

NEW

LINGFENG Modular Endmill

Low consumption

High precision

Quick changeover

■ Highlights

Reduced operating cost

The holder is reusable;
Only the cutting head needs
replacement, significantly reducing
tooling consumables expenditure.

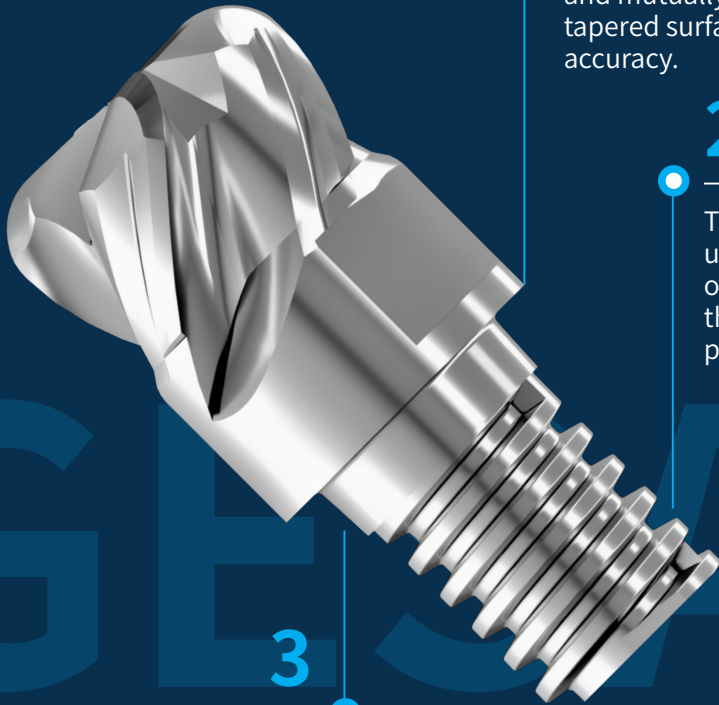
Stable machining accuracy

Double-sided positioning +
high-strength thread structure
ensures high assembly
precision.

High tool change efficiency

Replace the cutting head
without removing the
toolholder, greatly reducing
downtime.

Double-sided positioning +
high-strength thread structure



1

High-precision face contact positioning ensures face runout and mutually corrects with the tapered surface, supporting radial accuracy.

2

The threaded connection uses a trapezoidal thread, offering high strength and the ability to withstand high preload torque.

3

High-precision taper surface positioning uses surface contact to enhance centering, ensuring radial runout ≤ 0.015 mm.



Modular Endmill Head Naming Rule

ME - SS600 - S 4 - 200 15

①

① Modular Endmill

②

② Tool Series

Series	Workpiece
SP210	Steel
SS600	Stainless Steel
SA100	Aluminium Alloy
...	

③

③ End Teeth Type

S	Square
B	Ballnose
R	Cornor Radius
C	Square with Chamfer

④

④ No. of Flutes

3	3-flute
4	4-flute

⑤

⑤ Diameter

120	12mm
160	16mm
200	20mm
250	25mm

⑥

⑥ Characteristic Code

Square	Flute Length 09-9mm 15-15mm
Cornor Radius	Cornor Radius 05-R0.5mm 10-R1mm
Square with Chamfer	Chamferd Corner 15-C0.15mm 30-C0.3mm

Modular Extension Holder Naming Rule

Modular Extension Holder Naming Rule

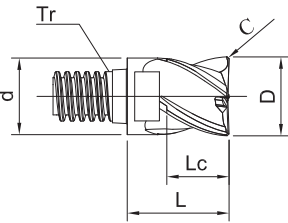
EH - T 12 G 20 L130 S (080) C

①	②	③	④	⑤	⑥	⑦	⑧	⑨
①Product Type		③Thread Diameter		⑥Overall Length		⑨Material		
EH	Modular Extension Holder	12	12mm		L130	130mm	C	Cemented Carbide
							S	Steel
		④Shank Type			⑦Neck Shape			
		G	Cylindrical Shank		S	No Neck		
		BT	BT Shank		P	Reduced Neck		
					T	Tapered Neck		
②Thread Type		⑤Shank Diameter		⑧Neck Length				
T	Trapezoidal Thread	20	20mm		080	80mm		
M	Standard Thread							

