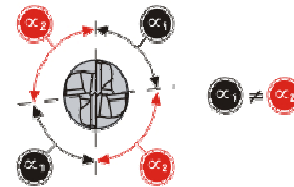
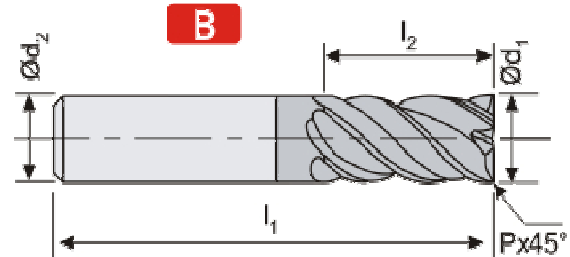
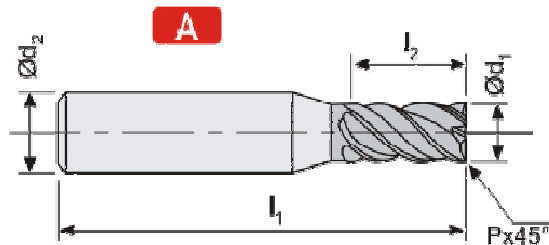


VARIHELIX END MILLS - 4F

- ☆ *HPC End Mills*
- ☆ *Flute Types: Type N*
- ☆ *Right Hand*
- ☆ *Surface: TiAlN / AlTiN*



HPC END MILLS



Standard Length - 35°/38° Helix

[illegible]

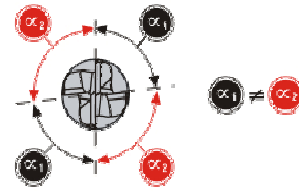
Long Length - 35°/38° Helix

[illegible]

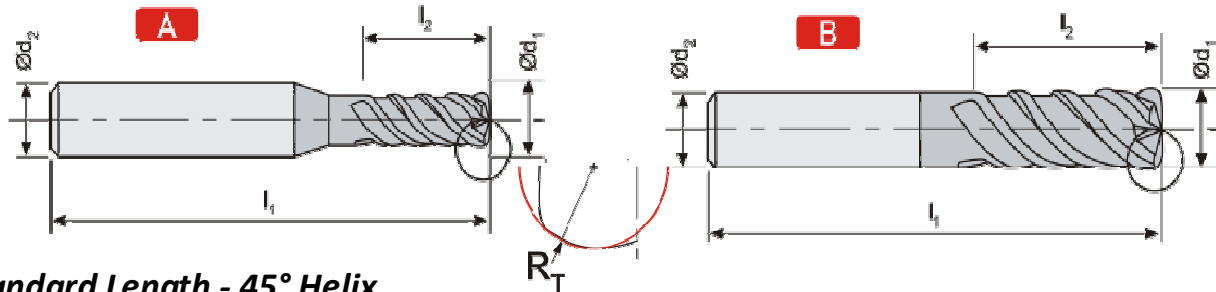
HIGH EFFICIENCY END MILLS WITH VARIABLE PITCH AND U FLUTE - 4F

with corner radius

- ☆ HPC End Mills
- ☆ Flute Types: Type N
- ☆ Right Hand
- ☆ Surface: TiAlN / AlTiN



