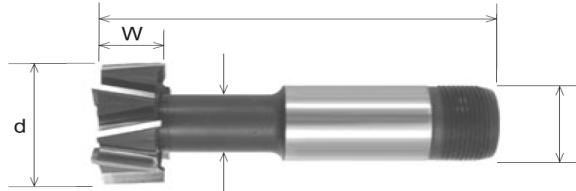


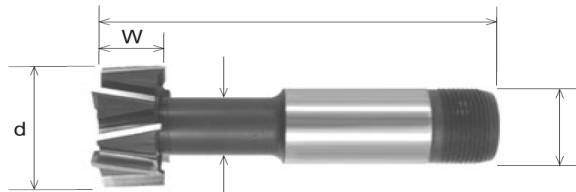
CAPITAL

CUTTING TOOLS



HSS THREADED SHANK T-SLOT CUTTERS - METRIC

Code	Bolt Size	O/D	Width	OAL	Shank	Neck	Teeth	\$ ea.
415T-02362	6	12.5	6	55	10	5	6	99.32
415T-03150	8	16	8	60	10	7	6	113.45
415T-03937	10	18	8	62	12	8	6	127.35
415T-04724	12	21	9	68	12	10	6	153.14
415T-05512	14	25	11	70	16	12	8	171.04
415T-06299	16	28	12	75	16	13	8	202.36
415T-07087	18	32	14	90	25	15	8	266.90
415T-07874	20	36	16	95	25	17	10	293.62
415T-08661	22	40	18	100	25	19	10	390.04



HSS THREADED SHANK T-SLOT CUTTERS - FRACTIONAL

Code	Bolt Size	O/D	Width	OAL	Shank	Neck	Teeth	\$ ea.
415T-02500	1/4	37/64	1/4	2.3/8	1/2	5	6	110.77
415T-03125	5/16	45/64	5/16	2.9/16	1/2	7	6	121.54
415T-03750	3/8	53/64	23/64	2.11/16	1/2	8	6	132.14
415T-04375	7/16	61/64	27/64	2.7/8	1/2	10	8	160.16
415T-05000	1/2	1.5/64	15/32	3.1/8	1/2	12	8	163.34
415T-06250	5/8	1.21/64	37/64	3.13/16	1"	13	8	211.11
415T-07500	3/4	1.33/64	11/16	4.1/8	1"	15	10	304.52
415T-08750	7/8	1.45/64	51/64	4.7/16	1"	17	10	369.56
415T-10000	1"	1.61/64	29/32	4.15/16	1"	19	10	461.40

CAPITAL

CUTTING TOOLS



HSS THREADED SHANK WOODRUFF CUTTERS - FRACTIONAL

Code	Size	O/D	Width	OAL	Shank	Neck	\$ ea.
W413-20400	204	1/2	1/16	56	1/2	8	73.79
W413-30400	304	1/2	3/32	56	1/2	8	73.79
W413-40400	404	1/2	1/8	56	1/2	8	73.79
W413-30500	305	5/8	3/32	56	1/2	8	73.79
W413-40500	405	5/8	1/8	56	1/2	8	83.02
W413-50500	505	5/8	5/32	56	1/2	8	79.98
W413-40600	406	3/4	1/8	56	1/2	8	75.96
W413-50600	506	3/4	5/32	56	1/2	8	78.18
W413-60600	606	3/4	3/16	56	1/2	8	78.18
W413-50700	507	7/8	5/32	64	1/2	8	93.38
W413-60700	607	7/8	3/16	64	1/2	8	93.38
W413-80700	807	7/8	1/4	64	1/2	8	93.38
W413-60800	608	1"	3/16	70	1/2	8	108.56
W413-80800	808	1"	1/4	70	1/2	8	108.56
W413-10080	1008	1"	5/16	70	1/2	8	108.56
W413-60900	609	1.1/8	3/16	70	1/2	8	144.49
W413-80900	809	1.1/8	1/4	70	1/2	8	144.49
W413-10090	1009	1.1/8	5/16	70	1/2	8	144.49
W413-81000	810	1.1/4	1/4	70	1/2	8	150.89
W413-10100	1010	1.1/4	5/16	70	1/2	8	150.89
W413-12100	1210	1.1/4	3/8	70	1/2	8	150.89
W413-81100	811	1.3/8	1/4	76	1/2	8	173.77
W413-10110	1011	1.3/8	5/16	76	1/2	8	173.77
W413-12110	1211	1.3/8	3/8	76	1/2	8	173.77
W413-81200	812	1.1/2	1/4	76	1/2	8	182.39
W413-10120	1012	1.1/2	5/16	76	1/2	8	182.39
W413-12120	1212	1.1/2	3/8	76	1/2	8	182.39

CAPITAL

CUTTING TOOLS

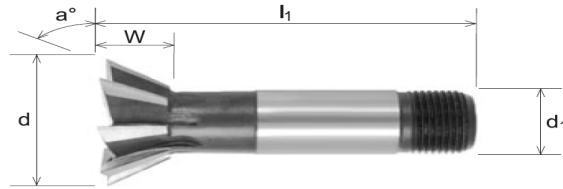


HSS THREADED SHANK WOODRUFF CUTTERS - METRIC

Code	Size	O/D	Width	OAL	Shank	Neck	\$ ea.
W414-10520	10.5	10.5	2.0	56	12	8	70.58
W414-10525	10.5	10.5	2.5	56	12	8	70.58
W414-10530	10.5	10.5	3.0	56	12	8	70.58
W414-13530	13.5	13.5	3.0	56	12	8	72.18
W414-13540	13.5	13.5	4.0	56	12	8	72.18
W414-16530	16.5	16.5	3.0	56	12	8	80.07
W414-16540	16.5	16.5	4.0	56	12	8	80.07
W414-16550	16.5	16.5	5.0	56	12	8	80.07
W414-19540	19.5	19.5	4.0	57	12	8	93.41
W414-19550	19.5	19.5	5.0	57	12	8	93.41
W414-19560	19.5	19.5	6.0	57	12	8	93.41
W414-22550	22.5	22.5	5.0	64	12	8	119.35
W414-22560	22.5	22.5	6.0	64	12	8	119.35
W414-22580	22.5	22.5	8.0	64	12	8	119.35
W414-22510	22.5	22.5	10.0	64	12	8	119.35
W414-25560	25.5	25.5	6.0	70	12	8	136.81
W414-28560	28.5	28.5	6.0	70	12	8	161.83
W414-28580	28.5	28.5	8.0	70	12	8	161.83
W414-28510	28.5	28.5	10.0	70	12	8	161.83
W414-32570	32.5	32.5	7.0	70	12	8	189.41
W414-32580	32.5	32.5	8.0	70	12	8	189.41
W414-32510	32.5	32.5	10.0	70	12	8	189.41
W414-45510	45.5	45.5	10.0	70	12	8	320.31

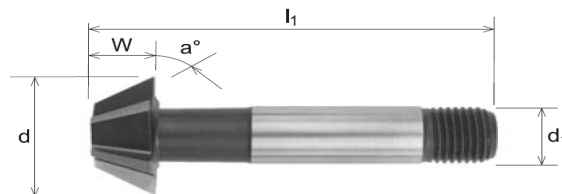
CAPITAL

CUTTING TOOLS



HSS THREADED SHANK DOVETAIL CUTTERS - METRIC

Code	Size	Angle	OAL	Shank O/D	Length	\$ ea.
428-16045	16.0	45	60	12	6	83.43
428-20045	20.0	45	63	12	8	106.75
428-25045	25.0	45	67	12	9	144.80
428-32045	32.0	45	71	16	12	206.62
428-40045	40.0	45	71	16	14	294.75
428-50045	50.0	45	71	16	18	346.43
429-16060	16.0	60	60	12	8	86.42
429-20060	20.0	60	63	12	10	109.25
429-25060	25.0	60	67	12	12	149.64
429-32060	32.0	60	71	16	19	215.75
429-40060	40.0	60	71	16	21	300.80
429-50060	50.0	60	71	16	26	374.81

