



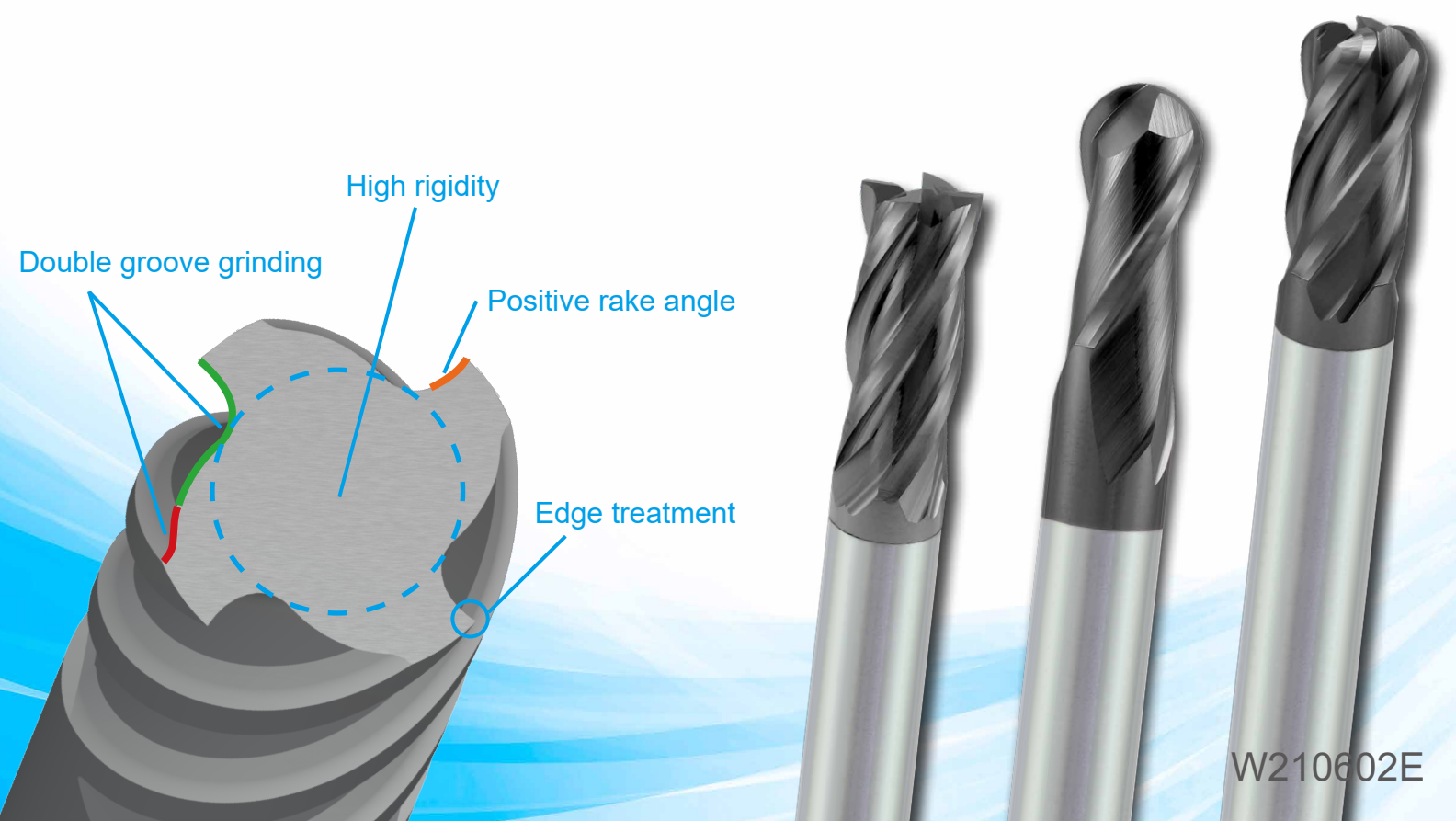
G450 Solid Carbide Endmills

General Purpose Milling for Stainless steel and Alloy steel

2021.06

- Positive rake angle to reduce cutting force.
- Sharp geometry design good for mold steel finishing.
- Cutting edge treatment good for stainless steel, alloy steel and carbon steel machining.
- TACO coating with Al, Ti, N elements provide superior wear resistance.
- Cost effective option for milling.