HPC END MILLS

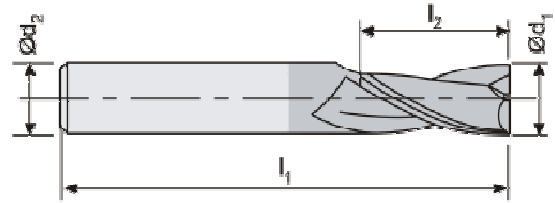


Standard Length - 45° Helix

Order No.	Flute No.				Ø d1	d2	l2	l1	R
SBRLM030030-R0.5	4				3	3	8	60	0.5
SBRLM040040-R0.5	4				4	4	10	60	0.5
SBRLM060060-R0.5	4				6	6	15	60	0.5
SBRLM060060-R0.5	4				6	6	18	75	0.5
SBRLM060060-R0.5	4				6	6	24	100	0.5
SBRLM080080-R0.5	4				8	8	24	75	0.5
SBRLM080080-R0.5	4				8	8	32	100	0.5
SBRLM100010-R0.5	4				10	10	25	75	0.5
SBRLM100010-R0.5	4				10	10	35	100	0.5
SBRLM140014-R0.5	4				14	14	45	100	0.5
SBRLM160016-R0.5	4				16	16	45	100	0.5
SBRLM030030-R1.0	4				3	3	8	60	1
SBRLM040040-R1.0	4				4	4	10	60	1
SBRLM050050-R1.0	4				5	5	15	60	1
SBRLM060060-R1.0	4				6	6	18	60	1
SBRLM060060-R1.0	4				6	6	24	75	1
SBRLM060060-R1.0	4				6	6	24	100	1
SBRLM080080-R1.0	4				8	8	32	75	1
SBRLM080080-R1.0	4				8	8	32	100	1
SBRLM100010-R1.0	4				10	10	30	75	1
SBRLM100010-R1.0	4				10	10	40	100	1
SBRLM120012-R1.0	4				12	12	35	75	1
SBRLM120012-R1.0	4				12	12	45	100	1
SBRLM140014-R1.0	4				14	14	45	100	1
SBRLM160016-R1.0	4				16	16	45	100	1
SBRLM050050-R1.5	4				5	5	15	60	1.5
SBRLM060060-R1.5	4				6	6	18	75	1.5
SBRLM080080-R1.5	4				8	8	24	75	1.5
SBRLM100010-R1.5	4				10	10	30	75	1.5
SBRLM100010-R1.5	4				10	10	40	100	1.5
SBRLM120012-R1.5	4				12	12	45	100	1.5
SBRLM140014-R1.5	4				14	14	45	100	1.5
SBRLM160016-R1.5	4				16	16	45	100	1.5

CARBIDE END MILLS - 2F

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



END MILLS

Stub Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652701000-S	1	3	3	38	652706000-S	6	6	10	54
652701500-S	1.5	3	3	38	652708000-S	8	8	12	58
652702000-S	2	3	3	38	652710000-S	10	10	14	66
652702500-S	2.5	3	3	38	652712000-S	12	12	16	73
652703000-S	3	3	4	38	652714000-S	14	14	18	75
652704000-S	4	4	6	50	652716000-S	16	16	22	82
652704500-S	4.5	5	6	50	652718000-S	18	18	24	84
652705000-S	5	5	8	50	652720000-S	20	20	26	92

Standard Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652701000	1	3	3	38	652708000	8	8	19	63
652701500	1.5	3	5	38	652709000	9	10	16	72
652702000	2	3	6	38	652710000	10	10	22	72
652702500	2.5	3	7	38	652712000	12	12	26	83
652703000	3	3	7	38	652714000	14	14	26	83
652704000	4	4	10	50	652716000	16	16	32	92
652705000	5	5	11	50	652718000	18	18	32	92
652706000	6	6	13	57	652720000	20	20	38	104
652707000	7	8	16	63	652725000	25	25	38	104

Long Length

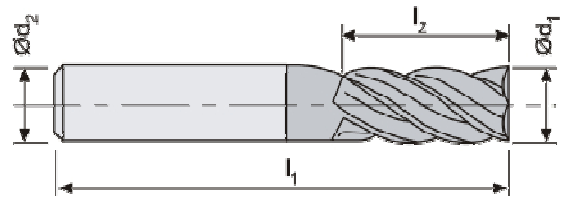
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652703000-L	3	3	15	57	652710000-L	10	10	35	90
652703500-L	3.5	4	19	57	652712000-L	12	12	45	100
652704000-L	4	4	19	57	652714000-L	14	14	45	100
652704500-L	4.5	5	25	63	652716000-L	16	16	50	100
652705000-L	5	5	25	63	652718000-L	18	18	50	100
652706000-L	6	6	25	75	652720000-L	20	20	60	120
652708000-L	8	8	30	75	652725000-L	25	25	60	120

