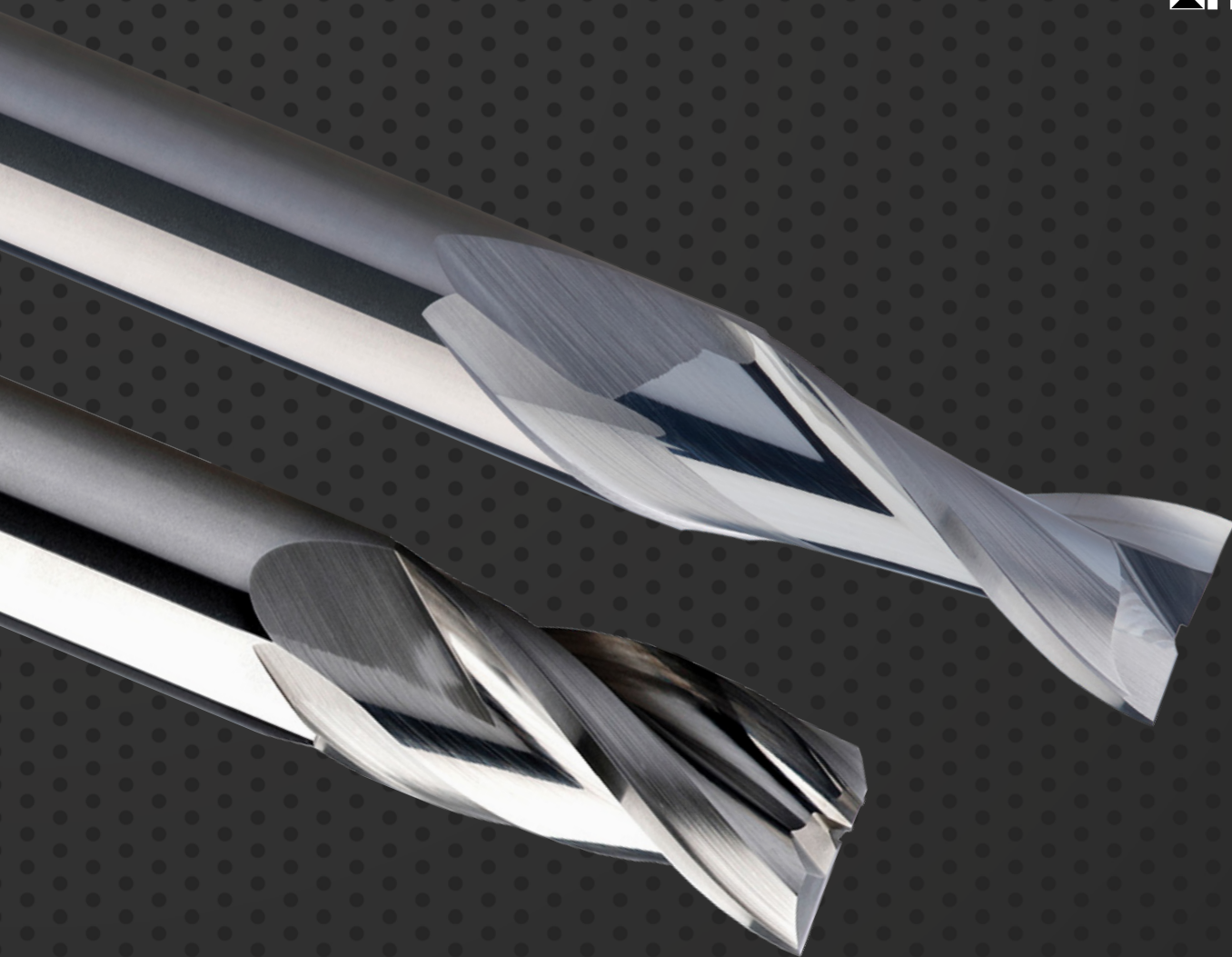




ENDMILLS

ALU LINE

Wide range of carbide endmills

Index - Alu Line, For Non Ferrous Metal

Suitable for Material Groups
 Adapté pour les matériaux
 适用于材料
 Geeignet für die Materialgruppen
 Adatto per il materiale

