suttontools

HSS ENDMILLS

▪ Slotting, Finishing, Roughing & Profiling ▪ Short & Long Series
▪ Various shank styles ▪ General purpose & application specific geometries

suttontools

ISO	VDI	Material Group	Sutton	
P	A	Steel	N	UNI
M	R	Stainless Steel	VA	
K	F	Cast Iron	GG	
N	N	Non-Ferrous Metals, Aluminiums & Coppers	Al / W	
S	S	Titaniums & Super Alloys	Ti	Ni
H	H	Hard Materials (≥ 45 HRC)	H	

^ VDI 3323 material groups can also be determined by referring to the material cross reference listing in the application guide at the back of this catalogue.

For expert tooling recommendations, go to:
www.suttontools.com/expert-tool-selector

Page	128	128	130	131	132	132	134	135
Catalogue Code	E104	E105	E106	E119	E129	E130	E131	E178
Type of Cut: *Slotting*	●	●	●	●				●
Finishing				●	●	●	●	
Universal				●	●	●	●	
Roughing								●
Profiling								
Material	HSS Co			HSS Co	HSS Co			HSS
Surface Finish	*Brt*	*TiN*	*Brt*	*Brt*	*Brt*	*TiN*	*Brt*	*Brt*
Sutton Designation	N			N	N			N
Standard	-			-	-			-
Shank Tolerance	-0.025			-0.025	-0.025			h6

ISO	VDI^ 3323	Material		Condition	HB	N/mm²								
P	1	Steel - Non-alloy, cast & free cutting	~ 0.15 %C	A	125	440	●	●	●	●	●	●	●	●
	2		~ 0.45 %C	A	190	640	●	●	●	●	●	●	●	●
	3			QT	250	840	○	●	○	○	○	●	○	○
	4		~ 0.75 %C	A	270	910	○	●	○	○	○	●	○	○
	5			QT	300	1010								
	6	Steel - Low alloy & cast < 5% of alloying elements		A	180	610	●	●	●	●	●	●	●	●
	7			QT	275	930	○	●	○	○	○	●	○	○
	8			QT	300	1010								
	9			QT	350	1180								
	10	Steel - High alloy, cast & tool		A	200	680								
	11			HT	325	1100								
	12	Steel - Corrosion resistant & cast	Ferritic / Martensitic	A	200	680								
	13		Martensitic	QT	240	810								
M	14.1	Stainless Steel	Austenitic	AH	180	610		○				○		
	14.2		Duplex		250	840		○				○		
	14.3		Precipitation Hardening		250	840								
K	15	Cast Iron - Grey (GG)	Ferritic / Pearlitic		180	610	○	○	○	○	○	○	○	○
	16		Pearlitic		260	880								
	17	Cast Iron - Nodular (GGG)	Ferritic		160	570	○	○	○	○	○	○	○	○
	18		Pearlitic		250	840								
	19	Cast Iron - Malleable	Ferritic		130	460	○	○	○	○	○	○	○	○
	20		Pearlitic		230	780								
N	21	Aluminum & Magnesium - wrought alloy	Non Heat Treatable		60	210	●	●	●	●	●	●	●	●
	22		Heat Treatable	AH	100	360	●	●	●	●	●	●	●	●
	23	Aluminum & Magnesium - cast alloy ≤12% Si	Non Heat Treatable		75	270	○	○	○	○	○	○	○	○
	24		Heat Treatable	AH	90	320	○	○	○	○	○	○	○	○
	25	Al & Mg - cast alloy >12% Si	Non Heat Treatable		130	460								
	26	Copper & Cu alloys (Brass/Bronze)	Free cutting, Pb > 1%		110	390								
	27		Brass (CuZn, CuSnZn)		90	320								
	28		Bronze (CuSn)		100	360								
	29	Non-metallic - Thermosetting & fiber-reinforced plastics												
	30	Non-metallic - Hard rubber, wood etc.												
S	31	High temp. alloys	Fe based	A	200	680								
	32			AH	280	950								
	33		Ni / Co based	A	250	840								
	34			AH	350	1180								
	35			C	320	1080								
	36	Titanium & Ti alloys	CP Titanium		400 MPa									
	37.1		Alpha alloys		860 MPa									
	37.2		Alpha / Beta alloys	A	960 MPa									
	37.3			AH	1170 MPa									
	37.4		Beta alloys	A	830 MPa									
	37.5			AH	1400 MPa									
H	38.1	Hardened steel		HT	45 HRC									
	38.2			HT	55 HRC									
	39.1			HT	58 HRC									
	39.2			HT	62 HRC									
	40	Cast Iron	Chilled	C	400	1350		○				○		
	41			HT	55 HRC									

Condition: A (Annealed), **AH** (Age Hardened), **C** (Cast), **HT** (Hardened & Tempered), **QT** (Quenched & Tempered)

● Optimal ○ Effective

136	138	139	140	141	143	144	145	146	147	148	149	150	150		
E100	E102 / E225	E226	E184	E125 / E227	E192	E127 / E229	E230	E142 / E144	E143	E146	E113	E168	E169		
●	●	●	●												
				●	●	●	●								
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HSS Co.8	HSS Co.8		HSS Co.8	HSS Co.8	HSS Co.8	HSS Co.8		HSS Co.8		HSS Co.8	HSS Co.8	HSS Co.8			
Brt	*Brt*	*TiCN*	*TiAlN*	*Brt*	*TiAlN*	*Brt*	*TiCN*	*Brt*	*TiCN*	*Brt*	*Brt*	*Brt*	*TiCN*		
N	N		N	N	N	N		WN		WN	N	NH			
JIS	JIS		DIN 844L	JIS	DIN 844K	JIS		JIS		DIN 844L	-	JIS			
h6	h6		h6	h6	h6	h6		h6		h6	h6	h6			
														VDI^ 3323	ISO
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												○	●	27	
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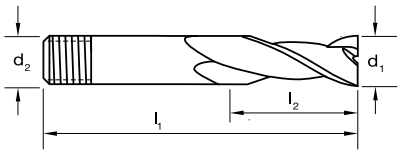
														41	

Slot Drills Threaded, 2 Flute, R30 N, Regular

suttontools

- For general milling of slots & cavities
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	E104	E105
Discount Group	B0602	B0604
Material	HSS Co	HSS Co
Surface Finish	*Brt*	*TiN*
Sutton Designation	N	N
Geometry	R30	R30
Shank Form (DIN 1835)	D	D
Shank Tolerance	-0.025	-0.025

Size Ref.	d_1 (h9)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0200	2	49	3	6	2	E104 0200	$40.53	E105 0200	$61.91
0300	3	51	7.5	6	2	E104 0300	$39.40	E105 0300	$58.17
0400	4	52.5	9.5	6	2	E104 0400	$33.29	E105 0400	$65.01
0500	5	52.5	9.5	6	2	E104 0500	$33.29	E105 0500	$66.69
0600	6	56.5	11	6	2	E104 0600	$39.40	E105 0600	$58.48
0700*	7	59.5	11	10	2	E104 0700	$50.16		
0800	8	59.5	12.5	10	2	E104 0800	$50.61	E105 0800	$66.48
0900	9	60.5	14	10	2	E104 0900	$52.84		
1000	10	60.5	14.5	10	2	E104 1000	$51.29	E105 1000	$66.71
1100	11	66.5	17.5	12	2	E104 1100	$58.03		
1200	12	66.5	19	12	2	E104 1200	$58.83	E105 1200	$80.30
1300	13	68.5	19	12	2	E104 1300	$62.45		
1400	14	68.5	22	12	2	E104 1400	$72.90	E105 1400	$89.00
1500	15	72	22	16	2	E104 1500	$86.01		
1600	16	72	22	16	2	E104 1600	$86.01	E105 1600	$134.04
1700	17	74	24	16	2	E104 1700	$94.51		
1800	18	74	24	16	2	E104 1800	$98.60	E105 1800	$137.21
2000	20	77	25.5	16	2	E104 2000	$117.70	E105 2000	$144.68
2200	22	100	25.5	25	2	E104 2200	$181.58		
2400	24	103	25.5	25	2	E104 2400	$184.93		
2500	25	101	27	25	2	E104 2500	$184.93		
2800	28	95	30	25	2	E104 2800	$236.24		
3000	30	93.5	30	25	2	E104 3000	$295.20		
3200	32	117.5	35	32	2	E104 3200	$314.41		
3600	36	111	39.5	32	2	E104 3600	$340.06		
4000	40	117	46	32	2	E104 4000	$485.99		
4500	45	119.5	47.5	32	2	E104 4500	$600.96		
5000	50	117.5	51	32	2	E104 5000	$701.81		
SD2M	6 piece set	4, 5, 6, 8, 10, 12mm				E104 SD2M	$293.46		

