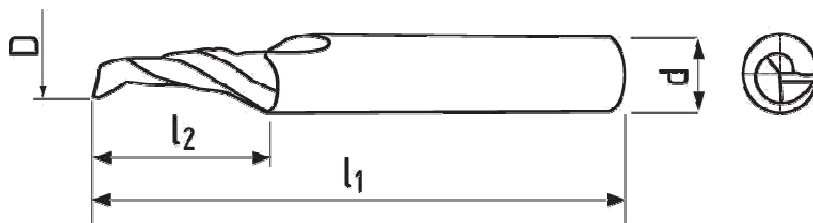


HSS END MILLS FOR ALU. - 1F

HSS & HSSCo

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type W
- ☆ Right Hand
- ☆ Surface: Bright



END MILLS

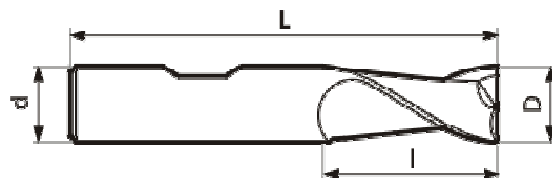
Standard Length

Order No.	FLUTE					Ø d1	d2	l2	l1
1014001000	1					3	8	12	60
1014001000	1					4	8	12	60
1014001000	1					5	8	12	60
1014001000	1					6	8	14	60
1014001000	1					7	8	14	60
1014001000	1					8	8	14	80
1014001000	1					9	8	14	80
1014001000	1					10	10	14	80
1014001000	1					12	10	14	80

Long Length

Order No.	FLUTE					Ø d1	d2	l2	l1
1014001000-L	1					4	8	20	120
1014001000-L	1					5	8	20	100
1014001000-L	1					6	8	30	100
1014001000-L	1					8	8	25	120
1014001000-L	1					10	10	22	100

- ☆ *Mostly commonly used End Mills*
- ☆ *Flute Types: Type N*
- ☆ *Right Hand*
- ☆ *Surface: Bright / TiN / TiAlN*



END MILLS

Standard Length

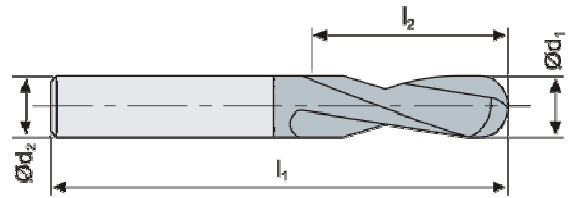
[illegible]

Long Length

[illegible]

HSS BALL NOSE END MILLS - 2F

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type N
- ☆ Right Hand
- ☆ Surface: Bright / TiN / TiAlN



END MILLS

Standard Length

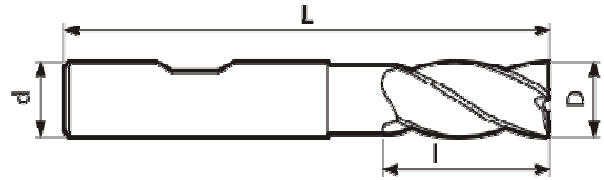
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
327001000-B	1	6	3	47	327010000-B	10	10	13	63
327001500-B	1.5	6	3	47	327012000-B	12	12	16	73
327002000-B	2	6	4	48	327014000-B	14	12	16	73
327003000-B	3	6	5	49	327016000-B	16	16	19	79
327004000-B	4	6	7	51	327018000-B	18	16	19	79
327005000-B	5	6	8	52	327020000-B	20	20	22	88
327006000-B	6	6	8	52	327022000-B	22	20	22	88
327007000-B	7	10	10	60	327024000-B	24	25	26	102
327008000-B	8	10	11	61	327025000-B	25	25	26	102
327009000-B	9	10	11	61					

Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
327002000-BL	2	6	7	54	327012000-BL	12	12	26	110
327003000-BL	3	6	8	56	327014000-BL	14	12	26	110
327004000-BL	4	6	11	63	327016000-BL	16	16	32	123
327005000-BL	5	6	13	68	327018000-BL	18	16	32	123
327006000-BL	6	6	13	68	327020000-BL	20	20	38	141
327007000-BL	7	10	16	80	327022000-BL	22	20	38	141
327008000-BL	8	10	19	88	327025000-BL	25	25	45	166
327010000-BL	10	10	22	95					

