

A Star Series

Solid Carbide End Mills For Aluminum



A Star Series

A Star Series, are the most advanced products, used for the machining of Aluminum material with silicon % 12 or below and offering high performance, without compromising finish on the component. This is only possible due to our **NAS** technology and mirror polish on flutes.

| ISO code | USA code | Grain Size | Cobalt Percentage | | Density | Hardness | | |
|----------|----------|-------------|-------------------|-------|---------|----------|------|------|
| | | | | Co(%) | | HV10 | HV30 | HRA |
| K20-K40 | C-2 | 0.6 μ m | | 10.0 | 14.45 | 1680 | 1660 | 92.3 |

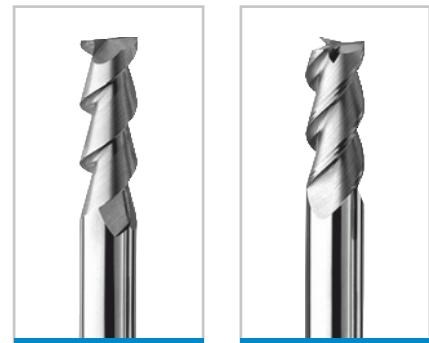
A Star 45°

End Mills For Aluminum - Regular Series

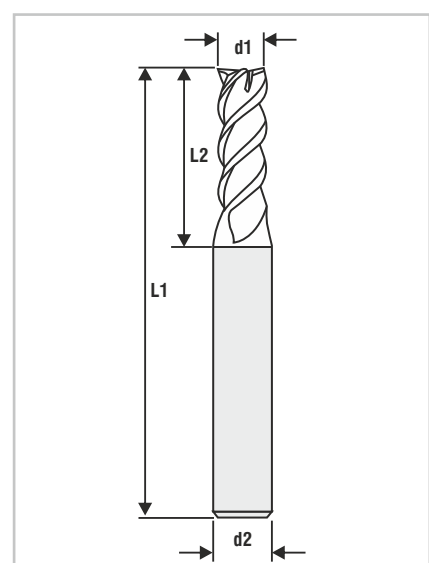
| Article No. | | Dimension (mm) | | | | | | Uncoated |
|----------------|----------------|----------------|------------|----|-----|------------|--------------------------|----------|
| 2 Flute 45° | 3 Flute 45° | Ø d1 h10 | Ø d2 h6 | L2 | L1 | Helix α | | |
| A4-SEM 2010 | A4-SEM 3010 | 1 | 4 | 3 | 50 | 45° | <input type="checkbox"/> | |
| A4-SEM 2020 | A4-SEM 3020 | 2 | 4 | 6 | 50 | 45° | <input type="checkbox"/> | |
| A4-SEM 2030 | A4-SEM 3030 | 3 | 4 | 9 | 50 | 45° | <input type="checkbox"/> | |
| A4-SEM 2040 | A4-SEM 3040 | 4 | 4 | 12 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2010 | A6-SEM 3010 | 1 | 6 | 3 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2020 | A6-SEM 3020 | 2 | 6 | 6 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2030 | A6-SEM 3030 | 3 | 6 | 9 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2040 | A6-SEM 3040 | 4 | 6 | 12 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2050 | A6-SEM 3050 | 5 | 6 | 15 | 50 | 45° | <input type="checkbox"/> | |
| A6-SEM 2060 | A6-SEM 3060 | 6 | 6 | 18 | 50 | 45° | <input type="checkbox"/> | |
| A8-SEM 2080 | A8-SEM 3080 | 8 | 8 | 24 | 60 | 45° | <input type="checkbox"/> | |
| A10-SEM 2100 | A10-SEM 3100 | 10 | 10 | 30 | 75 | 45° | <input type="checkbox"/> | |
| A12-SEM 2120 | A12-SEM 3120 | 12 | 12 | 30 | 75 | 45° | <input type="checkbox"/> | |
| A16-SEM 2160 | A16-SEM 3160 | 16 | 16 | 45 | 100 | 45° | <input type="checkbox"/> | |
| A20-SEM 2200 | A20-SEM 3200 | 20 | 20 | 45 | 100 | 45° | <input type="checkbox"/> | |
| A25-SEM 2250 | A25-SEM 3250 | 25 | 25 | 45 | 100 | 45° | <input type="checkbox"/> | |

