



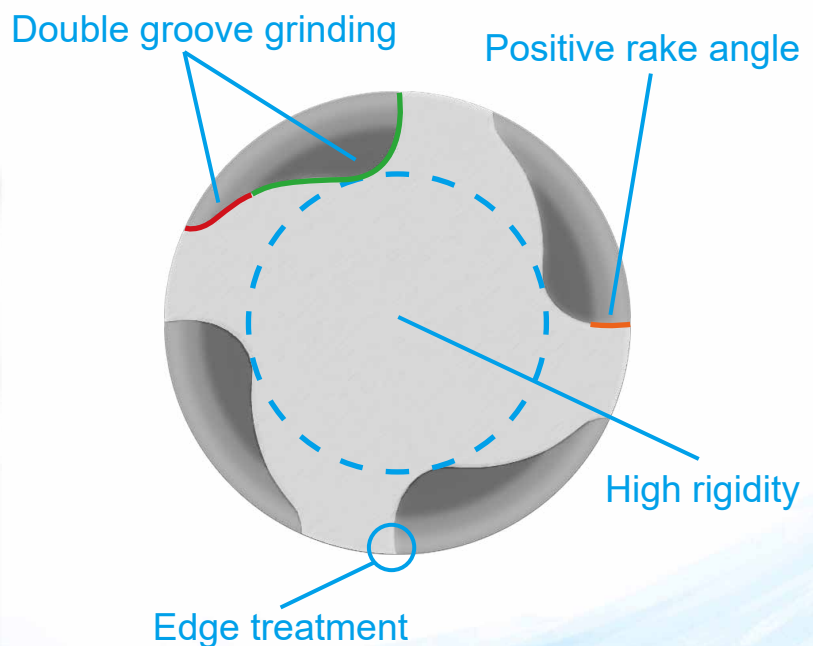
M500 Solid Carbide Endmills

High Performance Milling for Stainless and Steel

2021.06

- **Positive rake angle to reduce cutting force.**
- **High rigidity design improve milling accuracy.**
- **UMG material and edge treatment are suitable for stainless steel, alloy steel and high temperature alloy machining.**
- **ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.**

P	M	K	N	S	H
●	●	●	○	○	○

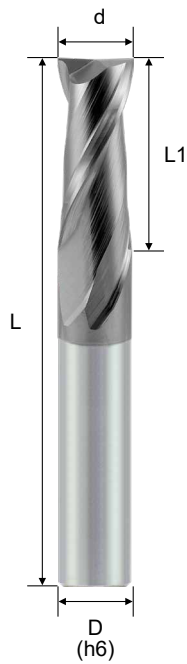


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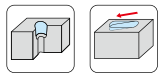
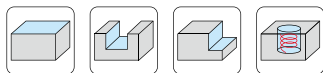
M500 - Square · 2F

- For Stainless Steel, Alloy Steel & Mold Steel... etc.
- Edge treatment and vibration reduction at high speed machining.
- ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.

ESSSA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
NEW ESSSA240500A	0.5	1	50	4	2
NEW ESSSA240800A	0.8	2	50	4	2
NEW ESSSA241000A	1	3	50	4	2
NEW ESSSA242000A	2	5	50	4	2
ESSSA243000A	3	8	50	4	2
ESSSA244000A	4	10	50	4	2
ESSSA204000A	4	10	50	6	2
ESSSA205000A	5	13	50	6	2
ESSSA206000A	6	15	50	6	2
ESSSA208000A	8	20	60	8	2
ESSSA210000A	10	25	75	10	2
ESSSA212000A	12	30	75	12	2
ESSSA214000A	14	30	75	14	2
ESSSA216000A	16	35	100	16	2