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E104	●	●	○	○		●	○										○		○		○		●	●	○	○																							
E105	●	●	●	●		●	●							○	○		○		○		○		●	●	○	○																						○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

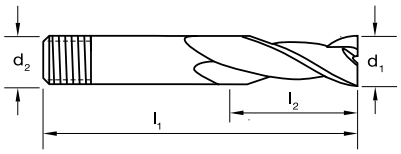
● Optimal ○ Effective

* Not available once current stock is depleted.

Slot Drills Threaded, 2 Flute, R30 N, Regular

suttontools

- For general milling of slots & cavities
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	E104	E105
Discount Group	B0602	B0604
Material	HSS Co	HSS Co
Surface Finish	*Brt*	*TiN*
Sutton Designation	N	N
Geometry	R30	R30
Shank Form (DIN 1835)	D	D
Shank Tolerance	-0.025	-0.025

Size Ref.	d_1 (h9)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0159	1/16	2	3/32	1/4	2	E104 0159	$41.63		
0238	3/32	2	5/32	1/4	2	E104 0238	$41.63		
0318	1/8	2	3/16	1/4	2	E104 0318	$37.80	E105 0318	$59.95
0397	5/32	2-1/16	1/4	1/4	2	E104 0397	$32.54	E105 0397	$62.33
0476	3/16	2-1/8	9/32	1/4	2	E104 0476	$33.48	E105 0476	$65.23
0635*	1/4	2-1/8	3/8	1/4	2	E104 0635	$39.69	E105 0635	$57.55
0794	5/16	2-5/16	1/2	3/8	2	E104 0794	$49.84	E105 0794	$65.53
0953	3/8	2-3/8	9/16	3/8	2	E104 0953	$51.59	E105 0953	$65.80
1111	7/16	2-9/16	11/16	1/2	2	E104 1111	$58.07		
1270	1/2	2-5/8	3/4	1/2	2	E104 1270	$62.45	E105 1270	$79.46
1429	9/16	2-11/16	7/8	1/2	2	E104 1429	$72.90	E105 1429	$93.66
1588	5/8	2-13/16	7/8	5/8	2	E104 1588	$86.01	E105 1588	$139.59
1905	3/4	3	1	5/8	2	E104 1905	$109.92	E105 1905	$158.92
2223	7/8	3-15/16	1	1	2	E104 2223	$181.48		
2540	1	4	1-1/16	1	2	E104 2540	$184.93		
2858	1-1/8	3-3/4	1-3/16	1	2	E104 2858	$236.24		
3175	1-1/4	4	1-1/2	1	2	E104 3175	$314.41		
3493	1-3/8	4-1/16	1-9/16	1	2	E104 3493	$353.66		
3810	1-1/2	4-3/16	1-11/16	1	2	E104 3810	$393.47		
4445	1-3/4	4-9/16	2	1	2	E104 4445	$542.89		
5080	2	4-13/16	2-1/4	1	2	E104 5080	$657.19		
SD2	6 piece set	1/8, 3/16, 1/4, 5/16, 3/8, 1/2"				E104 SD2	$293.46		

ISO	P													M			K						N										S													H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E104	●	●	○	○		●	○										○		○		○		●	●	○	○																								
E105	●	●	○	○		●	○										○		○		○		●	●	○	○																							○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

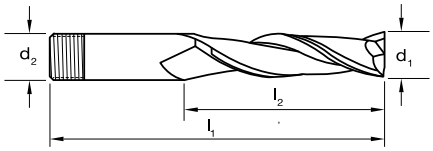
● Optimal ○ Effective

* Not available once current stock is depleted.

Slot Drills 2 Flute, R30 N, Long, Threaded

suttontools

- For general milling of slots & cavities
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	**E106**
Discount Group	B0602
Material	**HSS Co**
Surface Finish	***Brt***
Sutton Designation	**N**
Geometry	R30
Shank Form (DIN 1835)	D
Shank Tolerance	-0.025

Size Ref.	d_1 (h9)	l_1	l_2	d_2	z	Item #	List Price
0200	**2**	51	4	6	2	E106 0200	**$47.38**
0300	**3**	60.5	11	6	2	E106 0300	**$47.38**
0400	**4**	66.5	12.5	6	2	E106 0400	**$37.65**
0500	**5**	70	12.5	6	2	E106 0500	**$38.80**
0600	**6**	76	16	6	2	E106 0600	**$46.11**
0700	**7**	76	16	10	2	E106 0700	**$57.81**
0800	**8**	79.5	19	10	2	E106 0800	**$60.06**
1000	**10**	82.5	22	10	2	E106 1000	**$61.47**
1100	**11**	89	22	12	2	E106 1100	**$73.71**
1200	**12**	95	25.5	12	2	E106 1200	**$73.71**
1300	**13**	95	25.5	12	2	E106 1300	**$81.82**
1400	**14**	101.5	28.5	12	2	E106 1400	**$85.46**
1500	**15**	108	31.5	16	2	E106 1500	**$114.73**
1600	**16**	108	31.5	16	2	E106 1600	**$114.73**
1700	**17**	114.5	35	16	2	E106 1700	**$125.62**
1800	**18**	114.5	35	16	2	E106 1800	**$132.19**
2000	**20**	120.5	38	16	2	E106 2000	**$160.93**
0159	**1/16**	2	3/16	1/4	2	E106 0159	**$42.12**
0238	**3/32**	2	1/4	1/4	2	E106 0238	**$41.30**
0318	**1/8**	2-1/2	7/16	1/4	2	E106 0318	**$43.22**
0476	**3/16**	2-3/4	1/2	1/4	2	E106 0476	**$40.90**
0635	**1/4**	3	5/8	1/4	2	E106 0635	**$47.25**
0794	**5/16**	3-1/8	3/4	3/8	2	E106 0794	**$59.22**
0953	**3/8**	3-1/4	7/8	3/8	2	E106 0953	**$60.06**
1111	**7/16**	3-1/2	7/8	1/2	2	E106 1111	**$76.55**
1270	**1/2**	3-3/4	1	1/2	2	E106 1270	**$68.52**
1429	**9/16**	4	1-1/8	1/2	2	E106 1429	**$91.19**
1588	**5/8**	4-1/4	1-1/4	5/8	2	E106 1588	**$108.18**
1905	**3/4**	4-3/4	1-1/2	5/8	2	E106 1905	**$140.61**
2223	**7/8**	5-3/4	1-5/8	1	2	E106 2223	**$217.84**
2540	**1**	6-1/4	1-3/4	1	2	E106 2540	**$240.23**

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E106	●	●	○	○		●	○										○		○		○		●	●	○	○																							

