

G450 Series for Alloy Steel, up to HRC 48



- Micro grain carbide rod is suitable for general machining.
- UNICO coating provides superior wear resistance and reduces the coefficient of friction.
- Positive geometry is suitable for better shearing.
- Excellent cutting ability of cutting edges.

Appearance	Series	Code No .	Ø Range	Num. of Teeth	Helix Angle	Coating	Working Materials						Page
							P	M	K	N	S	H	

G450 Series for Alloy Steel, up to HRC 48

	Square Type - 2F 鎢鋼平銑刀 - 標準型 - 2 刃	EPSFA2, EPSSA2	Ø1~Ø25			UNICO	√	√	√					A120
	Square Type - 4F 鎢鋼平銑刀 - 標準型 - 4 刃	EPSFA4, EPSSA4	Ø1~Ø25			UNICO	√	√	√					A121
	Long Flute Square Type - 4F 鎢鋼平銑刀 - 長刃型 - 4 刃	EPSCA4	Ø3~Ø25			UNICO	√	√	√					A122
	Long Shank Square Type - 2F 鎢鋼平銑刀 - 長柄型 - 2 刃	EPSLA2, EPSMA2 EPSNA2	Ø4~Ø16			UNICO	√	√	√					A123
	Long Shank Square Type - 4F 鎢鋼平銑刀 - 長柄型 - 4 刃	EPSLA4, EPSMA4 EPSNA4	Ø4~Ø20			UNICO	√	√	√					A124

G450 - Square Type - 2F

鎢鋼平銑刀 - 標準型 - 2 刃

- UNICO Coating provides superior wear resistance and reduces the coefficient of friction.
- Suitable for HRC 20 to HRC 45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy (Si >15%).
- Excellent cutting ability of cutting edges.
- High precision cutting.
- Positive Geometry design is suitable for better shearing.

EPSFA2
EPSSA2

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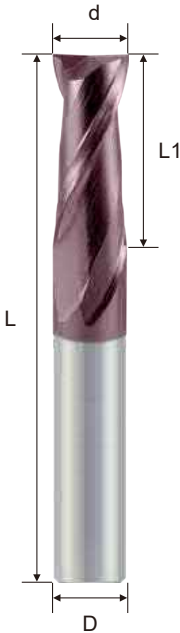
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MG

UNICO

Ø ≥ 3

Ø < 3

35

HRC 45

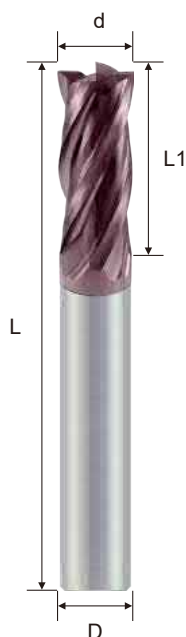
Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSFA201000U	1.0	3	50	4	2
EPSFA201500U	1.5	4	50	4	2
EPSFA202000U	2.0	5	50	4	2
EPSFA202500U	2.5	6	50	4	2
EPSFA203000U	3.0	8	50	4	2
EPSSA203000U	3.0	8	50	6	2
EPSSA203500U	3.5	9	50	6	2
EPSFA204000U	4.0	10	50	4	2
EPSSA204000U	4.0	10	50	6	2
EPSSA204500U	4.5	11	50	6	2
EPSSA205000U	5.0	13	50	6	2
EPSSA205500U	5.5	14	50	6	2
EPSSA206000U	6.0	15	50	6	2
EPSSA206500U	6.5	16	60	8	2
EPSSA207000U	7.0	18	60	8	2
EPSSA208000U	8.0	20	60	8	2
EPSSA209000U	9.0	22	75	10	2
EPSSA210000U	10.0	25	75	10	2
EPSSA212000U	12.0	30	75	12	2
EPSSA214000U	14.0	30	75	14	2
EPSSA216000U	16.0	35	100	16	2
EPSSA218000U	18.0	40	100	20	2
EPSSA220000U	20.0	45	100	20	2
EPSSA225000U	25.0	45	100	25	2

Cutting conditions (建議切削參數表) : Table 026

d	Tolerance
Ø < 3	0 ~ -0.02
3 ≤ Ø ≤ 10	0 ~ -0.03
Ø > 10	0 ~ -0.04

- ## Solid Carbide Endmills

P M K N S H



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSFA401000U	1.0	3	50	4	4
EPSFA401500U	1.5	4	50	4	4
EPSFA402000U	2.0	5	50	4	4
EPSFA402500U	2.5	6	50	4	4
EPSFA403000U	3.0	8	50	4	4
EPSSA403000U	3.0	8	50	6	4
EPSFA404000U	4.0	10	50	4	4
EPSSA404000U	4.0	10	50	6	4
EPSSA405000U	5.0	13	50	6	4
EPSSA406000U	6.0	15	50	6	4
EPSSA408000U	8.0	20	60	8	4
EPSSA410000U	10.0	25	75	10	4
EPSSA412000U	12.0	30	75	12	4
EPSSA414000U	14.0	30	75	14	4
EPSSA416000U	16.0	35	100	16	4
EPSSA420000U	20.0	45	100	20	4
EPSSA425000U	25.0	45	100	25	4

Cutting conditions (建議切削參數表) : Table 027

G450 - Long Flute Square Type - 4F

鎢鋼平銑刀 - 長刃型 - 4 刃

- UNICO Coating provides superior wear resistance and reduces the coefficient of friction.
- Suitable for HRC 20 to HRC 45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy (Si >15%).
- Excellent cutting ability of cutting edges.
- Long flutes is available in various length of cut and overall length end mills.