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Available ex stock / subject to prior sale
MG - Micron Grade
 Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030**



| | | |
|---|---------------------------|-------------------------------------|
| N | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| | Al cast alloys | <input type="checkbox"/> |
| | Copper | <input checked="" type="checkbox"/> |
| | Brass, Bronze | <input checked="" type="checkbox"/> |
| | Magnesium alloys | <input type="checkbox"/> |
| | Plastics | <input checked="" type="checkbox"/> |
| | | |



| Tolerance | |
|------------|-----------|
| Diameter | Range |
| 1d < 8 | 0 / -0.02 |
| 8 ≤ d < 18 | 0 / -0.03 |
| 20 ≤ d | 0 / -0.04 |

A
STAR
Series

FLAT
End Mills

A Star 55°
End Mills For Aluminum - Regular Series


| Article No. | Dimension (mm) | | | | | | |
|--------------|----------------|-------------|------------|----|-----|------------|--------------------------|
| | 3 Flute 55° | ∅ d1 h10 | ∅ d2 h6 | L2 | L1 | Helix α | Uncoated |
| A4-SEM 3010 | | 1 | 4 | 3 | 50 | 55° | <input type="checkbox"/> |
| A4-SEM 3020 | | 2 | 4 | 6 | 50 | 55° | <input type="checkbox"/> |
| A4-SEM 3030 | | 3 | 4 | 9 | 50 | 55° | <input type="checkbox"/> |
| A4-SEM 3040 | | 4 | 4 | 12 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3010 | | 1 | 6 | 3 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3020 | | 2 | 6 | 6 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3030 | | 3 | 6 | 9 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3040 | | 4 | 6 | 12 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3050 | | 5 | 6 | 15 | 50 | 55° | <input type="checkbox"/> |
| A6-SEM 3060 | | 6 | 6 | 18 | 50 | 55° | <input type="checkbox"/> |
| A8-SEM 3080 | | 8 | 8 | 24 | 60 | 55° | <input type="checkbox"/> |
| A10-SEM 3100 | | 10 | 10 | 30 | 75 | 55° | <input type="checkbox"/> |
| A12-SEM 3120 | | 12 | 12 | 30 | 75 | 55° | <input type="checkbox"/> |
| A16-SEM 3160 | | 16 | 16 | 45 | 100 | 55° | <input type="checkbox"/> |
| A20-SEM 3200 | | 20 | 20 | 45 | 100 | 55° | <input type="checkbox"/> |
| A25-SEM 3250 | | 25 | 25 | 45 | 100 | 55° | <input type="checkbox"/> |

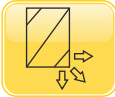
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Available ex stock / subject to prior sale
MG - Micron Grade
 Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030**

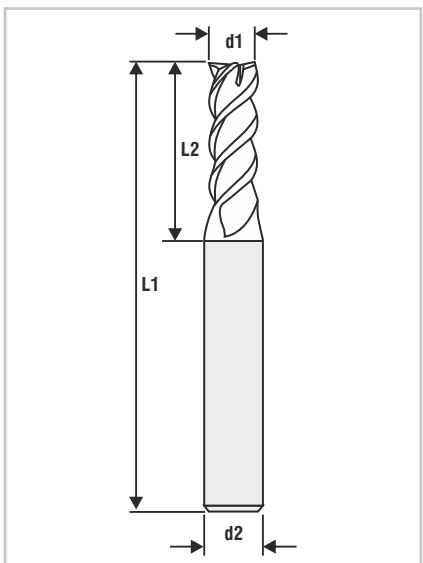


| | | | |
|---|---------------------------|-------------------------------------|--|
| N | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> | |
| | Al cast alloys | <input type="checkbox"/> | |
| | Copper | <input checked="" type="checkbox"/> | |
| | Brass, Bronze | <input checked="" type="checkbox"/> | |
| | Magnesium alloys | <input type="checkbox"/> | |
| | Plastics | <input checked="" type="checkbox"/> | |
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 **UC MIRROR POLISHED**

 **λ 55°**

 **MG 0.6µm**



Tolerance

| Diameter | Range |
|------------|-----------|
| 1d < 8 | 0 / -0.02 |
| 8 ≤ d < 18 | 0 / -0.03 |
| 20 ≤ d | 0 / -0.04 |