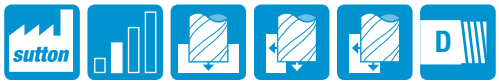
P Steel | M Stainless Steel | K Cast Iron | N Non-Ferrous Metals | S Titanium & Super Alloys | H Hard Materials

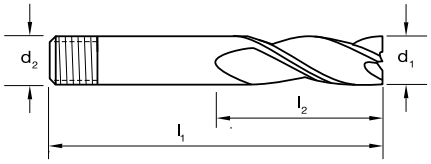
● Optimal ○ Effective

Endmills 3 Flute, R30 N, Regular, Threaded

suttontools

- For slotting and finishing with the one tool
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material





Catalogue Code	E119
Discount Group	B0602
Material	HSS Co
Surface Finish	*Brt*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	D
Shank Tolerance	-0.025

Size Ref.	d_1 (h9)	l_1	l_2	d_2	z	Item #	List Price
0300	3	51	8	6	3	E119 0300	$45.29
0400	4	53	10	6	3	E119 0400	$45.29
0500	5	58	13	6	3	E119 0500	$45.29
0600	6	58	13	6	3	E119 0600	$45.29
0800	8	60	13	10	3	E119 0800	$58.15
1000	10	61	15	10	3	E119 1000	$69.48
1200	12	67	19	12	3	E119 1200	$73.44
1400	14	69	22	12	3	E119 1400	$100.17
1600	16	72	22	16	3	E119 1600	$116.57
2000	20	77	26	16	3	E119 2000	$161.90

ISO	P												M			K						N									S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E119	●	●	○	○		●	○										○		○		○		●	●	○	○																							

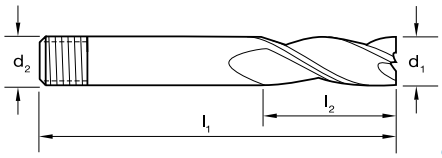
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Endmills 4 Flute, R30 N, Regular, Threaded

suttontools

- For finish milling applications
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	E129	E130
Discount Group	B0602	B0604
Material	HSS Co	HSS Co
Surface Finish	*Brt*	*TiN*
Sutton Designation	**N**	**N**
Geometry	R30	R30
Shank Form (DIN 1835)	D	D
Shank Tolerance	-0.025	-0.025

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0300	3	54	10	6	4	E129 0300	$31.70	E130 0300	$59.95
0400	4	57	13	6	4	E129 0400	$31.10	E130 0400	$66.85
0500	5	60.5	16	6	4	E129 0500	$31.70	E130 0500	$60.16
0600	6	60.5	16	6	4	E129 0600	$31.10	E130 0600	$55.67
0800	8	63.5	18	10	4	E129 0800	$41.01	E130 0800	$67.49
1000	10	66.5	21	10	4	E129 1000	$41.01	E130 1000	$64.22
1200	12	70	24	12	4	E129 1200	$52.52	E130 1200	$81.69
1400	14	73	28.5	12	4	E129 1400	$65.52		
1600	16	77	26.5	16	4	E129 1600	$75.34	E130 1600	$128.18
1800	18	80	35	16	4	E129 1800	$89.19		
2000	20	83.5	38	16	4	E129 2000	$116.22	E130 2000	$145.17
2200	22	98.5	41.5	25	4	E129 2200	$161.77		
2500	25	101.5	44.5	25	4	E129 2500	$167.54		
2800	28	104.5	46	25	6	E129 2800	$222.90		
3000	30	104.5	46	25	6	E129 3000	$246.14		
3200	32	112.5	51	32	6	E129 3200	$273.99		
3600	36	116	54	32	6	E129 3600	$311.33		
4000	40	117.5	55.5	32	6	E129 4000	$459.50		
4500	45	119	57	32	6	E129 4500	$587.23		
5000	50	127	65	32	6	E129 5000	$668.63		
EM2M	6 piece set	4, 5, 6, 8, 10, 12mm				E129 EM2M	$254.43		

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E129	●	●	○	○		●	○										○		○		○		●	●	○	○																						○	
E130	●	●	●	●		●	●							○	○		○		○		○		●	●	○	○																						○	

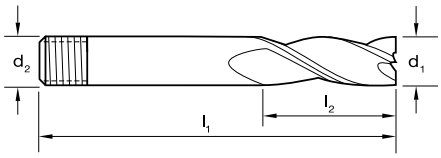
P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

Endmills 4 Flute, R30 N, Regular, Threaded

suttontools

- For finish milling applications
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	E129	E130
Discount Group	B0602	B0604
Material	HSS Co	HSS Co
Surface Finish	*Brt*	*TiN*
Sutton Designation	N	N
Geometry	R30	R30
Shank Form (DIN 1835)	D	D
Shank Tolerance	-0.025	-0.025

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0318	1/8	2-1/8	3/8	1/4	4	E129 0318	$31.70	E130 0318	$60.09
0397*	5/32	2-1/4	1/2	1/4	4			E130 0397	$62.39
0476	3/16	2-1/4	1/2	1/4	4	E129 0476	$31.70	E130 0476	$46.90
0635	1/4	2-3/8	5/8	1/4	4	E129 0635	$31.70	E130 0635	$55.84
0794	5/16	2-1/2	3/4	3/8	4	E129 0794	$39.58	E130 0794	$64.62
0873	11/32	2-5/8	7/8	3/8	4	E129 0873	$46.04		
0953	3/8	2-5/8	7/8	3/8	4	E129 0953	$40.38	E130 0953	$64.74
1111	7/16	2-5/8	7/8	1/2	4	E129 1111	$51.74		
1270	1/2	2-3/4	1	1/2	4	E129 1270	$61.19	E130 1270	$78.57
1429	9/16	2-7/8	1-1/8	1/2	4	E129 1429	$65.54		
1588	5/8	3	1-1/4	5/8	4	E129 1588	$75.36	E130 1588	$128.58
1746	11/16	3-1/8	1-3/8	5/8	4	E129 1746	$83.60		
1905	3/4	3-1/4	1-1/2	5/8	4	E129 1905	$113.48	E130 1905	$140.29
2223	7/8	3-7/8	1-5/8	1	4	E129 2223	$191.31		
2540	1	4	1-11/16	1	4	E129 2540	$167.54		
2858	1-1/8	4-1/8	1-13/16	1	6	E129 2858	$222.90		
3175	1-1/4	4-1/4	1-15/16	1	6	E129 3175	$274.07		
3493	1-3/8	4-3/8	2-1/16	1	6	E129 3493	$306.41		
3810	1-1/2	4-1/2	2-3/16	1	6	E129 3810	$380.95		
4445	1-3/4	4-3/4	2-1/2	1	6	E129 4445	$587.26		
5080	2	5	2-3/4	1	6	E129 5080	$668.63		
EM2	6 piece set	1/8, 3/16, 1/4, 5/16, 3/8, 1/2"				E129 EM2	$254.43		

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E129	●	●	○	○		●	○										○		○		○		●	●	○	○																							
E130	●	●	●	●		●	●							○	○		○		○		○		●	●	○	○																						○	

P Steel | M Stainless Steel | K Cast Iron | N Non-Ferrous Metals | S Titanium & Super Alloys | H Hard Materials

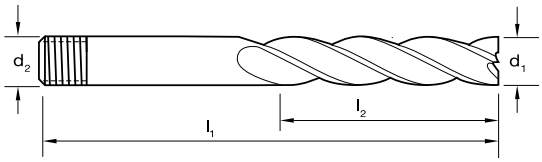
● Optimal ○ Effective

* Not available once current stock is depleted.