EPSCA4

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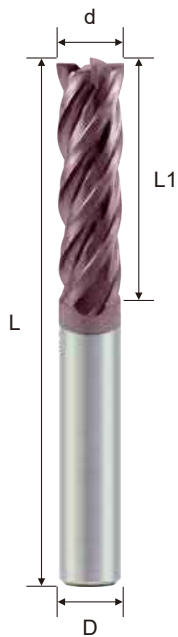
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d	Tolerance
Ø < 3	0 ~ -0.03
3 ≤ Ø ≤ 10	0 ~ -0.04
Ø > 10	0 ~ -0.05

Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSCA403000U	3.0	15	60	6	4
EPSCA404000U	4.0	20	60	6	4
EPSCA405000U	5.0	25	75	6	4
EPSCA406000U	6.0	30	75	6	4
EPSCA408000U	8.0	35	100	8	4
EPSCA410000U	10.0	45	100	10	4
EPSCA412000U	12.0	45	100	12	4
EPSCA414000U	14.0	70	150	14	4
EPSCA416000U	16.0	70	150	16	4
EPSCA420000U	20.0	75	150	20	4
EPSCA425000U	25.0	75	150	25	4

Cutting conditions (建議切削參數表) : Table 030

G450 - Long Shank Square Type - 2F

鎢鋼平銑刀 - 長柄型 - 2 刃

- UNICO Coating provides superior wear resistance and reduces the coefficient of friction.
- Suitable for HRC 20 to HRC 45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy (Si >15%).
- Excellent cutting ability of cutting edges.
- Long Shank is available in various length of cut and overall length end mills.

EPSEA2
EPSKA2
EPSLA2
EPSNA2

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Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSEA204000U	4.0	10	75	4	2
EPSKA204000U	4.0	10	100	4	2
EPSLA204000U	4.0	10	75	6	2
EPSNA204000U	4.0	10	100	6	2
EPSLA205000U	5.0	13	75	6	2
EPSNA205000U	5.0	13	100	6	2
EPSLA206000U	6.0	15	75	6	2
EPSNA206000U	6.0	15	100	6	2
EPSMA208000U	8.0	20	75	8	2
EPSLA208000U	8.0	20	100	8	2
EPSNA208000U	8.0	20	150	8	2
EPSLA210000U	10.0	25	100	10	2
EPSNA210000U	10.0	25	150	10	2
EPSLA212000U	12.0	30	100	12	2
EPSNA212000U	12.0	30	150	12	2
EPSLA216000U	16.0	40	150	16	2

Cutting conditions (建議切削參數表) : Table 031

d	Tolerance
Ø < 3	0 ~ -0.03
3 ≤ Ø ≤ 10	0 ~ -0.04
Ø > 10	0 ~ -0.05

G450 - Long Shank Square Type - 4F

鎢鋼平銑刀 - 長柄型 - 4 刃

- UNICO Coating provides superior wear resistance and reduces the coefficient of friction.
- Suitable for HRC 20 to HRC 45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy (Si >15%).
- Excellent cutting ability of cutting edges.
- Long Shank is available in various length of cut and overall length end mills.

EPSEA4
EPSKA4
EPSLA4
EPSNA4

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MG

UNICO

HRC

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d	Tolerance
Ø < 3	0 ~ -0.03
3 ≤ Ø ≤ 10	0 ~ -0.04
Ø > 10	0 ~ -0.05

Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSEA404000U	4.0	10	75	4	4
EPSKA404000U	4.0	10	100	4	4
EPSLA404000U	4.0	10	75	6	4
EPSNA404000U	4.0	10	100	6	4
EPSLA405000U	5.0	13	75	6	4
EPSNA405000U	5.0	13	100	6	4
EPSLA406000U	6.0	15	75	6	4
EPSNA406000U	6.0	15	100	6	4
EPSMA408000U	8.0	20	75	8	4
EPSLA408000U	8.0	20	100	8	4
EPSNA408000U	8.0	20	150	8	4
EPSLA410000U	10.0	25	100	10	4
EPSNA410000U	10.0	25	150	10	4
EPSLA412000U	12.0	30	100	12	4
EPSNA412000U	12.0	30	150	12	4
EPSLA416000U	16.0	40	150	16	4
EPSLA420000U	20.0	40	150	20	4

Cutting conditions (建議切削參數表) : Table 032