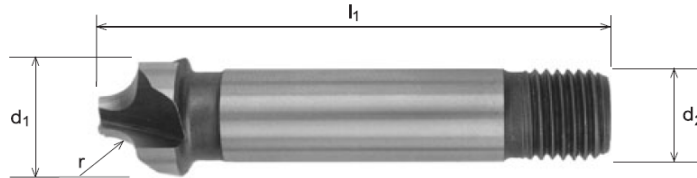


HSS THREADED SHANK INVERTED DOVETAIL CUTTERS - METRIC

Code	Size	Angle	OAL	Shank O/D	Length	\$ ea.
430-16045	16.0	45	60	12	6	88.05
430-20045	20.0	45	63	12	8	113.17
430-25045	25.0	45	67	12	9	151.74
430-32045	32.0	45	71	16	12	220.89
430-40045	40.0	45	71	16	14	305.69
430-50045	50.0	45	71	16	18	357.54
431-16060	16.0	60	60	12	8	89.80
431-20060	20.0	60	63	12	10	115.24
431-25060	25.0	60	67	12	12	154.93
431-32060	32.0	60	71	16	19	224.58
431-40060	40.0	60	71	16	21	308.29
431-50060	50.0	60	71	16	26	381.34

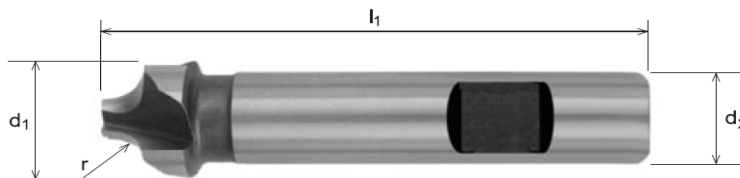
CAPITAL

CUTTING TOOLS



HSS THREADED SHANK CORNER ROUNDING CUTTERS - METRIC

Code	Radius	O/D	Shank	OAL	\$ ea.
450C-020	2	10	10	60	58.11
450C-030	3	12	12	60	66.73
450C-040	4	14	12	60	80.07
450C-050	5	16	12	60	92.15
450C-060	6	20	16	67	120.13
450C-080	8	24	16	71	163.50
450C-100	10	28	20	85	203.00
450C-120	12	34	20	90	296.95
450C-140	14	44	25	100	328.64
450C-160	16	48	25	100	433.63
450C-180	18	54	32	105	584.80
450C-200	20	56	32	112	726.26

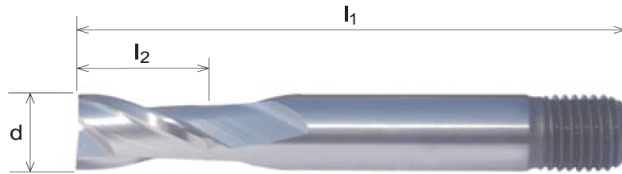


HSS FLATTED SHANK CORNER ROUNDING CUTTERS - METRIC

Code	Radius	O/D	Shank	OAL	\$ ea.
452C-020	2	10	10	60	56.03
452C-030	3	12	12	60	65.80
452C-040	4	14	12	60	80.07
452C-050	5	16	12	70	92.15
452C-060	6	20	16	70	120.13
452C-080	8	24	16	70	160.97
452C-100	10	28	20	85	203.00
452C-120	12	34	20	100	293.76
452C-140	14	44	25	100	328.64
452C-160	16	48	25	105	433.63
452C-180	18	54	32	112	584.80
452C-200	20	56	32	112	703.99

CAPITAL

CUTTING TOOLS



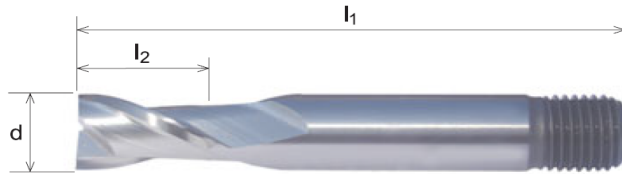
SLOT DRILLS Co8 - SHORT SERIES

THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
SD801-0150	1.5	2.5	48	40.73	SD803-652	7/16	17	65	29.64
SD803-590	1/16	2.5	48	21.93	SD801-1150	11.5	13	70	37.09
SD801-0200	2.0	4	48	21.38	SD803-653	15/32	17	65	28.89
SD803-592	3/32	5	51	21.93	SD801-1200	12.0	16	73	27.42
SD801-0250	2.5	5	49	28.57	SD803-659	1/2	19	67	28.89
SD801-0300	3.0	5	49	20.81	SD801-1300	13.0	16	73	30.42
SD803-616	1/8	8	51	19.96	SD801-1400	14.0	16	73	32.42
SD801-0350	3.5	6	50	28.57	SD803-663	9/16	22	69	33.60
SD803-619	5/32	10	52	16.93	SD801-1500	15.0	16	73	38.98
SD801-0400	4.0	7	51	17.55	SD803-664	5/8	22	72	35.64
SD801-0450	4.5	7	51	28.57	SD801-1600	16.0	19	79	37.07
SD803-623	3/16	10	52	17.64	SD801-1700	17.0	19	79	46.10
SD801-0500	5.0	8	52	17.55	SD803-037	11/16	24	74	45.70
SD801-0550	5.5	8	52	28.57	SD801-1800	18.0	19	79	44.09
SD803-627	7/32	11	56	18.59	SD801-1900	19.0	19	79	50.60
SD801-0600	6.0	8	52	20.81	SD803-668	3/4	25	77	47.62
SD803-630	1/4	11	56	20.93	SD801-2000	20.0	19	79	48.04
SD801-0650	6.5	10	60	37.09	SD803-045	13/16	25	98	82.03
SD801-0700	7.0	10	60	26.26	SD801-2100	21.0	26	102	84.08
SD803-634	9/32	11	59	26.68	SD801-2200	22.0	26	102	84.08
SD801-0750	7.5	10	60	37.09	SD803-049	7/8	25	100	84.08
SD803-637	5/16	13	60	26.26	SD801-2300	23.0	26	102	84.08
SD801-0800	8.0	11	61	26.68	SD803-053	15/16	25	103	96.10
SD801-0850	8.5	11	61	37.09	SD801-2400	24.0	26	102	84.08
SD803-641	11/32	14	60	31.86	SD801-2500	25.0	26	102	84.08
SD801-0900	9.0	11	61	27.87	SD803-057	1"	27	95	84.08
SD801-0950	9.5	11	61	37.09	SD801-2600	26.0	26	102	108.05
SD803-645	3/8	14	60	26.68	SD803-061	1.1/16	28	95	110.08
SD801-1000	10.0	13	63	27.05	SD801-2800	28.0	26	102	147.03
SD803-648	13/32	16	60	35.52	SD803-065	1.1/8	30	95	145.00
SD801-1050	10.5	13	70	37.09	SD801-3000	30.0	26	102	157.97
SD801-1100	11.0	13	70	29.20	SD803-073	1.1/4	35	117	165.30

CAPITAL

CUTTING TOOLS



SLOT DRILLS Co8 - SHORT SERIES

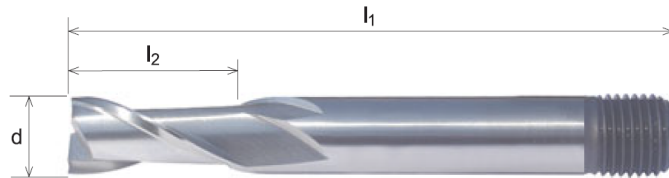
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
SD801-3200	32.0	32	112	189.15	SD801-4500	45.0	38	118	347.79
SD803-081	1.3/8	40	111	199.05	SD803-0108	1.7/8	45	125	361.31
SD801-3500	35.0	32	112	209.17	SD801-5000	50.0	45	125	361.31
SD801-3600	36.0	32	112	209.17	SD803-0122	2"	51	118	337.30
SD801-3800	38.0	43	115	209.17	SD801-5500	55.0	52	135	448.47
SD803-090	1.1/2	43	115	209.17	SD803-0130	2.1/4	57	142	460.88
SD801-4000	40.0	38	118	237.13	SD801-6000	60.0	60	147	519.85
SD803-098	1.5/8	48	118	247.17	SD803-0138	2.1/2	63	151	549.34
SD803-0104	1.3/4	48	118	269.14					