Endmills 4 Flute, R30 N, Long, Threaded

suttontools

- For finish milling applications
- Suitable for materials up to 850 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	**E131**
Discount Group	B0602
Material	**HSS Co**
Surface Finish	***Brt***
Sutton Designation	**N**
Geometry	R30
Shank Form (DIN 1835)	D
Shank Tolerance	-0.025

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price
0300	**3**	64	19	6	4	E131 0300	**$40.53**
0400	**4**	70	26	6	4	E131 0400	**$36.82**
0500	**5**	76	32	6	4	E131 0500	**$36.82**
0600	**6**	76	32	6	4	E131 0600	**$38.45**
0800	**8**	79.5	34	10	4	E131 0800	**$50.69**
1000	**10**	82.5	37	10	4	E131 1000	**$52.57**
1200	**12**	95	49.5	12	4	E131 1200	**$66.42**
1400	**14**	101.5	57	12	4	E131 1400	**$87.30**
1600	**16**	108.5	58	16	4	E131 1600	**$107.35**
1800	**18**	115	70	16	4	E131 1800	**$118.91**
2000	**20**	121.5	76	16	4	E131 2000	**$147.51**
0318	**1/8**	2-1/2	5/8	1/4	4	E131 0318	**$37.80**
0476	**3/16**	2-3/4	1	1/4	4	E131 0476	**$35.23**
0635	**1/4**	3	1-1/4	1/4	4	E131 0635	**$36.84**
0794	**5/16**	3-1/8	1-3/8	3/8	4	E131 0794	**$48.67**
0953	**3/8**	3-1/4	1-1/2	3/8	4	E131 0953	**$50.50**
1270	**1/2**	3-3/4	2	1/2	4	E131 1270	**$75.54**
1588	**5/8**	4-1/4	2-1/2	5/8	4	E131 1588	**$107.35**
1905	**3/4**	4-3/4	3	5/8	4	E131 1905	**$134.57**
2540	**1**	6-1/2	4	1	4	E131 2540	**$244.63**

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E131	●	●	○	○		●	○										○		○		○		●	●	○	○																							

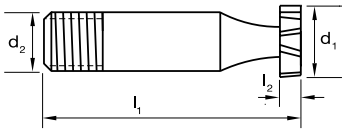
P Steel | M Stainless Steel | K Cast Iron | N Non-Ferrous Metals | S Titanium & Super Alloys | H Hard Materials

● Optimal ○ Effective

Roughers Woodruff Cutter, Threaded

suttontools

- For cutting key seats to suit standard imperial woodruff keys



Catalogue Code	E178
Discount Group	B0709
Material	HSS
Surface Finish	*Brt*
Sutton Designation	**General Purpose**
Geometry	-
Shank Form (DIN 1835)	D
Shank Tolerance	h6

Size Ref.	BS Cutter & Key #	d_1	l_2	l_1	d_2	Item #	List Price
0204	204	1/2	1/16	2	1/2	E178 0204	$123.00
0304	304	1/2	3/32	2	1/2	E178 0304	$123.00
0305	305	5/8	3/32	2	1/2	E178 0305	$123.00
0404	404	1/2	1/8	2	1/2	E178 0404	$123.00
0405	405	5/8	1/8	2	1/2	E178 0405	$123.00
0406	406	3/4	1/8	2-1/4	1/2	E178 0406	$126.66
0505	505	5/8	5/32	2	1/2	E178 0505	$123.00
0506	506	3/4	5/32	2-1/4	1/2	E178 0506	$130.36
0507	507	7/8	5/32	2-1/2	1/2	E178 0507	$155.68
0606	606	3/4	3/16	2-1/4	1/2	E178 0606	$130.36
0607	607	7/8	3/16	2-1/2	1/2	E178 0607	$155.68
0608	608	1	3/16	2-3/4	1/2	E178 0608	$181.02
0609	609	1-1/8	3/16	2-3/4	1/2	E178 0609	$240.81
0807	807	7/8	1/4	2-1/2	1/2	E178 0807	$155.68
0808	808	1	1/4	2-3/4	1/2	E178 0808	$181.02
0809	809	1-1/8	1/4	2-3/4	1/2	E178 0809	$240.81
0810	810	1-1/4	1/4	2-3/4	1/2	E178 0810	$251.49
0812	812	1-1/2	1/4	3	1/2	E178 0812	$303.98
1008	1008	1	5/16	2-3/4	1/2	E178 1008	$181.02
1009	1009	1-1/8	5/16	2-3/4	1/2	E178 1009	$240.81
1010	1010	1-1/4	5/16	2-3/4	1/2	E178 1010	$251.49
1011	1011	1-3/8	5/16	3	1/2	E178 1011	$289.66
1012	1012	1-1/2	5/16	3	1/2	E178 1012	$303.98
1210	1210	1-1/4	3/8	2-3/4	1/2	E178 1210	$251.49
1211	1211	1-3/8	3/8	3	1/2	E178 1211	$289.66
1212	1212	1-1/2	3/8	3	1/2	E178 1212	$303.98

ISO	P													M			K						N									S														H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E178	●	●	○	○		●	○										○		○		○		●	●	○	○																								

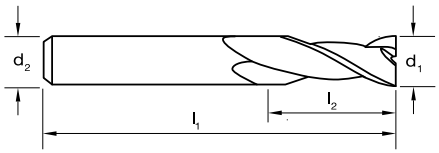
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Slot Drills 2 Flute, R30 N, Regular

suttontools

- For precision milling of slots & cavities
- Suitable for materials up to 1000 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	**E100**
Discount Group	B0502
Material	**HSS Co.8**
Surface Finish	***Brt***
Sutton Designation	**N**
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price
0100	1	50	3	6	2	E100 0100	$95.11
0150	1.5	50	4.5	6	2	E100 0150	$74.46
0200	2	50	7	6	2	E100 0200	$42.18
0250	2.5	50	7	6	2	E100 0250	$52.21
0300	3	50	9	6	2	E100 0300	$41.03
0350	3.5	60	12	8	2	E100 0350	$52.21
0400	4	60	12	8	2	E100 0400	$34.64
0450	4.5	60	15	8	2	E100 0450	$52.21
0500	5	60	15	8	2	E100 0500	$34.64
0550	5.5	60	15	8	2	E100 0550	$52.21
0600	6	60	15	8	2	E100 0600	$41.03
0650	6.5	65	20	10	2	E100 0650	$67.79
0700	7	65	20	10	2	E100 0700	$52.20
0750	7.5	65	20	10	2	E100 0750	$67.79
0800	8	65	20	10	2	E100 0800	$52.65
0850	8.5	75	25	10	2	E100 0850	$67.79
0900	9	75	25	10	2	E100 0900	$54.98
0950	9.5	75	25	10	2	E100 0950	$67.79
1000	10	75	25	10	2	E100 1000	$53.36
1100	11	80	30	12	2	E100 1100	$57.61
1200	12	80	30	12	2	E100 1200	$54.16
1300	13	90	35	16	2	E100 1300	$59.95
1400	14	90	35	16	2	E100 1400	$63.95
1500	15	95	40	16	2	E100 1500	$76.96
1600	16	95	40	16	2	E100 1600	$73.20
1700	17	105	40	20	2	E100 1700	$90.98
1800	18	105	40	20	2	E100 1800	$86.98
1900	19	110	45	20	2	E100 1900	$102.63
2000	20	110	45	20	2	E100 2000	$94.83
2100	21	110	45	20	2	E100 2100	$165.93
2200	22	110	45	20	2	E100 2200	$165.93
2400	24	120	50	25	2	E100 2400	$165.93
2500	25	120	50	25	2	E100 2500	$165.93
2800	28	125	55	25	2	E100 2800	$217.23
3000	30	125	55	25	2	E100 3000	$240.93
3200	32	145	60	32	2	E100 3200	$391.59