N **O**

EDP Number	Type	No. Z	Helix Angle	Coating	Performance	Page Number
788	AL SE	1	25°	UC	G	44
924	AL SE, Flute Polished	1	25°	UC	G	44
G49	AL SE	2	40°	UC	G	45
301	AL SE	2	50°	UC	P	46
G52	AL SE Torus, Edge Protection, Flute Polished	2	30°	UC	P	47
G53	AL SE Torus, Edge Protection, Flute Polished, Recess	2	30°	UC	P	47
G56	AL SE Long Torus, Edge Protection, Flute Polished	2	30°	UC	P	48
G57	AL SE Long Torus, Edge Protection, Flute Polished, Recess	2	30°	UC	P	48
G71	AL SE Reduced Shank	2	30°	UC	P	49
G50	AL SE	3	40°	UC	G	50
303	AL SE DP	3	50°	UC	G	51
K30	AL SE DP	3	40°	UC	G	52
K31	AL SE Long	3	40°	H2600	G	52
G51	AL SE	3	40°	UC	P	53
G69	AL SE DP, Edge Protection, Flute Polished	3	30°	UC	P	54
G70	AL SE DP, Edge Protection	3	30°	UC	P	54
G72	AL SE DP Torus Roughing	3	40°	UC	P	55
G73	AL SE DP Torus Roughing, Recess	3	40°	UC	P	55
S42	AL SE DP	4	40°	UC	P	56
C45	AL SE DP Torus	4	40°	UC	P	57
C51	AL SE DP Torus, Weldon	4	40°	UC	P	57
NEW K60	XQ Alu DP/DH/DF, Recess	4	a° ≠ b°	UC	P	60
NEW K61	XQ Alu DP/DH/DF, Recess, Chip Breaker	4	a° ≠ b°	UC	P	61
NEW K62	XQ Alu Torus DP/DH/DF, Recess	4	a° ≠ b°	UC	P	64
NEW K63	XQ Alu Torus DP/DH/DF, Recess, Chip Breaker	4	a° ≠ b°	UC	P	65
NEW K88	XQ Alu Long DP/DH/DF	4	a° ≠ b°	UC	P	66
NEW K89	XQ Alu Long DP/DH/DF, Chip Breaker	4	a° ≠ b°	UC	P	67
G68	AL SE Miniature Long Neck	2	40°	UC	G	68
G74	AL BN	2	30°	UC	G	70
G75	AL BN, Recess	2	30°	UC	G	70
G76	AL BN Miniature Long Neck	2	30°	UC	G	71

AL SE SINGLE FLUTE ENDMILLS

- VHM AL SE Einzahn Fräser
- Frese AL SE, 1 tagliente
- Fraises AL SE à une dent
- 整体硬质合金 AL SE 系列 单刃平底铣刀



Order Number	Dimension (mm)					Normal	
	D	I1	I2	L	d2 (h6)	UC	
788 0200 *	2	10		40	2	•	
788 0300 *	3	12		40	3	•	
788 0400	4	15		50	4	•	
788 0500	5	16		50	5	•	
788 0600	6	20		60	6	•	
788 0800	8	22		63	8	•	
788 1000	10	25		72	10	•	
788 1200	12	30		83	12	•	

Order Number	Dimension (mm)					Flute Polished	
	D	I1	I2	L	d2 (h6)	UC	
924 0200 *	2	10		40	2	•	
924 0300 *	3	12		40	3	•	
924 0400	4	15		50	4	•	
924 0500	5	16		50	5	•	
924 0600	6	20		60	6	•	
924 0800	8	22		63	8	•	
924 1000	10	25		72	10	•	
924 1200	12	30		83	12	•	

* - DIN 6535

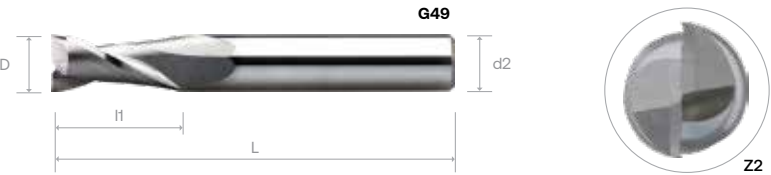
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01N02N03K01K02P01P02P03M01M02S01S02S03H01H02O01O02

72

AL SE ENDMILLS, 2 FLUTES

- VHM AL SE Fräser, 2 Zähne
- Frese AL SE, 2 taglienti
- Fraises AL SE - 2 dents
- 整体硬质合金 AL SE 系列 2刃平底铣刀



Order Number	Dimension (mm)					UC
	D	I 1	I 2	L	d2 (h6)	
G49 0100 040 04	1	3		40	4	•
G49 0150 040 04 *	1.5	4.5		40	4	◦
G49 0200 040 04	2	6.5		40	4	◦
G49 0250 040 04 *	2.5	6.5		40	4	◦
G49 0300	3	9		40	3	•
G49 0300 050 06				50	6	•
G49 0400	4	12		50	4	•
G49 0400 050 06				50	6	•
G49 0500 050 06	5	15		50	6	◦
G49 0600 050	6	16		50	6	•
G49 0600 060		20		60	6	•
G49 0800	8			64	8	◦
G49 1000 070	10	22		70	10	•
G49 1000 075		31		75	10	◦
G49 1200	12	25		75	12	•
G49 1400	14	32		90	14	◦
G49 1600	16			90	16	◦
G49 2000	20	38		100	20	◦