Extra Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652703000-XL	3	3	20	75	652712000-XL	12	12	65	150
652704000-XL	4	4	25	75	652714000-XL	14	14	65	150
652705000-XL	5	5	30	75	652716000-XL	16	16	75	150
652706000-XL	6	6	35	100	652718000-XL	18	18	75	150
652708000-XL	8	8	45	100	652720000-XL	20	20	75	150
652710000-XL	10	10	45	100	652725000-XL	25	25	75	150

CARBIDE END MILLS - 4F

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



END MILLS

Stub Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652701000-S-4	1	3	3	38	652706000-S-4	6	6	10	54
652701500-S-4	1.5	3	3	38	652708000-S-4	8	8	12	58
652702000-S-4	2	3	3	38	652710000-S-4	10	10	14	66
652702500-S-4	2.5	3	3	38	652712000-S-4	12	12	16	73
652703000-S-4	3	3	4	38	652714000-S-4	14	14	18	75
652704000-S-4	4	4	6	50	652716000-S-4	16	16	22	82
652704500-S-4	4.5	5	6	50	652718000-S-4	18	18	24	84
652705000-S-4	5	5	8	50	652720000-S-4	20	20	26	92

Standard Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652701000-4	1	3	3	38	652708000-4	8	8	19	63
652701500-4	1.5	3	5	38	652709000-4	9	10	16	72
652702000-4	2	3	6	38	652710000-4	10	10	22	72
652702500-4	2.5	3	7	38	652712000-4	12	12	26	83
652703000-4	3	3	7	38	652714000-4	14	14	26	83
652704000-4	4	4	10	50	652716000-4	16	16	32	92
652705000-4	5	5	11	50	652718000-4	18	18	32	92
652706000-4	6	6	13	57	652720000-4	20	20	38	104
652707000-4	7	8	16	63	652725000-4	25	25	38	104

Long Length

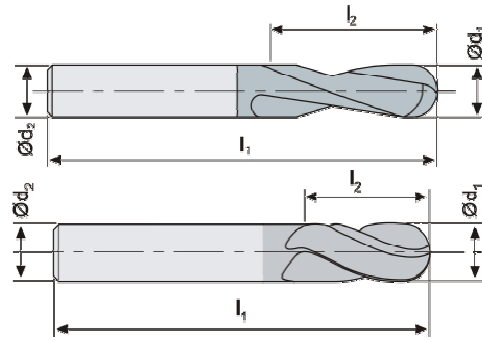
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652703000-L-4	3	3	15	57	652710000-L-4	10	10	35	90
652703500-L-4	3.5	4	19	57	652712000-L-4	12	12	45	100
652704000-L-4	4	4	19	57	652714000-L-4	14	14	45	100
652704500-L-4	4.5	5	25	63	652716000-L-4	16	16	50	100
652705000-L-4	5	5	25	63	652718000-L-4	18	18	50	100
652706000-L-4	6	6	25	75	652720000-L-4	20	20	60	120
652708000-L-4	8	8	30	75	652725000-L-4	25	25	60	120

Extra Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
652703000-XL-4	3	3	20	75	652712000-XL-4	12	12	65	150
652704000-XL-4	4	4	25	75	652714000-XL-4	14	14	65	150
652705000-XL-4	5	5	30	75	652716000-XL-4	16	16	75	150
652706000-XL-4	6	6	35	100	652718000-XL-4	18	18	75	150
652708000-XL-4	8	8	45	100	652720000-XL-4	20	20	75	150
652710000-XL-4	10	10	45	100	652725000-XL-4	25	25	75	150

