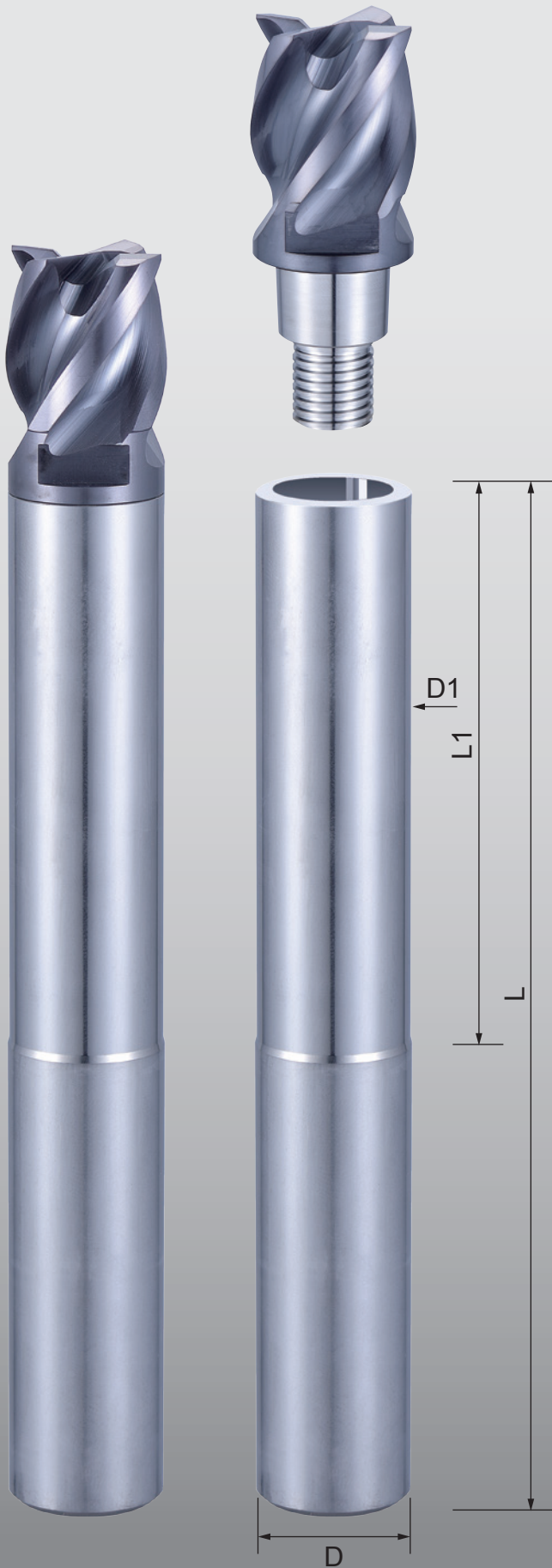


## Interchangeable Multi-purpose End Mill Cutter

1. Double-contact surface (taper and face)
2. Solid carbide cutter head and body shank
3. High accuracy, rigidity and efficiency in cutting
4. High economy value with various interchangeable cutter heads
5. Trapezoidal-designed thread reduces thread chipping
6. Runout within 5 $\mu$ m



D×L×d1 (L1×D1)	Code No.	Price
10×70×2.0 (15×9.7)	EMH10U1007015	●
10×90×2.0 (30×9.7)	EMH10U1009030	●
10×110×2.0	EMH10S1011000	●
12×80×2.5 (18×11.7)	EMH12U1208018	●
12×100×2.5 (36×11.7)	EMH12U1210036	●
12×120×2.5	EMH12S1212000	●
16×90×3.5 (24×15.5)	EMH16U1609024	●
16×120×3.5 (48×15.5)	EMH16U1612048	●
16×150×3.5	EMH16S1615000	●
20×100×5.0 (30×19.5)	EMH20U2010030	●
20×130×5.0 (60×19.5)	EMH20U2013060	●
20×180×5.0	EMH20S2018000	●
25×110×5.0 (38×24.5)	EMH25U2511038	●
25×160×5.0 (75×24.5)	EMH25U2516075	●
25×210×5.0	EMH25S2521000	●

※ d1: coolant hole

# E140HX

## Multipurpose End Mills

MG Carbide
AlTiCrN HX



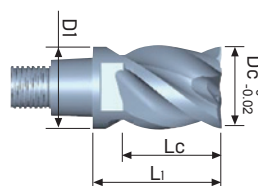


E140HX-Cutter

Code No.	Dc 0 -0.02	Lc mm	L1 mm	d1 mm	AlTiCrN HX
EMH10-SM10	10	11	16	9.7	●
EMH12-SM12	12	13	19	11.7	●
EMH16-SM16	16	17	25	15.5	●
EMH20-SM20	20	21	31	19.5	●
EMH25-SM25	25	26	39	24.5	●

Steel < 48HRC

P	H	M	K	N	S
●	●	●	●	○	○



### Work Material

P	Steel
H	<38HRC Hardened Steel
H	<48HRC Hardened Steel
H	<56HRC Hardened Steel
H	<68HRC Hardened Steel
M	Stainless Steel
K	Cast Iron
N	Aluminium
N	Copper
N	Plastics
N	FRP CFRP Composite Material
N	Graphite

# E143

## End Mills For Aluminium

MG Carbide
Uncoated Bright



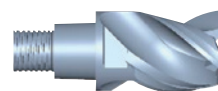


E143-Cutter

Code No.	Dc 0 -0.02	Lc mm	L1 mm	d1 mm	Bright
EMH10-SA10	10	11	16	9.7	●
EMH12-SA12	12	13	19	11.7	●
EMH16-SA16	16	17	25	15.5	●
EMH20-SA20	20	21	31	19.5	●
EMH25-SA25	25	26	39	24.5	●

Aluminium

P	H	M	K	N	S
○	○	○	○	●	○



S	Titanium
S	Nickel
S	High Temp Alloys

# E166TX

## Finishing End Mills

SMG Carbide
AlTiSiN TX





E166TX-Cutter

Code No.	Dc 0 -0.02	Lc mm	L1 mm	d1 mm	AlTiSiN TX
EMH10-EF10	10	11	16	9.7	●
EMH12-EF12	12	13	19	11.7	●
EMH16-EF16	16	17	25	15.5	●
EMH20-EF20	20	21	31	19.5	●
EMH25-EF25	25	26	39	24.5	●





Hardened Steel 40-70HRC

P	H	M	K	N	S
○	●	○	○	○	○



# B254TX

## Ball Nose End Mills - 4 Flutes

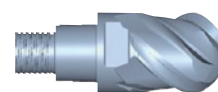
SMG Carbide
AlTiSiN TX





B254TX-Cutter

Code No.	Dc 0 -0.02	R ±0.01	Lc mm	L1 mm	d1 mm	AlTiSiN TX
EMH10-BH10	10	5	11	16	9.7	●
EMH12-BH12	12	6	13	19	11.7	●
EMH16-BH16	16	8	17	25	15.5	●
EMH20-BH20	20	10	21	31	19.5	●
EMH25-BH25	25	12.5	26	39	24.5	●

Hardened Steel 40-70HRC

P	H	M	K	N	S
○	●	○	○	○	○



## Interchangeable Blank Cutter Heads

Code No. EMH10-10027 / EMH12-1232 / EMH16-1642 / EMH20-2052 / EMH25-2565

