

SE 30

- For general machining
- Cost efficiency

For material application ≤ 35 HRC.



SE 30



01

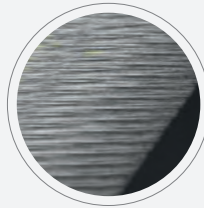
GASH LAND DESIGN

Significantly improves strength and provide great chipping resistance

02

ECCENTRIC GRINDING

Optimum eccentric grinding in order to avoid rubbing, while maintaining maximum cutting tool strength.



03

CUTTING EDGE PREPARATION

Enhances Tool Life

- Less material adhere on the cutting edge
- For stable machining



04

SUPERIOR COATING TO REDUCE FRICTION

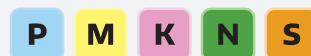
- Increases hardness and higher abrasive wear resistance
- Higher thermal resistance
- Smoother chip evacuation



05

POSITIVE RAKE ANGLE

Which suitable for Material Groups



SE 30 Endmills - Standard

							Operation						
	EDP	Ø	N° Z	Angle	Point Angle	B0819	RC	Weldon				Page	
SE 30 Fräser - Standard													
Frese SE 30 - Standard													
Fraises SE 30 - Standard													
SE 30 系列 立铣刀													
	816	1 - 25	2	40°		•			•			103	
	818		3			•			•				104
	820		4			•			•				105
	798		2	30°		•			•				98
	800		3			•			•				99
	802		4			•			•				100

SE 30 Endmills - Long

							Operation					
	EDP	Ø	N° Z	Angle	Point Angle	B0819	RC	Weldon				Page
SE 30 Fräser - Long												
Frese SE 30 - lunghe												
Fraises SE 30 - longues												
SE 30 系列 立铣刀 - 中长												
	824	3 - 20	4	40°		•						106
	806			30°		•						

SE 30 Endmills - Extra-Long

							Operation					
	EDP	Ø	N° Z	Angle	Point Angle	B0819	RC	Weldon				Page
SE 30 Fräser - extra-lang												
Frese SE 30 - lunghe												
Fraises SE 30 - longues												
SE 30 系列 立铣刀 - 加长												
	828	3 - 20	4	40°		•						107
	810			30°		•						

SE 30 Multi-Purpose Endmills

							Operation							
	EDP	Ø	N° Z	Angle	Point Angle	B0819	RC	Weldon				Page		
SE 30 VHM Mehrzweck														
Fresa SE 30 multiplo impiego angolo														
Fraises SE 30 multiple usage														
SE 30 系列 多功能立铣刀														
	834	3 - 20	2	40°	60°	•						108		
	836				90°	•								109
	838				120°	•								110

Miniature Round Corner Milling Cutters

P M K N S

Viertelrund Profilfräser Frese 1/4 circolare Fraises 1/4 de cercle 圆弧倒角刀			EDP	Ø	N° Z	Angle	Point Angle	B0819	RC	Weldon	Operation			Page
			398	1-2.5	4	-	•							111

NiTiCo 30

NiTiCo 30 DP/DH Endmills with Differential Pitch and Differential Helix Angles

P M K S

NiTiCo 30 DP/DH Fräser mit ungleicher Teilung und ungleichen Drallwinkeln Frese NiTiCo 30R DP/DH in metallo duro integrale a passo ed eliche variabili Fraises 2 tailles NiTiCo 30 DP/DH à pas décalés et hélices différentes NiTiCo 30 系列不等分割及不等份螺旋角立铣刀			EDP	Ø	N° Z	Helix Angle	G6110	B0909	RC	Weldon	Operation			Page		
			C48	4-25	4	35°/38°	•				•	•	•	130		
			C50				•	√	•	•	•	•	•	•	•	130
			A1R				•						•	•	•	130
			A1T				•	√	•	•	•	•	•	•	•	130

NiTiCo 30 DP Endmills with Differential Pitch

NiTiCo 30 DP Standard Fräser mit ungleicher Teilung Frese NiTiCo 30 DP Standard in metallo duro, passo differenziale Fraises 2 tailles NiTiCo 30 DP Standard à pas décalés NiTiCo 30 DP 系列立铣刀 标准长度			EDP	Ø	N° Z	Helix Angle	G6110	B0909	RC	Weldon	Operation			Page
			951	1-25	4	40°	•				•	•	•	122
			972				•	√	•	•	•	•	•	•
			C46	3-25	4	40°	•				•	•	•	124
			C52				•	√	•	•	•	•	•	•

NiTiCo 30 DP Roughing with Differential Pitch

DP Schruppfräser NiTiCo 30 mit ungleicher Teilung Frese per sgrossare NiTiCo 30 DP in metallo duro, passo differenziale Fraises ébauches 2 tailles NiTiCo 30 DP à pas décalés NiTiCo 30 DP 系列粗加工 标准长度			EDP	Ø	N° Z	Helix Angle	G6110	B0909	RC	Weldon	Operation			Page
			C47	1-25	4	40°	•				•	•	•	123
			C64			30°	•					•	•	•



DEUTSCH

- 01 **STIRNSCHLIFF DESIGN**
Verbessert die Leistung deutlich und bietet Schutz gegen Ausbrüche
- 02 **EXZENTRISCHER SCHLIFF**
Optimaler exzentrischer Schliff zur Reduzierung der Reibung unter Beibehaltung der maximalen Schneidenstabilität
- 03 **SCHNEIDKANTENBEHANDLUNG**
Verbessert die Werkzeuglebensdauer
 - Weniger Materialanhaftungen an der Schneide
 - Für stabile Bearbeitung
- 04 **AUSGEZEICHNETE BESCHICHTUNG ZUR VERRINGERUNG DER REIBUNG**
 - Erhöht die Härte und bietet bessere Verschleißfestigkeit
 - Höhere Temperaturbeständigkeit
 - Glatte Oberfläche für besseren Spänefluß
- 05 **POSITIVER SPANWINKEL**
Geeignet für die Materialgruppen P,M,K,N,S



