

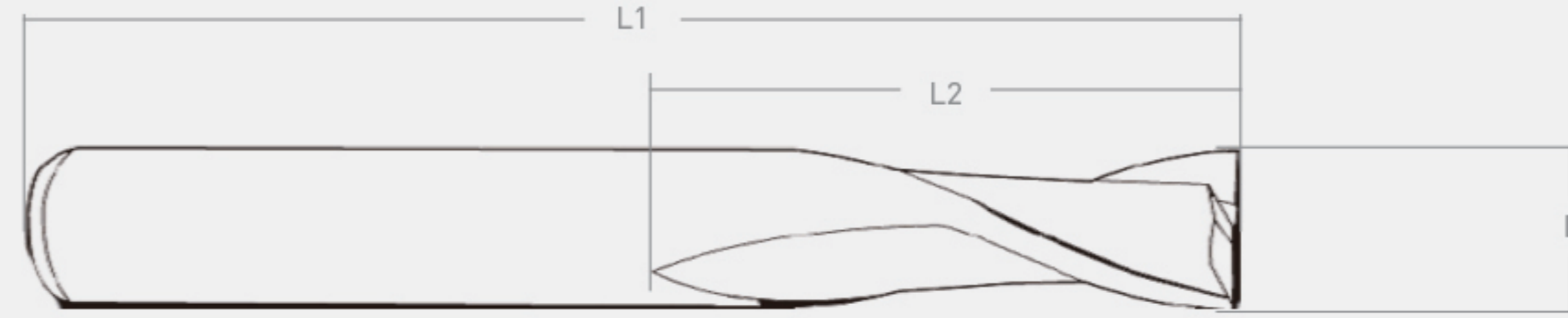
DIN standard

ASME/ANSI standard

KEYWAY MILLING CUTTER

DIN-327

keyway milling cutter

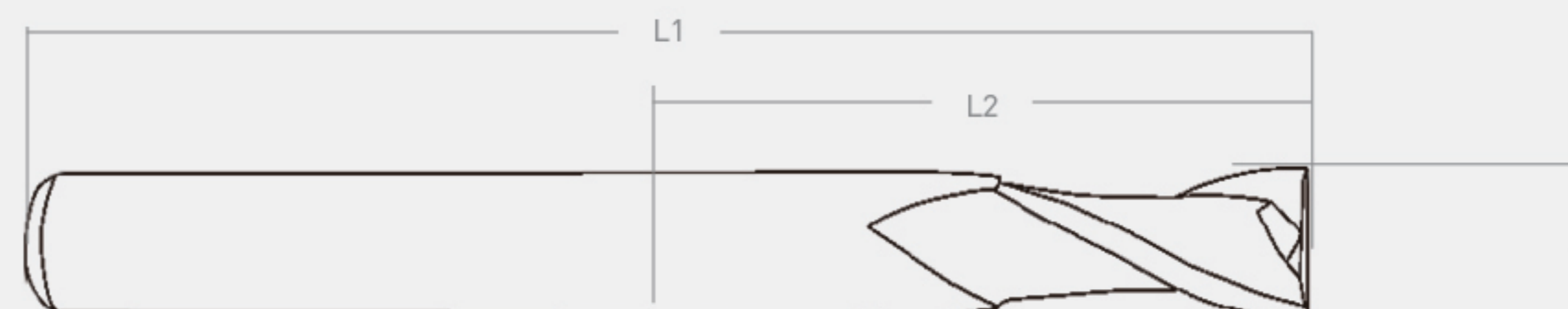


D	d	1	L	Z
1	6	3	46	2
1.5	6	4	48	2
2	6	4	48	2
2.5	6	5	49	2
3	6	5	49	2
4	6	7	51	2
5	6	8	52	2
6	6	8	52	2
7	10	10	60	2
8	10	11	61	2
9	10	13	63	2
10	10	13	63	2
11	12	16	73	2
12	12	16	73	2
13	12	16	73	2
14	12	16	73	2
15	12	16	73	2
16	16	19	79	2

D	d	1	L	Z
17	16	19	79	2
18	16	19	79	2
19	16	19	79	2
20	20	22	88	2
21	20	22	88	2
22	20	22	88	2
23	20	22	88	2
24	25	26	102	2
25	25	26	102	2
26	25	26	102	2
27	25	26	102	2
28	25	26	102	2
30	25	26	102	2
32	32	32	112	2
34	32	32	112	2
36	32	32	112	2
40	40	38	130	2

DIN-327

keyway milling cutter extension



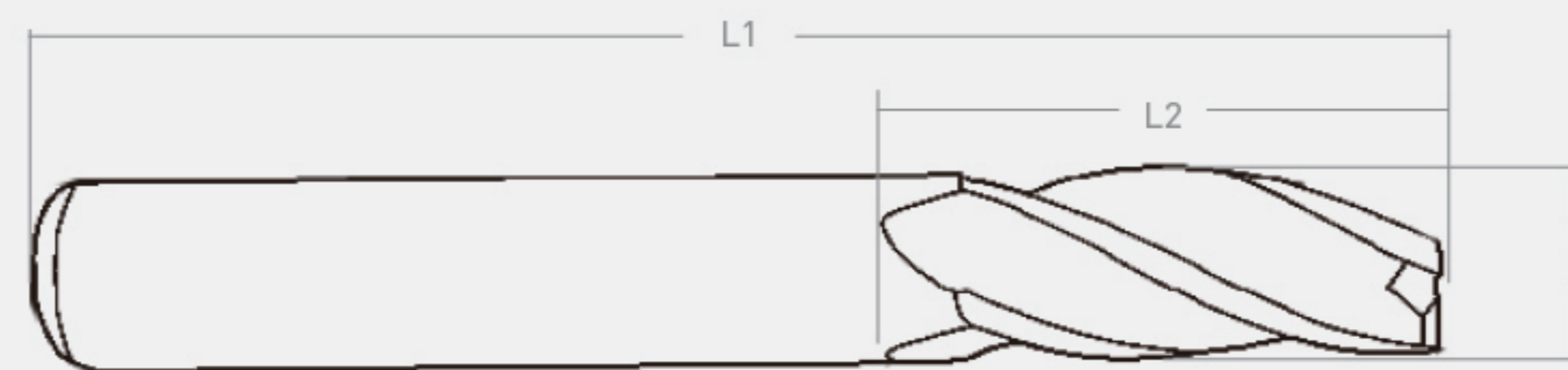
D	d	1	L	Z
1	6	5	52	2
2	6	7	54	2
3	6	8	56	2
4	6	11	63	2
5	6	13	68	2
6	6	13	68	2
7	10	16	80	2
8	10	19	88	2
9	10	19	88	2
10	10	22	95	2
11	12	26	110	2
12	12	26	110	2
13	12	26	110	2
14	12	26	110	2
15	12	26	110	2
16	16	32	123	2

D	d	1	L	Z
17	16	32	123	2
18	16	32	123	2
19	16	32	123	2
20	20	38	141	2
21	20	38	141	2
22	20	38	141	2
23	20	38	141	2
24	25	45	166	2
25	25	45	166	2
26	25	45	166	2
28	25	45	166	2
30	25	45	166	2
32	32	53	186	2
36	32	53	186	2
40	40	63	216	2

END MILLING CUTTER

DIN-844

End milling cutter

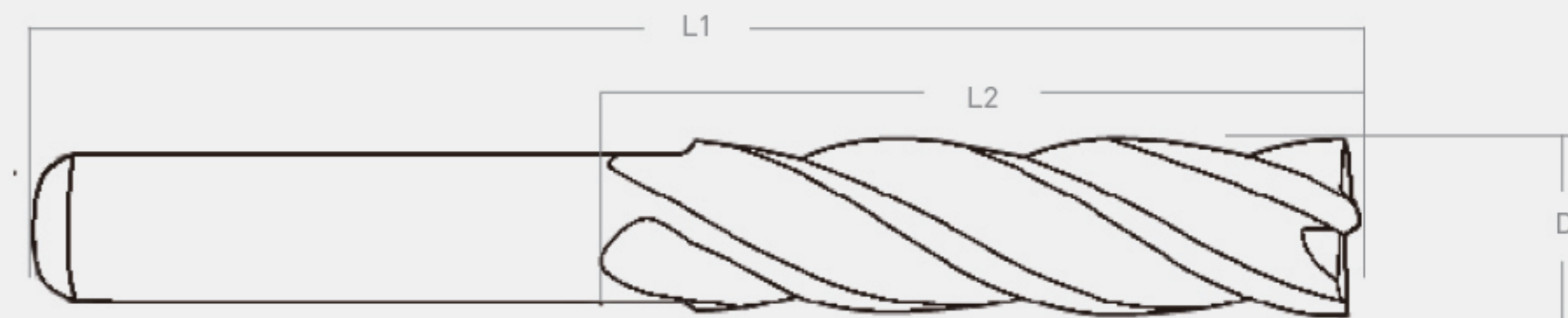
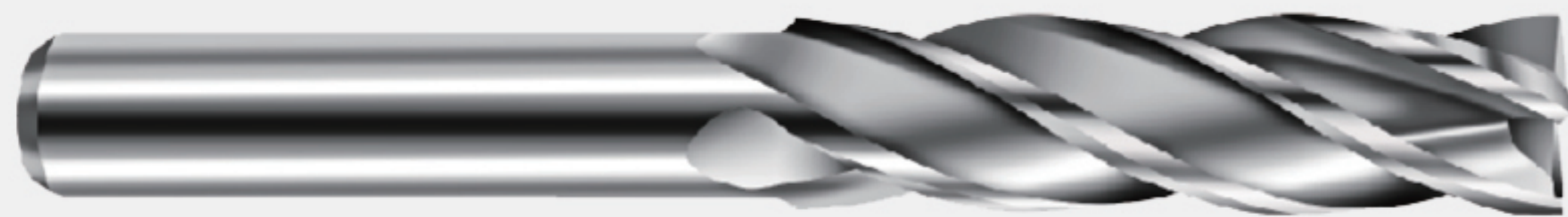


D	d	1	L	Z	D	d	1	L	Z
1	6	5	49	3&4	13	12	26	83	3&4
1.5	6	7	51	3&4	14	12	26	83	3&4
2	6	7	51	3&4	15	12	26	83	3&4
2.5	6	8	52	3&4	16	16	32	92	3&4
3	6	8	52	3&4	17	16	32	92	3&4
3.5	6	11	55	3&4	18	16	32	92	3&4
4	6	11	55	3&4	19	16	32	92	3&4
4.5	6	13	57	3&4	20	20	38	104	3&6
5	6	13	57	3&4	21	20	38	104	3&6
5.5	6	13	57	3&4	22	20	38	104	3&6
6	6	13	57	3&4	23	20	38	104	3&6
6.5	10	16	66	3&4	24	25	45	121	3&6
7	8	19	63	3&4	25	25	45	121	3&6
7	10	16	66	3&4	26	25	45	121	3&6
7.5	10	19	69	3&4	27	25	45	121	3&6
8	8	19	63	3&4	28	25	45	121	3&6
8	10	19	69	3&4	29	25	45	121	3&6
8.5	10	19	69	3&4	30	25	45	121	3&6
9	10	22	72	3&4	31	32	53	133	3&6
9.5	10	22	72	3&4	32	32	53	133	3&6
10	10	22	72	3&4	34	32	53	133	3&6
11	12	26	83	3&4	36	32	53	133	3&6
12	12	26	83	3&4	40	40	63	155	3&6

END MILLING CUTTER EXTENSION

DIN-844

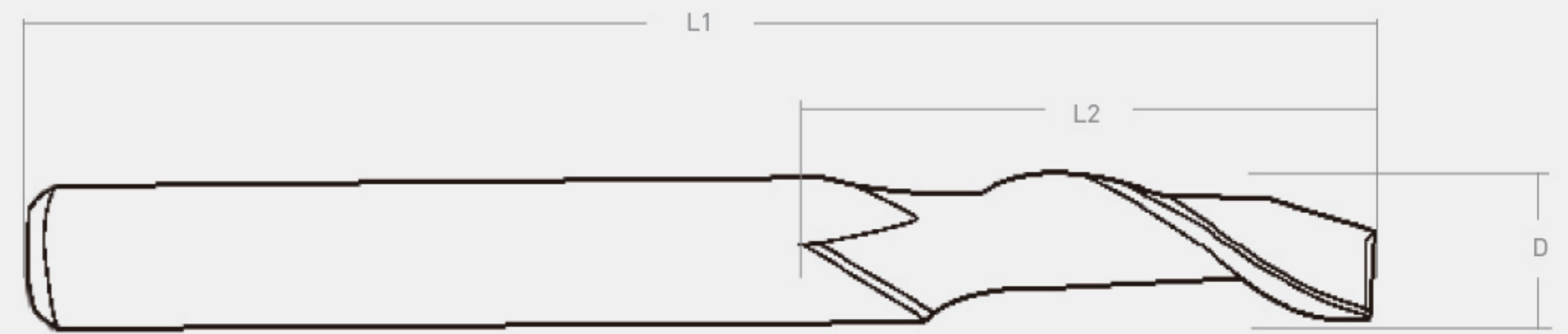
End milling cutter extension



D	d	l	L	Z	D	d	l	L	Z
1	6	8	52	3&4	18	16	63	123	3&4
2	6	10	54	3&4	19	16	63	123	3&4
3	6	12	56	3&4	20	20	75	141	3&6
4	6	19	63	3&4	21	20	75	141	3&6
5	6	24	68	3&4	22	20	75	141	3&6
6	6	24	68	3&4	23	20	75	141	3&6
7	10	30	80	3&4	24	25	90	166	3&6
8	8	38	82	3&4	25	25	90	166	3&6
8	10	38	88	3&4	26	25	90	166	3&6
9	10	38	88	3&4	27	25	90	166	3&6
10	10	45	95	3&4	28	25	90	166	3&6
11	12	53	110	3&4	30	25	90	166	3&6
12	12	53	110	3&4	31	32	106	186	3&6
13	12	53	110	3&4	32	32	106	186	3&6
14	12	53	110	3&4	34	32	106	186	3&6
15	12	53	110	3&4	36	32	106	186	3&6
16	16	63	123	3&4	40	40	125	217	3&6
17	16	63	123	3&4					