CARBIDE BALL NOSE END MILLS - 2F/4F

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



END MILLS

Standard Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527001000-B	1	3	3	38	6527007000-B	7	8	13	63
6527001500-B	1.5	3	5	38	6527008000-B	8	8	16	63
6527002000-B	2	3	6	38	6527010000-B	10	10	19	72
6527002500-B	2.5	3	7	38	6527012000-B	12	12	22	83
6527003000-B	3	3	7	38	6527014000-B	14	14	22	83
6527003500-B	3.5	4	10	50	6527016000-B	16	16	26	92
6527004000-B	4	4	10	50	6527018000-B	18	18	26	92
6527005000-B	5	5	11	50	6527020000-B	20	20	32	104
6527006000-B	6	6	13	57	6527025000-B	25	25	32	104

Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527003000-BL	3	3	15	57	6527012000-BL	12	12	45	100
6527004000-BL	4	4	19	57	6527014000-BL	14	14	45	100
6527005000-BL	5	5	25	63	6527016000-BL	16	16	50	100
6527006000-BL	6	6	25	75	6527018000-BL	18	18	50	100
6527008000-BL	8	8	30	75	6527020000-BL	20	20	60	120
6527010000-BL	10	10	35	90	6527025000-BL	25	25	60	120

Standard Length

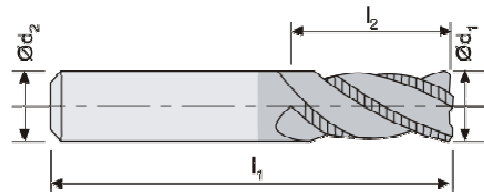
Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527001000-B-4	1	3	3	38	6527007000-B-4	7	8	13	63
6527001500-B-4	1.5	3	5	38	6527008000-B-4	8	8	16	63
6527002000-B-4	2	3	6	38	6527010000-B-4	10	10	19	72
6527002500-B-4	2.5	3	7	38	6527012000-B-4	12	12	22	83
6527003000-B-4	3	3	7	38	6527014000-B-4	14	14	22	83
6527003500-B-4	3.5	4	10	50	6527016000-B-4	16	16	26	92
6527004000-B-4	4	4	10	50	6527018000-B-4	18	18	26	92
6527005000-B-4	5	5	11	50	6527020000-B-4	20	20	32	104
6527006000-B-4	6	6	13	57	6527025000-B-4	25	25	32	104

Long Length

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527003000-BL-4	3	3	15	57	6527012000-BL-4	12	12	45	100
6527004000-BL-4	4	4	19	57	6527014000-BL-4	14	14	45	100
6527005000-BL-4	5	5	25	63	6527016000-BL-4	16	16	50	100
6527006000-BL-4	6	6	25	75	6527018000-BL-4	18	18	50	100
6527008000-BL-4	8	8	30	75	6527020000-BL-4	20	20	60	120
6527010000-BL-4	10	10	35	90	6527025000-BL-4	25	25	60	120

CARBIDE ROUGHING END MILLS - 4F

- ☆ Mostly commonly used End Mills
- ☆ Flute Types: Type HR
- ☆ Right Hand
- ☆ Surface: TiAlN / AlTiN



END MILLS

30° Helix

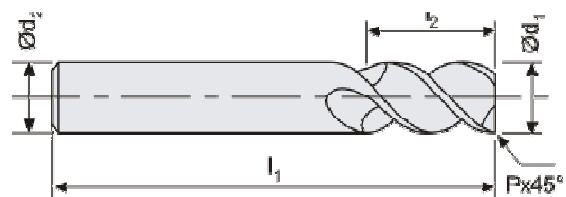
Order No.	Flute No.					Ø d1	d2	l2	l1
6527006000-R-4	4					6	6	13	57
6527008000-R-4	4					8	8	19	63
6527010000-R-4	4					10	10	22	72
6527012000-R-4	4					12	12	26	83
6527014000-R-4	4					14	14	26	83
6527016000-R-4	4					16	16	32	92
6527018000-R-4	4					18	16	32	92
6527020000-R-4	4					20	20	38	104
6527025000-R-4	4					25	25	45	121