* - DIN 6535

Ø mm	Tol. µm
01 ~ 2.9	-0 / -20
3.0 ~ 6.0	-0 / -25
6.0 ~ 30.0	-0 / -30

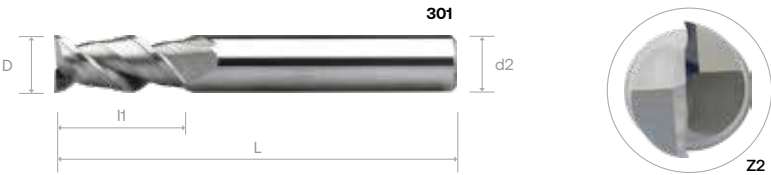
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02	72 - 73
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AL SE ENDMILLS, 2 FLUTES

-  VHM AL SE Fräser, 2 Zähne
-  Frese AL SE, 2 taglienti
-  Fraises AL SE - 2 dents
-  整体硬质合金 AL SE 系列 2刃平底铣刀



Order Number	Dimension (mm)					UC
	D	I 1	I 2	L	d2 (h6)	
301 0100 040 03	1	3		40	3	•
301 0100 040 04				40	4	•
301 0150 040 03	1.5	4.5		40	3	•
301 0150 040 04 *				40	4	•
301 0200 040 03	2	6.5		40	3	•
301 0200 040 04 *				40	4	•
301 0250 040 03	2.5			40	3	•
301 0250 040 04				40	4	◦
301 0300	3	9		40	3	•
301 0300 050 06				50	6	•
301 0400	4	12		50	4	•
301 0400 050 06				50	6	•
301 0500	5	15		50	5	•
301 0500 050 06				50	6	•
301 0600 050	6	16		50	6	•
301 0600 060		20		60	6	•
301 0800	8				64	8
301 1000 070	10	22		70	10	•
301 1000 075				75	10	•
301 1200	12	25		75	12	◦
301 1400	14	32		90	14	•
301 1600	16			90	16	•
301 1800	18	38		100	18	•
301 2000	20			100	20	◦

* - DIN 6535

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01

N02

N03

K01

K02

P01

P02

P03

M01

M02

S01

S02

S03

H01

H02

O01

O02

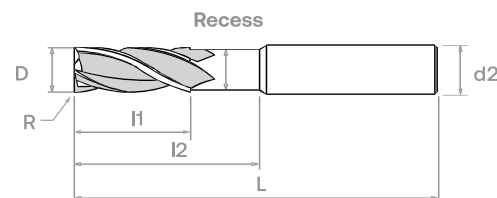
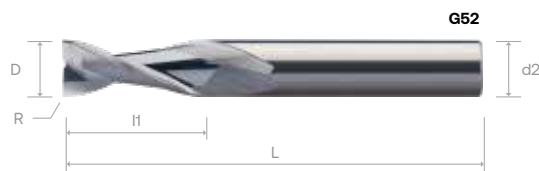
Cutting Parameter

73

CNC Repeatability
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

AL SE ENDMILLS, EDGE PROTECTION, FLUTE POLISHED, 2 FLUTES

- 🇩🇪 VHM AL SE Torusfräser, 2 Zähne
🇮🇹 Frese toroidali AL SE, 2 taglienti
🇫🇷 Fraises AL SE toriques - 2 dents
🇨🇳 整体硬质合金 AL SE 系列 2刃刀尖保护铣刀



Order Number	Dimension (mm)								Normal
	D	I1	I2	d3	L	d2 (h6)	R	UC	
G52 0200	2	6.5		2.8	40	4	0.1	•	G53 0200
G52 0200 050 06				2.8	50	6	0.1	•	
G52 0300	3	9		2.8	40	3	0.1	•	G53 0300
G52 0300 050 06				2.8	50	6	0.1	•	
G52 0400	4	12		3.7	50	4	0.1	•	G53 0400
G52 0400 050 06 06		6		3.7	50	6	0.1	•	
G52 0400 050 06		12		3.7	50	6	0.1	•	
G52 0500 050 06	5	15		4.6	50	6	0.1	•	G53 0500 050 06
G52 0600 060 09	6	9		5.5	60	6	0.1	•	G53 0600 060 09
G52 0600 060		20		5.5	60	6	0.1	•	
G52 0800 12	8	12		7.4	64	8	0.1	•	G53 0800 12
G52 0800		20		7.4	64	8	0.1	•	
G52 1000 15	10	15		9.2	75	10	0.1	•	G53 1000 15
G52 1000		22		9.2	75	10	0.1	•	
G52 1200 18	12	18		11	75	12	0.1	•	G53 1200 18
G52 1200		25		11	75	12	0.1	•	
G52 1400	14	32		13	90	14	0.1	•	G53 1400
G52 1600 24	16	24		15	90	16	0.1	•	G53 1600 24
G52 1600		32		15	90	16	0.1	•	
G52 2000		38		19	100	20	0.1	•	

