

## General Use End Mill

End mill for difficult-to-cut materials, cast iron, and steel machining

→ L10~L24

### Finishing

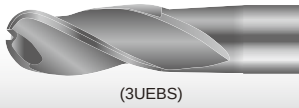
MEGACOAT is applied



F Series

For finishing. Beautiful surface finish is achieved by high quality cutting edges and MEGACOAT that has excellent wear resistance and heat resistance.

### Semi-Finishing



U Series

For semi-finishing. High efficiency machining products such as the 3-edge square type and ball-nose end mill have been added to the lineup.



### Roughing



R Series

Applicable for machining of wide variety of steel such as stainless steel, cast iron, and etc. The sine curve shaped cutting edge reduces cutting resistance and controls chatter.



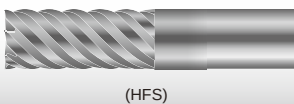
## End mill applicable for hard materials

End mill developed primarily for machining of hard materials. Also suitable for steel machining.

→ L25~L34

### Finishing

MEGACOAT is applied



H Series

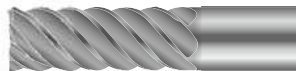
Applicable for finishing of hard materials. MEGACOAT Hard is adopted. Achieves stable machining of hardened materials.

### Semi-Finishing



(UGS)

For stable and high efficiency machining of hard materials.



(PGS)

Good chip evacuation and high rigidity. Short, Medium and Long are available.



(6PDRS)

High efficiency radius. Achieves large machining allowance and high efficiency machining with special corner radius shape.

P, U Series

### Roughing



R Series

For rough copying / profiling. Strong cutting edge suitable for machining of hard materials and titanium alloys.

(3 / 4RFRS)

## End mill for difficult-to-cut materials

End mill designed for difficult-to-cut materials, such as stainless steel, inconel and titanium.

→ L35~L38

### Semi-Finishing



Y Series

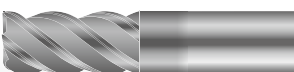
(4YECM, 4YERM, 4YEKM)

Wide enough unequally partitioned flute design reduces vibration and achieves high efficiency machining. 5 kinds of edges such as sharp edge, chamfered, land, radius and ball-nose are available.



4YECM varied interval flute

### High Feed Rate



D Series

(5DEKM, 5DERM)

5 edge unequally partitioned design. Achieves machining of difficult-to-cut materials, such as stainless steel and heat-resistant alloy at high feed rates.

## End mill for aluminum & non-ferrous materials

End mills available for finishing, semi finishing and roughing of aluminum & non-ferrous materials.

→ L39~L43

### Finishing



N Series

(3NESM)

A wiper is attached at the lower edge for improving bottom surface finish. Chattering is controlled with cutting edge slots at varied intervals, and finishing of lateral surfaces is improved.

### Semi-Finishing



(2 NFSM)

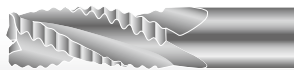


(3 NFSM)

Achieves good chip evacuation with special rake face shape and 45° helix angle.

N Series

### Roughing



A Series

(3AESM)

For roughing of Aluminum / Non-ferrous Metal. Achieves high efficiency machining with a large chip evacuation space.

L

Solid End Mill