45° Helix

Order No.	Flute No.					Ø d1	d2	l2	l1
6527006000-R-4/45	4					6	6	13	57
6527008000-R-4/45	4					8	8	19	63
6527010000-R-4/45	4					10	10	22	72
6527012000-R-4/45	4					12	12	26	83
6527014000-R-4/45	4					14	14	26	83
6527016000-R-5/45	5					16	16	32	92
6527018000-R-5/45	5					18	16	32	92
6527020000-R-6/45	6					20	20	38	104
6527025000-R-6/45	6					25	25	45	121

CARBIDE END MILLS for ALU. - 3F

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

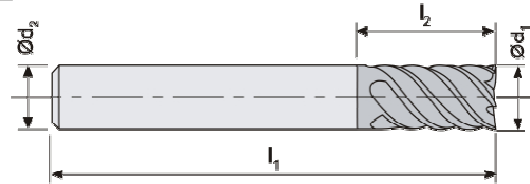


Standard Length - 45° Helix

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527002000-3/45	2	4	6	50	6527010000-3/45	10	10	22	72
6527002500-3/45	2.5	4	6	50	6527012000-3/45	12	12	26	83
6527003000-3/45	3	4	8	50	6527014000-3/45	14	14	26	83
6527003500-3/45	3.5	4	8	50	6527016000-3/45	16	16	32	92
6527004000-3/45	4	4	10	50	6527018000-3/45	18	18	32	92
6527005000-3/45	5	6	13	57	6527020000-3/45	20	20	38	104
6527006000-3/45	6	6	13	57	6527025000-3/45	25	25	45	121
6527008000-3/45	8	8	19	63					

CARBIDE END MILLS - 6F/8F - for SUPER FINISHING

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



END MILLS

Standard Length - 50° Helix

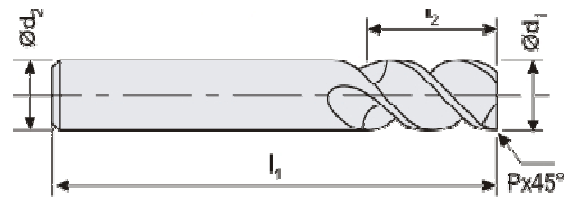
Order No.	Flute No.					Ø d1	d2	l2	l1
6527006000-6/50	6					6	6	13	57
6527008000-6/50	6					8	8	19	63
6527010000-6/50	6					10	10	22	72
6527012000-6/50	6					12	12	26	83
6527014000-6/50	6					14	14	26	83
6527016000-6/50	6					16	16	32	92
6527018000-6/50	6					18	18	32	92
6527020000-8/50	8					20	20	38	104
6527025000-8/50	8					25	25	45	121

Long Length - 50° Helix

Order No.	Flute No.					Ø d1	d2	l2	l1
6527006000-L-6/50	6					6	6	18	62
6527008000-L-6/50	6					8	8	24	68
6527010000-L-6/50	6					10	10	30	80
6527012000-L-6/50	6					12	12	36	93
6527016000-L-6/50	6					16	16	48	108
6527020000-L-8/50	8					20	20	60	126
6527025000-L-8/50	8					25	25	60	126

CARBIDE END MILLS for ALU. - 3F

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



Long Length - 45° Helix

Order No.	Ø d1	d2	l2	l1	Order No.	Ø d1	d2	l2	l1
6527004000-L-3/45	4	4	19	57	6527010000-L-3/45	10	10	35	90
6527004500-L-3/45	4.5	5	25	63	6527012000-L-3/45	12	12	45	100
6527005000-L-3/45	5	5	25	63	6527014000-L-3/45	14	14	45	100
6527005500-L-3/45	5.5	6	25	75	6527016000-L-3/45	16	16	50	100
6527006000-L-3/45	6	6	25	75	6527018000-L-3/45	18	18	50	100
6527008000-L-3/45	8	8	30	75	6527020000-L-3/45	20	20	60	120