SLOT DRILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



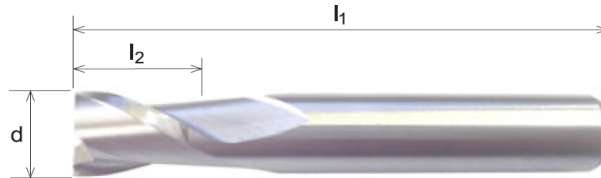
SLOT DRILLS Co8 - LONG SERIES

THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
SD804-590	1/16	5	53	22.21	SD802-1500	15.0	31	108	49.66
SD802-0200	2.0	4	51	24.97	SD804-664	5/8	32	108	52.02
SD804-592	3/32	6	54	21.77	SD802-1600	16.0	31	108	64.10
SD802-0250	2.5	7	54	33.05	SD802-1700	17.0	35	114	70.03
SD802-0300	3.0	11	60	24.97	SD804-037	11/16	35	114	64.10
SD804-616	1/8	11	64	22.78	SD802-1800	18.0	35	114	76.05
SD802-0350	3.5	12	66	33.05	SD802-1900	19.0	38	120	70.03
SD804-619	5/32	12	66	21.55	SD804-668	3/4	38	120	72.11
SD802-0400	4.0	12	66	19.82	SD802-2000	20.0	38	120	115.27
SD802-0450	4.5	12	66	33.05	SD804-045	13/16	38	120	115.27
SD804-623	3/16	13	70	21.55	SD802-2100	21.0	38	120	115.27
SD802-0500	5.0	12	70	20.44	SD802-2200	22.0	41	140	108.05
SD802-0550	5.5	16	76	33.05	SD804-049	7/8	42	140	117.98
SD804-627	7/32	16	76	22.21	SD802-2300	23.0	41	152	138.40
SD802-0600	6.0	16	76	24.32	SD802-2400	24.0	41	152	146.71
SD804-630	1/4	16	76	24.92	SD802-2500	25.0	44	159	120.22
SD802-0650	6.5	16	76	46.27	SD804-057	1"	44	159	146.71
SD802-0700	7.0	16	76	29.70	SD802-2600	26.0	44	159	200.34
SD804-634	9/32	16	76	30.42	SD802-2800	28.0	47	159	197.37
SD802-0750	7.5	16	76	46.27	SD804-065	1.1/8	48	159	218.46
SD804-637	5/16	19	79	31.22	SD802-3000	30.0	51	159	257.30
SD802-0800	8.0	19	79	31.67	SD804-073	1.1/4	51	159	230.10
SD802-0850	8.5	22	82	46.27	SD802-3200	32.0	51	159	261.54
SD804-641	11/32	22	82	40.90	SD804-081	1.3/8	54	159	264.66
SD802-0900	9.0	22	82	33.78	SD802-3500	35.0	54	159	267.81
SD802-0950	9.5	22	82	33.05	SD802-3600	36.0	54	159	279.45
SD804-645	3/8	22	73	31.67	SD802-3800	38.0	57	159	283.11
SD802-1000	10.0	22	82	32.31	SD804-090	1.1/2	57	159	350.24
SD802-1100	11.0	22	89	36.62	SD802-4000	40.0	63	159	332.32
SD804-652	7/16	22	89	35.64	SD802-4200	42.0	63	159	342.11
SD802-1200	12.0	25	95	36.06	SD804-0104	1.3/4	64	159	362.44
SD804-659	1/2	25	95	35.06	SD802-4500	45.0	63	159	453.45
SD802-1300	13.0	25	95	41.05	SD802-5000	50.0	63	159	353.73
SD802-1400	14.0	28	101	45.58	SD804-0122	2"	64	159	353.73
SD804-663	9/16	29	102	52.02					

CAPITAL

CUTTING TOOLS



SLOT DRILLS PLAIN SHANK Co8 - SHORT SERIES

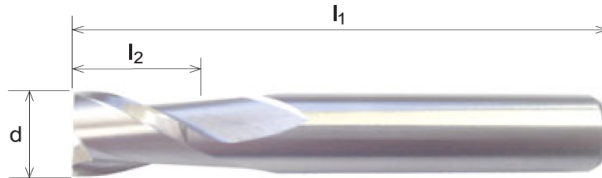
CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
SP801-0200	2.0	4	48	21.38	SP803-659	1/2	19	67	28.88
SP801-0250	2.5	5	49	28.57	SP801-1300	13.0	16	73	30.42
SP801-0300	3.0	5	49	20.81	SP801-1400	14.0	16	73	32.42
SP803-616	1/8	6	50	19.95	SP803-663	9/16	22	69	33.60
SP801-0350	3.5	6	50	28.57	SP801-1500	15.0	16	73	38.98
SP801-0400	4.0	7	51	17.55	SP803-664	5/8	22	72	35.64
SP801-0450	4.5	7	51	28.57	SP801-1600	16.0	19	79	37.09
SP801-0500	5.0	8	52	17.55	SP801-1700	17.0	19	79	46.10
SP801-0550	5.5	8	52	28.57	SP801-1800	18.0	19	79	44.09
SP801-0600	6.0	8	52	20.81	SP801-1900	19.0	19	79	50.60
SP803-630	1/4	11	56	20.93	SP803-668	3/4	25	77	47.62
SP801-0650	6.5	10	60	37.09	SP801-2000	20.0	19	79	48.04
SP801-0700	7.0	10	60	26.44	SP801-2100	21.0	26	102	84.09
SP801-0750	7.5	10	60	37.09	SP801-2200	22.0	26	102	84.09
SP803-637	5/16	13	60	26.26	SP803-049	7/8	25	100	84.09
SP801-0800	8.0	11	61	26.68	SP801-2300	23.0	26	102	84.09
SP801-0850	8.5	11	61	37.09	SP801-2400	24.0	26	102	84.09
SP801-0900	9.0	11	61	27.87	SP801-2500	25.0	26	102	84.09
SP801-0950	9.5	11	61	37.09	SP803-057	1"	27	95	84.09
SP803-645	3/8	14	60	26.68	SP801-3200	32.0	30	105	189.14
SP801-1000	10.0	13	63	27.05	SP801-3500	35.0	30	105	209.17
SP801-1100	11.0	13	70	29.22	SP801-4000	40.0	30	105	237.13
SP803-652	7/16	17	65	29.64	SP801-4500	45.0	30	105	347.79
SP801-1200	12.0	16	73	27.42					

SLOT DRILLS - 1.1/8 and over 1" Shank
 28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



SLOT DRILLS PLAIN SHANK Co8 - LONG SERIES

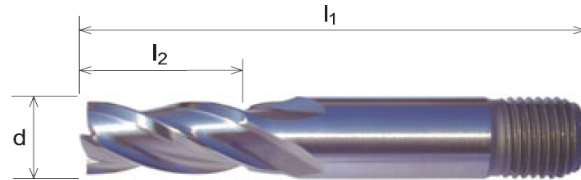
CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
SP802-0200	2.0	7	54	24.97	SP804-652	7/16	22	102	36.62
SP802-0250	2.5	8	56	33.05	SP802-1200	12.0	26	110	36.06
SP802-0300	3.0	8	56	24.97	SP804-659	1/2	25	110	36.06
SP802-0350	3.5	10	59	33.05	SP802-1300	13.0	26	110	41.05
SP802-0400	4.0	11	63	19.80	SP802-1400	14.0	26	110	43.06
SP802-0450	4.5	11	63	33.05	SP804-663	9/16	29	102	52.02
SP802-0500	5.0	13	68	20.44	SP802-1500	15.0	26	110	52.02
SP802-0550	5.5	13	68	33.05	SP804-664	5/8	32	108	52.02
SP802-0600	6.0	13	68	24.32	SP802-1600	16.0	32	123	52.02
SP804-630	1/4	16	80	24.32	SP802-1700	17.0	32	123	64.10
SP802-0650	6.5	16	80	46.27	SP802-1800	18.0	32	123	64.10
SP802-0700	7.0	16	80	29.70	SP802-1900	19.0	32	123	76.05
SP802-0750	7.5	16	80	46.27	SP804-668	3/4	38	141	76.05
SP804-637	5/16	19	88	31.67	SP802-2000	20.0	38	141	72.11
SP802-0800	8.0	19	88	31.67	SP802-2100	21.0	38	141	108.05
SP802-0850	8.5	19	88	46.27	SP802-2200	22.0	28	141	108.05
SP802-0900	9.0	19	88	33.05	SP804-049	7/8	42	166	108.05
SP802-0950	9.5	19	88	46.27	SP802-2300	23.0	45	166	120.23
SP804-645	3/8	22	95	32.42	SP802-2400	24.0	45	166	120.23
SP802-1000	10.0	22	95	32.42	SP802-2500	25.0	45	166	120.23
SP802-1100	11.0	22	102	36.62	SP804-057	1"	44	166	120.23