Modular Endmill Head Specifications

ME-SP210-C4

4 Flutes, Variable Helix with Chamfer, Square



Order No.	D	C	Lc	L	d	Tr	Wrench	Stock
ME-SP210-C4-12012	12	0.12	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-C4-12030	12	0.3	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-C4-16015	16	0.15	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-C4-16040	16	0.4	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-C4-20015	20	0.15	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SP210-C4-20050	20	0.5	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SP210-C4-25015	25	0.15	20	31.5	23	Tr14	ME-D25-WR20	○
ME-SP210-C4-25050	25	0.5	20	31.5	23	Tr14	ME-D25-WR20	●

●Stock ○Available Upon Order

D	Tolerance
12≤D≤20	$\begin{matrix} 0 \\ -0.04 \end{matrix}$
D>20	$\begin{matrix} 0 \\ -0.05 \end{matrix}$
Unit (mm)	

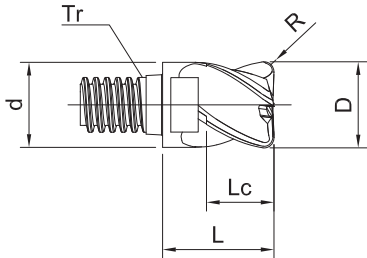
Workpiece Material						
P		M	K	N		
1234	5	123	123	123	4	5
Carbon Steel/ Alloy Steel (<35HRC)	Alloy Steel (48HRC以下)	Stainless Steel	Cast Iron	Aluminum Alloy	Copper Alloy	Graphite
◎	◎	○	◎			

◎ Most Suitable ○ Suitable

Modular Endmill Head Specifications

ME-SP210-R4

4 Flute, Corner Radius ,Variable Helix



Order No.	D	R	Lc	L	d	Tr	Wrench	Stock
ME-SP210-R4-12005	12	0.5	9	16.5	11.5	Tr8	ME-D12-WR10	○
ME-SP210-R4-12010	12	1	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-R4-12015	12	1.5	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-R4-12020	12	2	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-R4-12030	12	3	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SP210-R4-16005	16	0.5	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-R4-16010	16	1.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-R4-16020	16	2.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-R4-16030	16	3.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SP210-R4-20020	20	2.0	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SP210-R4-20030	20	3.0	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SP210-R4-25030	25	3.0	20	31.5	23	Tr14	ME-D25-WR20	●
ME-SP210-R4-25040	25	4.0	20	31.5	23	Tr14	ME-D25-WR20	○

●Stock ○Available Upon Order

D	Tolerance
12≤D≤20	$\begin{matrix} 0 \\ -0.04 \end{matrix}$
D>20	$\begin{matrix} 0 \\ -0.05 \end{matrix}$
Unit (mm)	

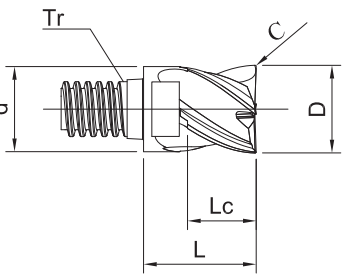
Workpiece Material						
P		M	K	N		
1234	5	123	123	123	4	5
Carbon Steel/ Alloy Steel (<35HRC)	Alloy Steel (48HRC以下)	Stainless Steel	Cast Iron	Aluminum Alloy	Copper Alloy	Graphite
◎	◎	○	◎			

◎ 最适合 ○ 适合

Modular Endmill Head Specifications

ME-SS600-S4

4 Flute, Square (Small Corner Chamfer)



Order No.	D	C	Lc	L	d	Tr	Wrench	Stock
ME-SS600-S4-12009	12	0.12	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SS600-S4-16012	16	0.15	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-S4-20015	20	0.15	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SS600-S4-25020	25	0.15	20	31.5	23	Tr14	ME-D25-WR20	●

●Stock ○Available Upon Order

D	Tolerance
12≤D≤20	0 -0.04
D>20	0 -0.05

Unit (mm)

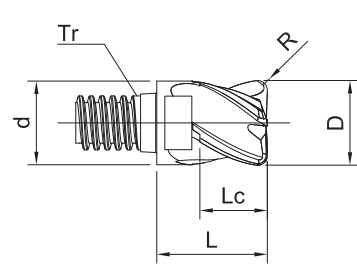
Workpiece Material					
P		M	K	S	
1234	5	123	123	123	4
Carbon Steel/ Alloy Steel (<35HRC)	Alloy Steel (48HRC以下)	Stainless Steel	Cast Iron	High-temperature Alloy	Titanium Alloy
◎	◎	◎	○	○	◎

