



2026
CATALOG

TURNING TOOLS
MILLING TOOLS



QUALITY
Premium grade material



RAW MATERIAL
Carefully selected



REDUCE COSTS
IMPROVE EFFICIENCY
Better performance, lower cost

About STERN

Precision in Every Cut

STERN is a professional cutting tool brand dedicated to delivering high-performance solutions for modern manufacturing industries.

With a strong focus on quality, reliability, and machining efficiency, STERN provides a comprehensive range of carbide end mills and indexable inserts designed to meet the demands of today's machining applications.

Our products are developed to ensure consistent performance, extended tool life, and superior surface finish across a wide variety of materials and operating conditions.

Driven by innovation and customer satisfaction, STERN continues to support manufacturers with cutting tools that enhance productivity and deliver lasting value.

Our Commitment

- . Premium Quality Materials
- . Consistent Manufacturing Standards
- . Reliable Performance
- . Competitive Value
- . Customer-Focused Service

MESSAGE FROM THE FOUNDER

At STERN, we believe that precision is the foundation of every successful manufacturing process.

Our mission is to provide cutting tools that combine performance, durability, and reliability, helping our customers achieve greater productivity and confidence in every operation.

We are committed to building long-term partnerships through quality products, professional service, and continuous improvement.

INDEXABLE INSERTS

Engineered for performance

STERN indexable inserts are designed to deliver outstanding machining performance in a wide range of turning and milling applications.

Manufactured from high-quality carbide substrates and advanced coating technologies, our inserts provide exceptional wear resistance, cutting stability, and extended tool life.

Whether for roughing, semi-finishing, or finishing operations, STERN inserts ensure consistent results and reliable productivity.

Application Materials

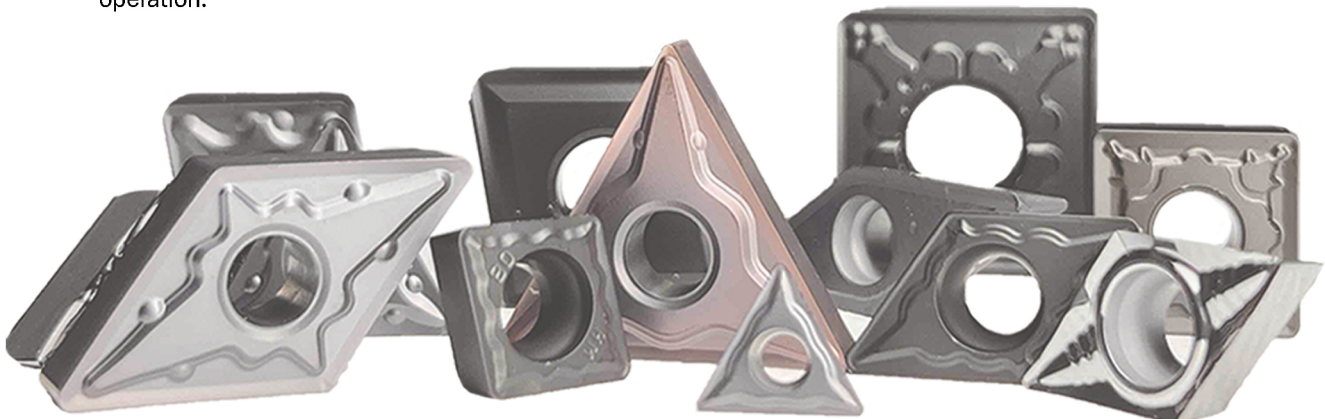
- . Steel (P)
- . Stainless Steel (M)
- . Cast Iron (K)
- . Non-Ferrous Materials (N)
- . Heat Resistant Alloys (S)

KEY BENEFITS

- ✓ High Wear Resistance
- ✓ Excellent Surface Finish
- ✓ Stable Cutting Performance
- ✓ Longer Tool Life
- ✓ Reduced Machining Costs
- ✓ Wide Range of Geometries
- ✓ Reliable Chip Control
- ✓ Consistent Quality

STERN INSERTS SOLUTIONS

Designed to meet the challenges of modern machining and deliver precision, efficiency, and reliability in every operation.