MILLING CUTTER

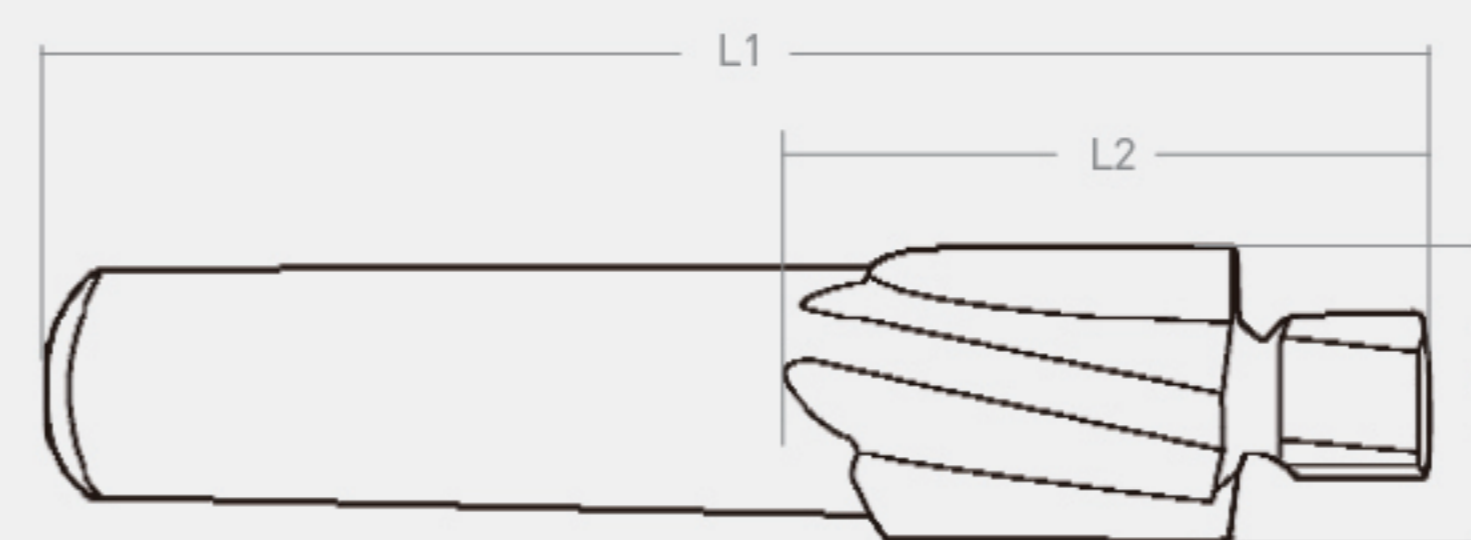
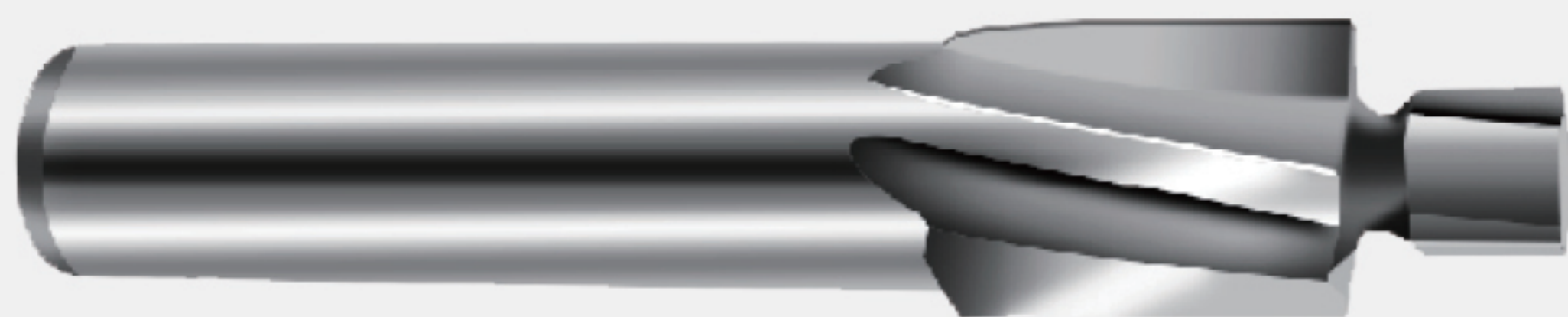
Single edge profiling milling cutter



D	d	l	M	L
3	6	10		60
4	6	10		60
5	6	12		60
6	6	12		60
3	8	12		60
4	8	12		60
5	8	14		60
6	8	14		60
7	8	14		60
8	8	14		60
4	8	14	35	80
5	8	14	35	80
6	8	14	35	80

D	d	l	M	L
7	8	14	35	80
8	8	14		80
8	8	20		80
4	8	16	45	100
5	8	16	45	100
6	8	16	45	100
8	8	16		100
8	8	30		100
10	10	30		100
12	12	30		100
8	8	30		120
10	10	30		120
12	12	30		120

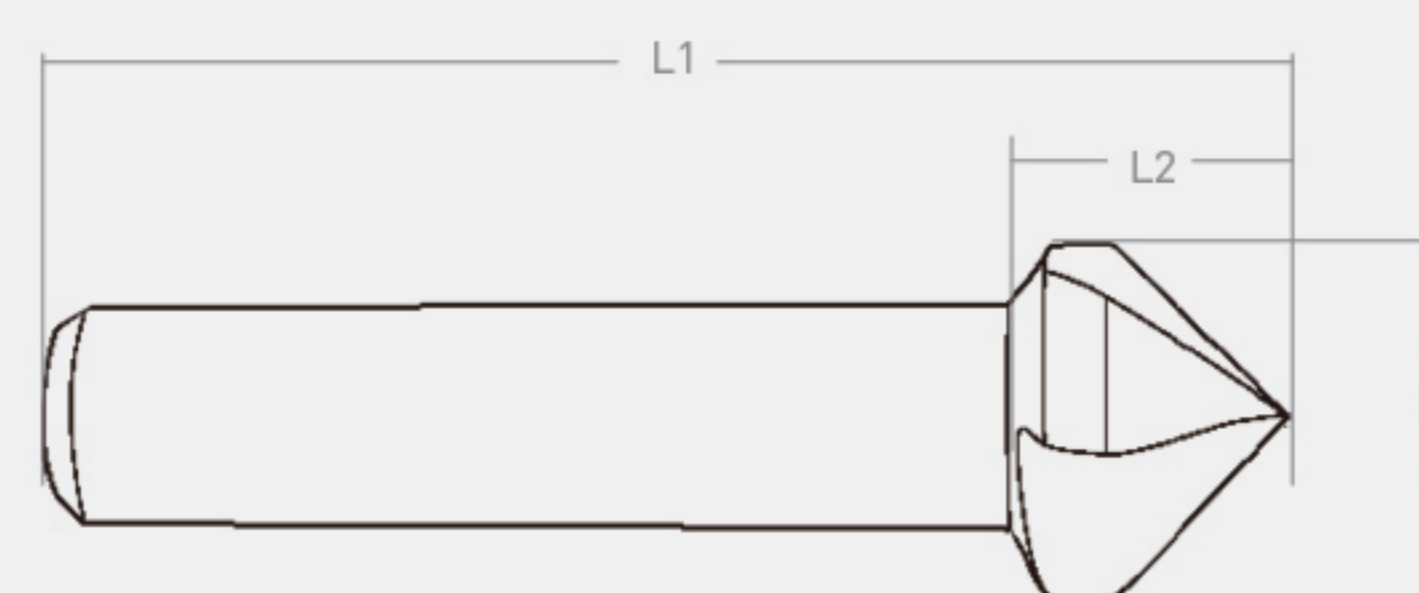
Full grinding countersunk head cutter



F	D	d	L
3.2	6.5	6	51
4.2	8	6	51
5.2	9.5	7	51
6.2	11	10	58
8.2	14	12	67

F	D	d	L
10.3	17.5	12	74
12.4	20	12	83
14.4	24	12	90
16.5	26	12	93

Full grinding chamfering cutter



D	d	l	L	Z
6.3	6	8	50	1&3
8.4	6	10	50	1&3
10.4	8	11	50	1&3
12.4	8	12	56	1&3
16.5	10	15	60	1&3
20.5	10	18	63	1&3
25	10	20	67	1&3

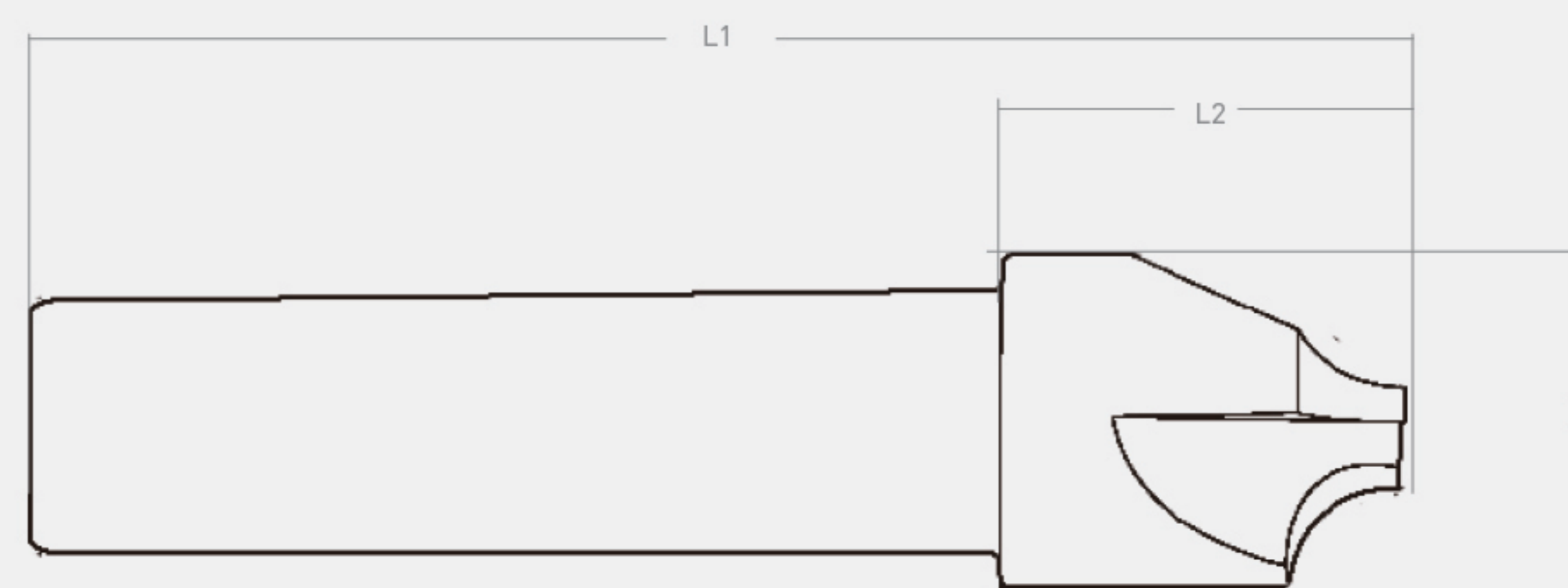
D	d	l	L	Z
28	12	20	67	1&3
31	12	22	71	1&3
35	12	25	74	1&3
40	12	28	82	1&3
45	12	35	92	1&3
50	16	34	100	1&3
60	20	38	115	1&3