SLOT DRILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



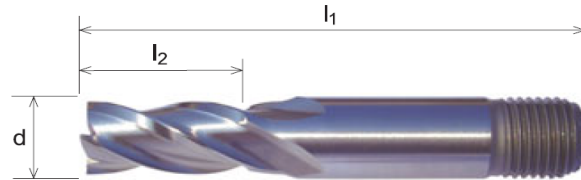
ENDMILLS Co8 - SHORT SERIES

THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
EM801-0150	1.5	6	51	37.09	EM803-652	7/16	22	67	25.42
EM801-0200	2.0	6	51	21.62	EM801-1150	11.5	21	66	46.83
EM801-0250	2.5	6	51	37.09	EM801-1200	12.0	24	70	27.42
EM801-0300	3.0	9	54	16.68	EM803-659	1/2	24	70	27.05
EM803-616	1/8	10	54	16.68	EM801-1300	13.0	24	70	53.82
EM801-0350	3.5	12	57	28.57	EM801-1400	14.0	28	73	31.41
EM803-619	5/32	13	57	16.68	EM803-663	9/16	29	73	33.05
EM801-0400	4.0	12	57	16.40	EM801-1500	15.0	26	71	62.40
EM801-0450	4.5	12	57	28.57	EM803-664	5/8	32	77	35.46
EM803-623	3/16	13	57	16.68	EM801-1600	16.0	26	77	36.48
EM801-0500	5.0	16	60	16.68	EM801-1700	17.0	35	80	44.09
EM801-0550	5.5	16	60	28.57	EM803-037	11/16	35	80	44.09
EM803-627	7/32	16	60	16.68	EM801-1800	18.0	35	80	44.09
EM801-0600	6.0	16	60	16.40	EM801-1900	19.0	38	83	47.19
EM803-630	1/4	16	60	16.68	EM803-668	3/4	38	83	46.71
EM801-0650	6.5	16	60	37.09	EM801-2000	20.0	38	83	49.05
EM801-0700	7.0	16	60	21.62	EM803-045	13/16	38	95	75.34
EM803-634	9/32	16	60	19.82	EM801-2100	21.0	41	98	49.05
EM801-0750	7.5	18	63	37.09	EM801-2200	22.0	41	98	78.12
EM803-637	5/16	18	64	20.86	EM803-049	7/8	41	98	84.43
EM801-0800	8.0	18	63	21.62	EM801-2300	23.0	41	98	65.98
EM801-0850	8.5	21	66	37.09	EM803-053	15/16	41	98	85.10
EM803-641	11/32	21	66	21.26	EM801-2400	24.0	41	98	88.13
EM801-0900	9.0	21	66	37.09	EM801-2500	25.0	44	101	88.13
EM801-0950	9.5	21	66	37.09	EM803-057	1"	43	102	85.10
EM803-645	3/8	22	67	21.26	EM801-2800	28.0	46	104	116.17
EM801-1000	10.0	21	66	21.62	EM803-065	1.1/8	46	105	151.69
EM803-648	13/32	21	66	24.21	EM801-3000	30.0	46	104	153.13
EM801-1050	10.5	21	66	46.83	EM803-073	1.1/4	51	113	170.70
EM801-1100	11.0	21	66	46.83	EM801-3200	32.0	51	112	209.41

CAPITAL

CUTTING TOOLS



ENDMILLS Co8 - SHORT SERIES

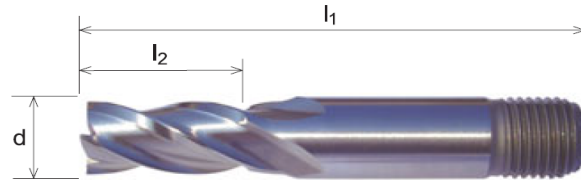
THREADED SHANK - CENTRE CUTTING

Code	Size	l_2	l_1	\$ ea.	Code	Size	l_2	l_1	\$ ea.
EM803-081	1.3/8	54	116	186.25	EM801-4500	45.0	57	119	307.12
EM801-3500	35.0	54	116	220.11	EM801-5000	50.0	65	127	343.43
EM801-3600	36.0	54	116	201.10	EM803-0122	2"	65	127	330.87
EM801-3800	38.0	54	116	215.09	EM801-5500	55.0	68	135	449.48
EM803-090	1.1/2	54	116	215.09	EM803-0130	2.1/4	68	135	461.41
EM801-4000	40.0	55	117	320.00	EM801-6000	60.0	74	143	520.64
EM803-0104	1.3/4	57	119	283.14	EM803-0138	2.1/2	74	143	550.72

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



ENDMILLS Co8 - LONG SERIES

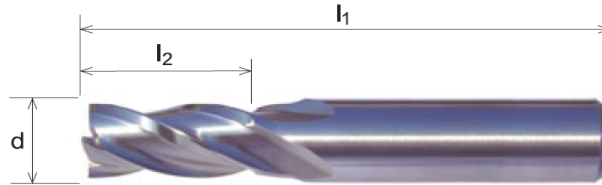
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
EM802-0300	3.0	19	63	21.38	EM802-1600	16.0	58	108	47.44
EM804-616	1/8	19	64	19.96	EM804-037	11/16	70	115	59.93
EM804-619	5/32	25	70	19.09	EM802-1800	18.0	70	115	60.86
EM802-0400	4.0	25	70	19.41	EM802-1900	19.0	76	121	65.75
EM804-623	3/16	25	70	18.59	EM804-668	3/4	76	121	67.53
EM802-0500	5.0	31	76	19.41	EM802-2000	20.0	76	121	68.71
EM804-627	7/32	32	76	19.09	EM802-2200	22.0	85	143	102.17
EM802-0600	6.0	31	76	20.27	EM804-049	7/8	86	143	102.17
EM804-630	1/4	32	76	19.41	EM802-2400	24.0	92	149	116.71
EM802-0700	7.0	34	79	24.83	EM802-2500	25.0	100	157	122.11
EM804-634	9/32	34	79	24.07	EM804-057	1"	100	157	122.08
EM804-637	5/16	34	79	23.62	EM802-2800	28.0	98	157	191.01
EM802-0800	8.0	34	79	25.25	EM804-065	1.1/8	100	157	191.01
EM802-0850	8.5	34	79	25.93	EM802-3000	30.0	101	163	210.58
EM802-0900	9.0	37	82	42.92	EM804-073	1.1/4	102	164	217.14
EM804-645	3/8	37	83	24.24	EM802-3200	32.0	101	163	219.36
EM802-1000	10.0	37	82	25.25	EM804-081	1.3/8	102	164	251.27
EM802-1100	11.0	41	89	52.87	EM802-3500	35.0	101	163	254.67
EM804-652	7/16	42	89	30.82	EM802-3800	38.0	101	163	269.19
EM802-1200	12.0	49	95	30.42	EM804-090	1.1/2	102	164	269.19
EM804-659	1/2	49	95	32.09	EM802-4000	40.0	101	163	339.46
EM802-1300	13.0	50	95	59.91	EM804-0104	1.3/4	102	164	318.51
EM802-1400	14.0	57	101	39.69	EM802-4500	45.0	101	163	349.08
EM804-663	9/16	57	102	41.05	EM802-5000	50.0	101	163	437.14
EM802-1500	15.0	58	103	68.20	EM804-0122	2"	102	164	437.14
EM804-664	5/8	59	109	50.08					