HSS END MILLS - 4F

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type N
- ☆ Right Hand
- ☆ Surface: Bright / TiN / TiAlN



END MILLS

Standard Length

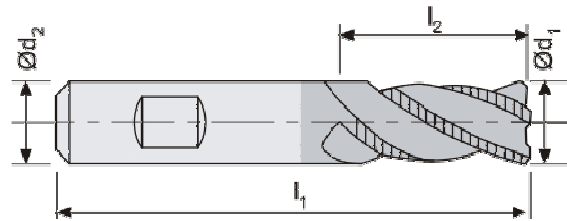
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844001500	1.5	6	7	51	844017000	17	16	32	92
844002000	2	6	7	51	844018000	18	16	32	92
844003000	3	6	8	52	844019000	19	16	32	92
844004000	4	6	11	55	844020000	20	20	38	104
844005000	5	6	13	57	844021000	21	20	38	104
844006000	6	6	13	57	844022000	22	20	38	104
844007000	7	10	16	66	844023000	23	20	38	104
844008000	8	10	19	69	844024000	24	25	45	121
844009000	9	10	19	69	844025000	25	25	45	121
844010000	10	10	22	72	844026000	26	25	45	121
844011000	11	12	22	79	844028000	28	25	45	121
844012000	12	12	26	83	844030000	30	25	45	121
844013000	13	12	26	83	844032000	32	32	53	133
844014000	14	12	26	83	844034000	34	32	53	133
844015000	15	12	26	83	844036000	36	32	53	133
844016000	16	16	32	92	844040000	40	40	63	155

Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844002000-L	2	6	10	54	844018000-L	18	16	63	123
844003000-L	3	6	12	56	844020000-L	20	20	75	141
844004000-L	4	6	19	63	844022000-L	22	20	75	141
844005000-L	5	6	24	68	844025000-L	25	25	90	166
844006000-L	6	6	24	68	844028000-L	28	25	90	166
844007000-L	7	10	30	80	844030000-L	30	25	90	166
844008000-L	8	10	38	88	844032000-L	32	32	106	186
844010000-L	10	10	45	95	844034000-L	34	32	106	186
844012000-L	12	12	53	110	844036000-L	36	32	106	186
844014000-L	14	12	53	110	844040000-L	40	40	125	217
844016000-L	16	16	63	123					

HSS ROUGHING END MILLS - 4F

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type NR / HR / NF
- ☆ Right Hand
- ☆ Surface: Bright / TiN / TiAlN



END MILLS

Standard Length

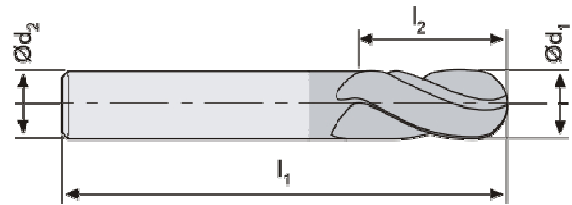
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844006000-R	6	6	13	57	844018000-R	18	16	32	92
844007000-R	7	10	16	66	844020000-R	20	20	38	104
844008000-R	8	10	19	69	844022000-R	22	20	38	104
844009000-R	9	10	19	69	844024000-R	24	25	45	121
844010000-R	10	10	22	72	844025000-R	25	25	45	121
844011000-R	11	12	22	79	844026000-R	26	25	45	121
844012000-R	12	12	26	83	844028000-R	28	25	45	121
844013000-R	13	12	26	83	844030000-R	30	25	45	121
844014000-R	14	12	26	83	844032000-R	32	32	53	133
844015000-R	15	12	26	83	844034000-R	34	32	53	133
844016000-R	16	16	32	92	844036000-R	36	32	53	133
844017000-R	17	16	32	92	844040000-R	40	40	63	155

Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844006000-RL	6	6	24	68	844022000-RL	22	20	75	141
844008000-RL	8	10	38	88	844024000-RL	24	25	90	166
844010000-RL	10	10	45	95	844025000-RL	25	25	90	166
844011000-RL	11	12	45	102	844028000-RL	28	25	90	166
844012000-RL	12	12	53	110	844030000-RL	30	25	90	166
844014000-RL	14	12	53	110	844032000-RL	32	32	106	186
844016000-RL	16	16	63	123	844034000-RL	34	32	106	186
844018000-RL	18	16	63	123	844036000-RL	36	32	106	186
844020000-RL	20	20	75	141	844040000-RL	40	40	125	217