FRANÇAIS

- 01 **CONCEPTION DE FRAISE POUR L'USINAGE GENERAL**
Améliore considérablement la solidité et apporte
- 02 **MEULAGE EXCENTRIQUE**
Meulage optimal diminuant le coefficient de friction tout en maintenant une bonne acuité de l'arête de coupe
- 03 **PRÉPARATION DES ARÊTES DE COUPES**
Améliore la durée de vie de l'outil
 - Moins de matériau adhère à l'arête tranchante
 - Pour un usinage stable
- 04 **REVÊTEMENT SUPÉRIEUR POUR RÉDUIRE LA FRICTION**
 - Augmente la dureté et la résistance à l'abrasion
 - Résistance thermique supérieure
 - Évacuation des copeaux plus fluide
- 05 **ANGLE DE COUPE POSITIF**
Adapté pour les matériaux P, M, K, N, S



ITALIANO

- 01 **STRUTTURA AREA SGROSSATURA**
Migliora notevolmente la potenza e offre un'eccellente resistenza alle scheggiature
- 02 **LEVIGATURA ORBITALE**
Levigatura orbitale ottimale per evitare sfregatura, garantendo la massima resistenza dello strumento di taglio
- 03 **PREPARAZIONE DELL'ANGOLO DI taglio**
Migliora la durata dello strumento
 - Meno materiale che aderisce sull'angolo di taglio
 - Per una lavorazione stabile
- 04 **RIVESTIMENTO SUPERIORE PER RIDURRE LA FRIZIONE**
 - Aumenta la durezza e una maggiore resistenza all'usura abrasiva
 - Resistenza termica superiore
 - Evacuazione dei trucioli più semplice
- 05 **ANGOLO DI TAGLIO POSITIVO**
Adatto per il materiale P,M,K,N,S



中文

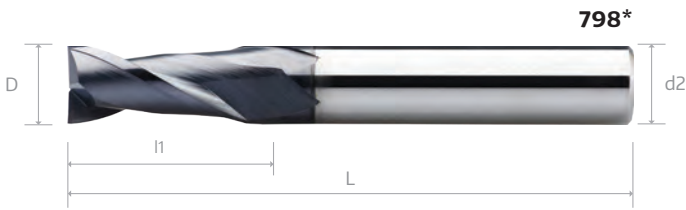
- 01 **刀具底刃的设计**
强化刀具, 并降低崩刃的几率
- 02 **偏心研磨**
最佳偏心研磨, 可避免加工时摩擦, 同时保持刀具的最高刚性
- 03 **刃部钝化处理**
提高刀具寿命和切削过程的稳定性
- 04 **卓越的涂层**
 - 强化刀具的硬度和抗热性
 - 降低积屑瘤并拥有更顺畅的排屑
- 05 **正前角的设计**
适合加工碳素钢、不锈钢、铸铁、有色金属和钛的材料

SE 30 STANDARD ENDMILLS

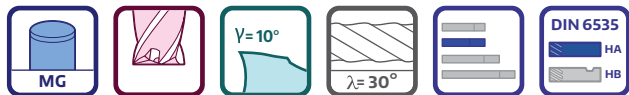
≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM SE 30 Standard Fräser, 2 Zähne	Fraises 2 tailles SE 30 standard - 2 dents, en carbure monobloc
Frese SE 30 in metallo duro integrale, 2 taglienti	整体硬质合金 SE 30 系列 立铣刀 2 刃 - 标准长度



SE 30



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					798 *
	D	l1	l2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0800	8	20		64	8	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

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

Cutting Parameter



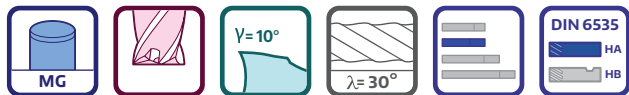
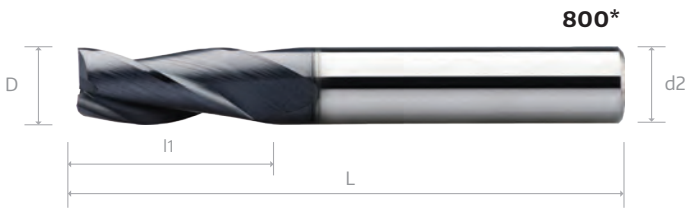
112

SE 30 STANDARD ENDMILLS

≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM SE 30 Standard Fräser, 3 Zähne	Fraises 2 tailles SE 30 standard - 3 dents, en carbure monobloc
Frese SE 30 in metallo duro integrale, 3 taglienti	整体硬质合金 SE 30 系列 立铣刀 3 刃 - 标准长度



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					800 *
	D	L1	L2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0800	8	20		64	8	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

Material Group | Material-Gruppe | Groupe Matière | 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
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

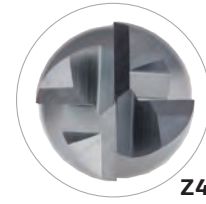
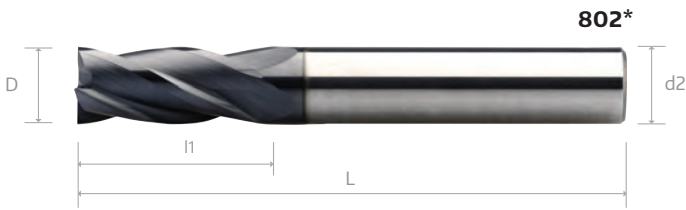
113