* - DIN 6535

CNC Repeatability

Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

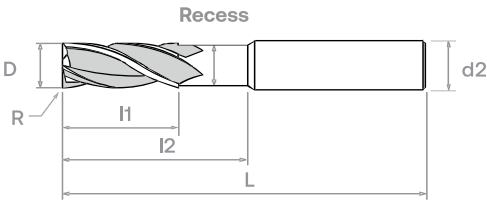
Cutting Parameter

N01 N02 N03 K01 K02 P01 P02 P03 M01 M02 S01 S02 S03 H01 H02 O01 O02

72 - 73

AL SE LONG TORUS ENDMILLS, EDGE PROTECTION, FLUTE POLISHED, 2 FLUTES

-  VHM AL SE Torusfräser, 2 Zähne
-  Frese toroidali lunghe AL SE, 2 taglienti
-  Fraises AL SE toriques longues - 2 dents
-  整体硬质合金 AL SE 系列 2刃长型刀尖保护铣刀



Order Number	Dimension (mm)								Normal
	D	I1	I2	d3	L	d2 (h6)	R	UC	
G56 0600	6	16		5.5	80	6	0.1	•	
G56 0800	8	20		7.4	80	8	0.1	•	
G56 1000	10	22		9.2	100	10	0.1	•	
G56 1200	12	25		11	100	12	0.1	◦	
G56 1400	14	32		13	125	14	0.1	•	
G56 1600	16			15	125	16	0.1	◦	
G56 2000	20	38		19	125	20	0.1	◦	

Order Number	Dimension (mm)								Flute Polished
	D	I1	I2	d3	L	d2 (h6)	R	UC	
G57 0600	6	16	40	5.5	80	6	0.1	•	
G57 0800	8	20	40	7.4	80	8	0.1	•	
G57 1000	10	22	60	9.2	100	10	0.1	•	
G57 1200	12	25	60	11	100	12	0.1	◦	
G57 1400	14	32	75	13	125	14	0.1	◦	
G57 1600	16		75	15	125	16	0.1	•	
G57 2000	20	38	75	19	125	20	0.1	•	

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01N02N03K01K02P01P02P03M01M02S01S02S03H01H02O01O02

73

CNC Repeatability
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

Cutting Parameter

AL SE REDUCED SHANK ENDMILLS, 2 FLUTES

- VHM AL SE Fräser, 2 Zähne
- Frese AL SE, con gambo ridotto, 2 taglienti
- Fraises AL SE - 2 dents
- 整体硬质合金 AL SE 系列 2 刃刀尖保护铣刀



Order Number	Dimension (mm)						UC
	D	I1	I2	L	d2 (h6)	R	
G71 0320 075	3.2	4		75	3	0.1	•
G71 0420 075	4.2	5		75	4	0.1	•
G71 0520 075	5.2	6		75	5	0.1	•
G71 0620 075				75	6	0.1	•
G71 0620 100	6.2	8		100	6	0.1	•
G71 0820 075				75	8	0.1	◦
G71 0820 100	8.2	10		100	8	0.1	◦
G71 1030 100				100	10	0.1	•
G71 1030 125	10.3	14		125	10	0.1	•
G71 1230 100				100	12	0.1	◦
G71 1230 125	12.3	16		125	12	0.1	•
G71 1630 125				125	16	0.1	•
G71 2030 125	20.3	25		125	20	0.1	◦

CNC Repeatability
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

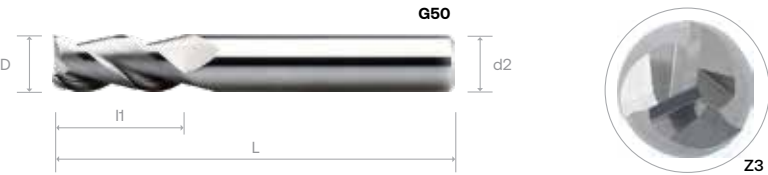
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02	72 - 73
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AL SE ENDMILLS, 3 FLUTES

-  VHM AL SE Fräser, 3 Zähne
-  Frese AL SE, 3 taglienti
-  Fraises AL SE - 3 dents
-  整体硬质合金 AL SE 系列 3刃平底铣刀



Order Number	Dimension (mm)					UC
	D	L1	L2	L	d2 (h6)	
G50 0100 040 04	1	3		40	4	◦
G50 0150 040 04 *	1.5	4.5		40	4	◦
G50 0200 040 04	2	6.5		40	4	•
G50 0250 040 04 *	2.5			40	4	•
G50 0300	3	9		40	3	•
G50 0300 050 06				50	6	•
G50 0400	4	12		50	4	•
G50 0400 050 06				50	6	•
G50 0500 050 06	5	15		50	6	•
G50 0600 050	6	16		50	6	•
G50 0600 060		20		60	6	•
G50 0800	8			64	8	•
G50 1000 070	10	22		70	10	•
G50 1000 075		31		75	10	•
G50 1200	12	25		75	12	◦
G50 1400	14	32		90	14	◦
G50 1600	16			90	16	◦
G50 2000	20	38		100	20	•