D N M G 15 06 08 (N) - PM

1

2

3

4

5

6

7

8

9

Insert shape		
A 	B 	C 
D 	E 	H 
K 	L 	M 
O 	P 	R 
S 	T 	V 
W 	Z Special	

1

Clearance angle	
A 	B 
C 	D 
E 	F 
G 	N 
P 	O Special

2

Tolerance class			
			
Code	I.C [mm]	m [mm]	S [mm]
A	±0,025	±0,005	±0,025
C	±0,025	±0,013	±0,025
E	±0,025	±0,025	±0,025
F	±0,013	±0,005	±0,025
G	±0,025	±0,025	±0,130
H	±0,013	±0,013	±0,025
J	±0,05-0,15	±0,005	±0,025
K	±0,05-0,15	±0,013	±0,025
L	±0,05-0,15	±0,025	±0,025
M	±0,05-0,15	±0,08-0,20	±0,130
N	±0,05-0,15	±0,08-0,20	±0,025
U	±0,08-0,25	±0,13-0,38	±0,130

3

Fastening features (metric)	
Insert shape	
A 	B 
C 	F 
G 	H 
J 	M 
N 	Q 
R 	T 
U 	W 
X Special	

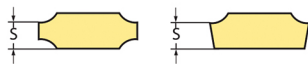
4

Cutting edge length l [mm]							
I.C [mm]	Insert shape						
							
3,97	06						
5,0	05						
5,56	09						
6,0	06						
6,35	06	07			11	11	
8,0	08						
9,525	09	11	09	09	16	16	06 16
10,0	10						
12,0	12						
12,7	12	15	12	12	22	22	08
15,875	16		15	15	27		
16,0		19	16				
19,05	19		19	19	33		
20,0	20						
25,0	25	25	25				
25,4	25						
31,75	31						
32	32						

5



Insert thickness S [mm]



Code	S	Code	S
00	0,79	T5	5,95
T0	0,99	06	6,35
01	1,59	T6	6,75
T1	1,98	07	7,94
02	2,38	09	9,52
T2	2,58	T9	9,72
03	3,18	11	11,11
T3	3,97	12	12,70
04	4,76		
T4	4,96		
05	5,56		

6

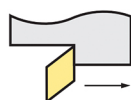
Nose radius r [mm]



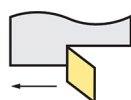
Code	r
00	–
02	0,2
04	0,4
08	0,8
12	1,2
16	1,6
20	2,0
24	2,4
32	3,2
X	Special
MO	Round inserts

7

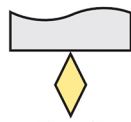
Cutting direction



L



R

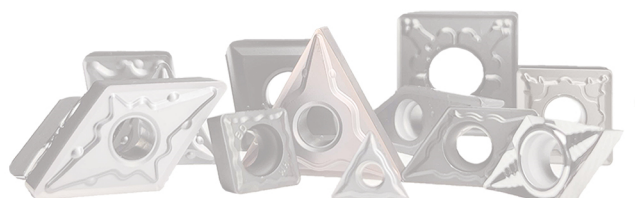


N

8

chip breaker overview

9



ISO		General Turning		General milling	Threading	Grooving
Code		Coating		Coating	Coating	Coating
		CVD	PVD	PVD	PVD	PVD
Steel	P01					
	P10	CW4125	CW1530	CW1530	CW1530	CW1530
	P20					
	P30					
	P40					
Stainless steel	M01					
	M10		CW1530	CW1530	CW1530	CW1530
	M20		CW1125	CW1125	CW1125	CW1125
	M30					
Cast iron	K01					
	K10	CW3115D	CW3115D N20 CW1530	CW1530 CW3115D	CW1530	CW1530
	K20					
	K30					
Aluminium	N01					
	N10		N20	N20		N20
	N20					
	N30					
Super alloy	S01					
	S10		CW1530	CW1530	CW1530	CW1530
	S20		CW1125	CW1125	CW1125	CW1125
	S30					
Hard metal	H01					
	H10					
	H20					
	H30					



CW4125

Comprising of thin TiCN and thick Al_2O_3 coating, the grade has high capability against plastic deformation and good hardness of cutting edge. It is preferred grade for machining of steel from finishing to roughing. Under the same cutting conditions, the cutting speed can be increased by more than 25%, while the tool life can be 30% longer under the same cutting speed.