SE 30 STANDARD ENDMILLS

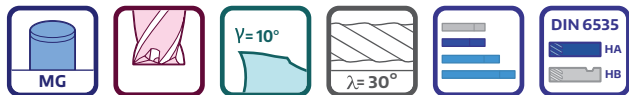
≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM SE 30 Standard Fräser, 4 Zähne	Fraises 2 tailles SE 30 standard - 4 dents, en carbure monobloc
Frese SE 30 in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 标准长度



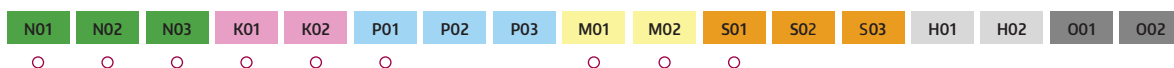
SE 30



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					802 *
	D	l1	l2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0800	8	20		64	8	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

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

Cutting Parameter



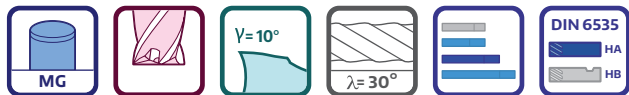
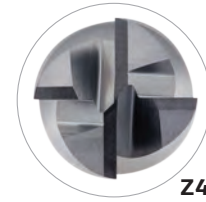
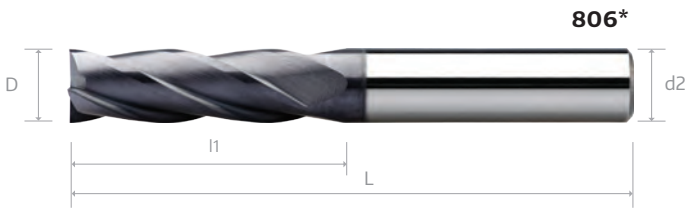
114

SE 30 ENDMILLS - Long

≤ 900 N/mm² + B0819 ≤ 35 HRC



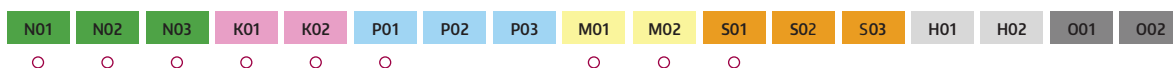
VHM Fräser SE Long, 4 Zähne	Fraises 2 tailles SE 30 Longue - 4 dents, en carbure monobloc
Frese SE 30 lang in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 中长



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					806 *
	D	L1	L2	L	d2 (h6)	B0819
= * + Ø data						
0300	3	19		60	3	•
0300 075 06	3	19		75	6	•
0400	4	19		60	4	•
0400 075 06	4	19		75	6	•
0500	5	19		60	5	•
0500 075 06	5	19		75	6	•
0600	6	31		75	6	•
0800	8	31		75	8	•
1000 075	10	31		75	10	•
1000 100	10	50		100	10	•
1200	12	50		100	12	•
1400	14	57		125	14	•
1600	16	57		125	16	•
1800	18	57		125	18	•
2000	20	57		125	20	•

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

Cutting Parameter



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Modifiche Tecniche possibili senza preavviso

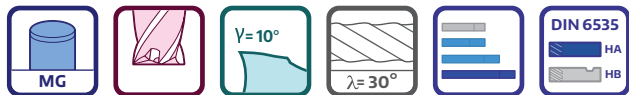
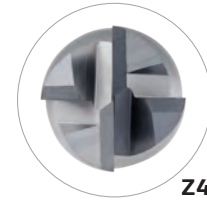
SE 30 ENDMILLS - Extra-Long

≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM SE 30 Extra-Long Fräser, 4 Zähne	Fraises 2 tailles SE 30 extra-longue- 4 dents, en carbure monobloc
Frese SE 30 extra-lunga in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 加长

SE 30



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					810 *
	D	l 1	l 2	L	d2 (h6)	B0819
= * + Ø data						
0300	3	25		100	3	•
0300 100 06	3	25		100	6	•
0400	4	31		100	4	•
0400 100 06	4	31		100	6	•
0500	5	31		100	5	•
0500 100 06	5	31		100	6	•
0600	6	38		100	6	•
0800	8	41		100	8	•
1000	10	57		125	10	•
1200	12	75		150	12	•
1400	14	75		150	14	•
1600	16	75		150	16	•
1800	18	75		150	18	•
2000	20	75		150	20	•

Material Group | Material-Gruppe | Groupe Matière | 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
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

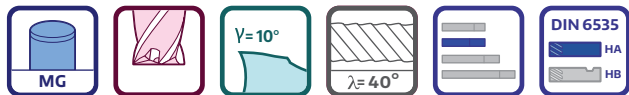
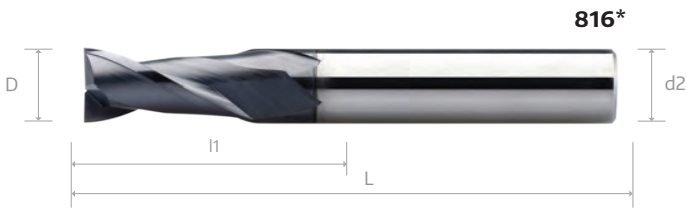
115

SE 30 STANDARD ENDMILLS

≤ 900 N/mm² + B0819 ≤ 35 HRC



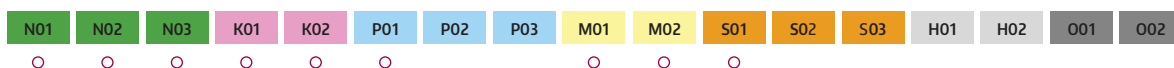
VHM SE 30 Standard Fräser, 2 Zähne	Fraises 2 tailles SE 30 standard - 2 dents, en carbure monobloc
Frese SE 30 in metallo duro integrale, 2 taglienti	整体硬质合金 SE 30 系列 立铣刀 2 刃 - 标准长度