HSS BALL NOSE END MILLS - 4F

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type N
- ☆ Right Hand
- ☆ Surface: Bright / TiN / TiAlN



END MILLS

Standard Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844001500-B	1.5	6	7	51	844010000-B	10	10	22	72
844002000-B	2	6	7	51	844012000-B	12	12	26	83
844003000-B	3	6	8	52	844014000-B	14	12	26	83
844004000-B	4	6	11	55	844016000-B	16	16	32	92
844005000-B	5	6	13	57	844018000-B	18	16	32	92
844006000-B	6	6	13	57	844020000-B	20	20	38	104
844007000-B	7	10	16	66	844022000-B	22	20	38	104
844008000-B	8	10	19	69	844024000-B	24	25	45	121
844009000-B	9	10	19	69	844025000-B	25	25	45	121

Long Length

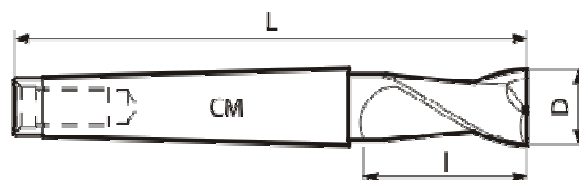
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
844002000-BL	2	6	10	54	844012000-BL	12	12	53	110
844003000-BL	3	6	12	56	844014000-BL	14	12	53	110
844004000-BL	4	6	19	63	844016000-BL	16	16	63	123
844005000-BL	5	6	24	68	844018000-BL	18	16	63	123
844006000-BL	6	6	24	68	844020000-BL	20	20	75	141
844007000-BL	7	10	30	80	844022000-BL	22	20	75	141
844008000-BL	8	10	38	88	844025000-BL	25	25	90	166
844010000-BL	10	10	45	95					

in Morse Taper Shank

☆ *Flute Types: Type N*

☆ *Right Hand*

☆ Surface: Bright / TiN / TiAlN



END MILLS

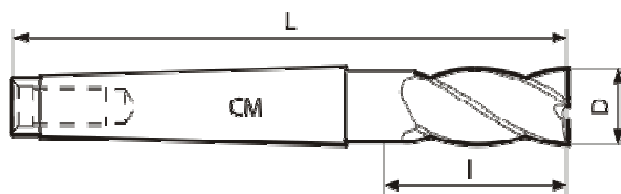
Order No. FLUTE

[illegible]

HSS END MILL - MF

in Morse Taper Shank

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type NR / HR / NF
- ☆ Right Hand
- ☆ Surface: Bright / TiN / TiAlN



END MILLS

Standard Length

Order No.	FLUTE					Ø D	I	L	MT
17026014000	3					14	26	111	2
17026016000	3					16	32	117	2
17026018000	3					18	32	117	2
17026020000	3					20	38	123	2
17026022000	3					22	38	123	2
17026024000	3					24	45	147	3
17026025000	3					25	45	147	3
17026026000	3					26	45	147	3
17026028000	3					28	45	147	3
17026030000	3					30	45	147	3
17026032000	4					32	53	155	3
17026034000	4					34	53	178	4
17026035000	4					35	53	178	4
17026036000	4					36	53	178	4
17026038000	4					38	63	188	4
17026040000	4					40	63	188	4
17026045000	4					45	63	188	4
17026050000	4					50	75	200	4

Long Length

Order No.	FLUTE					Ø D	I	L	MT
17026014000-L	3					14	53	138	2
17026016000-L	3					16	63	148	2
17026018000-L	3					18	63	148	2
17026020000-L	3					20	75	160	2
17026022000-L	3					22	75	177	3
17026025000-L	3					25	90	192	3
17026028000-L	3					28	90	192	3
17026030000-L	3					30	90	192	3
17026032000-L	4					32	106	208	3
17026036000-L	4					36	106	208	3
17026040000-L	4					40	125	250	4
17026045000-L	4					45	125	250	4
17026050000-L	4					50	150	275	4