* - DIN 6535

Ø mm	Tol. µm
0.1 ~ 2.9	-0 / -20
3.0 ~ 6.0	-0 / -25
6.0 ~ 30.0	-0 / -30

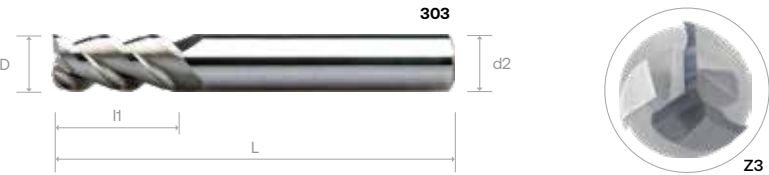
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01N02N03K01K02P01P02P03M01M02S01S02S03H01H02O01O02

Cutting Parameter74

AL SE ENDMILLS, 3 FLUTES

- VHM AL SE Fräser, 3 Zähne
- Frese AL SE, 3 taglienti
- Fraises AL SE - 3 dents
- 整体硬质合金 AL SE 系列 3刃平底铣刀



Order Number	Dimension (mm)					UC
	D	I 1	I 2	L	d2 (h6)	
303 0100 040 03	1	3		40	3	•
303 0100 040 04				40	4	•
303 0150 040 03	1.5	4.5		40	3	•
303 0150 040 04 *				40	4	•
303 0200 040 03 *	2	6.5		40	3	•
303 0200 040 04 *				40	4	•
303 0250 040 03	2.5			40	3	•
303 0250 040 04				40	4	•
303 0300	3	9		40	3	•
303 0300 050 06				50	6	•
303 0400	4	12		50	4	•
303 0400 050 06				50	6	•
303 0500	5	15		50	5	•
303 0500 050 06				50	6	•
303 0600 050	6	16		50	6	•
303 0600 060		20		60	6	•
303 0800	8			64	8	•
303 1000 070	10	22		70	10	•
303 1000 075				75	10	•
303 1200	12	25		75	12	•
303 1400	14	32		90	14	•
303 1600	16			90	16	•
303 1800	18	38		100	18	•
303 2000	20			100	20	•

* - DIN 6535

CNC Repeatability
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

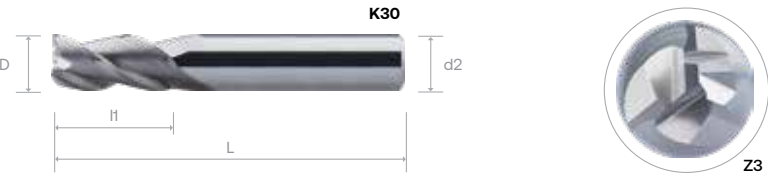
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02	74
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AL SE DP ENDMILLS, 3 FLUTES

- VHM AL SE DP Fräser, 3 Zähne
- Frese AL SE DP in metallo duro integrale, 3 taglienti
- Fraises AL SE DP - 3 dents
- 整体硬质合金 AL SE DP 系列 3刃平底铣刀



Order Number	Dimension (mm)					UC	Order Number	Dimension (mm)					H2600
	D	I1	I2	L	d2 (h6)			D	I1	I2	L	d2 (h6)	
K30 0100 040 04	1	3		40	4	•	K31 0100 040 04	1	3		40	4	•
K30 0150 040 04 *	1.5	4.5		40	4	•	K31 0150 040 04 *	1.5	4.5		40	4	•
K30 0200 040 04	2	6.5		40	4	•	K31 0200 040 04	2	6.5		40	4	•
K30 0250 040 04 *	2.5			40	4	•	K31 0250 040 04 *	2.5			40	4	•
K30 0300	3	9		40	3	•	K31 0300	3	9		40	3	•
K30 0300 050 06				50	6	•	K31 0300 050 06				50	6	•
K30 0400	4	12		50	4	•	K31 0400	4	12		50	4	•
K30 0400 050 06				50	6	•	K31 0400 050 06				50	6	•
K30 0500 050 06	5	15		50	6	•	K31 0500 050 06	5	15		50	6	•
K30 0600 050	6	16		50	6	•	K31 0600 050	6	16		50	6	•
K30 0600 060		20		60	6	•	K31 0600 060		20		60	6	•
K30 0800	8			64	8	•	K31 0800	8			64	8	•
K30 1000 070	10	22		70	10	•	K31 1000 070	10	22		70	10	•
K30 1000 075		31		75	10	•	K31 1000 075		31		75	10	•
K30 1200	12	25		75	12	•	K31 1200	12	25		75	12	•
K30 1600	16	32		90	16	•	K31 1600	16	32		90	16	•