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					816 *
	D	L1	L2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0350 050 04	3.5	12		50	4	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0450 050 05	4.5	15		50	5	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0550 050 06	5.5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0700 064 08	7	20		64	8	•
0800	8	20		64	8	•
0900 070 10	9	22		70	10	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1100 075 12	11	25		75	12	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

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

Cutting Parameter



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SE 30 STANDARD ENDMILLS

≤ 900 N/mm² + B0819 ≤ 35 HRC



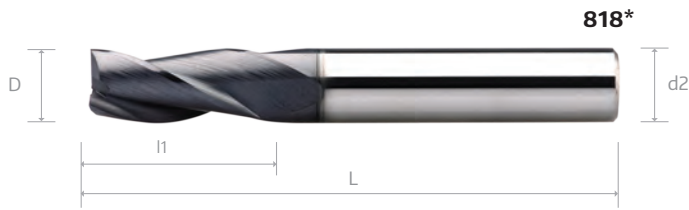
VHM SE 30 Standard Fräser, 3 Zähne

Fraises 2 tailles SE 30 standard - 3 dents, en carbure monobloc

Frese SE 30 in metallo duro integrale, 3 taglienti

整体硬质合金 SE 30 系列 立铣刀 3 刃 - 标准长

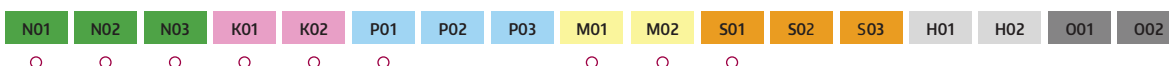
SE 30



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					818 *
	D	L1	L2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0350 050 04	3.5	12		50	4	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0450 050 05	4.5	15		50	5	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0550 050 06	5.5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0700 064 08	7	20		64	8	•
0800	8	20		64	8	•
0900 070 10	9	22		70	10	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1100 075 12	11	25		75	12	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

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

Cutting Parameter



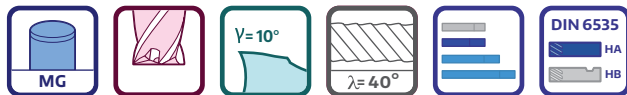
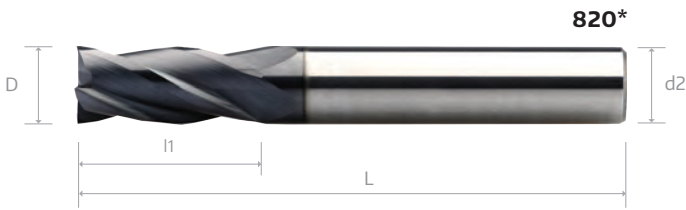
113

SE 30 STANDARD ENDMILLS

≤ 900 N/mm² + B0819 ≤ 35 HRC



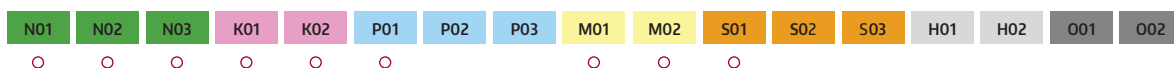
VHM SE 30 Standard Fräser, 4 Zähne	Fraises 2 tailles SE 30 standard - 4 dents, en carbure monobloc
Frese SE 30 in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 标准长度



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					820 *
	D	l1	l2	L	d2 (h6)	B0819
= * + Ø data						
0100 040 03	1	3		40	3	•
0100 040 04	1	3		40	4	•
0150 040 03	1.5	4.5		40	3	•
0150 040 04	1.5	4.5		40	4	•
0200 040 03	2	6.5		40	3	•
0200 040 04	2	6.5		40	4	•
0250 040 03	2.5	6.5		40	3	•
0250 040 04	2.5	6.5		40	4	•
0300	3	9		40	3	•
0300 050 06	3	9		50	6	•
0350 050 04	3.5	12		50	4	•
0400	4	12		50	4	•
0400 050 06	4	12		50	6	•
0450 050 05	4.5	15		50	5	•
0500	5	15		50	5	•
0500 050 06	5	15		50	6	•
0550 050 06	5.5	15		50	6	•
0600 050	6	16		50	6	•
0600 060	6	20		60	6	•
0700 064 08	7	20		64	8	•
0800	8	20		64	8	•
0900 070 10	9	22		70	10	•
1000 070	10	22		70	10	•
1000 075	10	22		75	10	•
1100 075 12	11	25		75	12	•
1200	12	25		75	12	•
1400	14	32		90	14	•
1600	16	32		90	16	•
1800	18	38		100	18	•
2000	20	38		100	20	•
2200	22	40		100	22	•
2500	25	40		100	25	•

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

Cutting Parameter



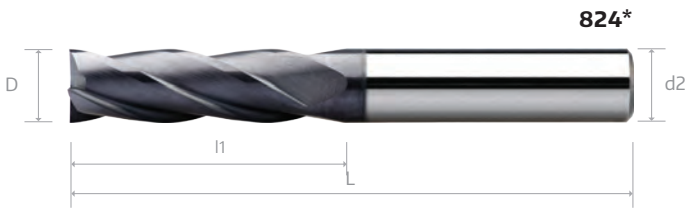
114

SE 30 ENDMILLS - Long

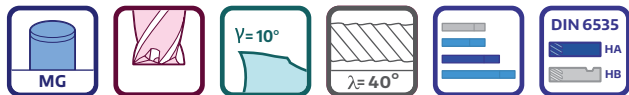
≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM Fräser SE Long, 4 Zähne	Fraises 2 tailles SE 30 Longue - 4 dents, en carbure monobloc
Frese SE 30 lang in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 中长