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



ENDMILLS PLAIN SHANK Co8 - SHORT SERIES

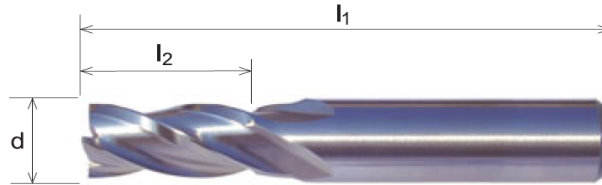
CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
EP801-0300	3.0	8	52	16.68	EP803-664	5/8	26	83	35.46
EP801-0400	4.0	11	55	16.40	EP801-1600	16.0	32	92	36.48
EP801-0500	5.0	13	57	16.68	EP801-1700	17.0	32	92	44.09
EP801-0600	6.0	13	57	16.40	EP801-1800	18.0	32	92	44.09
EP803-630	1/4	13	57	16.68	EP801-1900	19.0	32	92	47.19
EP801-0700	7.0	16	66	21.62	EP803-668	3/4	32	92	46.71
EP803-637	5/16	16	66	20.84	EP801-2000	20.0	38	104	49.05
EP801-0800	8.0	19	69	21.62	EP801-2100	21.0	38	104	49.05
EP801-0900	9.0	19	69	26.54	EP801-2200	22.0	38	104	78.12
EP803-645	3/8	22	72	21.28	EP803-049	7/8	38	104	84.43
EP801-1000	10.0	22	72	21.62	EP801-2300	23.0	38	104	65.98
EP801-1100	11.0	22	79	26.54	EP801-2400	24.0	38	104	88.13
EP803-652	7/16	22	79	25.42	EP801-2500	25.0	45	121	88.13
EP801-1200	12.0	26	83	27.42	EP803-057	1"	45	121	88.13
EP803-659	1/2	26	83	27.05	EP803-065	1.1/8	100	157	127.79
EP801-1300	13.0	26	83	38.31	EP801-3000	30.0	101	163	127.79
EP801-1400	14.0	26	83	31.41	EP801-3200	32.0	101	163	185.51
EP803-663	9/16	26	83	33.05	EP801-3500	35.0	101	163	196.21
EP801-1500	15.0	26	83	43.19	EP801-4000	40.0	101	163	296.10

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



ENDMILLS PLAIN SHANK Co8 - LONG SERIES

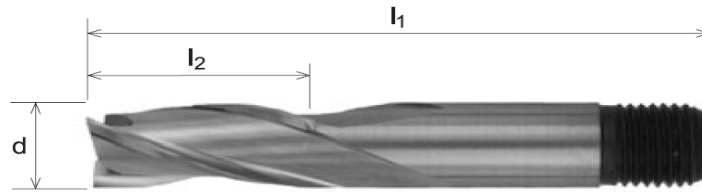
CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
EP802-0300	3.0	12	56	21.38	EP802-1300	13.0	53	110	53.82
EP802-0400	4.0	19	63	19.41	EP802-1400	14.0	53	110	39.69
EP802-0500	5.0	24	68	19.41	EP804-663	9/16	63	123	39.69
EP802-0600	6.0	24	68	20.27	EP802-1500	15.0	63	123	62.39
EP804-630	1/4	24	68	20.27	EP804-664	5/8	63	123	47.52
EP802-0700	7.0	30	80	24.83	EP802-1600	16.0	63	123	47.52
EP804-637	5/16	30	80	25.25	EP802-1800	18.0	63	123	60.86
EP802-0800	8.0	38	88	25.25	EP804-668	3/4	63	123	68.71
EP802-0900	9.0	38	88	37.08	EP802-2000	20.0	75	141	68.71
EP804-645	3/8	45	95	25.25	EP802-2200	22.0	75	141	108.47
EP802-1000	10.0	45	95	25.25	EP804-049	7/8	75	141	108.47
EP802-1100	11.0	45	102	46.83	EP802-2400	24.0	90	166	124.98
EP804-652	7/16	53	110	33.80	EP802-2500	25.0	90	166	124.98
EP802-1200	12.0	53	110	30.42	EP804-057	1"	90	166	124.98
EP804-659	1/2	53	110	30.42					

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



THREE FLUTE ENDMILLS Co8 - SHORT SERIES

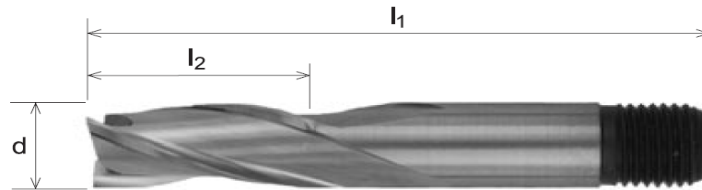
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
3F801-0300	3.0	9	54	25.37	3F803-663	9/16	29	73	41.03
3F801-0400	4.0	12	57	25.37	3F801-1500	15.0	26	71	47.11
3F801-0500	5.0	16	60	25.37	3F803-664	5/8	32	77	43.40
3F801-0600	6.0	16	60	25.37	3F801-1600	16.0	26	77	47.11
3F803-630	1/4	16	60	26.63	3F801-1700	17.0	35	80	53.10
3F801-0700	7.0	16	60	38.95	3F801-1800	18.0	35	80	53.10
3F803-637	5/16	18	64	31.78	3F801-1900	19.0	38	83	58.21
3F801-0800	8.0	18	63	32.43	3F803-668	3/4	38	83	58.21
3F801-0900	9.0	21	66	38.95	3F801-2000	20.0	38	83	64.38
3F803-645	3/8	22	67	32.43	3F801-2200	22.0	41	98	92.53
3F801-1000	10.0	21	66	38.95	3F803-049	7/8	41	98	92.53
3F801-1100	11.0	21	66	34.20	3F801-2500	25.0	44	101	113.06
3F803-652	7/16	22	67	36.23	3F803-057	1"	43	102	113.06
3F801-1200	12.0	24	70	34.20	3F803-065	1.1/8	46	105	211.32
3F803-659	1/2	24	70	35.04	3F803-073	1.1/4	51	113	216.79
3F801-1300	13.0	24	70	39.20	3F803-081	1.3/8	54	116	271.63
3F801-1400	14.0	28	73	38.22	3F803-090	1.1/2	54	116	283.36

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



THREE FLUTE ENDMILLS Co8 - LONG SERIES

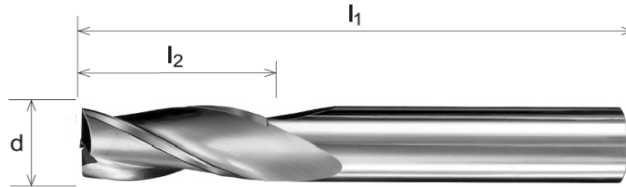
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
3F802-0600	6.0	31	76	31.04	3F804-664	5/8	59	109	62.77
3F804-630	1/4	32	76	31.04	3F802-1600	16.0	58	108	64.93
3F804-637	5/16	34	79	38.14	3F802-1800	18.0	70	115	71.35
3F802-0800	8.0	34	79	38.14	3F804-668	3/4	76	121	86.84
3F804-645	3/8	37	83	40.42	3F802-2000	20.0	76	121	108.64
3F802-1000	10.0	37	82	41.08	3F802-2200	22.0	85	143	139.66
3F802-1100	11.0	41	89	43.40	3F804-049	7/8	86	143	142.38
3F804-652	7/16	42	89	43.40	3F802-2500	25.0	100	157	152.74
3F802-1200	12.0	49	95	43.40	3F804-057	1"	100	157	152.74
3F804-659	1/2	49	95	43.40	3F804-065	1.1/8	100	157	298.81
3F802-1400	14.0	57	101	46.32	3F804-073	1.1/4	102	164	304.15
3F804-663	9/16	57	102	50.11	3F804-081	1.3/8	102	164	333.05
3F802-1500	15.0	58	103	64.93	3F804-090	1.1/2	102	164	334.09