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E100	●	●	○	○	○	○	○	○		○			○				○	○	○	○	○	○	●	●	○	○	○	○		○																			

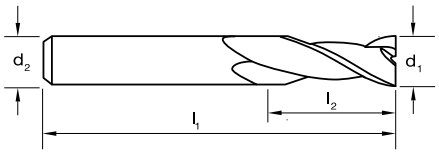
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Slot Drills 2 Flute, R30 N, Regular

suttontools

- For precision milling of slots & cavities
- Suitable for materials up to 1000 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	**E100**
Discount Group	B0502
Material	**HSS Co.8**
Surface Finish	***Brt***
Sutton Designation	**N**
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price
0159	**1/16**	1-31/32	1/8	1/4	2	E100 0159	**$43.33**
0238	**3/32**	1-31/32	3/16	1/4	2	E100 0238	**$43.33**
0318	**1/8**	1-31/32	7/32	1/4	2	E100 0318	**$39.33**
0476	**3/16**	2-3/8	3/8	1/4	2	E100 0476	**$34.84**
0635	**1/4**	2-9/16	9/16	1/4	2	E100 0635	**$41.28**
0794	**5/16**	2-9/16	9/16	3/8	2	E100 0794	**$51.86**
0953	**3/8**	2-3/4	23/32	3/8	2	E100 0953	**$52.65**
1270	**1/2**	3-17/32	1	1/2	2	E100 1270	**$56.99**
1588	**5/8**	3-3/4	1-3/16	5/8	2	E100 1588	**$70.29**
1905	**3/4**	4-5/16	1-9/16	3/4	2	E100 1905	**$153.38**
2540	**1**	4-23/32	2	3/4	2	E100 2540	**$277.02**

ISO	P												M			K						N									S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E100	●	●	○	○	○	○	○		○				○				○	○	○	○	○	○	●	●	○	○	○	○		○																		

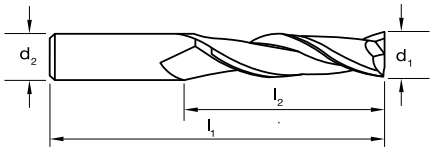
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Slot Drills 2 Flute, R30 N, Long

suttontools

- For long-reach slotting applications
- Suitable for materials up to 1000 N/mm²
- For soft steels & non-ferrous material



Catalogue Code	E102	E225
Discount Group	B0502	B0502
Material	HSS Co.8	HSS Co.8
Surface Finish	*Brt*	*Brt*
Sutton Designation	**N**	**N**
Geometry	R30	R30
Shank Form (DIN 1835)	A	A
Shank Tolerance	h6	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0300	3.0	60	15	6	2	E102 0300	$49.29		
0350	3.5	60	20	6	2	E102 0350	$65.20		
0400	4.0	60	20	6	2			E225 0400	$39.22
0400	4.0	60	20	8	2	E102 0400	$65.20		
0450	4.5	60	25	6	2	E102 0450	$65.20		
0500	5.0	65	25	6	2			E225 0500	$40.38
0500	5.0	65	25	8	2	E102 0500	$65.20		
0550	5.5	65	25	6	2	E102 0550	$65.20		
0600	6.0	65	25	6	2			E225 0600	$47.97
0600	6.0	65	25	8	2	E102 0600	$65.20		
0650	6.5	80	35	10	2	E102 0650	$84.57		
0700	7.0	80	35	10	2	E102 0700	$58.63		
0750	7.5	80	35	10	2	E102 0750	$84.57		
0800	8.0	80	35	10	2	E102 0800	$62.49		
0850	8.5	95	45	10	2	E102 0850	$84.57		
0900	9.0	95	45	10	2	E102 0900	$65.20		
0950	9.5	95	45	10	2	E102 0950	$84.57		
1000	10.0	95	45	10	2	E102 1000	$63.95		
1100	11.0	105	55	12	2	E102 1100	$72.29		
1200	12.0	105	55	12	2	E102 1200	$71.16		
1400	14.0	110	55	16	2	E102 1400	$84.95		
1600	16.0	120	65	16	2	E102 1600	$102.63		
1800	18.0	130	65	20	2	E102 1800	$126.52		
2000	20.0	140	75	20	2	E102 2000	$142.30		
2200	22.0	140	75	20	2	E102 2200	$366.09		
2400	24.0	160	90	25	2	E102 2400	$395.76		
2500	25.0	160	90	25	2	E102 2500	$395.76		
Sutton Standard									
0635	1/4	2-9/16	1	1/4	2	E102 0635	$49.18		
0953	3/8	3-3/4	1-3/4	3/8	2	E102 0953	$62.49		
1270	1/2	4-5/16	2-5/32	1/2	2	E102 1270	$69.18		
1905	3/4	5-1/2	2-61/64	3/4	2	E102 1905	$211.18		

ISO	P												M			K						N									S										H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E102	●	●	○	○	○	●	○	○		○									○				●	●	○	○		○		○																		
E225	●	●	○	○	○	●	○	○		○									○				●	●	○	○		○		○																		

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

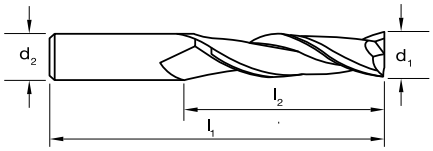
● Optimal ○ Effective

Slot Drills 2 Flute, R30 N, Long

suttontools

- For long-reach slotting applications
- Suitable for materials up to 1000 N/mm²
- For soft steels & non-ferrous material
- TiCN for longer tool life

JIS



Catalogue Code	E226*
Discount Group	B0516
Material	HSS Co.8
Surface Finish	*TiCN*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price
0400	4.0	60	20	6	2	E226 0400	$54.93
0500	5.0	65	25	6	2	E226 0500	$54.93
0600	6.0	65	25	6	2	E226 0600	$54.93

ISO	P												M			K						N									S													H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E226	●	●	○	○	○	●	○	○	○	●	○	○	○	○	○	○	●		●				○	○	○	○	○	○		○																			

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

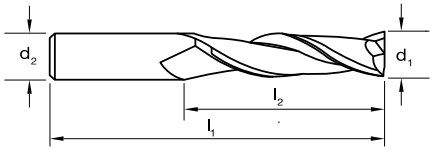
* Not available once current stock is depleted.

Slot Drills 2 Flute, R30 N, Long

suttontools

- For long-reach slotting applications
- Suitable for materials up to 1000 N/mm²
- For soft steels & non-ferrous material
- TiAlN for longer tool life

DIN 844L



Catalogue Code	E184
Discount Group	B0608
Material	HSS Co.8
Surface Finish	*TiAlN*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price
0300	3.0	56	12	6	2	E184 0300	$52.92
0350	3.5	59	15	6	2	E184 0350	$52.92
0400	4.0	63	19	6	2	E184 0400	$52.92
0500	5.0	68	24	6	2	E184 0500	$52.92
0600	6.0	68	24	6	2	E184 0600	$52.92
0800	8.0	88	38	10	2	E184 0800	$85.98
1000	10.0	95	45	10	2	E184 1000	$85.98
1200	12.0	110	53	12	2	E184 1200	$93.94
1400	14.0	110	53	12	2	E184 1400	$114.78
1600	16.0	123	63	16	2	E184 1600	$128.33
1800	18.0	123	63	16	2	E184 1800	$150.53
2000	20.0	141	75	20	2	E184 2000	$182.51

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E184	●	●	●	●	○	●	○	○	○	●	○	○	○	○	○	○	●		●				○	○	○	○	○	○		○																			

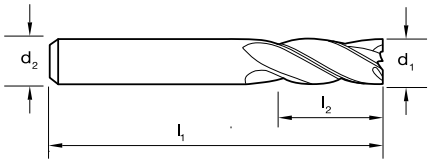
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Endmills 4 Flute, R30 N, Regular

suttontools

- For precision finish milling applications
- Suitable for materials up to 1000 N/mm²