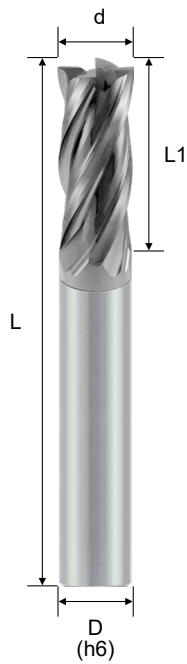


d Tolerance	
d ≤ 6	0 ~ -0.02
6 < d ≤ 12	0 ~ -0.03
d > 12	0 ~ -0.04

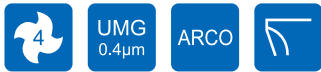
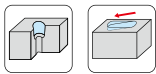
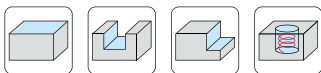
M500 - Square · 4F

- For Stainless Steel, Alloy Steel & Mold Steel... etc.
- Edge treatment and vibration reduction at high speed machining.
- ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.

ESSSA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
ESSSA441000A	1	3	50	4	4
ESSSA441500A	1.5	4	50	4	4
ESSSA442000A	2	5	50	4	4
ESSSA442500A	2.5	6	50	4	4
ESSSA443000A	3	8	50	4	4
ESSSA443500A	3.5	9	50	4	4
ESSSA444000A	4	10	50	4	4
ESSSA404000A	4	10	50	6	4
ESSSA405000A	5	13	50	6	4
ESSSA406000A	6	15	50	6	4
ESSSA408000A	8	20	60	8	4
ESSSA410000A	10	25	75	10	4
ESSSA412000A	12	30	75	12	4
ESSSA414000A	14	30	75	14	4



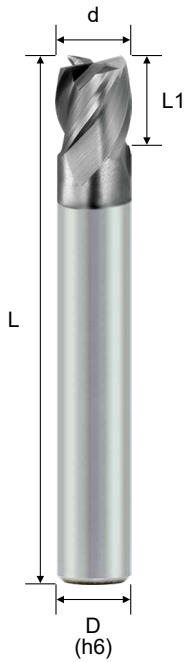
d Tolerance	
d ≤ 6	0 ~ -0.02
6 < d ≤ 12	0 ~ -0.03
d > 12	0 ~ -0.04

M500 - Short Flute · Square · 4F

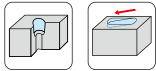
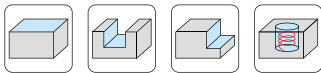
- For Stainless Steel, Alloy Steel & Mold Steel... etc.
- Edge treatment and vibration reduction at high speed machining.
- ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.

NEW

ESSHA



Order No.	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
ESSHA443000A	3	3	50	4	4
ESSHA444000A	4	4	50	4	4
ESSHA404000A	4	4	50	6	4
ESSHA405000A	5	5	50	6	4
ESSHA406000A	6	7	50	6	4
ESSHA408000A	8	9	60	8	4
ESSHA410000A	10	11	75	10	4
ESSHA412000A	12	13	75	12	4
ESSHA414000A	14	15	75	14	4
ESSHA416000A	16	17	100	16	4

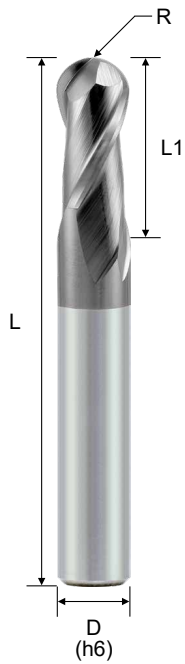


d Tolerance	
d ≤ 6	0 ~ -0.02
6 < d ≤ 12	0 ~ -0.03
d > 12	0 ~ -0.04

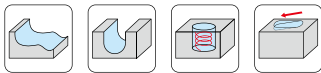
M500 - Ball Nose · 2F

- For Stainless Steel, Alloy Steel & Mold Steel... etc.
- Edge treatment and vibration reduction at high speed machining, suitable for high performance profile milling.
- New ball nose geometry increases tool life and decreased cutting force.
- ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.