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

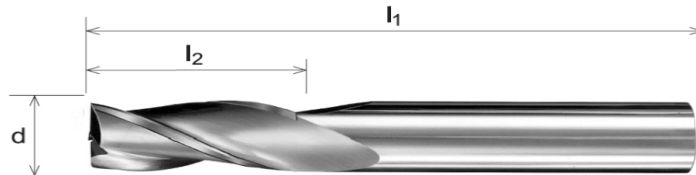
CUTTING TOOLS



THREE FLUTE ENDMILLS PLAIN SHANK Co8 - SHORT SERIES

CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
3P801-0300	3.0	9	54	25.37	3P801-1300	13.0	24	70	39.20
3P801-0400	4.0	12	57	25.37	3P801-1400	14.0	28	73	38.22
3P801-0500	5.0	16	60	25.37	3P801-1500	15.0	26	71	47.11
3P801-0600	6.0	16	60	25.37	3P801-1600	16.0	26	77	47.11
3P801-0700	7.0	16	60	38.95	3P801-1700	17.0	35	80	53.10
3P801-0800	8.0	18	63	32.43	3P801-1800	18.0	35	80	53.10
3P801-0900	9.0	21	66	38.95	3P801-1900	19.0	38	83	58.21
3P801-1000	10.0	21	66	38.95	3P801-2000	20.0	38	83	64.38
3P801-1100	11.0	21	66	34.20	3P801-2200	22.0	41	98	92.53
3P801-1200	12.0	24	70	34.20	3P801-2500	25.0	44	101	113.06



THREE FLUTE ENDMILLS PLAIN SHANK Co8 - LONG SERIES

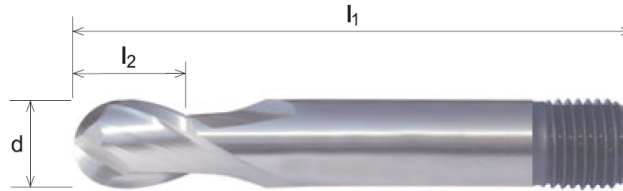
CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
3P802-0300	3.0	31	76	30.46	3P802-1300	13.0	57	101	46.32
3P802-0400	4.0	32	76	30.46	3P802-1400	14.0	57	102	46.32
3P802-0500	5.0	34	79	31.04	3P802-1500	15.0	58	103	64.93
3P802-0600	6.0	34	79	31.04	3P802-1600	16.0	59	109	64.93
3P802-0700	7.0	37	83	38.14	3P802-1800	18.0	70	115	71.09
3P802-0800	8.0	37	82	38.14	3P802-1900	19.0	76	121	108.64
3P802-0900	9.0	41	89	41.08	3P802-2000	20.0	76	121	108.64
3P802-1000	10.0	42	89	41.08	3P802-2200	22.0	85	143	139.66
3P802-1100	11.0	49	95	43.40	3P802-2500	25.0	86	143	152.74
3P802-1200	12.0	49	95	43.40					

ENDMILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



BALL NOSE SLOT DRILLS Co8 - SHORT SERIES

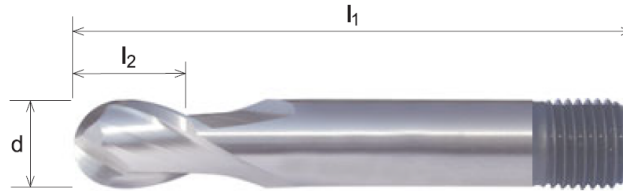
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
BSD801-0200	2.0	4	48	39.20	BSD803-668	3/4	25	77	95.50
BSD801-0300	3.0	5	49	34.29	BSD801-2000	20.0	19	79	106.83
BSD803-616	1/8	8	51	34.29	BSD801-2100	21.0	19	79	154.47
BSD801-0400	4.0	7	51	34.29	BSD801-2200	22.0	26	102	145.70
BSD803-623	3/16	10	52	34.29	BSD803-049	7/8	25	100	145.70
BSD801-0500	5.0	8	52	34.29	BSD801-2400	24.0	26	102	146.51
BSD801-0600	6.0	8	52	34.29	BSD801-2500	25.0	26	102	149.58
BSD803-630	1/4	11	56	34.29	BSD803-057	1"	27	95	152.34
BSD801-0700	7.0	10	60	49.52	BSD801-2800	28.0	26	102	219.61
BSD803-637	5/16	13	60	43.61	BSD803-065	1.1/8	30	95	219.61
BSD801-0800	8.0	11	61	47.35	BSD801-3000	30.0	26	102	331.56
BSD801-0900	9.0	11	61	60.33	BSD803-073	1.1/4	35	117	340.95
BSD803-645	3/8	14	60	43.61	BSD801-3200	32.0	32	112	340.95
BSD801-1000	10.0	13	63	60.19	BSD803-081	1.3/8	40	111	350.36
BSD801-1100	11.0	13	70	60.19	BSD801-3500	35.0	32	112	358.12
BSD803-652	7/16	17	65	45.00	BSD801-3800	38.0	43	115	434.53
BSD801-1200	12.0	16	73	60.19	BSD803-090	1.1/2	43	115	358.12
BSD803-659	1/2	19	67	60.19	BSD801-4000	40.0	38	118	434.53
BSD801-1300	13.0	16	73	71.18	BSD803-098	1.5/8	48	118	552.41
BSD801-1400	14.0	16	73	73.69	BSD803-0104	1.3/4	48	118	552.41
BSD801-1500	15.0	16	73	80.72	BSD801-4500	45.0	38	118	552.41
BSD803-664	5/8	22	72	80.72	BSD803-0108	1.7/8	45	125	636.49
BSD801-1600	16.0	19	79	80.72	BSD801-5000	50.0	45	125	625.53
BSD801-1700	17.0	19	79	95.50	BSD803-0122	2"	51	118	636.49
BSD801-1800	18.0	19	79	95.50					

SLOT DRILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



BALL NOSE SLOT DRILLS Co8 - LONG SERIES

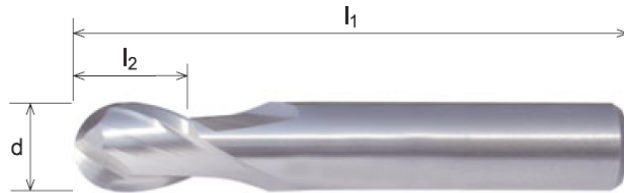
THREADED SHANK - CENTRE CUTTING

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
BSD802-0200	2.0	4	51	53.26	BSD802-1800	18.0	35	114	129.13
BSD802-0300	3.0	11	60	53.26	BSD804-668	3/4	38	121	132.38
BSD804-616	1/8	11	64	45.41	BSD802-2000	20.0	38	120	132.18
BSD802-0400	4.0	12	66	49.30	BSD802-2200	22.0	41	140	173.85
BSD804-623	3/16	13	70	49.30	BSD804-049	7/8	42	140	173.85
BSD802-0500	5.0	12	70	49.30	BSD802-2400	24.0	41	152	201.05
BSD802-0600	6.0	16	76	49.86	BSD802-2500	25.0	44	159	203.89
BSD804-630	1/4	16	76	49.86	BSD804-057	1"	44	159	203.89
BSD802-0700	7.0	16	76	61.36	BSD802-2800	28.0	47	159	265.73
BSD804-637	5/16	19	79	56.49	BSD804-065	1.1/8	48	159	265.73
BSD802-0800	8.0	19	79	56.49	BSD802-3000	30.0	51	159	371.56
BSD802-0900	9.0	22	82	65.05	BSD804-073	1.1/4	51	159	405.98
BSD804-645	3/8	22	73	59.82	BSD802-3200	32.0	51	159	405.98
BSD802-1000	10.0	22	82	59.82	BSD804-081	1.3/8	54	159	415.85
BSD802-1100	11.0	22	89	64.97	BSD802-3500	35.0	54	159	467.93
BSD804-652	7/16	22	89	64.97	BSD802-3800	38.0	57	159	526.21
BSD802-1200	12.0	25	95	67.83	BSD804-090	1.1/2	57	159	467.31
BSD804-659	1/2	25	95	67.83	BSD802-4000	40.0	63	159	526.21
BSD802-1300	13.0	25	95	67.83	BSD804-0104	1.3/4	64	159	619.07
BSD802-1400	14.0	28	101	74.47	BSD802-4500	45.0	63	159	619.07
BSD802-1500	15.0	31	108	81.70	BSD802-5000	50.0	63	159	681.49
BSD804-664	5/8	32	108	92.36	BSD804-0122	2"	64	159	687.88
BSD802-1600	16.0	31	108	102.71					