◎ Most Suitable ○ Suitable

Modular Endmill Head Specifications

ME-SS600-R4

4 Flute, Corner Radius



Order No.	D	C	Lc	L	d	Tr	Wrench	Stock
ME-SS600-R4-12005	12	0.5	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SS600-R4-12010	12	1.0	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SS600-R4-12020	12	2.0	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SS600-R4-12030	12	3.0	9	16.5	11.5	Tr8	ME-D12-WR10	●
ME-SS600-R4-16005	16	0.5	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-R4-16010	16	1.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-R4-16015	16	1.5	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-R4-16020	16	2.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-R4-16030	16	3.0	12	20.5	15.5	Tr10	ME-D16-WR12	●
ME-SS600-R4-16040	16	4.0	12	20.5	15.5	Tr10	ME-D16-WR12	○
ME-SS600-R4-16050	16	5.0	12	20.5	15.5	Tr10	ME-D16-WR12	○
ME-SS600-R4-20005	20	0.5	15	25.5	19.5	Tr12	ME-D20-WR16	○
ME-SS600-R4-20010	20	1.0	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SS600-R4-20020	20	2.0	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SS600-R4-20030	20	3.0	15	25.5	19.5	Tr12	ME-D20-WR16	●
ME-SS600-R4-20040	20	4.0	15	25.5	19.5	Tr12	ME-D20-WR16	○
ME-SS600-R4-20050	20	5.0	15	25.5	19.5	Tr12	ME-D20-WR16	○
ME-SS600-R4-25030	25	3.0	20	31.5	23	Tr14	ME-D25-WR20	●
ME-SS600-R4-25050	25	5.0	20	31.5	23	Tr14	ME-D25-WR20	○

●Stock ○Available Upon Order

D	Tolerance
12≤D≤20	0 -0.04
D>20	0 -0.05

Unit (mm)

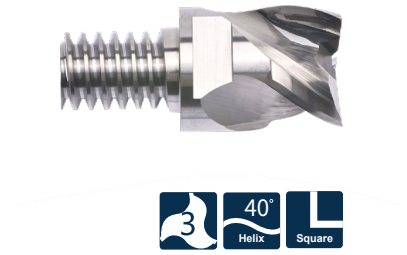
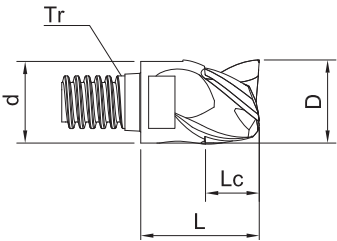
Workpiece Material					
P		M	K	S	
1234	5	123	123	123	4
Carbon Steel/ Alloy Steel (<35HRC)	Alloy Steel (48HRC以下)	Stainless Steel	Cast Iron	High-temperature Alloy	Titanium Alloy
◎	◎	◎	○	○	◎

◎ Most Suitable ○ Suitable

Modular Endmill Head Specifications

ME-SA100-S3

3 Flute, Square



Order No.	D	Lc	L	d	Tr	Wrench	Stock
ME-SA100-S3-12009	12	9	18.5	11.5	Tr8	ME-D12-WR10	●
ME-SA100-S3-16012	16	12	22.5	15.5	Tr10	ME-D16-WR12	●
ME-SA100-S3-20015	20	15	27.5	19.5	Tr12	ME-D20-WR16	●
ME-SA100-S3-25020	25	20	33.5	23	Tr14	ME-D25-WR20	●

Most Suitable Suitable

D	Tolerance
D≥12	0 -0.02

Unit (mm)

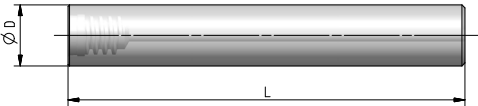
Workpiece Material						
P		M	K	N		
1234	5	123	123	123	4	5
Carbon Steel/ Alloy Steel (<35HRC)	Alloy Steel (48HRC以下)	Stainless Steel	Cast Iron	Aluminum Alloy	Copper Alloy	Graphite