A STAR Series

FLAT End Mills

A Star 45° LF

End Mills For Aluminum - Long Flute Series

| Article No. | Dimension (mm) | | | | | | Uncoated |
|-----------------|----------------|-------------|------------|----|-----|-------------------|--------------------------|
| | 3 Flute 45° | Ø d1 h10 | Ø d2 h6 | L2 | L1 | Helix α | |
| A4-SEM 3030 LF | | 3 | 4 | 15 | 75 | 45° | <input type="checkbox"/> |
| A4-SEM 3040 LF | | 4 | 4 | 20 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3030 LF | | 3 | 6 | 15 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3040 LF | | 4 | 6 | 20 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3050 LF | | 5 | 6 | 25 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3060 LF | | 6 | 6 | 30 | 75 | 45° | <input type="checkbox"/> |
| A8-SEM 3080 LF | | 8 | 8 | 40 | 100 | 45° | <input type="checkbox"/> |
| A10-SEM 3100 LF | | 10 | 10 | 45 | 100 | 45° | <input type="checkbox"/> |
| A12-SEM 3120 LF | | 12 | 12 | 50 | 100 | 45° | <input type="checkbox"/> |
| A16-SEM 3160 LF | | 16 | 16 | 80 | 150 | 45° | <input type="checkbox"/> |
| A20-SEM 3200 LF | | 20 | 20 | 80 | 150 | 45° | <input type="checkbox"/> |

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Available ex stock / subject to prior sale
MG - Micron Grade
 Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030 L -45°**



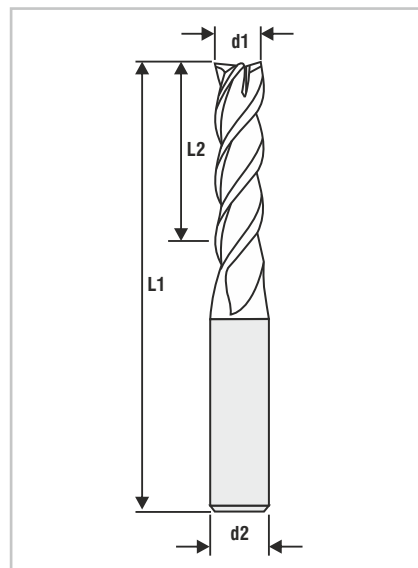
| | | |
|---|---------------------------|-------------------------------------|
| Z | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| | Al cast alloys | <input type="checkbox"/> |
| | Copper | <input checked="" type="checkbox"/> |
| | Brass, Bronze | <input checked="" type="checkbox"/> |
| | Magnesium alloys | <input type="checkbox"/> |
| | Plastics | <input checked="" type="checkbox"/> |
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Tolerance

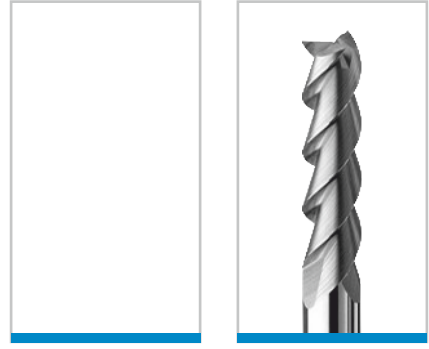
| Diameter | Range |
|------------|-----------|
| 1d < 8 | 0 / -0.02 |
| 8 ≤ d < 18 | 0 / -0.03 |
| 20 ≤ d | 0 / -0.04 |

