0300	o	3	8	100	3
124ELF-0400	o	4	11	100	4
124ELF-0600	o	6	16	100	6
124ELF-0800	o	8	20	100	8
124ELF-1000	o	10	25	100	10
124ELF-1200	o	12	30	100	12

## 2 Flute Carbide End Mill / Ball / Extra Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
122ELB-0300	o	3	8	100	3
122ELB-0400	o	4	8	100	4
122ELB-0600	o	6	12	100	6
122ELB-0800	o	8	16	100	8
122ELB-1000	o	10	20	100	10
122ELB-1200	o	12	24	100	12

## 4 Flute Carbide End Mill / Flat / XX Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124XLF-0600	o	6	16	150	6
124XLF-0800	o	8	20	150	8
124XLF-1000	o	10	25	150	10
124XLF-1200	o	12	30	150	12

## 2 Flute Carbide End Mill / Ball / XX Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
122XLB-0600	o	6	12	150	6
122XLB-0800	o	8	16	150	8
122XLB-1000	o	10	20	150	10
122XLB-1200	o	12	24	150	12

## 4 Flute Carbide End Mill / Corner Radius

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124CRS-0305	o	3	8	50	3
124CRS-0310	o	3	8	50	3
124CRS-0405	o	4	11	50	4
124CRS-0410	o	4	11	50	4
124CRS-0505	o	5	13	50	5
124CRS-0510	o	5	13	50	5
124CRS-0605	o	6	16	50	6
124CRS-0610	o	6	16	50	6
124CRS-0810	o	8	20	75	8
124CRS-1010	o	10	25	75	10
124CRS-1210	o	12	30	75	12
124CRS-1220	o	12	30	75	12

## 4 Flute Carbide End Mill / Corner Radius / Extra Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124CREL-0410	o	4	11	100	4
124CREL-0610	o	6	16	100	6
124CREL-0810	o	8	20	100	8
124CREL-1010	o	10	25	100	10
124CREL-1210	o	12	30	100	12
124CREL-1220	o	12	30	100	12
124CREL-1610	o	16	32	100	16
124CREL-1620	o	16	32	100	16

## 4 Flute Carbide End Mill / Corner Radius / Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124CRL-0310	o	3	8	75	3
124CRL-0410	o	4	11	75	4
124CRL-0510	o	5	12	75	5
124CRL-0610	o	6	16	75	6

## 4 Flute Carbide End Mill / Corner Radius / XX Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
124CRXL-0610	o	6	16	150	6
124CRXL-0810	o	8	20	150	8
124CRXL-1010	o	10	25	150	10
124CRXL-1210	o	12	30	150	12
124CRXL-1220	o	12	30	150	12
124CRXL-1610	o	16	32	150	16
124CRXL-1620	o	16	32	150	16



**2 Flute Carbide End Mill / Flat / Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112SF-0040	°	0.40	0.8	50	4
112SF-0050	°	0.50	1.0	50	4
112SF-0060	°	0.60	1.2	50	4
112SF-0070	°	0.70	1.4	50	4
112SF-0080	°	0.80	1.6	50	4
112SF-0090	°	0.90	1.8	50	4

**2 Flute Carbide End Mill / Ball / Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112SB-0040	°	0.40	0.8	50	4
112SB-0050	°	0.50	1.0	50	4
112SB-0060	°	0.60	1.2	50	4
112SB-0070	°	0.70	1.4	50	4
112SB-0080	°	0.80	1.6	50	4
112SB-0090	°	0.90	1.8	50	4

**4 Flute Carbide End Mill / Flat / Std**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
114SF-0100	°	1.0	3	50.0	4.0
114SF-0150	°	1.5	4	50.0	4.0
114SF-0200	°	2.0	6	50.0	4.0
114SF-0300	°	3.0	8	50.0	4.0
114SF-0400	°	4.0	11	50.0	4.0
114SF-0500	°	5.0	13	50.0	6.0
114SF-0600	°	6.0	16	50.0	6.0
114SF-0800	°	8.0	20	60.0	8.0
114SF-1000	°	10.0	25	75.0	10.0
114SF-1200	°	12.0	30	75.0	12.0
114SF-1600	°	16.0	40	100.0	16.0
114SF-2000	°	20.0	45	100.0	20.0

**4 Flute Carbide End Mill / Flat / Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
114LF-0600	°	6.0	16	75.0	6.0
114LF-0800	°	8.0	20	100.0	8.0
114LF-1000	°	10.0	25	100.0	10.0
114LF-1200	°	12.0	30	100.0	12.0

**4 Flute Carbide End Mill / Flat / Extra Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
114ELF-0600	°	6.0	16	100.0	6.0
114ELF-0800	°	8.0	20	150.0	8.0
114ELF-1000	°	10.0	25	150.0	10.0
114ELF-1200	°	12.0	30	150.0	12.0