Catalogue Code	E125	E227
Discount Group	B0502	B0502
Material	HSS Co.8	HSS Co.8
Surface Finish	*Brt*	*Brt*
Sutton Designation	N	N
Geometry	R30	R30
Shank Form (DIN 1835)	A	A
Shank Tolerance	h6	h6

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0150	1.5	50	3	6	4	E125 0150	$80.42		
0200	2.0	50	6	6	4	E125 0200	$73.21		
0250	2.5	50	7	6	4	E125 0250	$73.21		
0300	3.0	50	9	6	4	E125 0300	$32.98		
0350	3.5	60	12	6	4			E227 0350	$52.21
0350	3.5	60	12	8	4	E125 0350	$52.21		
0400	4.0	60	12	6	4			E227 0400	$32.35
0400	4.0	60	12	8	4	E125 0400	$52.21		
0450	4.5	60	15	6	4			E227 0450	$52.21
0450	4.5	60	15	8	4	E125 0450	$52.21		
0500	5.0	60	15	6	4			E227 0500	$32.98
0500	5.0	60	15	8	4	E125 0500	$52.21		
0550	5.5	60	15	6	4			E227 0550	$52.21
0550	5.5	60	15	8	4	E125 0550	$52.21		
0600	6.0	60	15	6	4			E227 0600	$32.35
0600	6.0	60	15	8	4	E125 0600	$60.37		
0650	6.5	65	20	10	4	E125 0650	$67.79		
0700	7.0	65	20	10	4	E125 0700	$42.66		
0750	7.5	65	20	10	4	E125 0750	$67.79		
0800	8.0	65	20	10	4	E125 0800	$42.66		
0850	8.5	75	25	10	4	E125 0850	$67.79		
0900	9.0	75	25	10	4	E125 0900	$67.79		
0950	9.5	75	25	10	4	E125 0950	$67.79		
1000	10.0	75	25	10	4	E125 1000	$42.66		
1050	10.5	80	30	12	4	E125 1050	$85.59		
1100	11.0	80	30	12	4	E125 1100	$85.59		
1150	11.5	80	30	12	4	E125 1150	$85.59		
1200	12.0	80	30	12	4	E125 1200	$54.16		
1300	13.0	90	35	16	4	E125 1300	$98.18		
1400	14.0	90	35	16	4	E125 1400	$61.97		
1500	15.0	95	40	16	4	E125 1500	$114.06		
1600	16.0	95	40	16	4	E125 1600	$71.99		
1700	17.0	105	40	20	4	E125 1700	$137.77		
1800	18.0	105	40	20	4	E125 1800	$86.98		
1900	19.0	110	45	20	4	E125 1900	$153.38		
2000	20.0	110	45	20	4	E125 2000	$96.80		
2200	22.0	110	45	20	4	E125 2200	$154.11		
2400	24.0	120	50	25	4	E125 2400	$274.54		
2500	25.0	120	50	25	4	E125 2500	$173.95		
2800	28.0	125	55	25	6	E125 2800	$229.27		
3000	30.0	125	55	25	6	E125 3000	$229.27		
3200	32.0	145	60	32	6	E125 3200	$276.58		

ISO	P												M			K						N									S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E125	●	●	○	○	○	●	○	○		○		○	○				○	○	○	○	○	○	●	●	○	○		○		○																			
E227	●	●	○	○	○	●	○	○		○		○	○				○	○	○	○	○	○	●	●	○	○		○		○																			

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

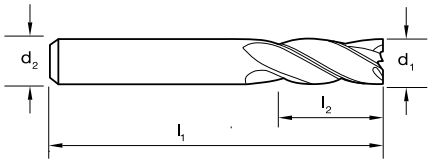
● Optimal ○ Effective

Endmills 4 Flute, R30 N, Regular

suttontools

- For precision finish milling applications
- Suitable for materials up to 1000 N/mm²

JIS



Catalogue Code	E125
Discount Group	B0502
Material	HSS Co.8
Surface Finish	*Brt*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price
0159	1/16	1-31/32	1/4	1/4	4	E125 0159	$80.42
0238	3/32	1-31/32	9/32	1/4	4	E125 0238	$73.21
0318	1/8	1-31/32	11/32	1/4	4	E125 0318	$32.98
0476	3/16	2-11/32	19/32	1/4	4	E125 0476	$32.98
0635	1/4	2-11/32	19/32	1/4	4	E125 0635	$32.98
0794	5/16	2-9/16	25/32	3/8	4	E125 0794	$41.17
0953	3/8	2-15/16	31/32	3/8	4	E125 0953	$42.00
1270	1/2	3-7/32	1-3/8	1/2	4	E125 1270	$53.36
1588	5/8	3-3/4	1-9/16	5/8	4	E125 1588	$70.01
1905	3/4	4-5/16	1-3/4	3/4	4	E125 1905	$153.38
2223	7/8	4-5/16	1-3/4	3/4	4	E125 2223	$243.65
2540	1	4-23/32	1-31/32	3/4	4	E125 2540	$277.02
2541	1	4-23/32	1-31/32	1	4	E125 2541	$167.96

ISO	P												M			K						N									S										H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E125	●	●	○	○	○	●	○	○		○		○	○				○	○	○	○	○	○	●	●	○	○		○		○																		

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

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Endmills 4 Flute, R30 N, Regular

suttontools

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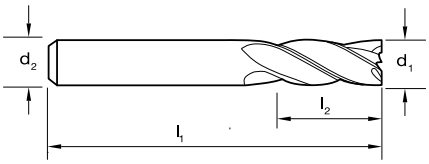


Catalogue Code	E192
Discount Group	B0608
Material	HSS Co.8
Surface Finish	*TiAlN*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (k9)	l_1	l_2	d_2	z	Item #	List Price
0200	2.0	51	7	6	4	E192 0200	$68.84
0250	2.5	52	8	6	4	E192 0250	$57.57
0300	3.0	52	8	6	4	E192 0300	$46.31
0400	4.0	55	11	6	4	E192 0400	$46.28
0500	5.0	57	13	6	4	E192 0500	$46.28
0600	6.0	57	13	6	4	E192 0600	$46.28
0700	7.0	66	16	10	4	E192 0700	$60.92
0800	8.0	69	19	10	4	E192 0800	$60.92
0900	9.0	69	19	10	4	E192 0900	$68.84
1000	10.0	72	22	10	4	E192 1000	$68.84
1100	11.0	79	22	12	4	E192 1100	$76.66
1200	12.0	83	26	12	4	E192 1200	$76.66
1300	13.0	83	26	12	4	E192 1300	$97.86
1400	14.0	83	26	12	4	E192 1400	$97.86
1500	15.0	83	26	12	4	E192 1500	$111.13
1600	16.0	92	32	16	4	E192 1600	$111.13
1700	17.0	92	32	16	4	E192 1700	$134.90
1800	18.0	92	32	16	4	E192 1800	$134.90
2000	20.0	104	38	20	4	E192 2000	$134.90
2100	21.0	104	38	20	6	E192 2100	$193.14
2200	22.0	121	45	20	6	E192 2200	$193.14

ISO	P												M			K						N									S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E192	●	●	●	●	○	●	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○	○	○	○	○	○	○		○																			●	

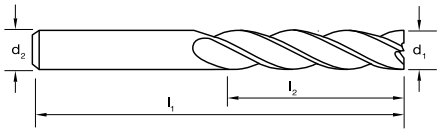
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Endmills 4 Flute, R30 N, Long

suttontools

- For precision finish milling applications
- Suitable for materials up to 1000 N/mm²