CW3115D

CVD coated grade, which is the combination of hard substrate and coating (medium thick Al_2O_3 + Thick TiCN), has good flaking resistance. It is suitable for turning of cast iron at high speed, and light intermittent cutting can be supported even at moderate. It is also suitable for milling of cast iron.

- ◆ The combination of thick coating and substrate with good hardness and impact resistance gives the inserts excellent resistance and stability under high temperature, and improves wear resistance of inserts. Inserts also satisfy the requirements of high speed and high feed rate when machining cast iron.
- ◆ The appearance of shining full back is easily identified.
- ◆ Working efficiency has been improved. Both the coating and the substrate are suitable for machining cast iron at high speed and high feed rate. Cutting speed can be increased by 30%.
- ◆ Cost is reduced as tool life is increased by 40%-50%.
- ◆ High machining stability.

CW1125

Suitable for relatively small workpieces which require high surface smoothness.

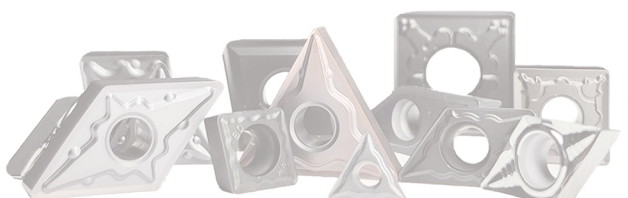
PVD coating grade of finishing of stainless steel.

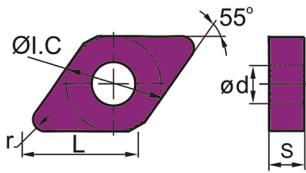
Superfine TiAlN nano coating added with wear-resistant and heat-resistant, providing effective protection for the cutting edge. Special coating technology ensures stronger combination of coating and substrate. It is suitable for extra finishing of stainless steel.

CW1530

PVD coated P10 – P30 / M10 – M25 carbide substrate for finishing to medium application of stainless steel and steel (milling). Good wear resistance in a wide application field.

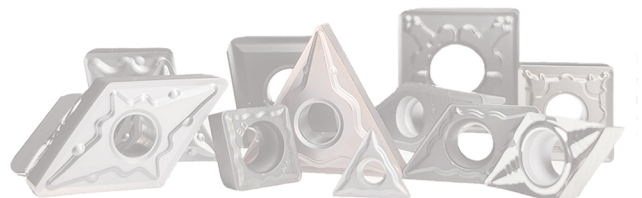
Material	Range of machining	Grade	Vc (m/min)
 Steel	For finishing	CW1530	180 - 360
	For semi-finishing	CW4125	280 - 440
	For roughing	CW4125	200 - 320
 Stainless steel	For finishing	CW1530	110 - 270
	For semi-finishing	CW1125	160 - 300
	For roughing	CW1125	140 - 260
 Cast iron	For finishing	CW1530	140 - 220
	For semi-finishing	CW3115D	160 - 300
	For roughing	CW3115D	160 - 300
 Super alloy	For finishing	CW1530	110 - 270
	For semi-finishing	CW1125	160 - 300
	For roughing	CW1125	140 - 260

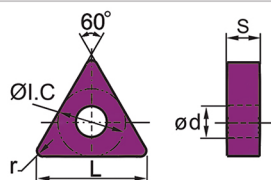


DN** Positive insert					Material		CVD		PVD	
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	DNMG 150604 - TM	0.4	0.1 - 0.5	0.5 - 4.0	★					
	DNMG 150608 - TM	0.8	0.5 - 3.0	0.1 - 0.5	★					
	DNMG 150612 - PT	1.2	1.0 - 5.5	0.15 - 0.6	★					
	DNMG 150616 - PT	1.6	1.0 - 5.5	0.2 - 0.6	★					
	DNMG 150608 - FC	0.8	0.5 - 4.0	0.15 - 0.4		★				
	DNMG 150612 - FC	1.2	1.0 - 6.0	0.2 - 0.6		★				
	DNMG 150604 - MSF	0.4	0.5 - 2.5	0.10 - 0.3			★			
	DNMG 150608 - MM	0.8	0.5 - 2.5	0.10 - 0.3			★			
	DNMG 150604 - MSF	0.4	0.5 - 3.0	0.05 - 0.2				★		
	DNMG 150608 - MM	0.8	1.0 - 3.0	0.05 - 0.3				★		