A STAR Series

FLAT End Mills

A star 55° LF

End Mills For Aluminum - Long Flute Series



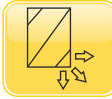
| Article No. | Dimension (mm) | | | | | | Uncoated |
|-----------------|----------------|-------------|------------|----|-----|-------------------|--------------------------|
| | 3 Flute 55° | Ø d1 h10 | Ø d2 h6 | L2 | L1 | Helix α | |
| A4-SEM 3030 LF | | 3 | 4 | 15 | 75 | 55° | <input type="checkbox"/> |
| A4-SEM 3040 LF | | 4 | 4 | 20 | 75 | 55° | <input type="checkbox"/> |
| A6-SEM 3030 LF | | 3 | 6 | 15 | 75 | 55° | <input type="checkbox"/> |
| A6-SEM 3040 LF | | 4 | 6 | 20 | 75 | 55° | <input type="checkbox"/> |
| A6-SEM 3050 LF | | 5 | 6 | 25 | 75 | 55° | <input type="checkbox"/> |
| A6-SEM 3060 LF | | 6 | 6 | 30 | 75 | 55° | <input type="checkbox"/> |
| A8-SEM 3080 LF | | 8 | 8 | 40 | 100 | 55° | <input type="checkbox"/> |
| A10-SEM 3100 LF | | 10 | 10 | 45 | 100 | 55° | <input type="checkbox"/> |
| A12-SEM 3120 LF | | 12 | 12 | 50 | 100 | 55° | <input type="checkbox"/> |
| A16-SEM 3160 LF | | 16 | 16 | 80 | 150 | 55° | <input type="checkbox"/> |
| A20-SEM 3200 LF | | 20 | 20 | 80 | 150 | 55° | <input type="checkbox"/> |

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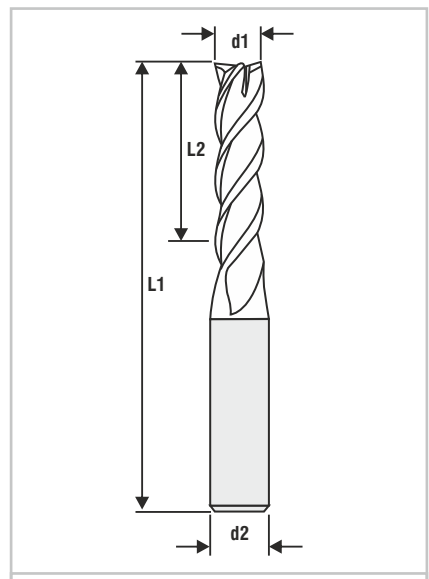
| | | | |
|---|---------------------------|---|--|
| Z | Aluminum alloy upto 3% Si | ■ | |
| | Al cast alloys | □ | |
| | Copper | ■ | |
| | Brass, Bronze | ■ | |
| | Magnesium alloys | □ | |
| | Plastics | ■ | |
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**LF
SERIES**


**UC
MIRROR
POLISHED**


 λ 55°


**MG
0.6µm**



| Tolerance | |
|-----------|-----------|
| Diameter | Range |
| 1d<8 | 0 / -0.02 |
| 8≤d<18 | 0 / -0.03 |
| 20≤d | 0 / -0.04 |

Available ex stock / subject to prior sale
MG - Micron Grade
 Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030 L -55°**

A
STAR
Series

FLAT
End Mills

A Star 45° LS
End Mills For Aluminum - Long Shank Series

| Article No. | Dimension (mm) | | | | | | Uncoated |
|-------------------|----------------|-------------|------------|----|-----|------------|--------------------------|
| | 3 Flute 45° | ∅ d1 h10 | ∅ d2 h6 | L2 | L1 | Helix α | |
| A4-SEM 3030 LS | | 3 | 4 | 9 | 75 | 45° | <input type="checkbox"/> |
| A4-SEM 3040 LS | | 4 | 4 | 12 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3030 LS | | 3 | 6 | 9 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3040 LS | | 4 | 6 | 12 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3050 LS | | 5 | 6 | 15 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3060 LS 75 | | 6 | 6 | 18 | 75 | 45° | <input type="checkbox"/> |
| A6-SEM 3060 LS100 | | 6 | 6 | 18 | 100 | 45° | <input type="checkbox"/> |
| A8-SEM 3080 LS | | 8 | 8 | 24 | 100 | 45° | <input type="checkbox"/> |
| A10-SEM 3100 LS | | 10 | 10 | 30 | 100 | 45° | <input type="checkbox"/> |
| A12-SEM 3120 LS | | 12 | 12 | 36 | 100 | 45° | <input type="checkbox"/> |
| A16-SEM 3160 LS | | 16 | 16 | 48 | 150 | 45° | <input type="checkbox"/> |
| A20-SEM 3200 LS | | 20 | 20 | 60 | 150 | 45° | <input type="checkbox"/> |