**4 Flute Carbide End Mill / Corner Radius / Std**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
114CRS-0605	-	6.0	12	50.0	6.0
114CRS-0610	-	6.0	12	50.0	6.0
114CRS-0615	-	6.0	12	50.0	6.0
114CRS-0805	-	8.0	16	60.0	8.0
114CRS-0810	-	8.0	16	60.0	8.0
114CRS-0815	-	8.0	16	60.0	8.0
114CRS-1010	-	10.0	20	75.0	10.0
114CRS-1015	-	10.0	20	75.0	10.0
114CRS-1020	-	10.0	20	75.0	10.0
114CRS-1210	-	12.0	24	75.0	12.0
114CRS-1215	-	12.0	24	75.0	12.0
114CRS-1220	-	12.0	24	75.0	12.0

**2 Flute Carbide End Mill / Ball / Std**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112SB-0100	°	1.0	2	50.0	4.0
112SB-0150	°	1.5	3	50.0	4.0
112SB-0200	°	2.0	4	50.0	4.0
112SB-0250	°	2.5	5	50.0	4.0
112SB-0300	°	3.0	6	50.0	4.0
112SB-0400	°	4.0	8	50.0	4.0
112SB-0500	°	5.0	10	50.0	6.0
112SB-0600	°	6.0	12	50.0	6.0
112SB-0800	°	8.0	16	60.0	8.0
112SB-1000	°	10.0	20	75.0	10.0
112SB-1200	°	12.0	24	75.0	12.0
112SB-1600	°	16.0	32	100.0	16.0

**2 Flute Carbide End Mill / Ball / Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112LB-0100	°	1.0	2	75.0	4.0
112LB-0150	°	1.5	3	75.0	4.0
112LB-0200	°	2.0	4	75.0	4.0
112LB-0250	°	2.5	5	75.0	4.0
112LB-0300	°	3.0	6	75.0	4.0
112LB-0400	°	4.0	8	75.0	4.0
112LB-0500	°	5.0	10	75.0	5.0
112LB-0600	°	6.0	12	75.0	6.0

**2 Flute Carbide End Mill / Ball / Extra Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112ELB-0200	°	2.0	4	100.0	4.0
112ELB-0300	°	3.0	6	100.0	4.0
112ELB-0400	°	4.0	8	100.0	4.0
112ELB-0600	°	6.0	12	100.0	6.0
112ELB-0800	°	8.0	16	100.0	8.0
112ELB-1000	°	10.0	20	100.0	10.0
112ELB-1200	°	12.0	24	100.0	12.0

**2 Flute Carbide End Mill / Ball / XX Long**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112XLB-0600	°	6.0	12	150.0	6.0
112XLB-0800	°	8.0	16	150.0	8.0
112XLB-1000	°	10.0	20	150.0	10.0
112XLB-1200	°	12.0	24	150.0	12.0

**2 Flute Carbide End Mill / Corner Radius / Std**

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112CRS-0302	-	3.0	6	50.0	3.0
112CRS-0305	-	3.0	6	50.0	3.0
112CRS-0402	-	4.0	8	50.0	4.0
112CRS-0405	-	4.0	8	50.0	4.0
112CRS-0605	-	6.0	12	50.0	6.0
112CRS-0610	-	6.0	12	50.0	6.0
112CRS-0615	-	6.0	12	50.0	6.0
112CRS-0805	-	8.0	16	60.0	8.0
112CRS-0810	-	8.0	16	60.0	8.0
112CRS-0815	-	8.0	16	60.0	8.0
112CRS-1010	-	10.0	20	75.0	10.0
112CRS-1015	-	10.0	20	75.0	10.0
112CRS-1020	-	10.0	20	75.0	10.0
112CRS-1210	-	12.0	24	75.0	12.0
112CRS-1215	-	12.0	24	75.0	12.0
112CRS-1220	-	12.0	24	75.0	12.0