SE 30



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					824 *
	D	l 1	l 2	L	d2 (h6)	B0819
= * + Ø data						
0300	3	19		60	3	•
0300 060 04	3	19		60	4	•
0300 075 06	3	19		75	6	•
0400	4	19		60	4	•
0400 075 06	4	19		75	6	•
0500	5	19		60	5	•
0500 075 06	5	19		75	6	•
0600	6	31		75	6	•
0800	8	31		75	8	•
1000 075	10	31		75	10	•
1000 100	10	50		100	10	•
1200	12	50		100	12	•
1400	14	57		125	14	•
1600	16	57		125	16	•
1800	18	57		125	18	•
2000	20	57		125	20	•

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
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

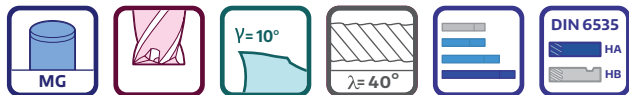
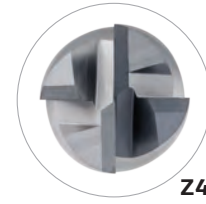
115

SE 30 ENDMILLS - Extra-Long

≤ 900 N/mm² + B0819 ≤ 35 HRC



VHM SE 30 Extra-Long Fräser, 4 Zähne	Fraises 2 tailles SE 30 Extra-Longue- 4 dents, en carbure monobloc
Frese SE 30 extra-lunga in metallo duro integrale, 4 taglienti	整体硬质合金 SE 30 系列 立铣刀 4 刃 - 加长



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					828 *
	D	l1	l2	L	d2 (h6)	B0819
= * + Ø data						
0300	3	25		100	3	•
0300 100 04	3	25		100	4	○
0300 100 06	3	25		100	6	○
0400	4	31		100	4	•
0400 100 06	4	31		100	6	○
0500	5	31		100	5	○
0500 100 06	5	31		100	6	○
0600	6	38		100	6	•
0800	8	41		100	8	•
1000	10	57		125	10	•
1200	12	75		150	12	•
1400	14	75		150	14	○
1600	16	75		150	16	○
1800	18	75		150	18	○
2000	20	75		150	20	○

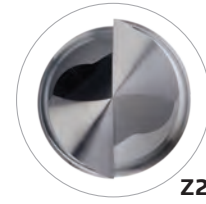
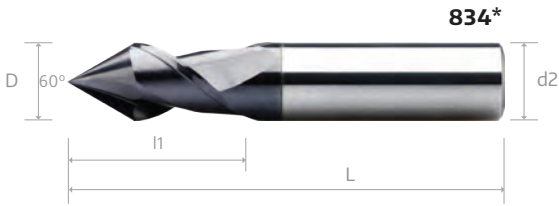
Material Group | Material-Gruppe | Groupe Matière | Gruppo Materiali | 材质主类

Cutting Parameter

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

115

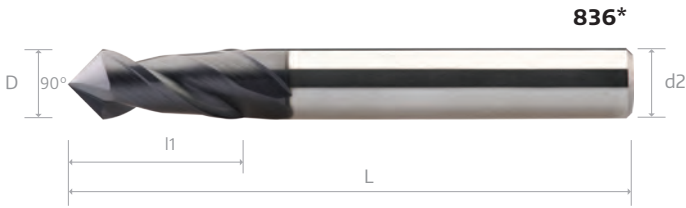
SE 30 VHM Mehrzweck-Fräser, Spitzenwinkel: 60°	Fraises SE 30 multiple usage en carbure monobloc, angle de pointe: 60° monobloc
Fresa SE 30 multiplo impiego in metallo duro integrale, angolo di punta: 60°	整体硬质合金 SE 30 系列 多功能立铣刀 2 刃 - 倒角 60°



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					834 *
	D	l1	l2	L	d2 (h6)	B0819
0300 040	3	9		40	3	•
0400 050	4	12		50	4	•
0500 050	5	15		50	5	•
0600 050	6	16		50	6	•
0800 064	8	20		64	8	•
1000 070	10	22		70	10	•
1200 075	12	25		75	12	•
1600 090	16	32		90	16	•
2000 100	20	38		100	20	•

Condition				
V-Groove	V-Nut	Rainure-V	Ranura V	V-槽
Chamfer	Senken	Chamfreiner	Svasare	倒角
Interpolation	Zirkularfräsen	Interpolation	Interpolazione	插值法
Drilling	Bohren	Percer	Forare	钻孔
Centering-Spotting	Zentrieren / Positionieren	Centrer / Positionner	Centrare / Posizionare	中心钻
Side Milling & Chamfer	Kantenbearbeitung und Senken	Usinage Latéral et Chamfreiner	Asportazione Laterale e Svasare	铣边 & 倒角

SE 30 VHM Mehrzweck-Fräser, Spitzenwinkel: 90°	Fraises SE 30 multiple usage en carbure monobloc, angle de pointe: 90° monobloc
Fresa SE 30 multiplo impiego in metallo duro integrale, angolo di punta: 90°	整体硬质合金 SE 30 系列 多功能立铣刀 2 刃 - 倒角 90°



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					836 *
	D	l1	l2	L	d2 (h6)	B0819
0300 040	3	9		40	3	•
0400 050	4	12		50	4	•
0500 050	5	15		50	5	•
0600 050	6	16		50	6	•
0800 064	8	20		64	8	•
1000 070	10	22		70	10	•
1200 075	12	25		75	12	•
1600 090	16	32		90	16	•
2000 100	20	38		100	20	•

Condition				
V-Groove	V-Nut	Rainure-V	Ranura V	V-槽
Chamfer	Senken	Chamfreiner	Svasare	倒角
Interpolation	Zirkularfräsen	Interpolation	Interpolazione	插值法
Drilling	Bohren	Percer	Forare	钻孔
Centering-Spotting	Zentrieren / Positionieren	Centrer / Positionner	Centrare / Posizionare	中心钻
Side Milling & Chamfer	Kantenbearbeitung und Senken	Usinage Latéral et Chamfreiner	Asportazione Laterale e Svasare	铣边 & 倒角