Catalogue Code	E127	E229
Discount Group	B0502	B0502
Material	HSS Co.8	HSS Co.8
Surface Finish	*Brt*	*Brt*
Sutton Designation	**N**	**N**
Geometry	R30	R30
Shank Form (DIN 1835)	A	A
Shank Tolerance	h6	h6

Size Ref.	d_1 (k10)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0200	2.0	60	10	6	4	E127 0200	$101.41		
0250	2.5	60	15	6	4	E127 0250	$101.41		
0300	3.0	60	15	6	4	E127 0300	$42.18		
0350	3.5	60	20	6	4			E229 0350	$60.37
0400	4.0	60	20	6	4			E229 0400	$38.31
0400	4.0	60	20	8	4	E127 0400	$60.37		
0450	4.5	65	25	6	4			E229 0450	$60.37
0500	5.0	65	25	6	4			E229 0500	$38.31
0500	5.0	65	25	8	4	E127 0500	$60.37		
0550	5.5	65	25	6	4			E229 0550	$60.37
0600	6.0	65	25	6	4			E229 0600	$40.01
0600	6.0	65	25	8	4	E127 0600	$60.37		
0650	6.5	80	35	10	4	E127 0650	$84.57		
0700	7.0	80	35	10	4	E127 0700	$84.57		
0750	7.5	80	35	10	4	E127 0750	$84.57		
0800	8.0	80	35	10	4	E127 0800	$49.87		
0900	9.0	95	45	10	4	E127 0900	$84.57		
0950	9.5	95	45	10	4	E127 0950	$84.57		
1000	10.0	95	45	10	4	E127 1000	$49.87		
1100	11.0	105	55	12	4	E127 1100	$98.18		
1200	12.0	105	55	12	4	E127 1200	$59.95		
1400	14.0	110	55	16	4	E127 1400	$78.35		
1600	16.0	120	65	16	4	E127 1600	$93.62		
1800	18.0	130	65	20	4	E127 1800	$120.15		
2000	20.0	140	75	20	4	E127 2000	$135.63		
2200	22.0	140	75	20	4	E127 2200	$366.09		
2400	24.0	160	90	25	4	E127 2400	$395.76		
2500	25.0	160	90	25	4	E127 2500	$395.76		
3200	32.0	190	105	32	6	E127 3200	$704.93		
0159	1/16	2-3/8	3/8	1/4	4	E127 0159	$96.67		
0318	1/8	2-3/8	19/32	1/4	4	E127 0318	$39.33		
0476	3/16	2-9/16	31/32	1/4	4	E127 0476	$36.66		
0635	1/4	2-9/16	31/32	1/4	4	E127 0635	$38.33		
0794	5/16	3-5/32	1-3/8	3/8	4	E127 0794	$46.67		
0953	3/8	3-3/4	1-25/32	3/8	4	E127 0953	$47.87		
1270	1/2	4-5/16	2-5/32	1/2	4	E127 1270	$63.36		
1588	5/8	4-23/32	2-9/16	5/8	4	E127 1588	$98.78		
1905	3/4	5-1/2	2-15/16	3/4	4	E127 1905	$211.18		
2540	1	6-5/16	3-17/32	3/4	4	E127 2540	$395.76		

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E127	●	●	○	○	○	●	○	○		○		○	○				○	○	○	○	○	○	●	●	○	○		○		○																			
E229	●	●	○	○	○	●	○	○		○		○	○				○	○	○	○	○	○	●	●	○	○		○		○																			

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

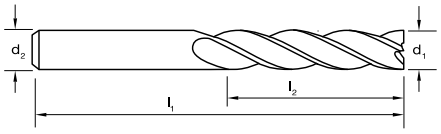
● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

Endmills 4 Flute, R30 N, Long

suttontools

- For precision finish milling applications
- Suitable for materials up to 1000 N/mm²
- TiCN for longer tool life



Catalogue Code	E230
Discount Group	B0516
Material	HSS Co.8
Surface Finish	*TiCN*
Sutton Designation	N
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (k10)	l_1	l_2	d_2	z	Item #	List Price
0400	**4.0**	60	20	6	4	E230 0400	**$54.93**
0500	**5.0**	65	25	6	4	E230 0500	**$54.93**
0600	**6.0**	65	25	6	4	E230 0600	**$54.93**

ISO	P												M			K						N									S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E230	●	●	●	●	○	●	○	○	○	●	○	○	○	○	○	○	●	○	●	○	●	○	○	○	○	○	○	○		○																			●	

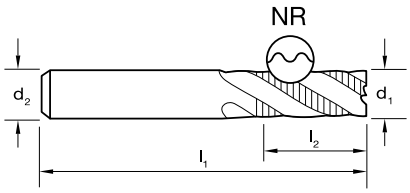
P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

Roughers NR (normal), R30 WN, Regular

suttontools

- For roughing applications
- NR geometry allows for heavy cuts
- Suitable for materials up to 1000 N/mm²



	E142	E144
Catalogue Code	E142	E144
Discount Group	B0402	B0402
Material	HSS Co.8	HSS Co.8
Surface Finish	*Brt*	*Brt*
Sutton Designation	**WN**	**WN**
Geometry	R30 NR	R30 NR
Shank Form (DIN 1835)	A	B
Shank Tolerance	h6	h6

Size Ref.	d_1 (js14)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0600	**6.0**	60	15	10	3	E142 0600	**$64.17**		
0800	**8.0**	65	20	10	3	E142 0800	**$70.59**		
1000	**10.0**	75	25	10	4	E142 1000	**$77.04**		
1100*	**11.0**	80	30	12	4	E142 1100	**$102.68**		
1200	**12.0**	80	30	12	4	E142 1200	**$89.90**		
1400	**14.0**	90	35	16	4	E142 1400	**$115.52**		
1500	**15.0**	95	40	16	4	E142 1500	**$141.23**		
1600	**16.0**	95	40	16	4			E144 1600	**$129.92**
2000	**20.0**	110	45	20	4			E144 2000	**$169.48**
2500	**25.0**	120	50	25	5			E144 2500	**$305.03**
3000	**30.0**	125	55	25	6			E144 3000	**$423.64**

ISO	P												M			K						N									S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E142	●	●	○	○		●																	●	●	●	○		○		○																			
E144	●	●	○	○		●																	●	●	●	○		○		○																			

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

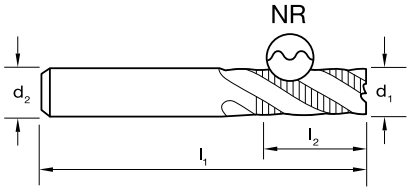
● Optimal ○ Effective

* Not available once current stock is depleted.