最适合 适合

Modular Extension Holder Specifications

EH

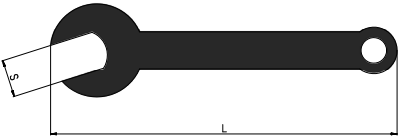
Modular Extension Holder



Material	Order No.	D (mm)	L (mm)	Connection size Tr	Stock
Steel	EH-T08G12L090SS	12	90	Tr8	●
	EH-T10G16L100SS	16	100	Tr10	●
	EH-T12G20L130SS	20	130	Tr12	●
	EH-T14G25L150SS	25	150	Tr14	●
Carbide	EH-T08G12L090SC	12	90	Tr8	●
	EH-T08G12L130SC	12	130	Tr8	●
	EH-T10G16L100SC	16	100	Tr10	●
	EH-T10G16L150SC	16	150	Tr10	●
	EH-T12G20L100SC	20	100	Tr12	●
	EH-T12G20L130SC	20	130	Tr12	●
	EH-T12G20L190SC	20	190	Tr12	●
	EH-T14G25L100SC	25	100	Tr14	●
	EH-T14G25L150SC	25	150	Tr14	●
	EH-T14G25L220SC	25	220	Tr14	●

Stock Available Upon Order

Wrench Specifications



ME-WR

Order No.	Connection size Tr	S	l	Torque N·m	Stock
ME-D12-WR10	Tr8	10	130	15	●
ME-D16-WR12	Tr10	12	130	20	●
ME-D20-WR16	Tr12	16	150	25	●
ME-D25-WR20	Tr14	20	150	30	●

Stock Available Upon Order

Recommended Cutting Data

ME-SP210-C4/R4
Steel and Cast Iron- Side Milling (Tool Overhang≤3D)



Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
P	Carbon Steel, Alloy Steel (<35HRC)	ae≤0.2D	150	Rotation Speed (min-1)	4000	3000	2400	1900
				Feed Speed (mm/min)	1400	1200	960	910
				ap (mm)	8.5	11.5	14.5	19.5
	Alloy Steel (35-48HRC)	ae≤0.15D	120	Rotation Speed (min-1)	3200	2400	1900	1500
				Feed Speed (mm/min)	830	720	570	450
				ap (mm)	8.5	11.5	14.5	19.5
M	Stainless Steel	ae≤0.2D	100	Rotation Speed (min-1)	2700	2000	1600	1300
				Feed Speed (mm/min)	860	720	580	470
				ap (mm)	8.5	11.5	14.5	19.5
K	Gray Cast Iron/ Nodular Cast Iron (<32HRC)	ae≤0.2D	140	Rotation Speed (min-1)	3715	2785	2230	1780
				Feed Speed (mm/min)	1200	1000	800	640
				ap (mm)	8.5	11.5	14.5	19.5
	High Alloy Cast Iron (35-45HRC)	ae≤0.15D	120	Rotation Speed (min-1)	3200	2400	1910	1530
				Feed Speed (mm/min)	1000	760	610	490
				ap (mm)	8.5	11.5	14.5	19.5

ME-SP210-C4/R4
Steel and Cast Iron - Slot Milling (Tool Overhang≤3D)



Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
P	Carbon Steel, Alloy Steel (<35HRC)	ap≤0.4D	100	Rotation Speed (min-1)	2700	2000	1600	1300
				Feed Speed (mm/min)	540	560	450	420
	Alloy Steel (35-48HRC)	ap≤0.3D	80	Rotation Speed (min-1)	2100	1600	1300	1000
				Feed Speed (mm/min)	340	320	160	200
M	Stainless Steel	ap≤0.25D	75	Rotation Speed (min-1)	2000	1500	1200	950
				Feed Speed (mm/min)	320	360	290	230
K	Gray Cast Iron Nodular Cast Iron (<32HRC)	ap≤0.4D	80	Rotation Speed (min-1)	2100	1600	1300	1000
				Feed Speed (mm/min)	340	320	160	200
	High Alloy Cast Iron (35-45HRC)	ap≤0.3D	75	Rotation Speed (min-1)	1900	1500	1200	950
				Feed Speed (mm/min)	210	300	240	190

Recommended Cutting Data

ME-SS600-S4/R4
Stainless Steel - Side Milling (Tool Overhang≤3D)



Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
M	Stainless Steel	ae≤0.2D	100	Rotation Speed (min-1)	2700	2000	1600	1300
				Feed Speed (mm/min)	530	400	380	350
				ap (mm)	8.5	11.5	14.5	19.5
S	Titanium Alloy	ae≤0.15D	60	Rotation Speed (min-1)	1600	1200	950	760
				Feed Speed (mm/min)	250	240	190	150
				ap (mm)	8.5	11.5	14.5	19.5

ME-SS600-S4/R4
Slot Milling (Tool Overhang≤3D)



Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
M	Stainless Steel	ap≤0.4D	60	Rotation Speed (min-1)	1600	1200	950	760
				Feed Speed (mm/min)	320	190	190	150
S	Titanium Alloy	ap≤0.2D	40	Rotation Speed (min-1)	1060	800	640	500
				Feed Speed (mm/min)	130	130	130	100

Recommended Cutting Data

ME-SA100-S3
Aluminum Alloy - Side Milling (Tool Overhang≤3D)



Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
N	Forged Aluminum Alloy /Cast Aluminum Alloy (Si<12%)	ae≤0.25D	350	Rotation Speed (min-1)	9300	7000	5600	4450
				Feed Speed (mm/min)	3000	2800	2700	2700
				ap (mm)	8.5	11.5	14.5	19.5
	Copper Alloy (<HB200)	ae≤0.3D	350	Rotation Speed (min-1)	9300	7000	5600	4450
				Feed Speed (mm/min)	3000	2800	2700	2700
				ap (mm)	8.5	11.5	14.5	19.5

ME-SA100-S3
Aluminum Alloy - Slot Milling (Tool Overhang≤3D)



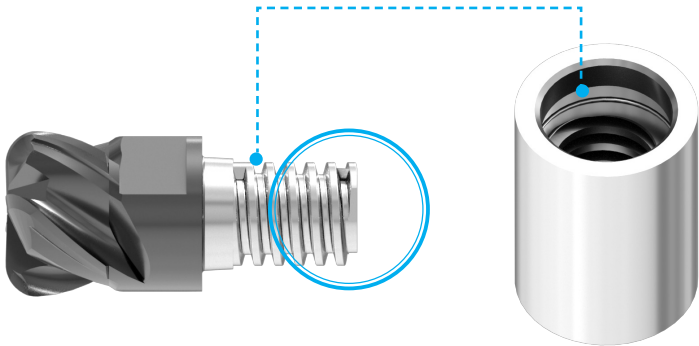
Workpiece Material		Cutting Amount (mm)	Vc m/min	Edge Diameter (mm)	12	16	20	25
N	Forged Aluminum Alloy /Cast Aluminum Alloy (Si<12%)	ap≤0.5D	350	Rotation Speed (min-1)	9300	7000	5600	4450
				Feed Speed (mm/min)	2600	2500	2450	2450
	Copper Alloy (<HB200)	ap≤0.5D	350	Rotation Speed (min-1)	9300	7000	5600	4450
				Feed Speed (mm/min)	2600	2500	2450	2450

Compensation Factors for Different Overhang Lengths

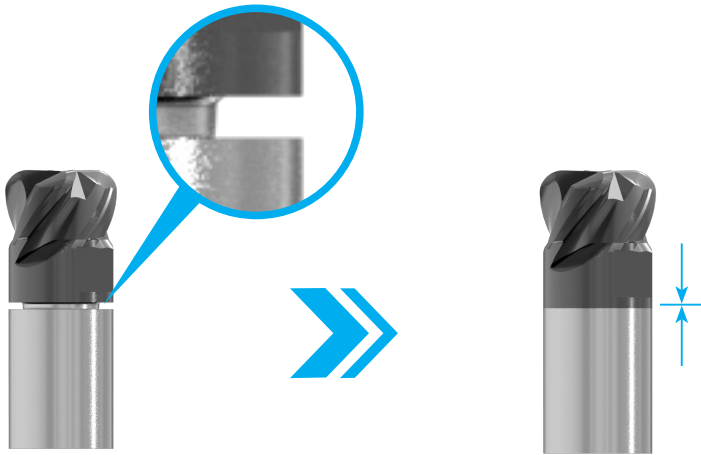
Overhang	Cutting parameter	Cutting speed (m/min)	Feed Speed (mm/min)	Width of Cut (ae) (mm)
	2*D	100%	100%	100%
	3*D	100%	100%	100%
	4*D	80%	90%	70%
	5*D	60%	80%	50%
	6*D	50%	70%	40%
	7*D	40%	70%	30%
	8*D	40%	60%	10%
	9*D	30%	60%	10%

Head Installation Instructions

1 Before installation, use a clean lint-free cloth to remove oil, dust, and debris from the mating surfaces of the head and holder.



2 During installation, use protective equipment to prevent cuts from sharp edges. If a gap remains after assembly, tighten with a wrench until fully seated.



3 To ensure installation and application quality, tighten to the recommended torque values in the table below.

Connection size	Recommended tightening torque (N.m)
Tr8	15
Tr10	20
Tr12	25
Tr14	30

GESAC
SAFE
WE
G



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please follow the code