DIN standard

ASME/ANSI standard

MILLING CUTTER

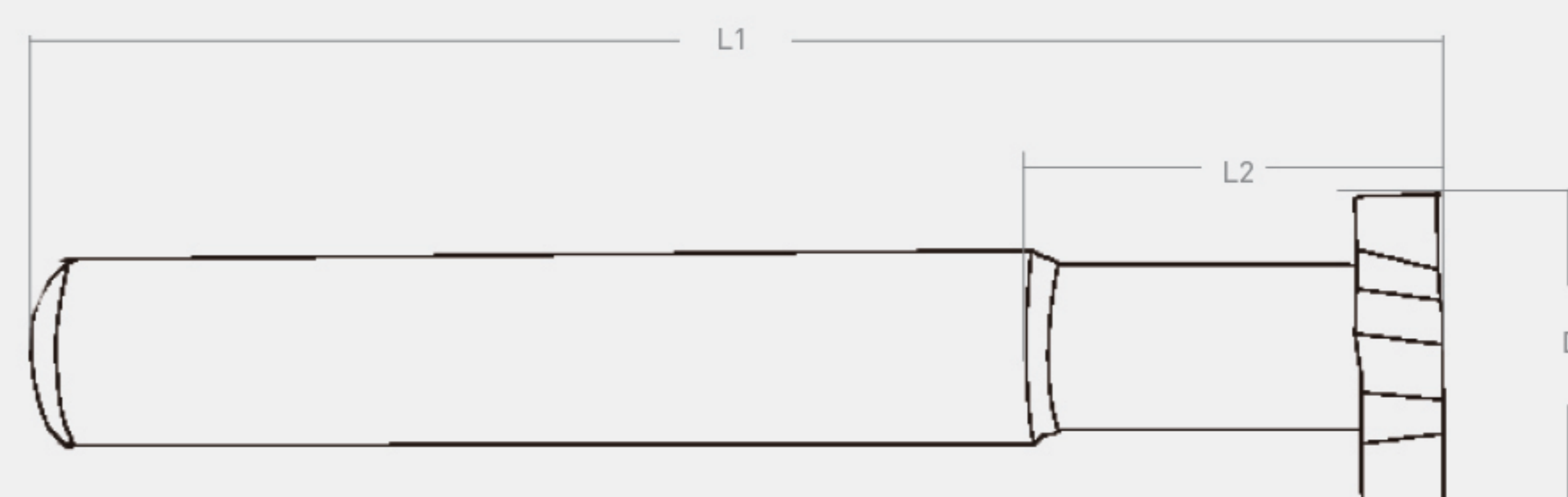
Full grinding internal r-knife



R	F	D	d	I	L
R1	6	8	8	18	68
R1.5	6	9	9	18	68
R2	6	10	10	20	70
R2.5	6	11	10	20	70
R3	6	12	10	20	70
R3.5	6	13	12	22	76
R4	6	14	12	22	76
R4.5	6	15	12	24	76
R5	6	16	16	24	89
R5.5	8	19	16	28	89

R	F	D	d	I	L
R6	8	20	16	28	89
R7	8	22	16	28	89
R8	8	24	20	30	89
R9	8	26	20	30	89
R10	8	28	20	30	89
R12	8	32	20	30	89
R12.5	8	33	20	32	89
R15	8	40	20	39	110
R20	8	50	20	44	115

T-type milling cutter



D	d	I	L	Z
8	6	1-8	60	6
10	6	1-8	60	6
12	8	1-10	60	6
14	8	1-10	60	6
16	10	2-12	60	6
18	12	3-12	74	6
20	12	3-12	90	6
22	12	3-12	90	6
25	12	3-12	90	8

D	d	I	L	Z
28	12	3-12	90	8
30	16	3-12	90	8
32	16	3-12	90	8
35	16	3-12	90	8
40	20	3-12	108	8
42	20	3-12	112	8
45	20	3-12	112	8
50	20	3-12	124	10

20 PIECE SET OF END MILLING CUTTER SPECIFICATIONS

SIZE 2F/4F



Inch	Metric
3/16"	3MM
1/4"	4MM
5/16"	5MM
3/8"	6MM
7/16"	8MM
1/2"	10MM
9/16"	2MM
5/8"	14MM
11/16"	16MM
3/4"	20MM

20 PIECE SET OF END MILLING CUTTER SPECIFICATIONS

12PCS 2F/4F



Inch	Metric
3/16"	4MM
1/4"	5MM
5/16"	6MM
3/8"	8MM
7/16"	10MM
1/2"	12MM

10 PIECE SET OF END MILLING CUTTER SPECIFICATIONS SIZE

12PCS 2F/4F



Inch	Metric
3/16"	3MM
1/4"	4MM
5/16"	5MM
3/8"	6MM
7/16"	8MM
1/2"	10MM
9/16"	12MM
5/8"	14MM
11/16"	16MM
3/4"	20MM

10 PIECE ROUGH LEATHER END MILLING CUTTER SIZE

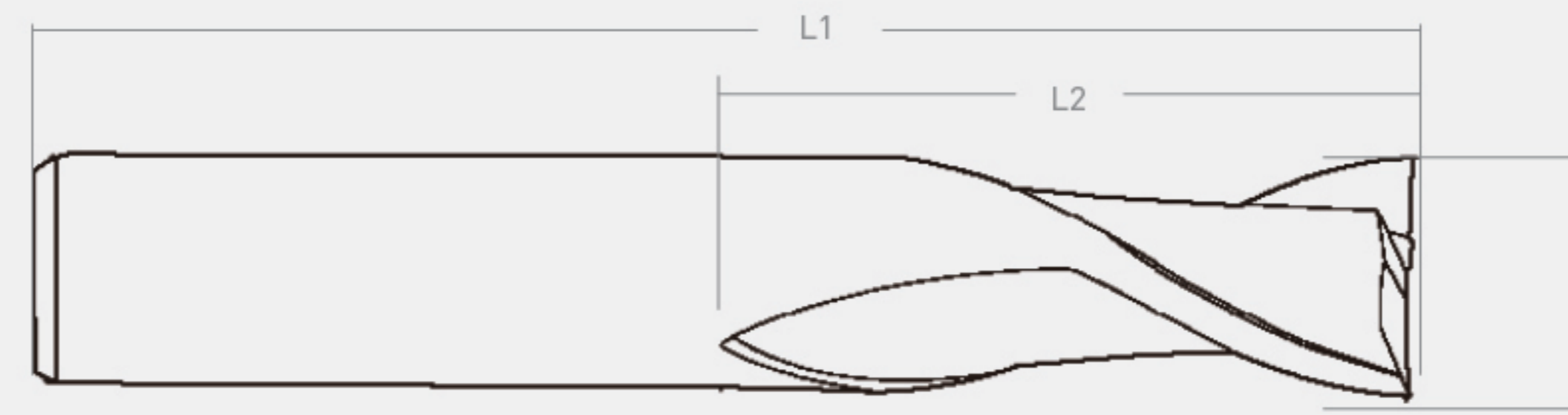
12PCS 2F/4F



Inch	Metric
1/4"	6MM
5/16"	8MM
3/8"	10MM
1/2"	12MM
9/16"	14MM
5/8"	16MM
11/16"	18MM
3/4"	20MM
7/8"	22MM
1"	25MM

STRAIGHT SHANK KEYWAY MILLING CUTTER

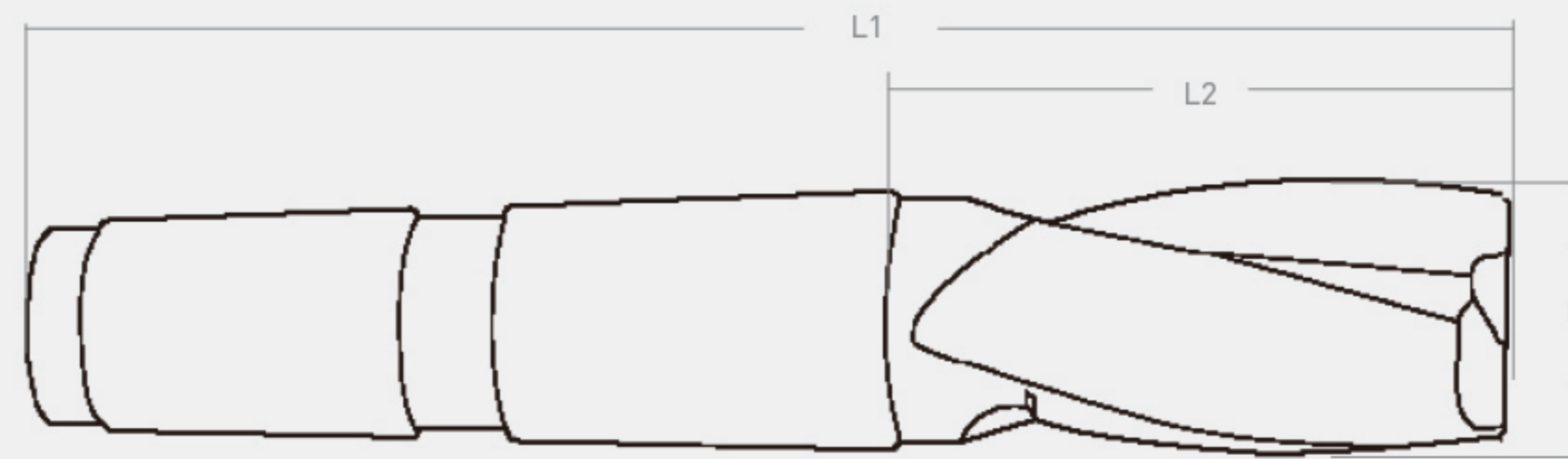
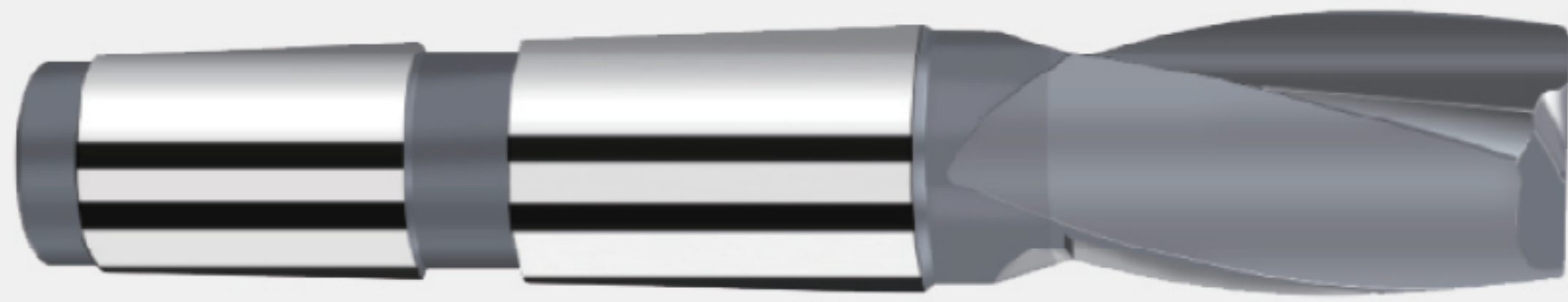
Russian standard straight shank keyway milling cutter



D	d	l	L	Z	D	d	l	L	Z
2	2	4	36	2	10	10	22	72	2
2	4	4	36	2	11	12	22	79	2
2	4	7	39	2	12	12	16	73	2
2	2	9	36	2	12	12	26	83	2
3	3	5	37	2	14	14	16	73	2
3	4	5	37	2	14	14	26	83	2
3	4	8	40	2	16	16	19	79	2
4	4	7	39	2	16	16	32	92	2
4	4	11	43	2	18	18	19	79	2
5	5	8	42	2	18	18	32	92	2
5	5	13	47	2	20	20	22	88	2
6	6	8	52	2	20	20	38	104	2
6	6	13	57	2	22	20	22	88	2
7	8	10	54	2	22	20	38	104	2
7	8	16	60	2	24	25	26	102	2
8	8	11	55	2	24	25	45	121	2
8	8	19	63	2	25	25	26	102	2
9	10	11	61	2	25	25	45	121	2
10	10	13	63	2					