Roughers NR (normal), R30 WN, Regular

suttontools

- For roughing applications
- NR geometry allows for heavy cuts
- Suitable for materials up to 1000 N/mm²
- TiCN for longer tool life



Catalogue Code	**E143**
Discount Group	B0404
Material	**HSS Co.8**
Surface Finish	***TiCN***
Sutton Designation	**WN**
Geometry	R30 NR
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (js14)	l_1	l_2	d_2	z	Item #	List Price
0600	**6.0**	60	15	10	3	E143 0600	**$68.64**
0800	**8.0**	65	20	10	3	E143 0800	**$75.55**
1000	**10.0**	75	25	10	4	E143 1000	**$82.37**
1200	**12.0**	80	30	12	4	E143 1200	**$96.12**

ISO	P												M			K						N									S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E143	●	●	○	○	○	●	○	○									○		○		○		○	○	○	○		○		○																			

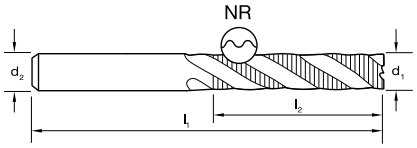
P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

● Optimal ○ Effective

Roughers NR (normal), R30 WN, Long

suttontools

- For roughing applications
- NR geometry allows for heavy cuts
- Suitable for materials up to 1000 N/mm²



Catalogue Code	**E146**
Discount Group	B0402
Material	**HSS Co.8**
Surface Finish	***Brt***
Sutton Designation	**WN**
Geometry	R30 NR (coarse pitch)
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (js14)	l_1	l_2	d_2	z	Item #	List Price
0600	**6**	68	24	6	3	E146 0600	**$69.32**
0800	**8**	88	38	10	3	E146 0800	**$84.71**
1000	**10**	95	45	10	4	E146 1000	**$89.90**
1200	**12**	110	53	12	4	E146 1200	**$107.81**
1600	**16**	123	63	16	4	E146 1600	**$164.33**
1800	**18**	123	63	16	4	E146 1800	**$246.49**
2000	**20**	141	75	20	4	E146 2000	**$220.80**
2200	**22**	141	75	20	5	E146 2200	**$400.51**
2500	**25**	166	90	25	5	E146 2500	**$400.51**
3000	**30**	166	90	25	6	E146 3000	**$513.50**
3200	**32**	186	106	32	6	•	
1270	**1/2**	4-5/16	2-1/16	1/2	4	E146 1270	**$107.81**
1588	**5/8**	4-27/32	2-1/2	5/8	4	E146 1588	**$164.33**
1905	**3/4**	5-9/16	2-15/16	3/4	4	E146 1905	**$220.80**
2540	**1**	6-9/16	3-9/16	1	5	E146 2540	**$400.51**
3175	**1-1/4**	7-5/16	4-3/16	1-1/4	6	E146 3175	**$593.06**
3810	**1-1/2**	8-17/32	4-29/32	1-1/4	6	E146 3810	**$765.11**

ISO	P													M			K						N										S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E146	●	●	○	○		●																	●	●	●	○		○		○																				

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

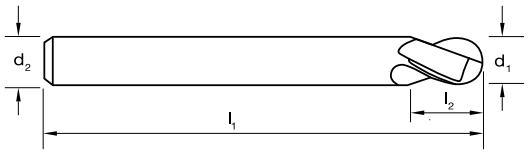
● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

Slot Drills Ballnose, 2 Flute, R30 N, Long

suttontools

- For long-reach profiling & contour milling applications
- Suitable for materials up to 1000 N/mm²



Catalogue Code	**E113**
Discount Group	B0502
Material	**HSS Co.8**
Surface Finish	***Brt***
Sutton Designation	**N**
Geometry	R30
Shank Form (DIN 1835)	A
Shank Tolerance	h6

Size Ref.	d_1 (e8)	l_1	l_2	d_2	z	Item #	List Price
0150	**1.5**	55	3	6	2	E113 0150	**$122.97**
0200	**2**	55	4	6	2	E113 0200	**$112.48**
0250	**2.5**	55	5	6	2	E113 0250	**$112.48**
0300	**3**	60	6	6	2	E113 0300	**$64.10**
0400	**4**	70	8	6	2	E113 0400	**$64.10**
0450	**4.5**	70	8	6	2	•	
0500	**5**	80	10	6	2	E113 0500	**$64.10**
0600	**6**	90	12	6	2	E113 0600	**$64.10**
0700	**7**	90	14	6	2	E113 0700	**$119.39**
0800	**8**	100	16	8	2	E113 0800	**$87.34**
0900	**9**	100	18	8	2	E113 0900	**$158.16**
1000	**10**	100	20	10	2	E113 1000	**$110.62**
1200	**12**	110	24	12	2	E113 1200	**$110.62**
1400	**14**	110	28	12	2	E113 1400	**$131.00**
1600	**16**	140	32	16	2	E113 1600	**$145.62**
2000	**20**	160	40	20	2	E113 2000	**$189.26**
2500	**25**	180	50	25	2	E113 2500	**$293.43**
3000	**30**	180	55	25	2	E113 3000	**$598.23**

ISO	P												M			K						N									S											H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E113	●	●	○	○	○	●	○	○		○				○	○		○	○	○	○	○	○	●	●	●	○	○	○		○																			

P Steel **M** Stainless Steel **K** Cast Iron **N** Non-Ferrous Metals **S** Titanium & Super Alloys **H** Hard Materials

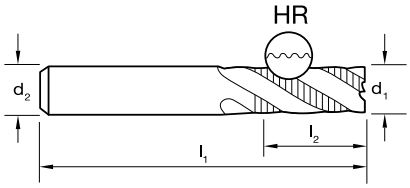
● Optimal ○ Effective

• Available on request as special manufacture. Subject to lead time.

Roughers HR (fine), R30 NH, Regular

suttontools

- For roughing applications
- HR geometry allows for heavy cuts, in harder materials
- Suitable for materials up to 1300 N/mm²
- TiCN for longer tool life



	E168	E169
Catalogue Code	E168	E169
Discount Group	B0402	B0404
Material	HSS Co.8	HSS Co.8
Surface Finish	*Brt*	*TiCN*
Sutton Designation	NH	NH
Geometry	R30 HR	R30 HR
Shank Form (DIN 1835)	A	A
Shank Tolerance	h6	h6

Size Ref.	d_1 (js14)	l_1	l_2	d_2	z	Item #	List Price	Item #	List Price
0600	6.0	60	15	10	3	E168 0600	$80.18	E169 0600	$85.81
0800	8.0	65	20	10	3	E168 0800	$88.03	E169 0800	$94.15
1000	10.0	75	25	10	4	E168 1000	$96.35	E169 1000	$102.96
1200	12.0	80	30	12	4	E168 1200	$124.22	E169 1200	$139.49

ISO	P												M			K						N									S												H					
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14.1	14.2	14.3	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37.1	37.2	37.3	37.4	37.5	38.1	38.2	39.1	39.2	40	41
E168			●		○		●	○	○	○	○	○	○				○		○		○								○																				
E169					●		●	●	●	●	●	○	○	○	○	○	●	○	●	○	●	○							●																			○	

P Steel M Stainless Steel K Cast Iron N Non-Ferrous Metals S Titanium & Super Alloys H Hard Materials

● Optimal ○ Effective

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The Harmony range of Endmills represents world's latest technologies to provide increases in both performance and tool life. The key to successful milling is to minimise or eliminate the harmonic vibration produced in the cutting action.

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- Gash grind of the endteeth
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The bottom line for you:

- Longer tool life
- Improved surface finish
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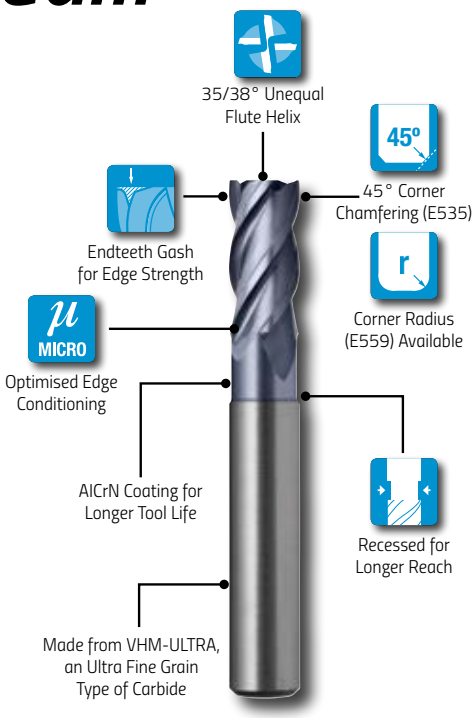

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1	2	3	4	5
Material	Task	Setup	Select	Results

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