SLOT DRILLS - 1.1/8 and over 1" Shank
28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



BALL NOSE SLOT DRILLS PLAIN SHANK Co8 - SHORT SERIES

CENTRE CUTTING

Code	Size	l_2	l_1	\$ ea.	Code	Size	l_2	l_1	\$ ea.
BP801-0200	2.0	4	48	37.46	BP801-1300	13.0	16	73	70.09
BP801-0300	3.0	5	49	37.46	BP801-1400	14.0	16	73	70.09
BP801-0400	4.0	7	51	37.46	BP801-1500	15.0	16	73	74.13
BP801-0500	5.0	8	52	37.46	BP801-1600	16.0	19	79	84.31
BP801-0600	6.0	8	52	39.18	BP801-1700	17.0	19	79	94.94
BP801-0700	7.0	10	60	45.42	BP801-1800	18.0	19	79	94.94
BP801-0800	8.0	11	61	45.81	BP801-1900	19.0	19	79	121.74
BP801-0900	9.0	11	61	48.79	BP801-2000	20.0	19	79	107.83
BP801-1000	10.0	13	63	49.69	BP801-2200	22.0	26	102	157.96
BP801-1100	11.0	13	70	67.21	BP801-2400	24.0	26	102	167.33
BP801-1200	12.0	16	73	67.83	BP801-2500	25.0	26	102	170.96

SLOT DRILLS - 1.1/8 and over 1" Shank
 28.0mm and over 25.0mm Shank

CAPITAL

CUTTING TOOLS



PLAIN SHANK SLOT DRILL SETS - SHORT SERIES

Code	Sizes	\$ ea.
SP100	M3, M4, M5, M6, M8, M10, M12	203.05
SP200	M3, M4, M5, M6, M7, M8, M9, M10, M11, M12	283.36
SP300	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20	316.08
SP400	M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M14, M16, M20	396.39
SP500	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20, M22, M25	477.79

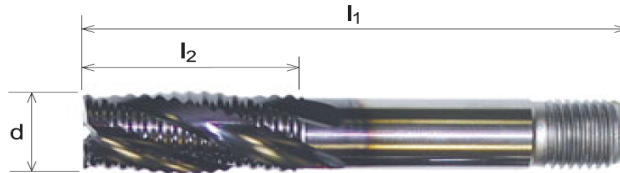


PLAIN SHANK END MILL SETS - SHORT SERIES

Code	Sizes	\$ ea.
EP100	M3, M4, M5, M6, M8, M10, M12	182.79
EP200	M3, M4, M5, M6, M7, M8, M9, M10, M11, M12	254.63
EP300	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20	295.25
EP400	M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M14, M16, M20	367.08
EP500	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20, M22, M25	455.09

CAPITAL

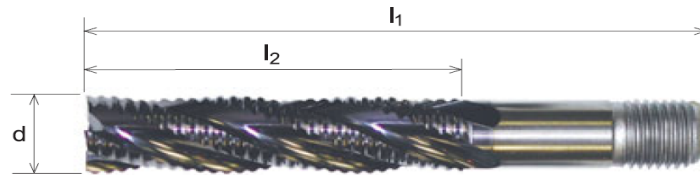
CUTTING TOOLS



ROUGHING ENDMILLS COARSE PITCH - SHORT SERIES

HSS Co - THREADED SHANK

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
476-0600	6.0	16	60	36.06	476-2000	20.0	38	83	102.31
477-630	1/4	16	60	36.06	476-2200	22.0	41	98	154.70
477-637	5/16	18	64	45.33	477-049	7/8	41	98	154.70
476-0800	8.0	18	63	45.33	476-2500	25.0	44	101	163.68
477-645	3/8	22	67	51.16	477-057	1"	43	102	163.68
476-1000	10.0	21	66	51.16	476-2800	28.0	46	104	279.56
476-1200	12.0	24	70	57.70	476-3000	30.0	46	104	290.57
477-659	1/2	24	70	57.70	476-3200	32.0	51	112	320.60
476-1400	14.0	28	73	74.19	476-3500	35.0	54	116	386.49
477-664	5/8	32	77	78.47	476-3800	38.0	54	116	471.56
476-1600	16.0	26	77	78.47	476-4000	40.0	55	117	503.08
476-1800	18.0	35	80	85.97	476-4500	45.0	57	119	653.97
477-668	3/4	38	83	102.31	476-5000	50.0	65	127	697.91



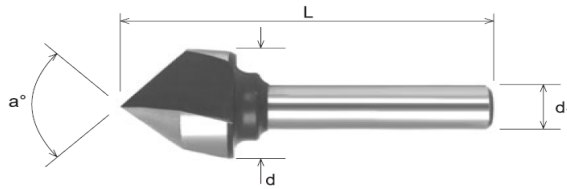
ROUGHING ENDMILLS COARSE PITCH - LONG SERIES

HSS Co - THREADED SHANK

Code	Size	l ₂	l ₁	\$ ea.	Code	Size	l ₂	l ₁	\$ ea.
479-645	3/8	37	83	59.70	479-049	7/8	86	143	233.86
478-1000	10.0	37	82	59.70	478-2500	25.0	100	157	250.97
478-1200	12.0	49	95	72.48	479-057	1"	100	157	250.97
479-659	1/2	49	95	72.48	478-2800	28.0	98	157	397.71
478-1400	14.0	57	101	89.62	478-3000	30.0	101	163	383.08
479-664	5/8	59	109	96.69	478-3200	32.0	101	163	469.64
478-1600	16.0	58	108	96.69	478-3500	35.0	101	163	570.19
478-1800	18.0	70	115	155.54	478-3800	38.0	101	163	625.34
479-668	3/4	76	121	162.10	478-4000	40.0	101	163	632.34
478-2000	20.0	76	121	162.10	478-4500	45.0	101	163	820.61
478-2200	22.0	85	143	233.86	478-5000	50.0	101	163	864.23

CAPITAL

CUTTING TOOLS



PARALLEL SHANK COUNTERSINKS

3 FLUTE HSS-Co.

Code	Size (d)	d ₁	L	\$ ea.
<u>60°</u>				
671-0630	6.3	5	45	35.46
671-0800	8.0	6	50	27.09
671-1000	10.0	6	50	33.11
671-1250	12.5	8	56	40.89
671-1600	16.0	10	63	49.28
671-2000	20.0	10	67	65.30
671-2500	25.0	10	71	88.28
671-3150	31.5	12	76	142.28
671-4000	40.0	16	83	241.31
671-5000	50.0	16	92	280.37

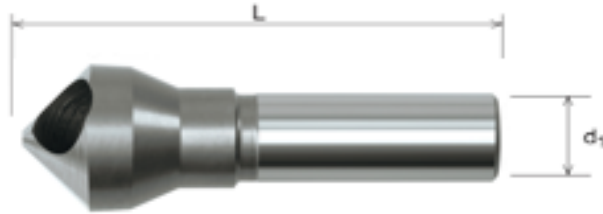
Code	Size	d ₁	L	\$ ea.
<u>82°</u>				
669-0630	6.3	5	45	35.46
669-0800	8.0	6	50	27.09
669-1000	10.0	6	50	33.11
669-1250	12.5	8	56	40.89
669-1600	16.0	10	60	49.28
669-2000	20.0	10	63	65.30
669-2500	25.0	10	67	88.28
669-3150	31.5	12	70	142.28
669-4000	40.0	16	76	241.31
669-5000	50.0	16	82	280.37