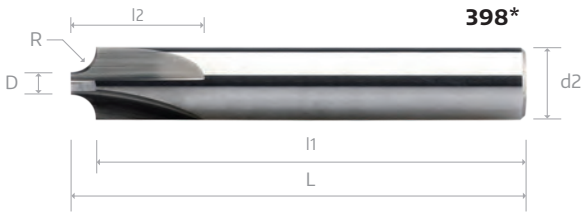
SE 30 VHM Mehrzweck-Fräser, Spitzenwinkel: 120°	Fraises SE 30 multiple usage en carbure monobloc, angle de pointe: 120° monobloc
Fresa SE 30 multiplo impiego in metallo duro integrale, angolo di punta: 120°	整体硬质合金 SE 30 系列 多功能立铣刀 2 刃 - 倒角 120°



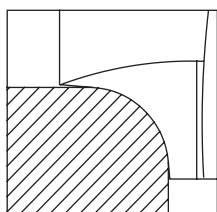
EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)					838 *
	D	l1	l2	L	d2 (h6)	B0819
0300 040	3	9		40	3	•
0400 050	4	12		50	4	•
0500 050	5	15		50	5	•
0600 050	6	16		50	6	•
0800 064	8	20		64	8	•
1000 070	10	22		70	10	•
1200 075	12	25		75	12	•
1600 090	16	32		90	16	•
2000 100	20	38		100	20	•

Condition				
V-Groove	V-Nut	Rainure-V	Ranura V	V-槽
Chamfer	Senken	Chamfreiner	Svasare	倒角
Interpolation	Zirkularfräsen	Interpolation	Interpolazione	插值法
Drilling	Bohren	Percer	Forare	钻孔
Centering-Spotting	Zentrieren / Positionieren	Centrer / Positionner	Centrare / Posizionare	中心钻
Side Milling & Chamfer	Kantenbearbeitung und Senken	Usinage Latéral et Chamfreiner	Asportazione Laterale e Svasare	铣边 & 倒角

VHM Viertelrund Profilfräser, 4 Zähne	Fraises 1/4 de cercle en carbure monobloc, 4 dents
Frese 1/4 circolare in metallo duro integrale, 4 taglienti	整体硬质合金 圆弧倒角刀 4 刃



EDP No. / EDV-Nr. / CODE usine / Codice EDP	Dimension (mm)						398 *
	D ± 0.1	R ± 0.02	l 1	l 2	L	d2 (h6)	
0025 010	1.0	0.25	49.48	7	50	3	○
0030 010	1.0	0.30	49.46	7	50	3	○
0040 010	1.0	0.40	49.36	7	50	3	○
0050 015	1.5	0.50	49.24	10	50	4	○
0060 015	1.5	0.60	49.14	10	50	4	○
0070 015	1.5	0.70	49.05	10	50	4	○
0080 015	1.5	0.80	48.96	10	50	4	○
0090 015	1.5	0.90	48.87	10	50	4	○
0100 015	1.5	1.00	48.78	10	50	4	○
0125 020	2.0	1.25	48.49	12	50	6	○
0150 020	2.0	1.50	48.26	12	50	6	○
0175 020	2.0	1.75	48.03	12	50	6	○
0200 025	2.5	2.00	47.74	14	50	8	○
0225 025	2.5	2.25	47.51	14	50	8	○
0250 025	2.5	2.50	47.28	14	50	8	○
0150 035	3.5	1.50	68.27	16	70	10	○
0200 030	3.0	2.00	67.84	16	70	10	○
0250 035	3.5	2.50	72.36	18	75	12	○
0300 030	3.0	3.00	71.92	18	75	12	○
0350 045	4.5	3.50	86.4	20	90	16	○
0400 040	4.0	4.00	85.96	20	90	16	○
0450 035	3.5	4.50	85.52	20	90	16	○
0500 030	3.0	5.00	85.09	20	90	16	○
0550 045	4.5	5.50	94.56	22	100	20	○
0600 040	4.0	6.00	94.13	22	100	20	○



These cutters are designed for CNC machines. They allow to machine even very thin materials. Easy to regrind.

Diese Profilfräser sind für den Einsatz auf CNC Maschinen und für die Bearbeitung dünner Werkstücke geeignet und leicht nachschleifbar.

Queste frese 1/4 circolare sono concepite per l'impiego su centri CNC e permettono di lavorare parti sottili. Riaffilatura facile.

Ces fraises 1/4 de cercle sont conçues pour l'emploi sur des centres CNC et permettent d'usiner des matériaux très minces. Faciles à réaffûter.

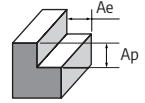
此切削刀是專為CNC加工中心設計使用可以在非常薄片工件加工容易再磨研。

Material Group | Material-Gruppe | Groupe Matière | 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
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

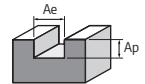
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Standard Endmills 2 Flutes

SE 30

Side milling	N		P		K				M		S	
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.85 × D		0.80 × D		0.80 × D		0.65 × D		0.70 × D		0.80 × D	
Cutting Width, Ae (mm)	0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.004	110	0.006	110	0.006	70	0.003	80	0.005	60	0.005
2		0.010		0.012		0.012		0.008		0.011		0.011
3		0.015		0.019		0.019		0.014		0.018		0.018
4		0.021		0.026		0.026		0.021		0.026		0.027
5		0.028		0.034		0.034		0.029		0.035		0.038
6		0.035		0.043		0.043		0.039		0.045		0.049
8		0.048		0.060		0.060		0.057		0.064		0.072
10		0.063		0.078		0.078		0.077		0.085		0.097
12		0.079		0.097		0.097		0.099		0.108		0.125
14		0.095		0.118		0.118		0.125		0.133		0.155
16		0.113		0.140		0.140		0.152		0.160		0.189
18		0.132		0.163		0.163		0.182		0.188		0.226
20		0.151		0.187		0.187		0.215		0.220		0.265
22		0.172		0.213		0.213		0.250		0.252		0.307
25		0.202		0.250		0.250		0.299		0.300		0.367