TAPER SHANK KEYWAY MILLING CUTTER

Russian standard Taper shank keyway milling cutter

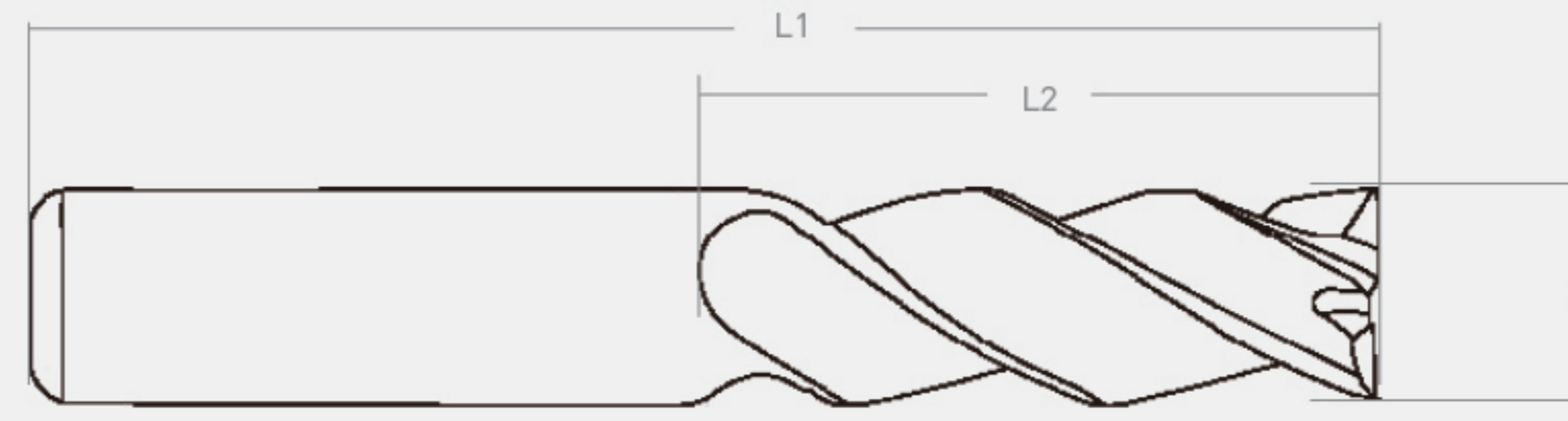
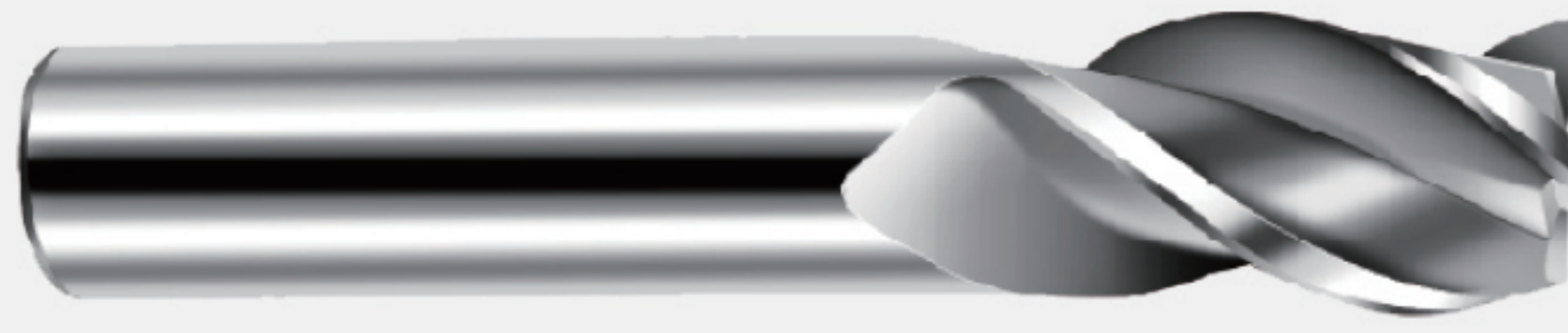


D	I	L	KM	Z	D	I	L	KM	Z
8	11	81	KM1	2	24	26	128	KM3	2
10	13	83	KM1	2	25	26	128	KM3	2
12	16	86	KM1	2	28	26	128	KM3	2
12	16	101	KM2	2	30	32	134	KM3	2
14	16	86	KM1	2	32	32	134	KM3	2
14	16	101	KM2	2	32	32	157	KM4	2
16	19	104	KM2	2	36	32	134	KM3	2
18	19	104	KM2	2	36	32	157	KM4	2
20	22	107	KM2	2	40	38	163	KM4	2
20	22	124	KM3	2	45	38	163	KM4	2
22	22	107	KM2	2	50	43	168	KM4	2
22	22	124	KM3	2					

TAPER SHANK EXTENSION KEYWAY MILLING CUTTER					TAPER SHANK EXTENSION KEYWAY MILLING CUTTER				
8	19	89	KM1	2	25	45	147	KM3	2
10	22	92	KM1	2	28	45	147	KM3	2
12	26	96	KM1	2	30	53	155	KM3	2
12	26	111	KM2	2	32	53	155	KM3	2
14	26	111	KM2	2	32	53	178	KM4	2
16	32	117	KM2	2	36	53	178	KM4	2
18	32	117	KM2	2	40	63	188	KM4	2
20	38	123	KM2	2	45	63	188	KM4	2
22	38	123	KM2	2	50	75	200	KM4	2
24	45	147	KM3	2					

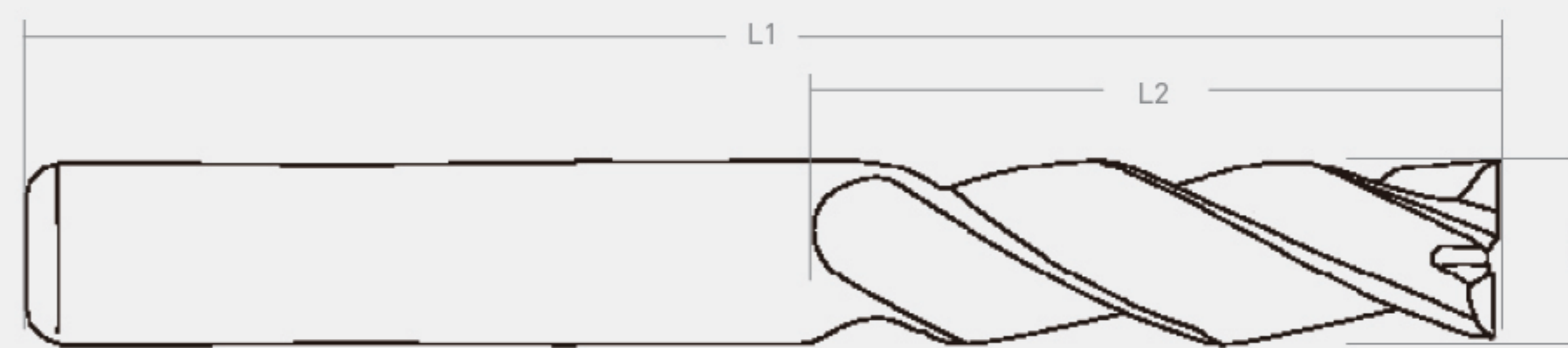
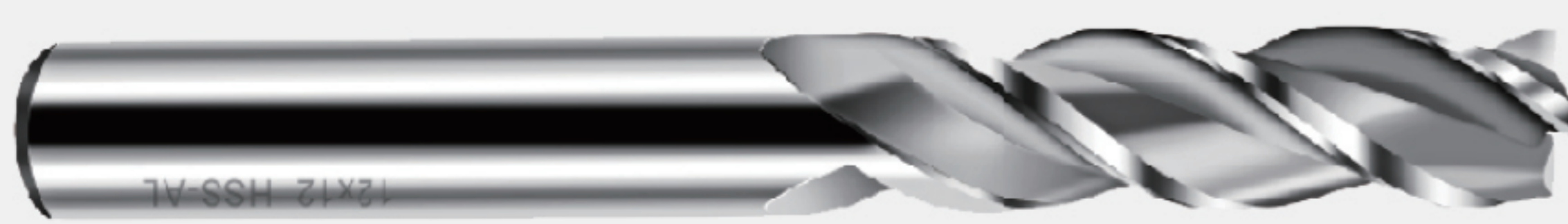
END MILLING CUTTER

Russian standard end milling cutter



D	d	l	L	Z	D	d	l	L	Z
2	2	7	39	3&4	11	12	22	79	3&4
2	4	7	39	3&4	12	12	26	83	3&4
2.5	2.5	8	40	3&4	13	12	26	83	3&4
2.5	4	8	40	3&4	14	12	26	83	3&4
3	3	8	40	3&4	14	14	26	83	3&4
3	4	8	40	3&4	16	16	32	92	3&5
4	4	11	43	3&4	18	16	32	92	3&5
5	5	13	47	3&4	18	18	32	92	3&5
5	6	13	57	3&4	20	20	38	104	3&6
6	6	13	57	3&4	22	20	38	104	3&6
7	7	16	60	3&4	24	20	45	121	3&6
7	8	16	60	3&4	24	25	45	121	3&6
8	8	19	63	3&4	25	20	45	121	3&6
9	9	19	69	3&4	25	25	45	121	3&6
9	10	19	69	3&4	28	20	45	121	3&6
10	10	22	72	3&4					

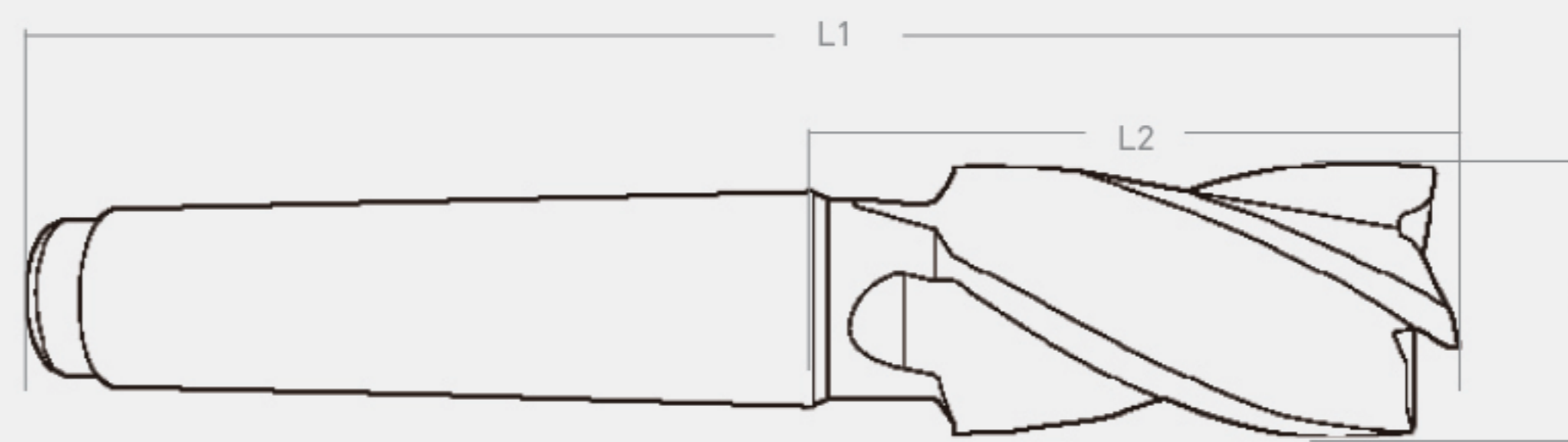
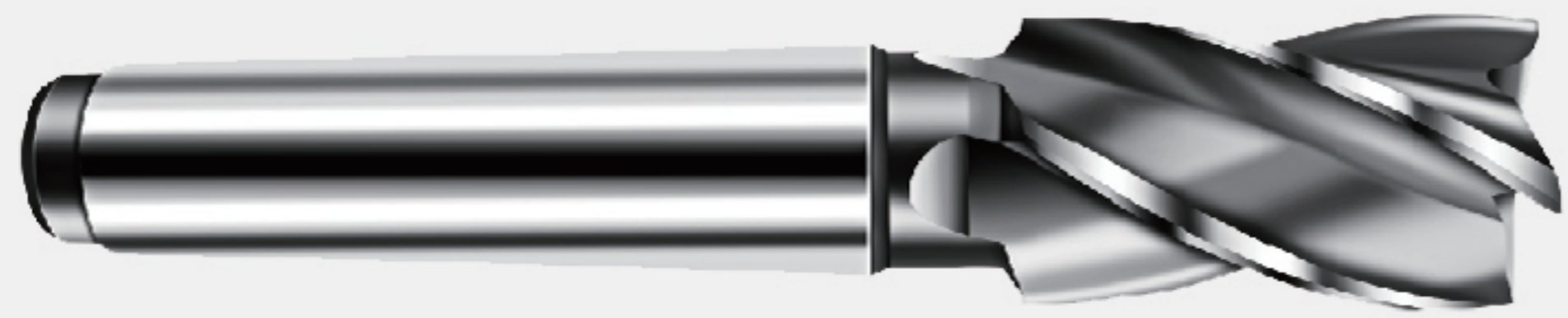
Russian standard end milling cutter extension



D	d	l	L	Z	D	d	l	L	Z
2.5	4	12	44	3&4	14	12	53	110	3&4
3	4	12	44	3&4	14	14	53	110	3&4
4	4	19	51	3&4	16	16	63	123	3&4
4	6	19	51	3&4	18	16	63	123	3&4
5	5	24	68	3&4	18	18	63	123	3&4
5	6	24	68	3&4	20	20	75	141	3&4
6	6	24	68	3&4	22	20	75	141	3&6
7	8	30	74	3&4	24	20	90	166	3&6
8	8	38	82	3&4	24	25	90	166	3&6
9	10	38	88	3&4	25	20	90	166	3&6
10	10	45	95	3&4	25	25	90	166	3&6
10	10	63	100	3&4	28	20	90	166	3&6
11	12	45	102	3&4	28	25	90	166	3&6
12	12	53	110	3&4					