Code	Size	d ₁	L	\$ ea.
<u>90°</u>				
672-0630	6.3	5	45	35.46
672-0800	8.0	6	50	27.09
672-1000	10.0	6	50	33.11
672-1250	12.5	8	56	40.89
672-1600	16.0	10	60	49.28
672-2000	20.0	10	63	65.30
672-2500	25.0	10	67	88.28
672-3150	31.5	12	70	142.28
672-4000	40.0	16	76	241.31
672-5000	50.0	16	82	280.37

Code	Size (d)	d ₁	L	\$ ea.
<u>120°</u>				
670-0800	8.0	6	50	27.09
670-1000	10.0	6	50	33.11
670-1250	12.5	8	56	40.89
670-1600	16.0	10	63	49.28
670-2000	20.0	10	67	65.30
670-2500	25.0	10	71	88.28

CAPITAL

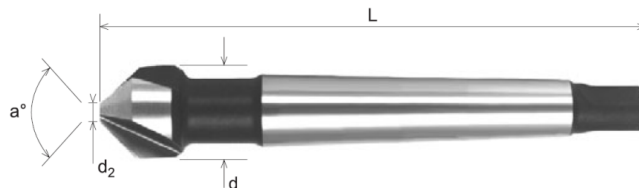
CUTTING TOOLS



CROSSHOLE COUNTERSINKS

3 FLUTE HSS-Co.

Code	Size	Angle	\$ ea.	Code	Size	Angle	\$ ea.
661-1000	10.0	90°	39.50	661-3000	30.0	90°	240.22
661-1500	15.0	90°	43.38	661-3500	35.0	90°	288.97
661-2000	20.0	90°	115.65	661-4000	40.0	90°	318.87
661-2500	25.0	90°	161.36	661-5000	50.0	90°	370.53



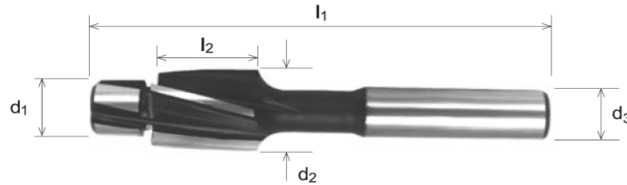
MTS COUNTERSINKS

3 FLUTE HSS-Co.

Code	Size (d)	d ₂	L	\$ ea.	Code	Size	d ₂	L	\$ ea.
60°					90°				
No. 1 MORSE TAPER SHANK					No. 1 MORSE TAPER SHANK				
673-1600	16.0	4	90	86.92	674-1600	16.0	4	90	90.39
No. 2 MORSE TAPER SHANK					No. 2 MORSE TAPER SHANK				
673-2000	20.0	5	106	109.65	674-2000	20.0	5	106	114.04
673-2500	25.0	6.3	112	145.13	674-2500	25.0	6.3	112	150.94
673-3150	31.5	10	118	161.28	674-3150	31.5	10	118	167.73
No. 3 MORSE TAPER SHANK					No. 3 MORSE TAPER SHANK				
673-4000	40.0	12.5	150	238.66	674-4000	40.0	12.5	150	248.21
673-5000	50.0	16	160	383.82	674-5000	50.0	16	160	399.18
No. 4 MORSE TAPER SHANK					No. 4 MORSE TAPER SHANK				
673-6300	63.0	20	190	612.78	674-6300	63.0	20	190	637.29
673-8300	83.0	25	200	788.70	674-8300	83.0	25	200	820.25

CAPITAL

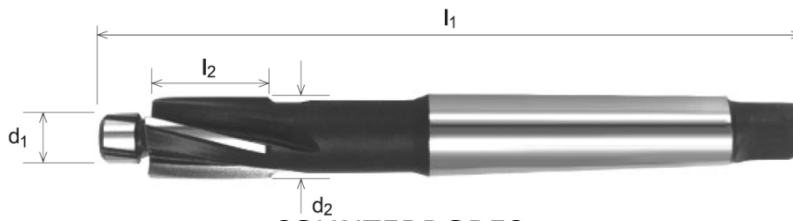
CUTTING TOOLS



COUNTERBORES

HSS PARALLEL SHANK

Code	Size	d ₂	d ₁	d ₃	l ₂	l ₁	\$ ea.
R7PM-0300	3.0	6	3.4	5	14	71	68.44
R7PM-0350	3.5	6.5	3.9	5	14	71	78.03
R7PM-0400	4.0	8	4.5	5	14	71	65.20
R7PM-0500	5.0	10	5.5	8	18	80	71.65
R7PM-0600	6.0	11	6.6	8	18	80	75.90
R7PM-0800	8.0	15	9	12.5	22	100	125.52
R7PM-1000	10.0	18	11	12.5	22	100	154.72
R7PM-1200	12.0	20	14	12.5	22	100	161.99



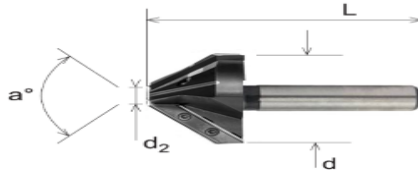
COUNTERBORES

HSS - MTS

Code	Size	d ₂	d ₁	l ₂	l ₁	\$ ea.
R7MM-0800	8.0	15	9	22	132	152.66
R7MM-1000	10.0	18	11	25	140	182.34
R7MM-1200	12.0	20	14	25	140	188.72
R7MM-1400	14.0	24	16	30	150	202.80
R7MM-1600	16.0	26	18	35	180	220.57
R7MM-1800	18.0	30	20	35	180	235.17
R7MM-2000	20.0	33	22	40	190	243.25
R7MM-2200	22.0	36	24	40	190	267.25
R7MM-2400	24.0	40	26	40	190	267.51

CAPITAL

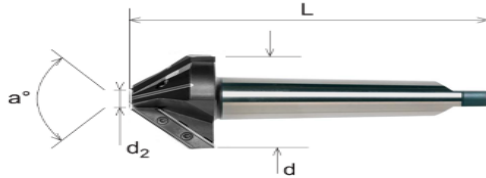
CUTTING TOOLS



PARALLEL SHANK TUNGSTEN CARBIDE COUNTERSINKS INDEXABLE TYPE

Code	Size	d ₂	L	\$ ea.
90°				
13.0 Shank Diameter				
676-2500	25.0	8	90	524.30
676-2501	Replacement Tip			48.21
676-4000	40.0	10	90	545.39
676-4001	Replacement Tip			48.21
16.0 Shank Diameter				
678-2500	25.0	8	90	524.30
678-2501	Replacement Tip			48.21
678-4000	40.0	10	110	545.39
678-4001	Replacement Tip			48.21
678-5000	50.0	10	110	810.55
678-5001	Replacement Tip			58.76
19.0 Shank Diameter				
680-4000	40.0	10	110	545.39
680-4001	Replacement Tip			48.21
680-5000	50.0	10	110	810.55
680-5001	Replacement Tip			58.76

All cutters supplied complete with carbide tips



**M.T.S TUNGSTEN CARBIDE COUNTERSINKS
INDEXABLE TYPE**

Code	Size	d_2	L	\$ ea.
90°				
No. 1 MORSE TAPER SHANK				
682-2500	25.0	8	130	552.92
682-2501	Replacement Tip			48.21
No. 2 MORSE TAPER SHANK				
684-2500	25.0	8	130	560.46
684-2501	Replacement Tip			48.21
684-4000	40.0	10	150	602.64
684-4001	Replacement Tip			48.21
No. 3 MORSE TAPER SHANK				
686-4000	40.0	10	150	602.64
686-4001	Replacement Tip			48.21
686-5000	50.0	10	150	741.24
686-5001	Replacement Tip			58.75

All cutters supplied complete with carbide tips