○ Ideal&Normal machining conditions
 ✱ Unfavourable machining conditions

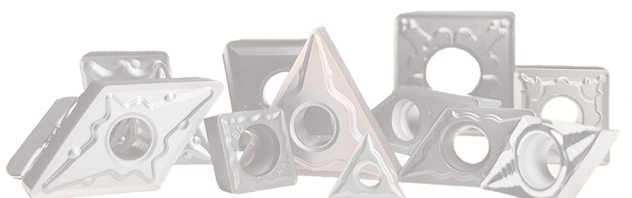
DN**	L	I.C	S	d
15 06	15.5	12.7	6.35	5.16

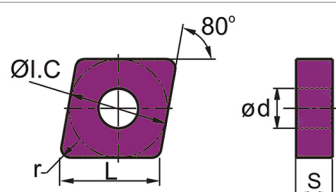


TN** Positive insert					Material		CVD		PVD	
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
iNsert SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	TNMG 220404 - MM	0.4	0.5-3.0	0.05-0.3	★					
	TNMG 220408 - MM	0.8	0.5-4.0	0.1-0.5	★					
	TNMG 220408 - KM	0.8	0.5-3.0	0.05-0.25		★				
	TNMG 220412 - KM	1.2	1.0-6.0	0.20-0.6		★				
	TNMG 220404 - MM	0.4	0.5-2.5	0.05-0.2			★			
	TNMG 220408 - MM	0.8	0.5-2.5	0.1-0.3			★			
	TNMG 220404 - MM	0.4	0.5-2.5	0.05-0.2				★		
	TNMG 220408 - MM	0.8	0.5-2.5	0.1-0.3				★		
	TNMG 160404 - MA	0.4	0.5-3.0	0.1-0.3				★		
	TNMG 160408 - MA	0.8	0.5-3.0	0.05-0.2				★		

- Ideal&Normal machining conditions
 Unfavourable machining conditions

TN**	L	I.C	S	d
16 04	16.5	9.525	4.76	3.81
22 04	22	12.7	4.76	5.16



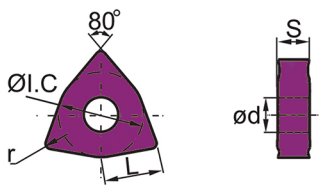
CN** Positive insert					Material		CVD		PVD	
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	CNMG 120404 - TM	0.4	0.2-2.0	0.05-0.3	★					
	CNMG 120408 - TM	0.8	0.5-2.0	0.1-0.4	★					
	CNMG 120412 - PM	1.2	2.0-5.5	0.15-0.6	★					
	CNMG 120408 - KM	0.8	1.0-5.0	0.2-0.5	★					
	CNMG 120412 - KM	1.2	1.0-5.0	0.2-0.5		★				
	CNMG 120416 - KM	1.6	1.0-5.0	0.2-0.5		★				
	CNMA 120416	1.6	0.2-7.0	0.15-0.65		★				
	CNMG 120404 - MM	0.4	0.5-3.0	0.05-0.3			★			
	CNMG 120408 - MM	0.8	0.10-7.5	0.10-0.3			★			
	CNMG 120404 - MM	0.4	0.5-2.5	0.05-0.2				★		
	CNMG 120408 - MM	0.8	1.0-3.0	0.1-0.3				★		
	CNMG 160608 - TC	0.8	2.0-6.0	0.25-0.6	★					
	CNMG 190612 - TC	1.2	1.0-7.0	0.15-0.6	★					

○ Ideal&Normal machining conditions

✱ Unfavourable machining conditions

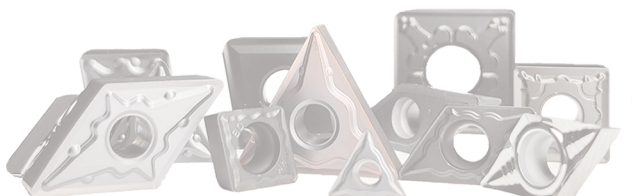
CN**	L	I.C	S	d
12 04	12.9	12.7	4.76	5.16
16 06	16.1	15.875	6.35	6.35
19 06	19.3	19.05	6.35	7.94