* - DIN 6535

Ø mm	Tol. µm
0.1 ~ 2.9	-0 / -20
3.0 ~ 6.0	-0 / -25
6.0 ~ 30.0	-0 / -30

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01N02N03K01K02P01P02P03M01M02S01S02S03H01H02O01O02

Cutting Parameter74

AL SE LONG ENDMILLS, 3 FLUTES

- VHM AL SE Fräser, lang, 3 Zähne
- Fresa lunghe AL SE, 3 taglienti
- Fraises AL SE longues - 3 dents
- 整体硬质合金 AL SE 系列 3刃长型平底铣刀



Order Number	Dimension (mm)					UC
	D	I 1	I 2	L	d2 (h6)	
G51 0300	3	19		60	3	•
G51 0300 075 06				75	6	•
G51 0400	4			60	4	•
G51 0400 075 06				75	6	•
G51 0500	5			75	6	•
G51 0600 075	6	31		75	6	•
G51 0600 100		38		100	6	•
G51 0800 075	8	31		75	8	•
G51 0800 100		41		100	8	•
G51 1000 100	10	50		100	10	•
G51 1000 125		57		125	10	•
G51 1200 100	12	50		100	12	•
G51 1200 150		75		150	12	•
G51 1400	14	57		125	14	•
G51 1600	16			125	16	•

Ø mm	Tol. µm
0.1 ~ 2.9	-0 / -20
3.0 ~ 6.0	-0 / -25
6.0 ~ 30.0	-0 / -30

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01

N02

N03

K01

K02

P01

P02

P03

M01

M02

S01

S02

S03

H01

H02

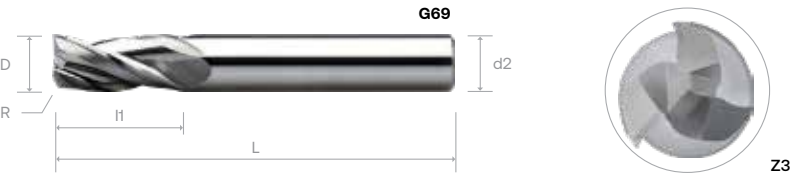
O01

O02

75

AL SE DP ENDMILLS, EDGE PROTECTION, 2 FLUTES

-  VHM AL SE Standard Torusfräser, 3 Zähne
-  Frese toroidali AL SE, con passo differenziale, 2 taglienti
-  Fraises AL SE DP - 2 dents
-  整体硬质合金 AL SE DP 系列 3刃刀尖保护铣刀



Order Number	Dimension (mm)						Flute Polished	Order Number	Dimension (mm)						Normal
	D	I1	I2	L	d2 (h6)	R	UC		D	I1	I2	L	d2 (h6)	R	UC
G69 0200	2	6.5		40	4	0.1	°	G70 0200	2	6.5		40	4	0.1	°
G69 0200 050 06				50	6	0.1	°	G70 0200 050 06				50	6	0.1	•
G69 0300	3	9		40	3	0.1	°	G70 0300	3	9		40	3	0.1	•
G69 0300 050 06				50	6	0.1	•	G70 0300 050 06				50	6	0.1	•
G69 0400	4	12		50	4	0.1	°	G70 0400	4	12		50	4	0.1	°
G69 0400 050 06				50	6	0.1	•	G70 0400 050 06				50	6	0.1	•
G69 0500 050 06	5	15		50	6	0.1	°	G70 0500 050 06	5	15		50	6	0.1	°
G69 0600 060	6	20		60	6	0.1	°	G70 0600 060	6	20		60	6	0.1	•
G69 0800	8			64	8	0.1	°	G70 0800	8			64	8	0.1	•
G69 1000	10	22		75	10	0.1	•	G70 1000	10	22		75	10	0.1	•
G69 1200	12	25		75	12	0.1	•	G70 1200	12	25		75	12	0.1	•
G69 1400	14	32		90	14	0.1	•	G70 1400	14	32		90	14	0.1	•
G69 1600	16			90	16	0.1	•	G70 1600	16			90	16	0.1	°

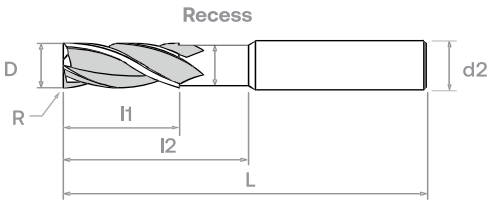
Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01N02N03K01K02P01P02P03M01M02S01S02S03H01H02O01O02

Cutting Parameter74

AL SE DP TORUS ROUGHING ENDMILLS, 3 FLUTES

- VHM AL SE DP Torus Schruppfräser, 3 Zähne
- Frese toroidali per sgrossare AL SE, con passo differenziale, 3 taglienti
- Fraises ébauches AL SE DP toriques 3 dents
- 整体硬质合金 AL SE DP 系列 3刃粗加工圆鼻铣刀