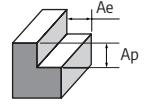


Standard Endmills 2 Flutes

Slotting	N		P		K				M		S	
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.65 × D		0.60 × D		0.60 × D		0.55 × D		0.50 × D		0.45 × D	
Cutting Width, Ae (mm)	1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.003	110	0.003	110	0.003	70	0.002	80	0.003	60	0.003
2		0.006		0.007		0.007		0.004		0.007		0.007
3		0.009		0.011		0.011		0.007		0.011		0.012
4		0.012		0.016		0.016		0.011		0.016		0.018
5		0.016		0.020		0.020		0.015		0.022		0.024
6		0.020		0.026		0.026		0.021		0.028		0.032
8		0.028		0.036		0.036		0.030		0.040		0.047
10		0.037		0.047		0.047		0.041		0.053		0.063
12		0.046		0.058		0.058		0.053		0.068		0.081
14		0.056		0.071		0.071		0.066		0.084		0.101
16		0.066		0.084		0.084		0.081		0.101		0.123
18		0.078		0.098		0.098		0.097		0.119		0.147
20		0.089		0.113		0.113		0.114		0.138		0.172
22		0.101		0.128		0.128		0.133		0.159		0.200
25		0.119		0.150		0.150		0.159		0.189		0.239



Recommended Cutting Data
 Note: These recommended cutting conditions indicate just references. It should be adjusted due to different cutting conditions.

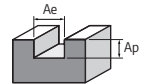


Standard Endmills 3 Flutes

Side milling	N		P		K				M		S	
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.85 × D		0.80 × D		0.80 × D		0.65 × D		0.70 × D		0.80 × D	
Cutting Width, Ae (mm)	0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.004	110	0.006	110	0.006	70	0.003	80	0.005	60	0.005
2		0.009		0.012		0.012		0.008		0.011		0.011
3		0.015		0.019		0.019		0.014		0.018		0.018
4		0.021		0.026		0.026		0.021		0.026		0.027
5		0.028		0.034		0.034		0.029		0.035		0.038
6		0.035		0.043		0.043		0.039		0.045		0.049
8		0.048		0.060		0.060		0.056		0.064		0.072
10		0.063		0.078		0.078		0.077		0.085		0.097
12		0.079		0.097		0.097		0.099		0.108		0.125
14		0.095		0.118		0.118		0.125		0.133		0.155
16		0.113		0.140		0.140		0.152		0.160		0.189
18		0.132		0.163		0.163		0.182		0.188		0.226
20		0.151		0.187		0.187		0.215		0.219		0.265
22		0.172		0.213		0.213		0.250		0.252		0.307
25		0.202		0.250		0.250		0.299		0.299		0.367

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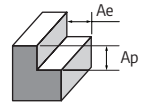
Standard Endmills 3 Flutes



Slotting	N		P		K				M		S	
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.65 × D		0.60 × D		0.60 × D		0.55 × D		0.50 × D		0.45 × D	
Cutting Width, Ae (mm)	1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.003	110	0.003	110	0.003	70	0.002	80	0.003	60	0.003
2		0.006		0.007		0.007		0.004		0.007		0.007
3		0.009		0.011		0.011		0.007		0.011		0.012
4		0.012		0.016		0.016		0.011		0.016		0.018
5		0.016		0.020		0.020		0.015		0.022		0.024
6		0.020		0.026		0.026		0.021		0.028		0.032
8		0.028		0.036		0.036		0.030		0.040		0.047
10		0.037		0.047		0.047		0.041		0.053		0.063
12		0.046		0.058		0.058		0.053		0.068		0.081
14		0.056		0.071		0.071		0.066		0.084		0.101
16		0.066		0.084		0.084		0.081		0.101		0.123
18		0.078		0.098		0.098		0.097		0.119		0.147
20		0.089		0.112		0.112		0.114		0.138		0.172
22		0.101		0.128		0.128		0.133		0.159		0.200
25		0.119		0.150		0.150		0.159		0.189		0.239



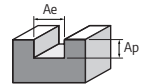
Recommended Cutting Data
 Note: These recommended cutting conditions indicate just references. It should be adjusted due to different cutting conditions.



Standard Endmills 4 Flutes

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Side milling	N		P		K				M		S					
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium					
Properties	-		-		-		-		High machinability		-					
Cutting Depth, A_p (mm)	$0.85 \times D$		$0.80 \times D$		$0.80 \times D$		$0.65 \times D$		$0.70 \times D$		$0.80 \times D$					
Cutting Width, A_e (mm)	$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$					
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)				
1	160	0.004	110	0.006	110	70	0.006	0.003	80	0.005	60	0.005				
2		0.009		0.012									0.012	0.008	0.011	0.011
3		0.015		0.019									0.019	0.014	0.018	0.018
4		0.021		0.026									0.026	0.021	0.026	0.027
5		0.028		0.034									0.034	0.029	0.035	0.038
6		0.035		0.043									0.043	0.039	0.045	0.049
8		0.048		0.060									0.060	0.056	0.064	0.072
10		0.063		0.078									0.078	0.077	0.085	0.097
12		0.079		0.097									0.097	0.099	0.108	0.125
14		0.095		0.118									0.118	0.125	0.133	0.155
16		0.113		0.140									0.140	0.152	0.160	0.189
18		0.132		0.163									0.163	0.182	0.189	0.225
20		0.151		0.187									0.187	0.215	0.219	0.265
22		0.172		0.213									0.213	0.250	0.252	0.307
25		0.202		0.250									0.250	0.299	0.299	0.367