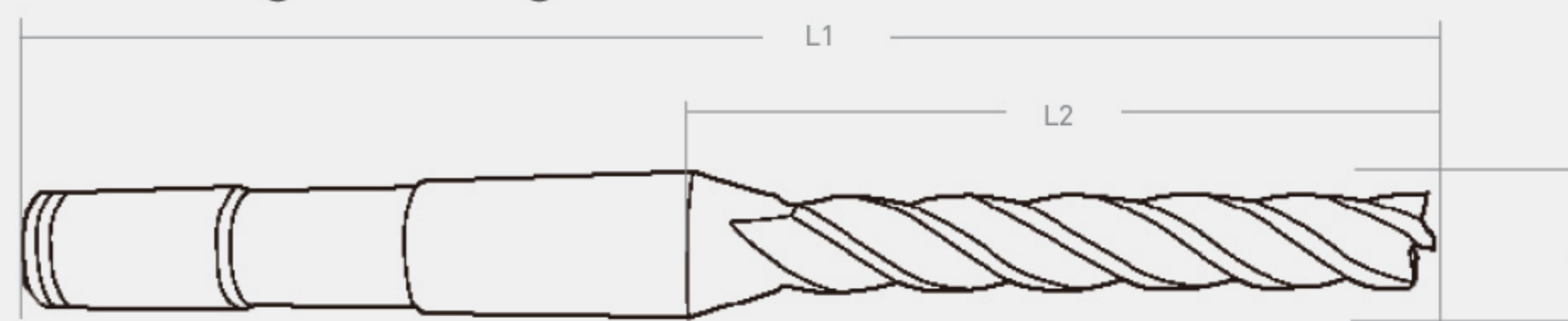
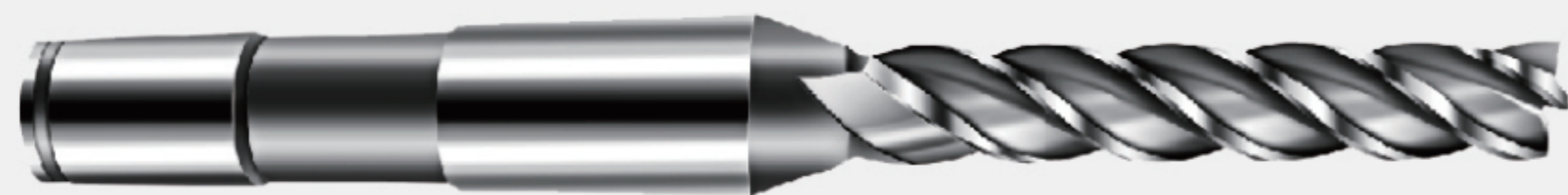
TAPER SHANK END MILLING CUTTER

Russian standard taper shank end milling cutter



D	d	l	KM	Z	D	d	l	KM	Z
10	22	92	KM1	3&4	32	53	155	KM3	3&6
12	26	96	KM1	3&4	32	53	178	KM4	3&6
12	26	111	KM2	3&4	36	53	155	KM3	3&6
14	26	96	KM1	3&4	36	53	178	KM4	3&6
14	26	111	KM2	3&4	40	63	188	KM4	3&6
16	32	117	KM2	3&4	40	63	221	KM5	3&6
18	32	117	KM2	3&4	42	63	188	KM4	3&6
20	38	123	KM2	3&6	45	63	188	KM4	3&6
20	38	140	KM3	3&6	45	63	221	KM5	3&6
22	38	123	KM2	3&6	48	75	200	KM4	3&6
22	38	140	KM3	3&6	50	75	200	KM4	3&8
24	45	147	KM3	3&6	50	75	233	KM5	3&8
25	45	147	KM3	3&6	56	75	200	KM4	3&8
28	45	147	KM3	3&6	56	75	233	KM5	3&8
30	53	155	KM3	3&6	60	90	248	KM5	3&8
30	53	178	KM4	3&6	63	90	248	KM5	3&8

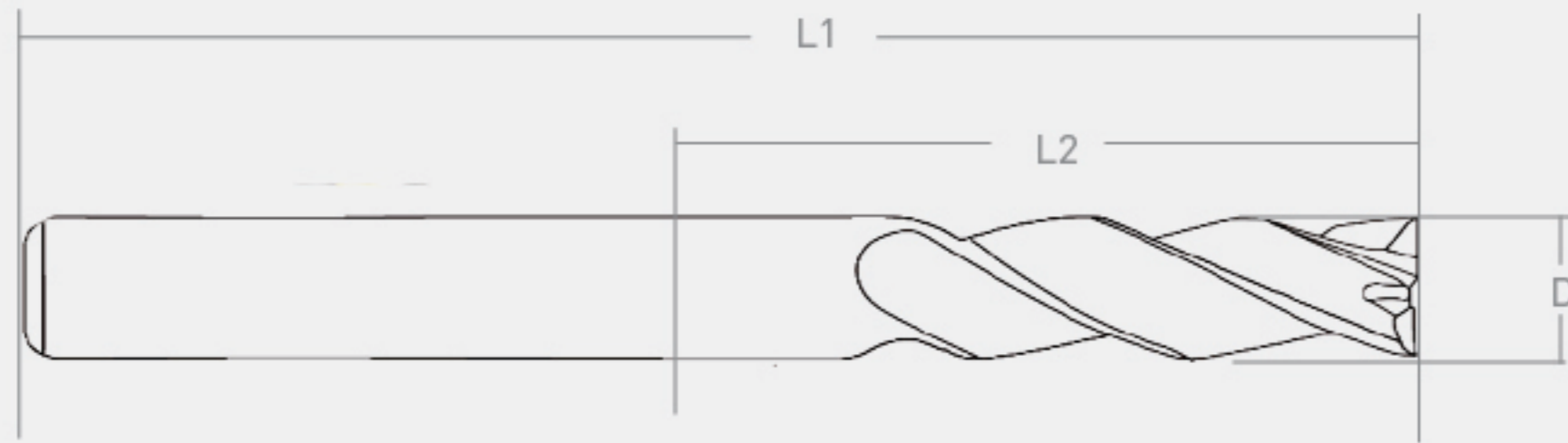
Russian standard taper shank end milling cutter lengthening



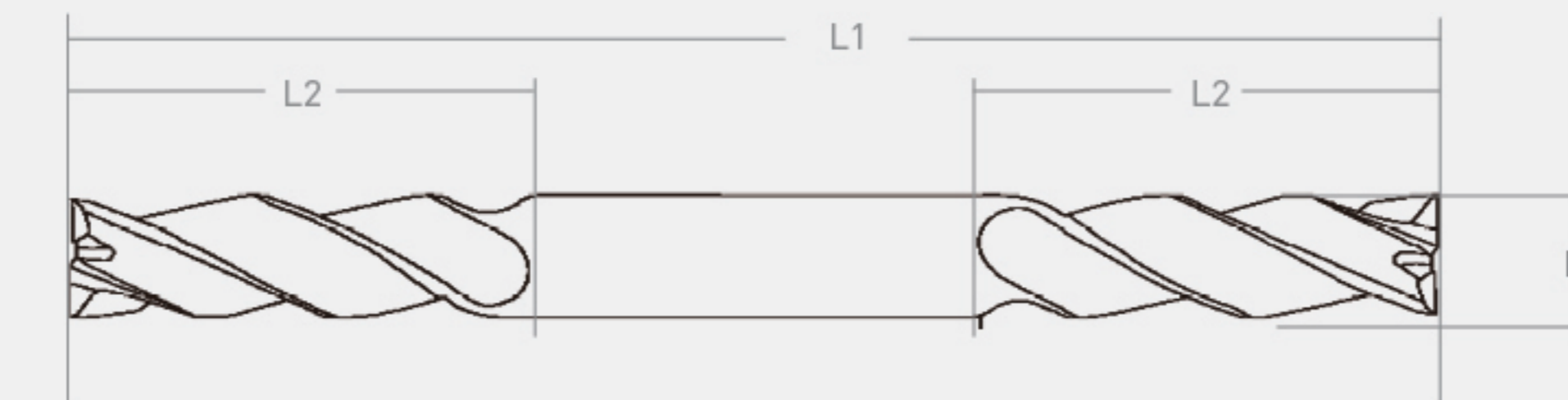
D	l	L	KM	Z	D	l	L	KM	Z
10	45	115	KM1	3&4	32	106	208	KM3	3&6
12	53	123	KM1	3&4	32	106	231	KM4	3&6
12	53	138	KM2	3&4	32	140	350	KM3	3&6
14	53	138	KM2	3&4	32	200	325	KM4	3&6
14	100	185	KM2	3&4	35	106	231	KM4	3&6
16	63	148	KM2	3&4	36	106	231	KM4	3&6
18	63	148	KM2	3&4	36	200	320	KM4	3&6
20	75	160	KM2	3&6	40	125	250	KM4	3&6
20	100	200	KM3	3&6	40	125	283	KM5	3&6
20	120	215	KM3	3&6	40	200	320	KM4	3&6
20	150	250	KM3	3&6	45	125	250	KM4	3&6
20	200	300	KM3	3&6	45	125	283	KM5	3&6
22	75	177	KM3	3&6	50	150	278	KM4	3&8
24	90	192	KM3	3&6	50	150	308	KM5	3&8
25	90	192	KM3	3&6	50	200	320	KM4	3&8
25	120	215	KM3	3&6	56	150	278	KM4	3&8
25	150	250	KM3	3&6	56	150	308	KM5	3&8
28	90	192	KM3	3&6	60	180	338	KM5	3&8
30	106	208	KM3	3&6	63	180	338	KM5	3&8
30	140	242	KM3	3&6					

ALUMINUM STRAIGHT SHANK MILLING CUTTER

Aluminum straight shank milling cutter



double-head endmill



Aluminum straight shank milling cutter

D	d	l	L	Z
2	6	7	51	2&3
2	6	10	54	2&3
3	3	8	36	2&3
3	6	8	52	2&3
3	6	12	56	2&3
4	4	11	43	2&3
4	6	11	55	2&3
4	6	19	63	2&3
5	5	13	47	2&3
5	6	13	57	2&3
5	6	24	68	2&3
6	6	13	57	2&3
6	6	16	52	2&3
6	6	24	68	2&3
8	8	19	59	2&3

D	d	l	L	Z
8	8	38	78	2&3
8	10	19	69	2&3
8	10	38	88	2&3
10	10	22	72	2&3
10	10	45	95	2&3
12	12	26	83	2&3
12	12	53	110	2&3
15	12	26	83	2&3
15	12	53	110	2&3
16	16	32	92	2&3
16	16	63	123	2&3
18	16	32	92	2&3
18	16	63	123	2&3
20	20	38	104	2&3
20	20	75	141	2&3

Aluminum straight shank milling cutter

D	d	l	L	Z
3	3	10	45	3&4
3	6	10	50	3&4
4	4	15	55	3&4
4	6	15	60	3&4
4	6	18	75	3&4
5	5	14	65	3&4
5	6	14	65	3&4
5	6	20	80	3&4
6	6	15	65	3&4

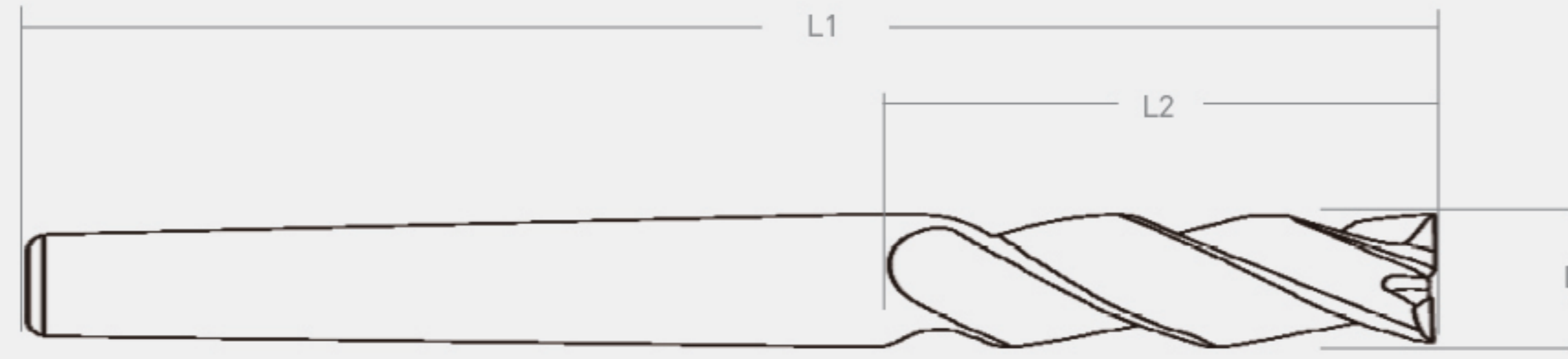
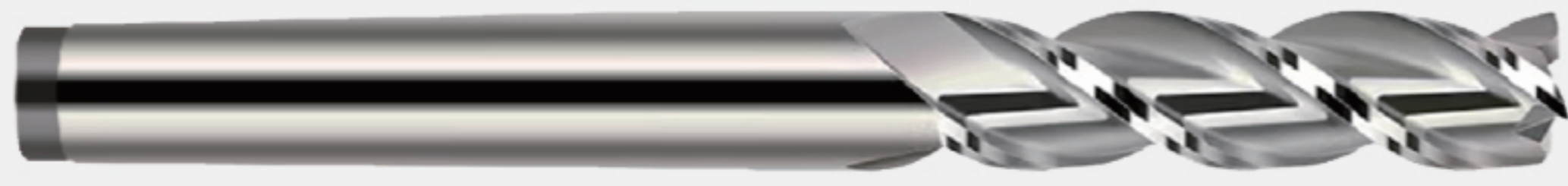
D	d	l	L	Z
6	6	18	65	3&4
6	6	20	80	3&4
7	8	20	80	3&4
8	8	20	80	3&4
9	10	20	80	3&4
10	10	20	80	3&4
10	10	25	100	3&4
12	12	20	80	3&4
12	12	26	100	3&4