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Available ex stock / subject to prior sale
MG - Micron Grade
Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030 L -45°**



| | | |
|----------|---------------------------|-------------------------------------|
| Z | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| | Al cast alloys | <input type="checkbox"/> |
| | Copper | <input checked="" type="checkbox"/> |
| | Brass, Bronze | <input checked="" type="checkbox"/> |
| | Magnesium alloys | <input type="checkbox"/> |
| | Plastics | <input checked="" type="checkbox"/> |
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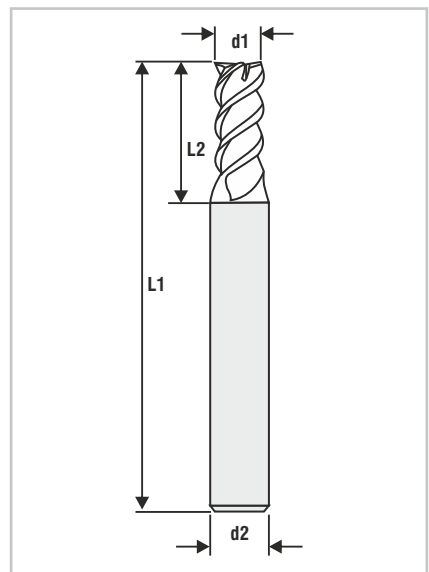
LS
SERIES

UC
MIRROR
POLISHED



λ 45°

MG
0.6μm



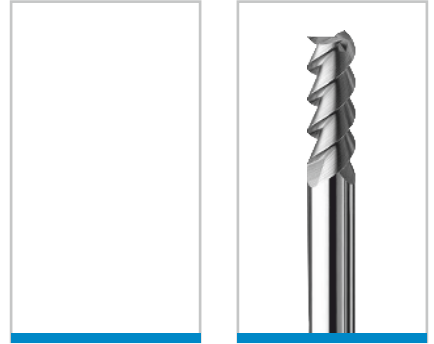
| Tolerance | |
|-----------|-----------|
| Diameter | Range |
| 1d<8 | 0 / -0.02 |
| 8≤d<18 | 0 / -0.03 |
| 20≤d | 0 / -0.04 |

A
STAR
Series

FLAT
End Mills

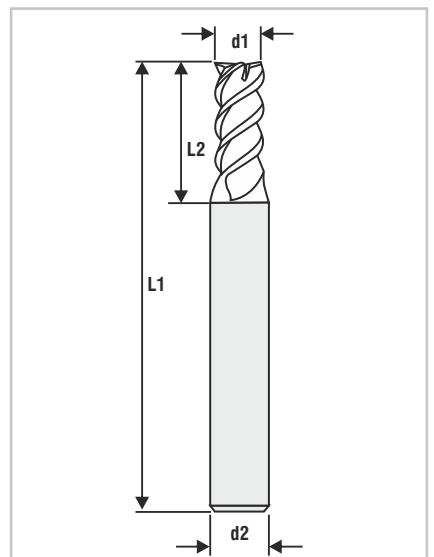
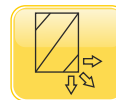
A star 55° LS

End Mills For Aluminum - Long Shank Series



| Article No. | Dimension (mm) | | | | | | Uncoated |
|-------------------|----------------|------------|----|-----|-------------------|--------------------------|----------|
| 3 Flute 55° | ∅ d1 h10 | ∅ d2 h6 | L2 | L1 | Helix <i>α</i> | Uncoated | |
| A4-SEM 3030 LS | 3 | 4 | 9 | 75 | 55° | <input type="checkbox"/> | |
| A4-SEM 3040 LS | 4 | 4 | 12 | 75 | 55° | <input type="checkbox"/> | |
| A6-SEM 3030 LS | 3 | 6 | 9 | 75 | 55° | <input type="checkbox"/> | |
| A6-SEM 3040 LS | 4 | 6 | 12 | 75 | 55° | <input type="checkbox"/> | |
| A6-SEM 3050 LS | 5 | 6 | 15 | 75 | 55° | <input type="checkbox"/> | |
| A6-SEM 3060 LS 75 | 6 | 6 | 18 | 75 | 55° | <input type="checkbox"/> | |
| A6-SEM 3060 LS100 | 6 | 6 | 18 | 100 | 55° | <input type="checkbox"/> | |
| A8-SEM 3080 LS | 8 | 8 | 24 | 100 | 55° | <input type="checkbox"/> | |
| A10-SEM 3100 LS | 10 | 10 | 30 | 100 | 55° | <input type="checkbox"/> | |
| A12-SEM 3120 LS | 12 | 12 | 36 | 100 | 55° | <input type="checkbox"/> | |
| A16-SEM 3160 LS | 16 | 16 | 48 | 150 | 55° | <input type="checkbox"/> | |
| A20-SEM 3200 LS | 20 | 20 | 60 | 150 | 55° | <input type="checkbox"/> | |