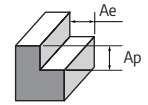


Standard Endmills 4 Flutes

Side milling	N		P		K				M		S					
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium					
Properties	-		-		-		-		High machinability		-					
Cutting Depth, A_p (mm)	$0.85 \times D$		$0.80 \times D$		$0.80 \times D$		$0.65 \times D$		$0.70 \times D$		$0.80 \times D$					
Cutting Width, A_e (mm)	$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$		$0.45 \times D$					
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)				
1	160	0.004	110	0.006	110	70	0.006	0.003	80	0.005	60	0.005				
2		0.009		0.012									0.012	0.008	0.011	0.011
3		0.015		0.019									0.019	0.014	0.018	0.018
4		0.021		0.026									0.026	0.021	0.026	0.027
5		0.028		0.034									0.034	0.029	0.035	0.038
6		0.035		0.043									0.043	0.039	0.045	0.049
8		0.048		0.060									0.060	0.056	0.064	0.072
10		0.063		0.078									0.078	0.077	0.085	0.097
12		0.079		0.097									0.097	0.099	0.108	0.125
14		0.095		0.118									0.118	0.125	0.133	0.155
16		0.113		0.140									0.140	0.152	0.160	0.189
18		0.132		0.163									0.163	0.182	0.189	0.225
20		0.151		0.187									0.187	0.215	0.219	0.265
22		0.172		0.213									0.213	0.250	0.252	0.307
25		0.202		0.250									0.250	0.299	0.299	0.367



Recommended Cutting Data
 Note: These recommended cutting conditions indicate just references. It should be adjusted due to different cutting conditions.

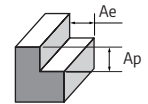


Long Endmills 4 Flutes

Slotting	N		P		K		M		S			
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.65 × D		0.60 × D		0.60 × D		0.55 × D		0.50 × D		0.45 × D	
Cutting Width, Ae (mm)	1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D		1.00 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.003	110	0.003	110	0.003	70	0.002	80	0.003	60	0.003
2		0.006		0.007		0.007		0.004		0.007		
3		0.009		0.011		0.011		0.007		0.011		
4		0.012		0.016		0.016		0.011		0.016		
5		0.016		0.020		0.020		0.015		0.022		
6		0.020		0.026		0.026		0.021		0.028		
8		0.028		0.036		0.036		0.030		0.040		
10		0.037		0.047		0.047		0.041		0.053		
12		0.046		0.058		0.058		0.053		0.068		
14		0.056		0.071		0.071		0.066		0.084		
16		0.066		0.084		0.084		0.081		0.101		
18		0.078		0.098		0.098		0.097		0.119		
20		0.089		0.112		0.112		0.114		0.138		
22		0.101		0.128		0.128		0.133		0.159		
25		0.119		0.150		0.150		0.159		0.189		

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Long Endmills 4 Flutes



Side milling	N		P		K		M		S			
Working Material	Copper Alloy		Carbon Steel		Grey Cast Iron		Ductile Cast Iron		Stainless Steel		Titanium	
Properties	-		-		-		-		High machinability		-	
Cutting Depth, Ap (mm)	0.85 × D		0.80 × D		0.80 × D		0.65 × D		0.70 × D		0.80 × D	
Cutting Width, Ae (mm)	0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D		0.45 × D	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1	160	0.004	110	0.004	110	0.004	70	0.003	80	0.004	60	0.004
2		0.008		0.009		0.009		0.006		0.009		
3		0.012		0.015		0.015		0.011		0.015		
4		0.017		0.021		0.021		0.017		0.021		
5		0.022		0.027		0.027		0.023		0.027		
6		0.028		0.034		0.034		0.031		0.036		
8		0.039		0.048		0.048		0.045		0.051		
10		0.050		0.062		0.062		0.061		0.068		
12		0.063		0.078		0.078		0.080		0.086		
14		0.076		0.094		0.094		0.100		0.106		
16		0.090		0.112		0.112		0.122		0.128		
18		0.105		0.130		0.130		0.146		0.151		
20		0.121		0.150		0.150		0.172		0.176		
22		0.138		0.170		0.170		0.200		0.202		
25		0.162		0.200		0.200		0.239		0.239		



Recommended Cutting Data
 Note: These recommended cutting conditions indicate just references. It should be adjusted due to different cutting conditions.

Multi-Purpose Endmills 2 Flutes

Chamfering	N		P		M	
Working Material	Copper Alloy		Carbon Steel		Stainless Steel	
Properties	-		-		High machinability	
Cutting Depth, A_p (mm)	-		-		-	
Cutting Width, A_e (mm)	-		-		-	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
3	225	0.004	130	0.005	80	0.004
4		0.006		0.007		0.004
5		0.009		0.009		0.006
6		0.012		0.012		0.009
8		0.015		0.016		0.012
10		0.021		0.021		0.015
12		0.025		0.025		0.018
16		0.037		0.037		0.028
20		0.049		0.046		0.037

Miniature Round Corner Milling Cutters 4 Flutes

Chamfering	N		P		M	
Working Material	Copper Alloy		Carbon Steel		Stainless Steel	
Properties	-		-		High machinability	
Cutting Depth, A_p (mm)	-		-		-	
Cutting Width, A_e (mm)	-		-		-	
D (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)	Vc (m/min)	Fz (mm)
1.0	225	0.010	130	0.005	80	0.005
1.5		0.014		0.006		0.005
2.0		0.018		0.007		0.005
2.5		0.018		0.009		0.006



Recommended Cutting Data
 Note: These recommended cutting conditions indicate just references. It should be adjusted due to different cutting conditions.