DIN standard

ASME/ANSI standard

ALUMINUM TAPER SHANK MILLING CUTTER

Aluminum taper shank milling cutter



Aluminum taper shank milling cutter

D	d	l	L	Z
8	26	108	KM2	2&3
8	38	120	KM2	2&3
10	22	104	KM2	2&3
10	45	127	KM2	2&3
12	26	108	KM2	2&3
12	53	135	KM2	2&3
14	26	108	KM2	2&3
14	53	138	KM2	2&3
16	32	114	KM2	2&3
16	63	148	KM2	2&3
16	63	162	KM3	2&3
18	32	114	KM2	2&3
18	63	148	KM2	2&3
20	38	137	KM3	2&3
20	75	160	KM2	2&3
22	38	137	KM3	2&3

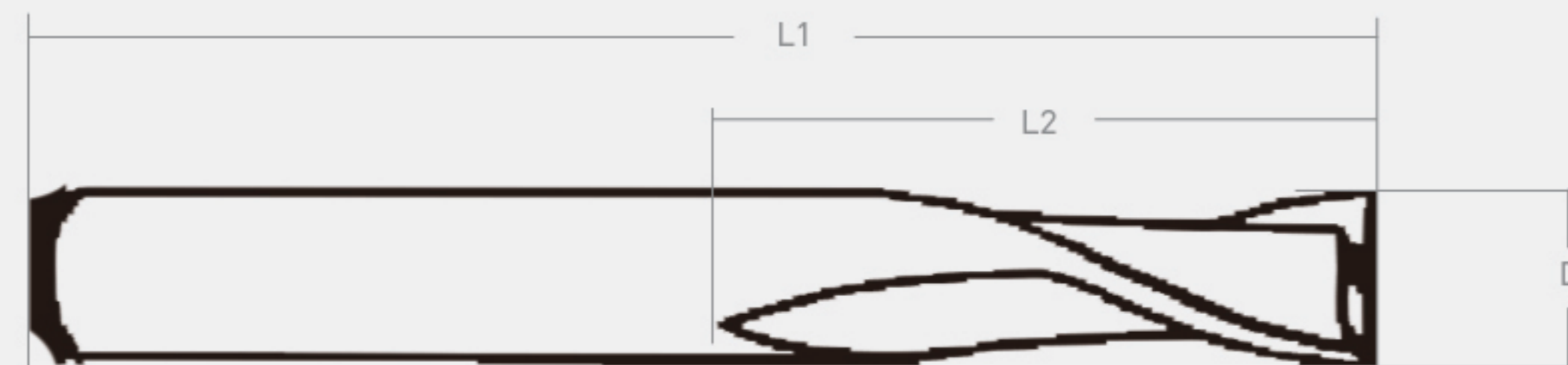
D	d	l	L	Z
22	75	177	KM3	2&3
24	45	144	KM3	2&3
25	45	144	KM3	2&3
25	90	193	KM3	2&3
30	50	175	KM4	2&3
30	90	232	KM4	2&3
32	53	178	KM4	2&3
32	106	231	KM4	2&3
36	53	178	KM4	2&3
36	106	231	KM4	2&3
40	63	188	KM4	2&3
45	63	188	KM4	2&3
45	125	250	KM4	2&3
50	75	200	KM4	2&3
50	150	278	KM4	2&3

DIN standard

ASME/ANSI standard

AMERICAN STANDARD 2-EDGE END MILLING CUTTER

American Standard 2-edge end milling cutter



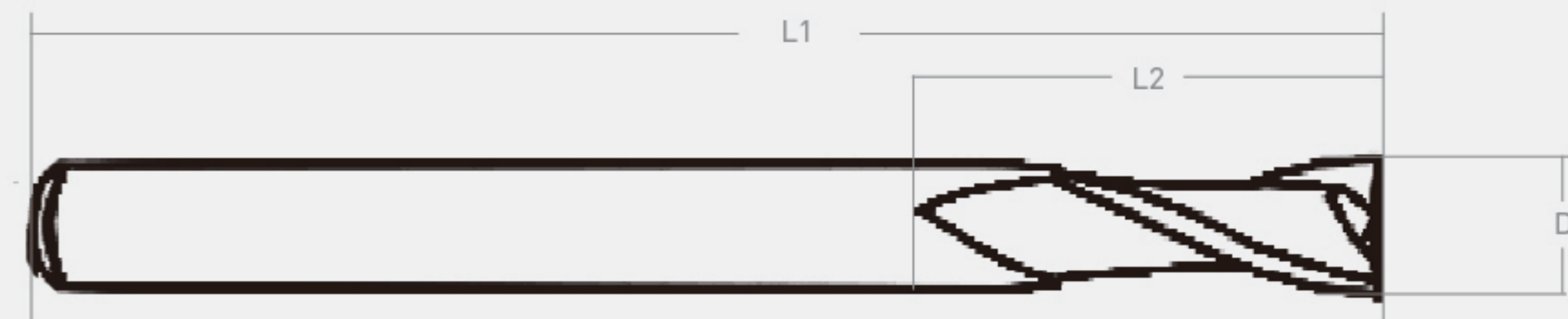
Aluminum straight shank milling cutter

D	d	l	L	Z
1/8"	1/4"	5/16"	2-1/4"	2
5/32"	1/4"	3/8"	2-1/4"	2
3/16"	1/4"	1/2"	2-1/4"	2
1/4"	1/4"	1/2"	2-1/4"	2
1/8"	3/8"	3/8"	2-5/16"	2
5/32"	3/8"	7/16"	2-5/16"	2
3/16"	3/8"	7/16"	2-5/16"	2
7/32"	3/8"	1/2"	2-5/16"	2
1/4"	3/8"	1/2"	2-5/16"	2
9/32"	3/8"	9/16"	2-5/16"	2
5/16"	5/16"	9/16"	2-5/16"	2
5/16"	3/8"	9/16"	2-5/16"	2
11/32"	3/8"	9/16"	2-5/16"	2
3/8"	3/8"	9/16"	2-5/16"	2
13/32"	3/8"	13/16"	2-1/2"	2
7/16"	3/8"	13/16"	2-1/2"	2
15/32"	3/8"	13/16"	2-1/2"	2
1/2"	3/8"	13/16"	2-1/2"	2
1/2"	1/2"	1"	3"	2

D	d	l	L	Z
9/16"	1/2"	1-1/8"	3-1/8"	2
5/8"	1/2"	1-1/8"	3-1/8"	2
5/8"	5/8"	1-5/16"	3-7/16"	2
11/16"	5/8"	1-5/16"	3-7/16"	2
3/4"	1/2"	1-5/16"	3-5/16"	2
3/4"	5/8"	1-5/16"	3-7/16"	2
3/4"	3/4"	1-5/16"	3-9/16"	2
7/8"	5/8"	1-1/2"	3-5/8"	2
7/8"	3/4"	1-1/2"	3-3/4"	2
7/8"	7/8"	1-1/2"	3-3/4"	2
1"	3/4"	1-1/2"	3-3/4"	2
1"	1"	1-5/8"	4-1/8"	2
1-1/4"	3/4"	1-5/8"	3-7/8"	2
1-1/4"	1"	1-5/8"	4-1/8"	2
1-3/8"	3/4"	1-5/8"	3-7/8"	2
1-3/8"	1"	1-5/8"	4-1/8"	2
1-1/2"	3/4"	1-5/8"	3-7/8"	2
1-1/2"	1"	1-5/8"	4-1/8"	2

MILLING CUTTER

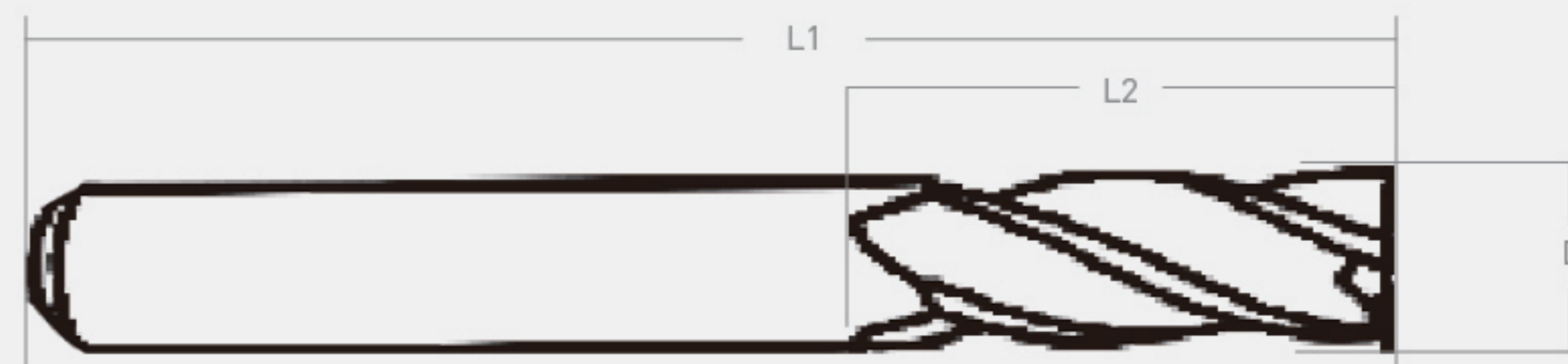
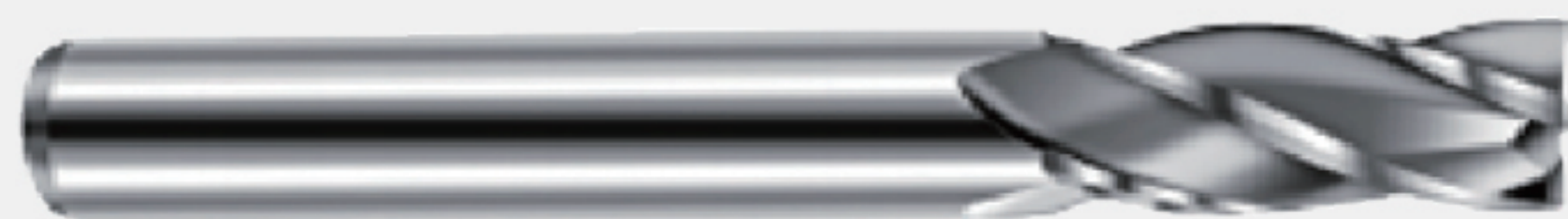
American Standard 2-edge extended end mill



Aluminum straight shank milling cutter

D	d	l	L	Z	D	d	l	L	Z
3/16"	3/8"	3/4"	2-5/8"	2	7/8"	7/8"	2-1/2"	4-3/4"	2
7/32"	3/8"	1-1/4"	3-1/8"	2	7/8"	7/8"	3-1/2"	5-3/4"	2
1/4"	3/8"	1"	3-1/16"	2	1"	1"	2"	4-1/2"	2
1/4"	3/8"	1-1/4"	3-1/8"	2	1"	1"	2-1/2"	5"	2
9/32"	3/8"	1-3/8"	3-1/8"	2	1"	1"	3"	2-5/1/2"	2
5/16"	3/8"	1-1/2"	3-1/4"	2	1"	1"	4"	6-1/2"	2
3/8"	3/8"	1"	2-3/4"	2	1-1/8"	1"	2-1/4"	4-3/4"	2
3/8"	3/8"	1-1/2"	3-1/4"	2	1-1/8"	1"	3"	2-5/1/2"	2
7/16"	1/2"	1-3/4"	3-3/4"	2	1-1/4"	1"	2-1/4"	2-4/3/4"	2
1/2"	1/2"	1-1/2"	3-1/4"	2	1-1/4"	1-1/4"	2-1/4"	5-1/2"	2
1/2"	1/2"	2"	4"	2	1-1/4"	1-1/4"	3"	2-5/1/2"	2
5/8"	5/8"	2"	4-1/8"	2	1-1/4"	1-1/4"	4-3/4"	2-7/1/4"	2
5/8"	5/8"	2-1/2"	4-5/8"	2	1-3/8"	1"	2-1/4"	4-3/4"	2
5/8"	5/8"	3"	5-1/8"	2	1-3/8"	1"	3"	5-1/2"	2
3/4"	3/4"	2-1/4"	4-1/2"	2	1-1/2"	1-1/4"	2-1/4"	4-3/4"	2
3/4"	3/4"	2-1/2"	4-3/4"	2	1-1/2"	1-1/4"	3"	5-1/2"	2
3/4"	3/4"	3"	5-1/4"	2	1-1/2"	1-1/4"	4"	6-1/2"	2
3/4"	3/4"	3-1/2"	5-3/4"	2	1-1/2"	1-1/4"	6"	8-1/2"	2