Order Number	Dimension (mm)							UC	Order Number	DIN 6535	Dimension (mm)							UC
	D	I 1	I 2	d3	L	d2 (h6)	R				D	I 1	I 2	d3	L	d2 (h6)	R	
G72 0600	6	13		5.5	60	6	0.1	•	G73 0600	*	6	13	24	5.5	60	6	0.1	•
G72 0600 075				5.5	75	6	0.1	◦	G73 0600 075				40	5.5	75	6	0.1	•
G72 0800	8	20		7.4	64	8	0.1	◦	G73 0800	*	8	20	28	7.4	64	8	0.1	•
G72 0800 075				7.4	75	8	0.1	•	G73 0800 075				40	7.4	75	8	0.1	•
G72 1000 075	10	22		9.2	75	10	0.1	•	G73 1000 075		10	22	35	9.2	75	10	0.1	•
G72 1000 100				9.2	100	10	0.1	•	G73 1000 100				60	9.2	100	10	0.1	•
G72 1200 075	12	26		11	75	12	0.12	•	G73 1200 075		12	26	40	11	75	12	0.12	•
G72 1200 100				11	100	12	0.12	•	G73 1200 100				60	11	100	12	0.12	◦
G72 1600 090	16	32		15	90	16	0.16	•	G73 1600 090	*	16	32	40	15	90	16	0.16	•
G72 1600 125				15	125	16	0.16	◦	G73 1600 125	*			75	15	125	16	0.16	◦
G72 2000 100	20	40		19	100	20	0.2	◦	G73 2000 100	*	20	40	50	19	100	20	0.2	◦
G72 2000 150				19	150	20	0.2	◦	G73 2000 150	*			100	19	150	20	0.2	◦

* - DIN 6535

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02	76
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AL SE DP ENDMILLS, 4 FLUTES

- 🇩🇪 VHM AL SE DP Standard Fräser, 4 Zähne
- 🇮🇹 Frese AL SE, con passo differenziale, 4 taglienti
- 🇫🇷 Fraises AL SE DP - 4 dents
- 🇨🇳 整体硬质合金 AL SE DP 系列 4刃平底铣刀



Order Number	Dimension (mm)					UC
	D	L1	L2	L	d2 (h6)	
S42 0300 057 06	3	9		57	6	•
S42 0400 057 06	4	12		57	6	•
S42 0500 057 06	5	13		57	6	•
S42 0600 057	6			57	6	•
S42 0800 064	8	20		64	8	•
S42 1000 072	10	22		72	10	•
S42 1200 083	12	26		83	12	•
S42 1400 090	14	32		90	14	•
S42 1600 092	16			92	16	•
S42 2000 104	20	38		104	20	•

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

N01 N02 N03 K01 K02 P01 P02 P03 M01 M02 S01 S02 S03 H01 H02 O01 O02

CNC Repeatability

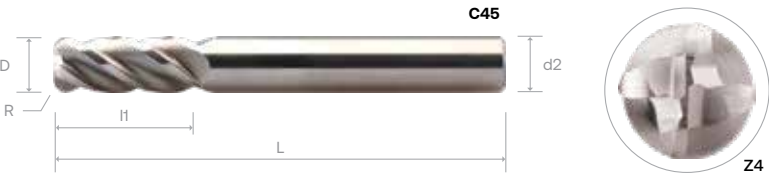
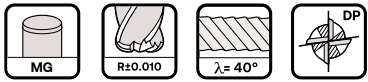
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

Cutting Parameter

75

AL SE DP TORUS ENDMILLS, 4 FLUTES

- VHM AL SE DP Torusfräser, 4 Zähne
- Frese toroidali AL SE, con passo differenziale, raggio di protezione, 4 taglienti
- Fraises AL SE DP toriques à pas décalés 4 dents
- 整体硬质合金 AL SE DP 系列 4刃圆鼻铣刀