ESBSA



Order No.	Radius (R)	Dia. (d)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
ESBSA240500A	0.25R	0.5	1	50	4	2
ESBSA241000A	0.5R	1	2	50	4	2
NEW ESBSA241500A	0.75R	1.5	3	50	4	2
ESBSA242000A	1.0R	2	4	50	4	2
NEW ESBSA242500A	1.25R	2.5	5	50	4	2
ESBSA243000A	1.5R	3	6	50	4	2
ESBSA244000A	2.0R	4	8	50	4	2
ESBSA204000A	2.0R	4	8	50	6	2
ESBSA205000A	2.5R	5	10	50	6	2
ESBSA206000A	3.0R	6	12	50	6	2
ESBSA208000A	4.0R	8	16	60	8	2
ESBSA210000A	5.0R	10	20	75	10	2
ESBSA212000A	6.0R	12	24	75	12	2
ESBSA216000A	8.0R	16	32	100	16	2

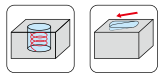
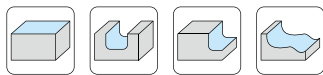
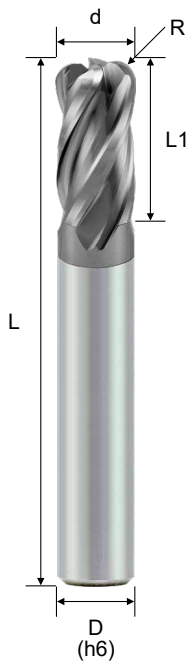


R Tolerance	
R ≤ 3	±0.015
R > 3	±0.020

M500 - Corner Radius · 4F

- For Stainless Steel, Alloy Steel & Mold Steel... etc.
- Edge treatment and vibration reduction at high speed machining.
- Corner geometry and stronger design makes it suitable for cutting stainless steel.
- ARCO coating with Al, Cr, Ti, N elements provides a superior wear resistance.

ESCSA



Order No.	Dia. (d)	Radius (R)	CL (L1)	OAL (L)	Shank (D)	Flutes (F)
NEW ESCSA441002A	1	0.2R	2	50	4	4
NEW ESCSA441502A	1.5	0.2R	3	50	4	4
NEW ESCSA442002A	2	0.2R	4	50	4	4
NEW ESCSA443002A	3	0.2R	6	50	4	4
NEW ESCSA443003A	3	0.3R	6	50	4	4
ESCSA403003A	3	0.3R	6	50	6	4
NEW ESCSA443005A	3	0.5R	6	50	4	4
ESCSA403005A	3	0.5R	6	50	6	4
ESCSA403010A	3	1.0R	6	50	6	4
NEW ESCSA444002A	4	0.2R	8	50	4	4
ESCSA404003A	4	0.3R	8	50	6	4
NEW ESCSA444005A	4	0.5R	8	50	4	4
ESCSA404005A	4	0.5R	8	50	6	4
ESCSA404010A	4	1.0R	8	50	6	4
ESCSA405003A	5	0.3R	10	50	6	4
ESCSA405005A	5	0.5R	10	50	6	4
ESCSA406003A	6	0.3R	12	50	6	4
ESCSA406005A	6	0.5R	12	50	6	4
ESCSA406010A	6	1.0R	12	50	6	4
ESCSA408005A	8	0.5R	16	60	8	4
ESCSA408010A	8	1.0R	16	60	8	4
ESCSA408015A	8	1.5R	16	60	8	4
ESCSA410005A	10	0.5R	20	75	10	4
ESCSA410010A	10	1.0R	20	75	10	4
ESCSA410015A	10	1.5R	20	75	10	4
ESCSA410020A	10	2.0R	20	75	10	4
ESCSA412005A	12	0.5R	24	75	12	4
ESCSA412010A	12	1.0R	24	75	12	4
ESCSA412015A	12	1.5R	24	75	12	4
ESCSA412020A	12	2.0R	24	75	12	4
ESCSA412030A	12	3.0R	24	75	12	4

d Tolerance	
d ≤ 6	0 ~ -0.02
6 < d ≤ 12	0 ~ -0.03
d > 12	0 ~ -0.04

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

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