American Standard 4-edge end milling cutter

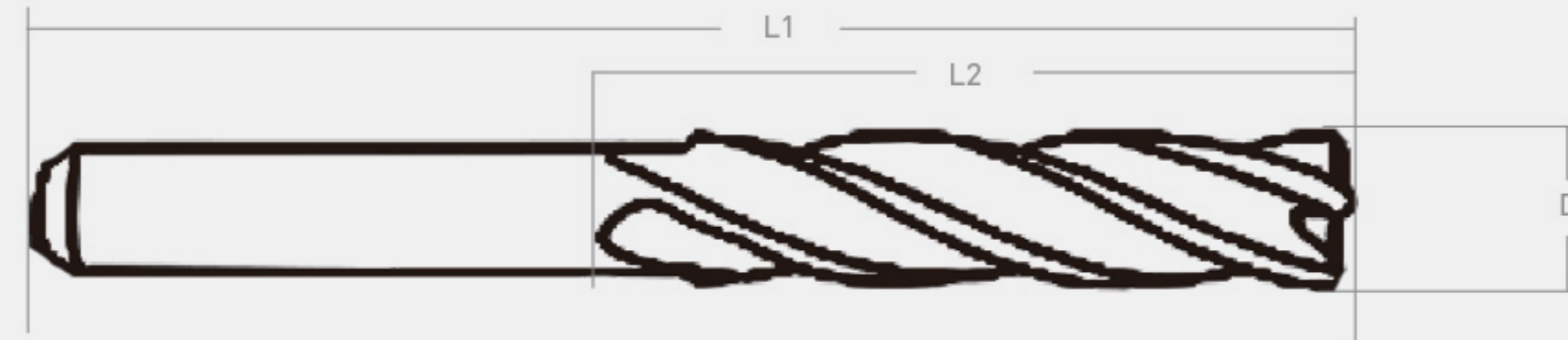


American Standard 4-edge end milling cutter

D	d	l	L	Z	D	d	l	L	Z
1/8"	1/4"	5/16"	2-1/4"	3&4	3/4"	1/2"	1-5/8"	3-5/8"	3&4
5/32"	1/4"	3/8"	2-1/4"	3&4	3/4"	5/8"	1-5/8"	3-3/4"	3&4
3/16"	1/4"	1/2"	2-1/4"	3&4	3/4"	3/4"	1-5/8"	3-7/8"	3&4
1/4"	1/4"	1/2"	2-1/4"	3&4	7/8"	5/8"	1-7/8"	4-1/8"	3&6
1/8"	3/8"	3/8"	2-5/16"	3&4	7/8"	3/4"	1-7/8"	4-1/8"	3&6
5/32"	3/8"	7/16"	2-3/8"	3&4	7/8"	7/8"	1-7/8"	4-1/8"	3&6
3/16"	3/8"	1/2"	2-3/8"	3&4	1"	5/8"	1-5/8"	3-3/4"	3&6
7/32"	3/8"	9/16"	2-7/16"	3&4	1"	3/4"	1-7/8"	4-1/8"	3&6
1/4"	3/8"	5/8"	2-7/16"	3&4	1"	7/8"	1-7/8"	4-1/8"	3&6
9/32"	3/8"	11/16"	2-1/2"	3&4	1"	1"	2"	4-1/2"	3&6
5/16"	5/16"	3/4"	2-1/2"	3&4	1-1/4"	3/4"	2"	4-1/2"	3&6
5/16"	3/8"	3/4"	2-1/2"	3&4	1-1/4"	1"	2"	4-1/2"	3&6
11/32"	3/8"	3/4"	2-1/2"	3&4	1-1/4"	1-1/4"	2"	4-1/2"	3&6
3/8"	3/8"	3/4"	2-1/2"	3&4	1-3/8"	3/4"	2"	4-1/2"	3&6
7/16"	3/8"	1"	2-11/16"	3&4	1-3/8"	1"	2"	4-1/2"	3&6
1/2"	3/8"	1"	2-11/16"	3&4	1-1/2"	3/4"	2"	4-1/2"	3&6
1/2"	1/2"	1-1/4"	3/1-4"	3&4	1-1/2"	1"	2"	4-1/2"	3&6
9/16"	1/2"	1-1/4"	3-3/8"	3&4	1-5/8"	3/4"	2"	4-1/2"	3&6
5/8"	1/2"	1-3/8"	3-3/8"	3&4	1-5/8"	1-1/4"	2"	4-1/2"	3&6
5/8"	5/8"	1-5/8"	3-3/4"	3&4	1-3/4"	1-1/4"	2"	4-1/2"	3&6
11/16"	1/2"	1-3/8"	3-3/8"	3&4	2"	1-1/4"	2"	4-1/2"	3&6
11/16"	5/8"	1-5/8"	3-3/4"	3&4					

MILLING CUTTER

American standard 4-blade extended, extra long end milling cutter



D	d	l	L	Z	D	d	l	L	Z
1/4"	1/8"	7/16"	2-3/8"	3&4	8/5"	5/8"	2-1/2"	4-5/8"	3&4
1/4"	5/32"	3/4"	2-1/2"	3&4	1/2"	3/4"	3"	5-1/4"	3&4
1/4"	3/16"	7/8"	2-11/16"	3&4	5/8"	3/4"	3"	5-1/4"	3&4
1/4"	1/4"	7/8"	2-11/16"	3&4	3/4"	3/4"	3"	5-1/4"	3&4
3/8"	1/8"	7/16"	2-1/2"	3&4	3/4"	7/8"	3-1/2"	5-3/4"	3&6
3/8"	5/32"	9/16"	2-11/16"	3&4	7/8"	7/8"	3-1/2"	5-3/4"	3&6
3/8"	3/16"	3/4"	2-11/16"	3&4	7/8"	7/8"	4"	6-1/2"	3&6
3/8"	1/4"	1-1/4"	3"	3&4	3/4"	1"	4"	6-1/2"	3&6
5/16"	5/16"	1-3/8"	3-1/16"	3&4	1"	1"	4"	6-1/2"	3&6
3/8"	5/16"	1-5/8"	3-1/8"	3&4	1"	1-1/4"	4"	6-1/2"	3&6
3/8"	3/8"	1-1/2"	3-1/4"	3&4	1"	1-3/8"	4"	6-1/2"	3&6
3/8"	3/8"	1-3/4"	3-3/8"	3&4	1"	1-1/2"	4"	6-1/2"	3&6
1/2"	7/16"	1-3/4"	3-3/4"	3&4	1-1/4"	1-5/8"	4"	6-1/2"	3&6
1/2"	1/2"	2"	4"	3&4	1-1/4"	1-3/4"	4"	6-1/2"	3&6
1/2"	9/16"	2"	4"	3&4	1-1/4"	2"	4"	6-1/2"	3&6
1/2"	5/8"	2-1/2"	4-5/8"	3&4					

American standard 4-blade extra long end milling cutter

1/4"	3/8"	1-3/4"	3-9/16"	3&4
5/16"	3/8"	2"	3-3/4"	3&4
3/8"	3/8"	2-1/2"	4-1/4"	3&4
1/2"	1/2"	3"	5"	3&4
5/8"	5/8"	4"	6-1/8"	3&4
3/4"	3/4"	4"	6-1/4"	3&4
7/8"	3/4"	5"	7-1/4"	3&6

American standard 4-blade extra long end milling cutter

1"	1"	6"	8-1/2"	3&6
1-1/4"	1-1/4"	6"	8-1/2"	3&6
1-1/2"	1-1/4"	6"	8-1/2"	3&6
1-1/2"	1-1/4"	8"	10-1/2"	3&6
2"	1-1/4"	6"	8-1/2"	3&6
2"	1-1/4"	8"	10-1/2"	3&6
2"	1-1/4"	8"	10-1/2"	3&6

AMERICAN STANDARD WAVE EDGE END MILL

American standard wave edge end mill



D	d	l	L	Z
1/4"	1/4"	1/2"	2-1/4"	3&4
1/4"	3/8"	5/8"	2-7/16"	3&4
5/16"	5/16"	3/4"	2-1/2"	3&4
5/16"	3/8"	3/4"	2-1/2"	3&4
3/8"	3/8"	3/4"	2-1/2"	3&4
7/16"	3/8"	1"	2-11/16"	3&4
1/2"	1/2"	1-1/4"	3-1/4"	3&4
9/16"	1/2"	1-1/4"	3-3/8"	3&4
5/8"	5/8"	1-5/8"	3-3/4"	3&4
11/16"	5/8"	1-5/8"	3-3/4"	3&4

D	d	l	L	Z
3/4"	3/4"	1-5/8"	3-7/8"	3&4
7/8"	3/4"	1-7/8"	4-1/8"	3&6
1"	1"	2"	4-1/2"	3&6
1-1/4"	1-1/4"	2"	4-1/2"	3&6
1-3/8"	1"	2"	4-1/2"	3&6
1-1/2"	1"	2"	4-1/2"	3&6
1-5/8"	1-1/4"	2"	4-1/2"	3&6
1-3/4"	1-1/4"	2"	4-1/2"	3&6
2"	1-1/4"	2"	4-1/2"	3&6

American standard wave edge extend end mill

1/4"	3/8"	1-1/4"	3"	3&4
5/16"	3/8"	1-5/8"	3-1/8"	3&4
3/8"	3/8"	1-1/2"	3-1/4"	3&4
7/16"	1/2"	1-3/4"	3-3/4"	3&4
1/2"	1/2"	2"	4"	3&4
9/16"	1/2"	2"	4"	3&4
5/8"	8/5"	2-1/2"	4-5/8"	3&4
3/4"	3/4"	3"	5-1/4"	3&4
5/8"	5/8"	1-5/8"	3-3/4"	3&4
11/16"	5/8"	1-5/8"	3-3/4"	3&4

American standard wave edge extend end mill

7/8"	3/4"	3-1/2"	5-3/4"	3&6
1"	1"	4"	6-1/2"	3&6
1-1/4"	1"	4"	6-1/2"	3&6
1-3/8"	1"	4"	6-1/2"	3&6
1-1/2"	1"	4"	6-1/2"	3&6
1-5/8"	1-1/4"	4"	6-1/2"	3&6
1-3/4"	1-1/4"	4"	6-1/2"	3&6
2"	1-1/4"	4"	6-1/2"	3&6
5/8"	5/8"	1-5/8"	3-3/4"	3&4
11/16"	5/8"	1-5/8"	3-3/4"	3&4

American standard wave edge extra long end mill

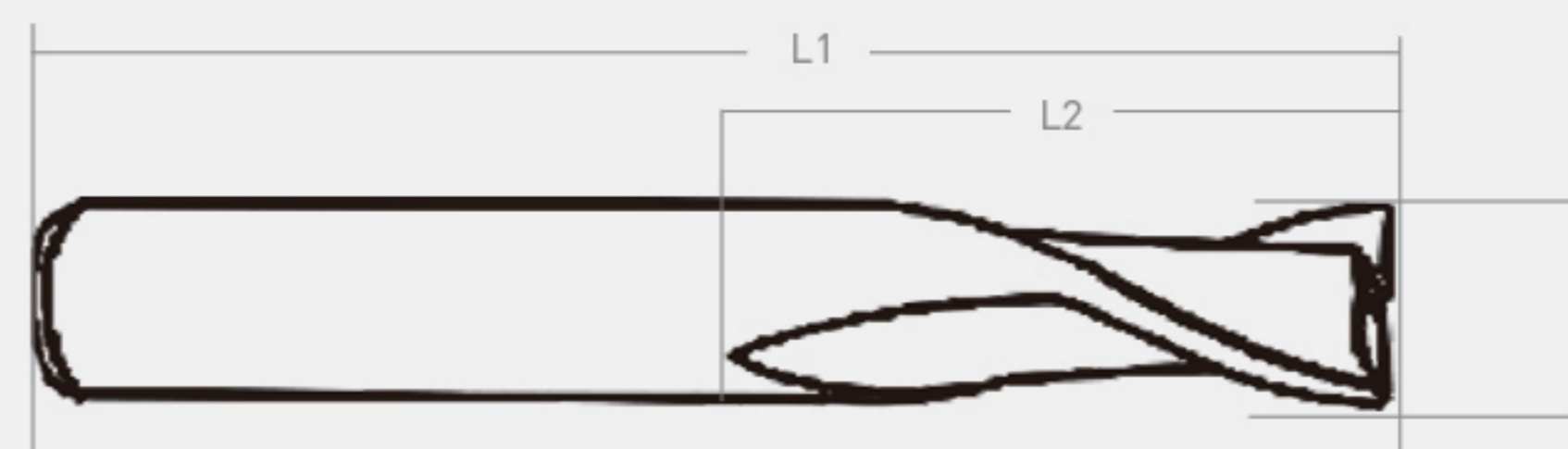
1/4"	3/8"	1-3/4"	3-9/16"	3&4
5/16"	3/8"	2"	3-3/4"	3&4
3/8"	3/8"	2-1/2"	4-1/4"	3&4
1/2"	1/2"	3"	5"	3&4
5/8"	5/8"	4"	6-1/8"	3&4
3/4"	3/4"	4"	6-1/4"	3&4
7/8"	3/4"	5"	7-1/4"	3&6