## 2 Flute Carbide End Mill / Flat Rib Type

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112FRN-0106	-	1.0	2	50.0	4.0
112FRN-0108	-	1.0	2	50.0	4.0
112FRN-0110	-	1.0	2	50.0	4.0
112FRN-1508	-	1.5	2	50.0	4.0
112FRN-1512	-	1.5	2	50.0	4.0
112FRN-1516	-	1.5	2	50.0	4.0
112FRN-0206	-	2.0	3	50.0	4.0
112FRN-0208	-	2.0	3	50.0	4.0
112FRN-0210	-	2.0	3	50.0	4.0
112FRN-0212	-	2.0	3	50.0	4.0
112FRN-0216	-	2.0	3	50.0	4.0
112FRN-0220	-	2.0	3	50.0	4.0
112FRN-2508	-	2.5	4	50.0	4.0
112FRN-2512	-	2.5	4	50.0	4.0
112FRN-2516	-	2.5	4	50.0	4.0
112FRN-2520	-	2.5	4	50.0	4.0
112FRN-0310	-	3.0	5	60.0	6.0
112FRN-0316	-	3.0	5	60.0	6.0
112FRN-0320	-	3.0	5	60.0	6.0
112FRN-0410	-	4.0	6	60.0	6.0
112FRN-0416	-	4.0	6	60.0	6.0
112FRN-0420	-	4.0	6	60.0	6.0
112FRN-0516	-	5.0	8	60.0	6.0
112FRN-0525	-	5.0	8	60.0	6.0

## 2 Flute Carbide End Mill / Ball Rib Type

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
112BRN-0106	-	1.0	2	50.0	4.0
112BRN-0108	-	1.0	2	50.0	4.0
112BRN-0110	-	1.0	2	50.0	4.0
112BRN-1508	-	1.5	2	50.0	4.0
112BRN-1512	-	1.5	2	50.0	4.0
112BRN-1516	-	1.5	2	50.0	4.0
112BRN-0206	-	2.0	3	50.0	4.0
112BRN-0208	-	2.0	3	50.0	4.0
112BRN-0210	-	2.0	3	50.0	4.0
112BRN-0212	-	2.0	3	50.0	4.0
112BRN-0216	-	2.0	3	50.0	4.0
112BRN-0220	-	2.0	3	50.0	4.0
112BRN-2508	-	2.5	4	50.0	4.0
112BRN-2512	-	2.5	4	50.0	4.0
112BRN-2516	-	2.5	4	50.0	4.0
112BRN-2520	-	2.5	4	50.0	4.0
112BRN-0310	-	3.0	5	60.0	6.0
112BRN-0316	-	3.0	5	60.0	6.0
112BRN-0320	-	3.0	5	60.0	6.0
112BRN-0410	-	4.0	6	60.0	6.0
112BRN-0416	-	4.0	6	60.0	6.0
112BRN-0420	-	4.0	6	60.0	6.0
112BRN-0516	-	5.0	8	60.0	6.0
112BRN-0525	-	5.0	8	60.0	6.0

## 2 Flute Carbide End Mill / Corner Radius / Taper Neck

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
132CR-0330	-	3.0	6	70.0	6.0
132CR-0313	-	3.0	6	90.0	6.0
132CR-0430	-	4.0	8	70.0	6.0
132CR-0413	-	4.0	8	90.0	6.0
132CR-0530	-	5.0	10	90.0	8.0
132CR-0513	-	5.0	10	110.0	8.0
132CR-0630	-	6.0	12	90.0	8.0
132CR-0613	-	6.0	12	110.0	8.0
132CR-0830	-	8.0	14	100.0	10.0
132CR-0813	-	8.0	14	120.0	10.0
132CR-1030	-	10.0	18	110.0	12.0
132CR-1013	-	10.0	18	130.0	12.0
132CR-1230	-	12.0	22	140.0	16.0
132CR-1213	-	12.0	22	160.0	16.0

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
132SB-0330	-	3.0	6	70.0	6.0
132SB-0313	-	3.0	6	90.0	6.0
132SB-0430	-	4.0	8	70.0	6.0
132SB-0413	-	4.0	8	90.0	6.0
132SB-0530	-	5.0	10	90.0	8.0
132SB-0513	-	5.0	10	110.0	8.0
132SB-0630	-	6.0	12	90.0	8.0
132SB-0613	-	6.0	12	110.0	8.0
132SB-0830	-	8.0	14	100.0	10.0
132SB-0813	-	8.0	14	120.0	10.0
132SB-1030	-	10.0	18	110.0	12.0
132SB-1013	-	10.0	18	130.0	12.0
132SB-1230	-	12.0	22	140.0	16.0
132SB-1213	-	12.0	22	160.0	16.0

## 6 Flute Carbide End Mill / Flat / Std

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
116SF-0600	o	6.0	16	50.0	6.0
116SF-0800	o	8.0	20	60.0	8.0
116SF-1000	o	10.0	25	75.0	10.0
116SF-1200	o	12.0	30	75.0	12.0
116SF-1600	o	16.0	40	100.0	16.0

## 6 Flute Carbide End Mill / Flat / Long

Item Code	Stock	Cutter Dia	Flute Length	OAL	Shank Dia
116LF-0600	o	6.0	25	65.0	6.0
116LF-0800	o	8.0	30	70.0	8.0
116LF-1000	o	10.0	35	75.0	10.0
116LF-1200	o	12.0	50	100.0	12.0
116LF-1600	o	16.0	60	100.0	16.0

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