Order Number	Dimension (mm)							HA	Order Number	Dimension (mm)							HB
	D	I1	I2	L	d2(h6)	R	UC			D	I1	I2	L	d2(h6)	R	UC	
C45 0300 057 0600 030	3	9		57	6	0.3	•		C51 0300 057 0600 030	3	9		57	6	0.3	•	
C45 0300 057 0600 050				57	6	0.5	◦		C51 0300 057 0600 050				57	6	0.5	◦	
C45 0400 057 0600 030				57	6	0.3	•		C51 0400 057 0600 030				57	6	0.3	◦	
C45 0400 057 0600 050	4	12		57	6	0.5	•		C51 0400 057 0600 050	4	12		57	6	0.5	◦	
C45 0500 057 0600 030				57	6	0.3	◦		C51 0500 057 0600 030				57	6	0.3	◦	
C45 0500 057 0600 050				57	6	0.5	◦		C51 0500 057 0600 050				57	6	0.5	◦	
C45 0600 057 0600 030	5	15		57	6	0.3	•		C51 0600 057 0600 030	5	15		57	6	0.3	◦	
C45 0600 057 0600 050				57	6	0.5	•		C51 0600 057 0600 050				57	6	0.5	◦	
C45 0800 064 0800 030				57	6	0.3	•		C51 0800 064 0800 030				57	6	0.3	◦	
C45 0800 064 0800 050	6	16		57	6	0.5	•		C51 0800 064 0800 050	6	16		57	6	0.5	◦	
C45 0800 064 0800 100				57	6	1	•		C51 0800 064 0800 100				57	6	1	◦	
C45 0800 064 0800 150				64	8	0.3	•		C51 0800 064 0800 150				64	8	0.3	◦	
C45 0800 064 0800 200	8	20		64	8	0.5	•		C51 0800 064 0800 200	8	20		64	8	0.5	◦	
C45 1000 072 1000 030				64	8	1	•		C51 1000 072 1000 030				64	8	1	◦	
C45 1000 072 1000 050				64	8	1.5	◦		C51 1000 072 1000 050				64	8	1.5	◦	
C45 1000 072 1000 100	10	22		64	8	2	•		C51 1000 072 1000 100	10	22		64	8	2	◦	
C45 1200 083 1200 030				72	10	0.3	◦		C51 1200 083 1200 030				72	10	0.3	◦	
C45 1200 083 1200 050				72	10	0.5	◦		C51 1200 083 1200 050				72	10	0.5	◦	
C45 1200 083 1200 100	12	26		72	10	1	•		C51 1200 083 1200 100	12	26		72	10	1	◦	
C45 1200 083 1200 200				83	12	0.3	•		C51 1200 083 1200 200				83	12	0.3	◦	
C45 1200 083 1200 250				83	12	0.5	•		C51 1200 083 1200 250				83	12	0.5	◦	
C45 1200 083 1200 300	14	32		83	12	1	•		C51 1200 083 1200 300	14	32		83	12	1	◦	
C45 1400 083 1400 050				83	12	2	•		C51 1400 083 1400 050				83	12	2	◦	
C45 1400 083 1400 100				83	12	2.5	◦		C51 1400 083 1400 100				83	12	2.5	◦	
C45 1400 083 1400 150	16	32		83	12	3	•		C51 1400 083 1400 150	16	32		83	12	3	◦	
C45 1600 092 1600 030				83	14	0.5	•		C51 1600 092 1600 030				83	14	0.5	◦	
C45 1600 092 1600 050				83	14	1	◦		C51 1600 092 1600 050				83	14	1	◦	
C45 1600 092 1600 100	18	32		83	14	1.5	◦		C51 1600 092 1600 100	18	32		83	14	1.5	◦	
C45 1600 092 1600 200				92	16	0.3	◦		C51 1600 092 1600 200				92	16	0.3	◦	
C45 1600 092 1600 250				92	16	0.5	◦		C51 1600 092 1600 250				92	16	0.5	◦	
C45 1600 092 1600 300	20	38		92	16	1	◦		C51 1600 092 1600 300	20	38		92	16	1	◦	
C45 1600 092 1600 400				92	16	2	◦		C51 1600 092 1600 400				92	16	2	◦	
C45 2000 104 2000 030				92	16	2.5	◦		C51 2000 104 2000 030				92	16	2.5	◦	
C45 2000 104 2000 050	22	38		92	16	3	◦		C51 2000 104 2000 050	22	38		92	16	3	◦	
C45 2000 104 2000 100				92	16	4	◦		C51 2000 104 2000 100				92	16	4	◦	
C45 2000 104 2000 200				104	20	0.3	◦		C51 2000 104 2000 200				104	20	0.3	◦	
C45 2000 104 2000 250	24	38		104	20	0.5	◦		C51 2000 104 2000 250	24	38		104	20	0.5	◦	
C45 2000 104 2000 300				104	20	1	◦		C51 2000 104 2000 300				104	20	1	◦	
C45 2000 104 2000 400				104	20	2	◦		C51 2000 104 2000 400				104	20	2	◦	
				104	20	2.5	◦						104	20	2.5	◦	
				104	20	3	◦						104	20	3	◦	
				104	20	4	◦						104	20	4	◦	

CNC Repeatability
Ø1 - Ø3 within 10µm
Ø4 - Ø8 within 15µm
≥ Ø10 within 20µm

Material Group | Material-Gruppe | Groupe Matiere | Gruppo Materiali | 材质主类

Cutting Parameter

N01	N02	N03	K01	K02	P01	P02	P03	M01	M02	S01	S02	S03	H01	H02	O01	O02	75
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