| | | |
|---|---------------------------|-------------------------------------|
| Z | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| | Al cast alloys | <input type="checkbox"/> |
| | Copper | <input checked="" type="checkbox"/> |
| | Brass, Bronze | <input checked="" type="checkbox"/> |
| | Magnesium alloys | <input type="checkbox"/> |
| | Plastics | <input checked="" type="checkbox"/> |
| | | |
| | | |



| Tolerance | |
|-----------|-----------|
| Diameter | Range |
| 1d<8 | 0 / -0.02 |
| 8≤d<18 | 0 / -0.03 |
| 20≤d | 0 / -0.04 |

Available ex stock / subject to prior sale
MG - Micron Grade
 Delivery time on request - mention coated in the article no. eg. **A6-SEM 3030 L -55°**

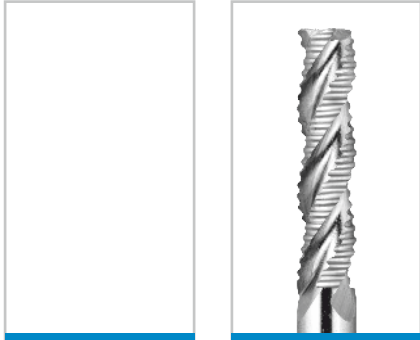
A- Star Hulk Roughing Endmills

For Aluminum grade machining

| Article No. | Dimension (mm) | | | | | Uncoated |
|--------------|-------------------------|------------------------|----|-----|--------------------------|----------|
| 3 Flute | \varnothing d1 h10 | \varnothing d2 h6 | L2 | L1 | | |
| ARF-SEM 3060 | 6 | 6 | 18 | 50 | <input type="checkbox"/> | |
| ARF-SEM 3080 | 8 | 8 | 24 | 60 | <input type="checkbox"/> | |
| ARF-SEM 3100 | 10 | 10 | 30 | 75 | <input type="checkbox"/> | |
| ARF-SEM 3120 | 12 | 12 | 30 | 75 | <input type="checkbox"/> | |
| ARF-SEM 3160 | 16 | 16 | 45 | 100 | <input type="checkbox"/> | |
| ARF-SEM 3200 | 20 | 20 | 45 | 100 | <input type="checkbox"/> | |
| ARF-SEM 3250 | 25 | 25 | 45 | 100 | <input type="checkbox"/> | |

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Available ex stock / subject to prior sale
MG - Micron Grade



| | | |
|---|---------------------------|-------------------------------------|
| N | Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| | Al cast alloys | <input type="checkbox"/> |
| | Copper | <input checked="" type="checkbox"/> |
| | Brass, Bronze | <input checked="" type="checkbox"/> |
| | Magnesium alloys | <input type="checkbox"/> |
| | Plastics | <input checked="" type="checkbox"/> |
| | | |