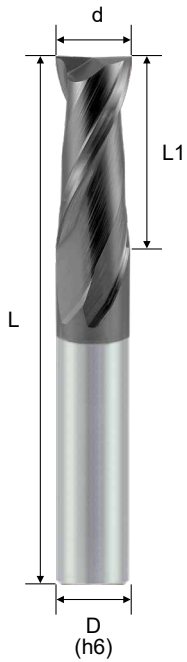
P	M	K	N	S	H
●	●	●	○		○



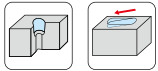
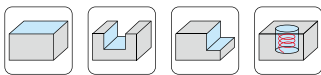
G450 - Square · 2F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPSSA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSSA241000T	1	3	50	4	2
EPSSA241500T	1.5	4	50	4	2
EPSSA242000T	2	5	50	4	2
EPSSA242500T	2.5	6	50	4	2
EPSSA243000T	3	8	50	4	2
EPSSA243500T	3.5	9	50	4	2
EPSSA244000T	4	10	50	4	2
EPSSA204500T	4.5	11	50	6	2
EPSSA205000T	5	13	50	6	2
EPSSA205500T	5.5	14	50	6	2
EPSSA206000T	6	15	50	6	2
EPSSA206500T	6.5	16	60	8	2
EPSSA207000T	7	18	60	8	2
EPSSA208000T	8	20	60	8	2
EPSSA209000T	9	22	75	10	2
EPSSA210000T	10	25	75	10	2
EPSSA212000T	12	30	75	12	2
EPSSA214000T	14	30	75	14	2
EPSSA216000T	16	40	100	16	2
EPSSA218000T	18	40	100	20	2
EPSSA220000T	20	45	100	20	2



d Tolerance	
d ≤ 12	0 ~ -0.02
d > 12	0 ~ -0.03

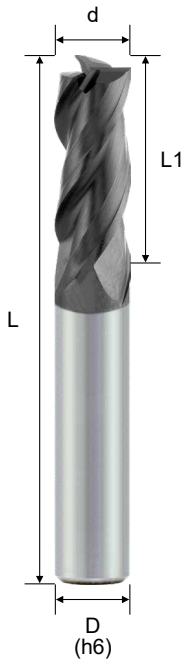
※ To choose uncoated tools for N material machining.

G450 - Square · 3F

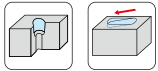
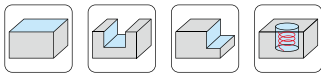
- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPSSA

P	M	K	N	S	H
●	●	●	○	○	○



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSSA344000T	4	10	50	4	3
EPSSA306000T	6	15	50	6	3
EPSSA308000T	8	20	60	8	3
EPSSA310000T	10	25	75	10	3
EPSSA312000T	12	30	75	12	3



d Tolerance	
d ≤ 12	0 ~ -0.02
d > 12	0 ~ -0.03

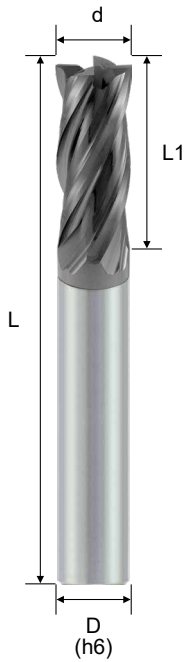


※ To choose uncoated tools for N material machining.

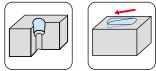
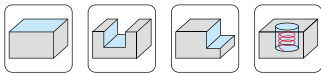
G450 - Square · 4F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPSSA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSSA441000T	1	3	50	4	4
EPSSA441500T	1.5	4	50	4	4
EPSSA442000T	2	5	50	4	4
EPSSA442500T	2.5	6	50	4	4
EPSSA443000T	3	8	50	4	4
EPSSA444000T	4	10	50	4	4
EPSSA405000T	5	13	50	6	4
EPSSA406000T	6	15	50	6	4
EPSSA408000T	8	20	60	8	4
EPSSA410000T	10	25	75	10	4
EPSSA412000T	12	30	75	12	4
EPSSA414000T	14	30	75	14	4
EPSSA416000T	16	40	100	16	4
EPSSA420000T	20	45	100	20	4



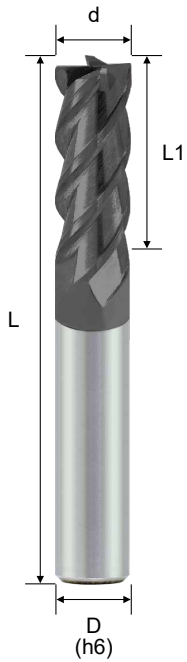
d Tolerance	
d ≤ 12	0 ~ -0.02
d > 12	0 ~ -0.03

※ To choose uncoated tools for N material machining.