American standard wave edge extra long end mill

1"	1"	6"	8-1/2"	3&6
1-1/4"	1-1/4"	6"	8-1/2"	3&6
1-1/2"	1-1/4"	6"	8-1/2"	3&6
1-1/2"	1-1/4"	8"	10-1/2"	3&6
2"	1-1/4"	6"	8-1/2"	3&6
2"	1-1/4"	8"	10-1/2"	3&6

BS122 TWO FLUTS DTANDARD LENGTH

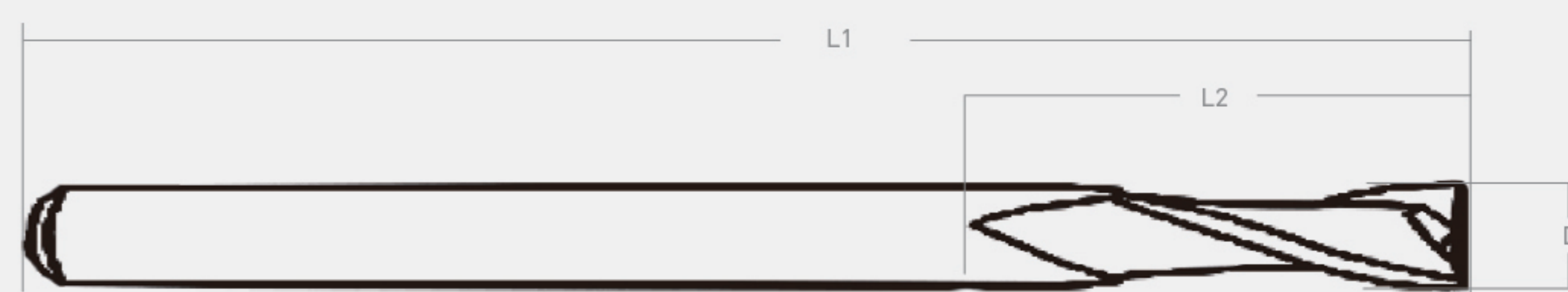
BS122 TWO FLUTE Standard Length



D	d	l	L	Z
1.0	6.0	2.5	48.5	2
1.5	6.0	2.5	48.5	2
2.0	6.0	3.0	49.0	2
2.5	6.0	4.5	51.0	2
3.0	6.0	7.0	51.0	2
4.0	6.0	9.5	52.5	2
5.0	6.0	9.5	52.5	2
6.0	6.0	11.0	56.5	2
7.0	10.0	11.0	58.5	2
8.0	10.0	12.5	59.5	2
9.0	10.0	14.5	60.5	2
10.0	10.0	14.5	60.5	2
11.0	12.0	17.5	65.0	2
12.0	12.0	19.0	66.5	2
13.0	12.0	19.0	66.5	2
14.0	12.0	22.0	68.5	2
15.0	12.0	22.0	72.0	2
16.0	16.0	22.0	72.0	2

D	d	l	L	Z
17.0	16.0	24.0	74.0	2
18.0	16.0	24.0	74.0	2
19.0	16.0	25.5	77.0	2
20.0	20.0	25.5	77.0	2
21.0	20.0	25.5	98.5	2
22.0	20.0	25.5	98.5	2
23.0	20.0	25.5	98.5	2
24.0	25.0	27.0	95.0	2
25.0	25.0	27.0	95.0	2
26.0	25.0	27.0	95.0	2
27.0	25.0	27.0	95.0	2
28.0	25.0	30.0	98.5	2
29.0	25.0	30.0	98.5	2
30.0	25.0	30.0	98.5	2
32.0	25.0	38.0	101.5	2
36.0	25.0	38.0	101.5	2
40.0	40.0	46.0	111.0	2

BS122 TWO Flute Long Length

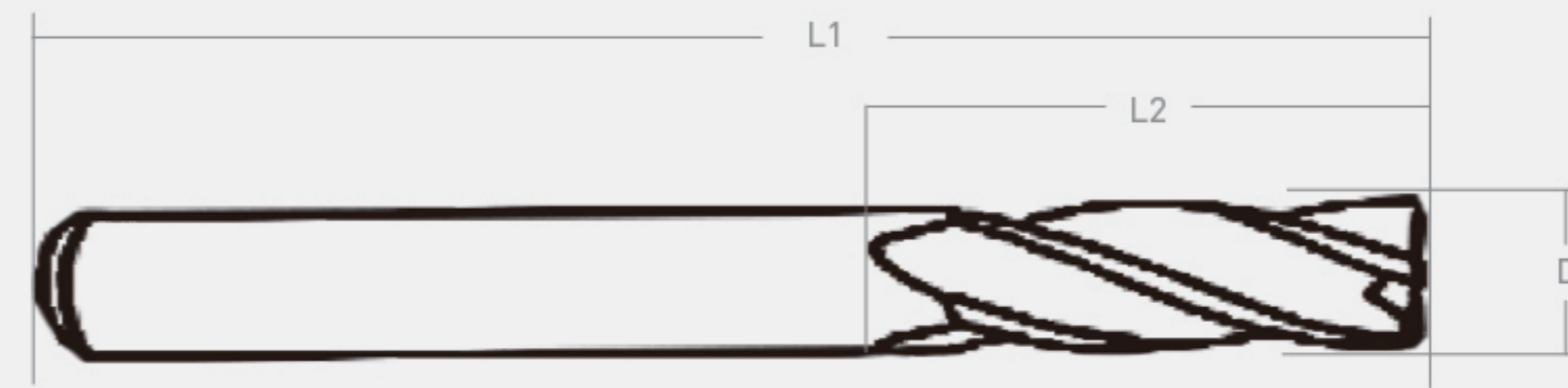


D	d	l	L	Z
1.0	6.0	3.0	50.0	2
2.0	6.0	4.0	51.0	2
3.0	6.0	11.0	60.5	2
4.0	6.0	12.5	66.5	2
5.0	6.0	12.5	70.0	2
6.0	6.0	16.0	76.0	2
7.0	10.0	16.0	76.0	2
8.0	10.0	19.0	79.5	2
9.0	10.0	22.0	82.5	2
10.0	10.0	22.0	82.5	2
11.0	12.0	22.0	89.0	2
12.0	12.0	25.5	95.0	2
13.0	12.0	25.5	95.0	2
14.0	12.0	28.5	101.5	2

D	d	l	L	Z
15.0	12.0	31.5	108.0	2
16.0	16.0	31.5	108.0	2
17.0	16.0	35.0	114.5	2
18.0	16.0	35.0	114.5	2
19.0	16.0	38.0	120.5	2
20.0	20.0	38.0	120.5	2
22.0	20.0	41.5	140.0	2
24.0	25.0	44.5	159.0	2
25.0	25.0	44.5	159.0	2
28.0	25.0	44.5	159.0	2
30.0	25.0	51.0	159.0	2
32.0	25.0	51.0	159.0	2
36.0	25.0	54.0	159.0	2
40.0	40.0	57.0	159.0	2

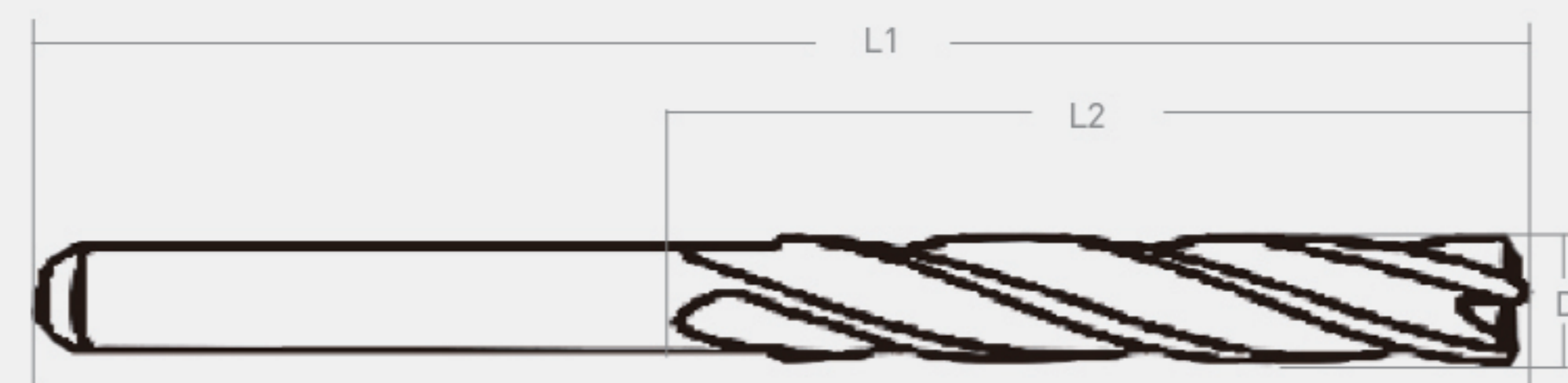
BS122 THREE/FOUR FLUTES STANDARD LENGTH

BS122 Three/Four Flute Standard Length



D	d	l	L	Z	D	d	l	L	Z
1.0	6.0	5.0	50.0	3&4	11.0	12.0	19.0	66.5	3&4
1.5	6.0	6.5	51.0	3&4	12.0	12.0	24.0	70.0	3&4
2.0	6.0	6.5	51.0	3&4	13.0	12.0	24.0	70.0	3&4
2.5	6.0	6.5	51.0	3&4	14.0	12.0	24.0	70.0	3&4
3.0	6.0	9.5	54.0	3&4	15.0	12.0	26.5	77.0	3&4
3.5	6.0	12.5	57.0	3&4	16.0	16.0	26.5	77.0	3&4
4.0	6.0	12.5	57.0	3&4	17.0	16.0	35.0	80.0	3&4
4.5	6.0	12.5	57.0	3&4	18.0	16.0	35.0	80.0	3&4
5.0	6.0	16.0	60.5	3&4	19.0	16.0	38.0	83.5	3&4
5.5	6.0	16.0	60.5	3&4	20.0	16.0	38.0	83.5	3&4
6.0	6.0	16.0	60.5	3&4	21.0	25.0	41.5	98.5	3&4
6.5	10.0	16.0	60.5	3&4	22.0	25.0	41.5	98.5	3&4
7.0	10.0	16.0	60.5	3&4	24.0	25.0	43.0	101.5	3&4
7.5	10.0	18.0	63.5	3&4	25.0	25.0	43.0	101.5	3&4
8.0	10.0	18.0	63.5	3&4	28.0	25.0	46.0	104.5	3&4
8.5	10.0	21.0	66.5	3&4	30.0	25.0	46.0	104.5	3&4
9.0	10.0	21.0	66.5	3&4	32.0	32.0	49.0	108	3&4
9.5	10.0	21.0	66.5	3&4	36.0	32.0	52.5	111	3&4
10.0	10.0	21.0	66.5	3&4	40.0	40.0	58.5	117.5	3&4

BS122 Three/Four Flute Long Length



D	d	l	L	Z	D	d	l	L	Z
2.0	6.0	16.0	60.5	3&4	16.0	16.0	58.5	108.5	3&4
3.0	6.0	19.0	63.5	3&4	17.0	16.0	67.0	115.0	3&4
4.0	6.0	25.5	70.0	3&4	18.0	16.0	70.0	115.0	3&4
5.0	6.0	31.5	76.0	3&4	19.0	16.0	76.0	121.5	3&4
6.0	6.0	31.5	76.0	3&4	20.0	16.0	76.0	121.5	3&4
7.0	10.0	34.0	79.5	3&4	22.0	25.0	85.5	143.0	3&4
8.0	10.0	34.0	79.5	3&4	24.0	25.0	92.0	149.0	3&4
9.0	10.0	37.0	82.5	3&4	25.0	25.0	100.0	157.0	3&4
10.0	10.0	37.0	82.5	3&4	28.0	25.0	100.0	157.0	3&4
11.0	12.0	41.5	89.0	3&4	30.0	25.0	100.0	157.0	3&4
12.0	12.0	49.5	95.0	3&4	32.0	25.0	100.0	159.0	3&4
13.0	12.0	50.0	9.0	3&4	36.0	25.0	100.0	159.0	3&4
14.0	12.0	57.0	101.5	3&4	40.0	25.0	100.0	159.0	3&4
15.0	12.0	58.5	108.5	3&4					