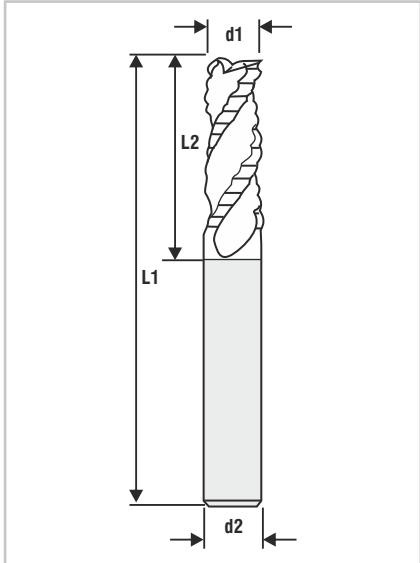
A
STAR
Series

COARSE
PITCH

UC
MIRROR
POLISHED

λ 45°

MG
0.6μm

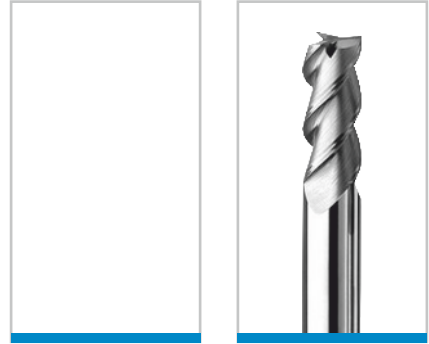


| Tolerance | |
|-----------|-----------|
| Diameter | Range |
| 1d<8 | 0 / -0.02 |
| 8≤d<18 | 0 / -0.03 |
| 25≤d | 0 / -0.04 |


FLAT
End Mills

AHC- Star Heavy Cutting Endmills

For Aluminum grade machining & Soft material




| Material | Compatibility |
|---------------------------|-------------------------------------|
| Aluminum alloy upto 3% Si | <input checked="" type="checkbox"/> |
| Al cast alloys | <input type="checkbox"/> |
| Copper | <input checked="" type="checkbox"/> |
| Brass, Bronze | <input checked="" type="checkbox"/> |
| Magnesium alloys | <input type="checkbox"/> |
| Plastics | <input checked="" type="checkbox"/> |
| | |
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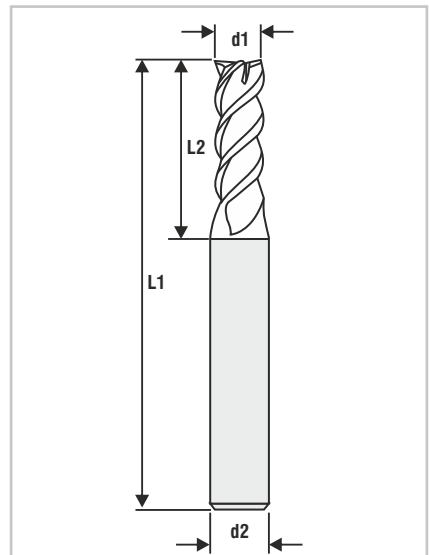
HEAVY CUTTING

UC MIRROR POLISHED



λ 45°

MG 0.6µm



| Tolerance | |
|-----------|-----------|
| Diameter | Range |
| 1d<8 | 0 / -0.02 |
| 8≤d<18 | 0 / -0.03 |
| 25≤d | 0 / -0.04 |

| Article No. | Dimension (mm) | | | | | Uncoated |
|--------------|----------------|-------------|------------|----|-----|--------------------------|
| | 3 Flute | Ø d1 h10 | Ø d2 h6 | L2 | L1 | |
| AHC-SEM 3010 | | 1 | 6 | 3 | 50 | <input type="checkbox"/> |
| AHC-SEM 3020 | | 2 | 6 | 6 | 50 | <input type="checkbox"/> |
| AHC-SEM 3030 | | 3 | 6 | 9 | 50 | <input type="checkbox"/> |
| AHC-SEM 3040 | | 4 | 6 | 12 | 50 | <input type="checkbox"/> |
| AHC-SEM 3050 | | 5 | 6 | 15 | 50 | <input type="checkbox"/> |
| AHC-SEM 3060 | | 6 | 6 | 18 | 50 | <input type="checkbox"/> |
| AHC-SEM 3080 | | 8 | 8 | 24 | 60 | <input type="checkbox"/> |
| AHC-SEM 3100 | | 10 | 10 | 30 | 75 | <input type="checkbox"/> |
| AHC-SEM 3120 | | 12 | 12 | 30 | 75 | <input type="checkbox"/> |
| AHC-SEM 3160 | | 16 | 16 | 45 | 100 | <input type="checkbox"/> |
| AHC-SEM 3200 | | 20 | 20 | 45 | 100 | <input type="checkbox"/> |
| AHC-SEM 3250 | | 25 | 25 | 45 | 100 | <input type="checkbox"/> |

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Available ex stock / subject to prior sale
MG - Micron Grade

A
STAR
Series

FLAT
End Mills