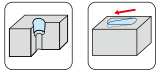
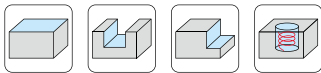
G450 - High Helix · Square · 4F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPSSB



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSSB441000T	1	3	50	4	4
EPSSB441500T	1.5	4	50	4	4
EPSSB442000T	2	5	50	4	4
EPSSB442500T	2.5	6	50	4	4
EPSSB443000T	3	8	50	4	4
EPSSB444000T	4	10	50	4	4
EPSSB405000T	5	13	50	6	4
EPSSB406000T	6	15	50	6	4
EPSSB408000T	8	20	60	8	4
EPSSB410000T	10	25	75	10	4
EPSSB412000T	12	30	75	12	4
EPSSB414000T	14	30	75	14	4
EPSSB416000T	16	40	100	16	4
EPSSB420000T	20	45	100	20	4



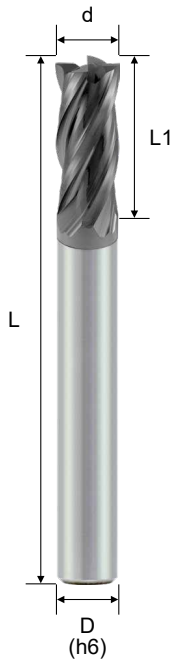
d Tolerance	
d ≤ 12	0 ~ -0.02
d > 12	0 ~ -0.03

※ To choose uncoated tools for N material machining.

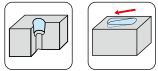
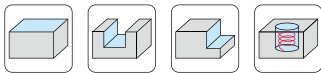
G450 - Long Shank · Square · 4F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPSLA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPSLA444007T	4	10	75	4	4
EPSLA406007T	6	15	75	6	4
EPSLA408010T	8	20	100	8	4
EPSLA410010T	10	25	100	10	4
EPSLA412010T	12	30	100	12	4



d Tolerance	
d ≤ 12	0 ~ -0.03
d > 12	0 ~ -0.04

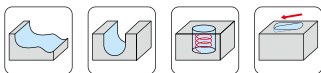
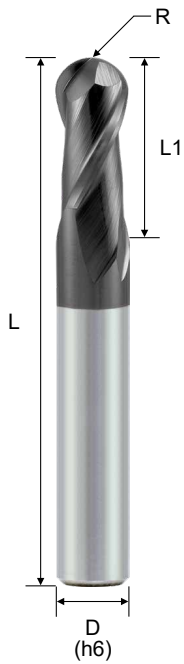


※ To choose uncoated tools for N material machining.

G450 - Ball Nose · 2F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPBSA



R Tolerance	
R ≤ 3	±0.015
R > 3	±0.020

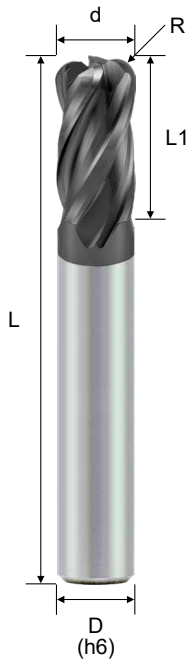
Order No.	Radius (R)	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPBSA241000T	0.5R	1	2	50	4	2
EPBSA241500T	0.75R	1.5	3	50	4	2
EPBSA242000T	1.0R	2	4	50	4	2
EPBSA242500T	1.25R	2.5	5	50	4	2
EPBSA243000T	1.5R	3	6	50	4	2
EPBSA244000T	2.0R	4	8	50	4	2
EPBSA205000T	2.5R	5	10	50	6	2
EPBSA206000T	3.0R	6	12	50	6	2
EPBSA208000T	4.0R	8	16	60	8	2
EPBSA210000T	5.0R	10	20	75	10	2
EPBSA212000T	6.0R	12	24	75	12	2

※ To choose uncoated tools for N material machining.

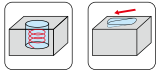
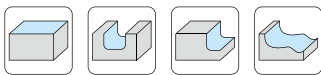
G450 - Corner Radius · 4F

- General purpose milling for Stainless Steel, Alloy Steel, Carbon Steel.
- Semi-finishing for Mold Steel.
- TACO coating with Al, Ti, N elements provide superior wear resistance.

EPCSA



Order No.	Dia. (d)	Radius (R)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
EPCSA441002T	1	0.2R	2	50	4	4
EPCSA441502T	1.5	0.2R	3	50	4	4
EPCSA442002T	2	0.2R	4	50	4	4
EPCSA443002T	3	0.2R	6	50	4	4
EPCSA443005T	3	0.5R	6	50	4	4
EPCSA444002T	4	0.2R	8	50	4	4
EPCSA444005T	4	0.5R	8	50	4	4
EPCSA406005T	6	0.5R	12	50	6	4
EPCSA406010T	6	1.0R	12	50	6	4
EPCSA408005T	8	0.5R	16	60	8	4
EPCSA408010T	8	1.0R	16	60	8	4
EPCSA410005T	10	0.5R	20	75	10	4
EPCSA410010T	10	1.0R	20	75	10	4
EPCSA412005T	12	0.5R	24	75	12	4
EPCSA412010T	12	1.0R	24	75	12	4



d Tolerance	
d ≤ 12	0 ~ -0.02
d > 12	0 ~ -0.03

R Tolerance	
R < 2	±0.015
R ≥ 2	±0.020

※ To choose uncoated tools for N material machining.