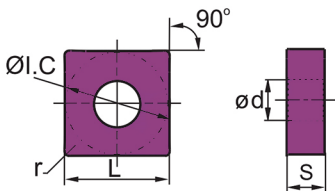


WN** Positive insert					Material		CVD		PVD	
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	WNMG 080404 - TM	0.4	0.5 - 3.0	0.1 - 0.5	★					
	WNMG 080408 - TM	0.8	1.0 - 5.0	0.1 - 0.5	★					
	WNMG 080412 - TM	1.2	1.0 - 5.5	0.15 - 0.6	★					
	WNMG 080408 - TC	0.8	1.0 - 5.0	0.20 - 0.5		★				
	WNMG 080412 - TC	1.2	2.0 - 6.0	0.25 - 0.6		★				
	WNMG 080404 - MM	0.4	0.5 - 3.0	0.05 - 0.3			★			
	WNMG 080408 - MM	0.8	1.0 - 3.0	0.1 - 0.3			★			
	WNMG 080404 - MM	0.4	0.5 - 2.5	0.05 - 0.2				★		
	WNMG 080408 - MM	0.8	1.0 - 3.0	0.1 - 0.3				★		

- Ideal&Normal machining conditions
 Unfavourable machining conditions

WN**	L	I.C	S	d
08 04	8.7	12.7	4.76	5.16

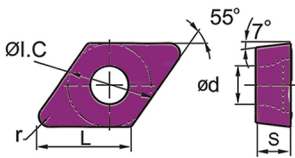


SN** Positive insert					Material	CVD		PVD	
					Steel				
					Cast iron				
					Stainless steel				
					Aluminium alloy				
					Super alloy				
					Hard metal				
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530	
	SNMG 120404 - TM	0.4	0.5 - 0.3	0.10 - 0.3	★				
	SNMG 120408 - TM	0.8	1.0 - 5.0	0.25 - 0.7	★				
	SNMG 120408 - TC	0.8	1.0 - 5.0	0.2 - 0.6		★			
	SNMG 120412 - TC	1.2	1.0 - 5.0	0.2 - 0.5		★			
	SNMA 120408	0.8	0.5 - 4.0	0.15 - 0.4		★			
	SNMG 150612 - PM	1.2	2.0 - 6.0	0.25 - 0.6	★				
	SNMG 190612 - PM	1.2	1.0 - 7.5	0.2 - 0.60	★				

- Ideal&Normal machining conditions
 Unfavourable machining conditions

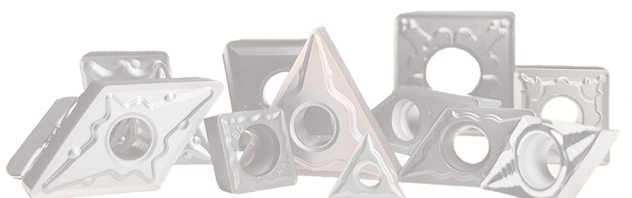
SN**	L	I.C	S	d
12 04	12.7	12.7	4.76	5.16
15 06	15.875	15.875	6.35	6.35
19 06	19.05	19.05	6.35	7.94

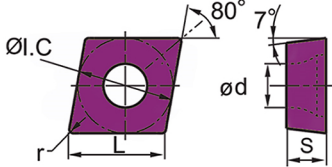


DC** Positive insert					Material	CVD		PVD		
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	DCMT 070204 - MP	0.8	0.5 - 3.0	0.08 - 0.3				★		
	DCMT 070208 - MP	0.8	0.5 - 3.0	0.05 - 0.2				★		
	DCMT 11T302 - TF	0.2	0.2 - 2.0	0.05 - 0.2				★		
	DCMT 11T304 - MP	0.4	0.2 - 2.0	0.10 - 0.3				★		
	DCMT 11T308 - MP	0.8	0.8 - 3.0	0.08 - 0.3				★		
	DCMT 11T308 - HM	0.8	1.0 - 3.0	0.05 - 0.2		★				

- Ideal&Normal machining conditions
 Unfavourable machining conditions

DC**	L	I.C	S	d
07 02	7.8	6.35	2.38	2.8
11 T3	11.6	9.525	3.97	4.4

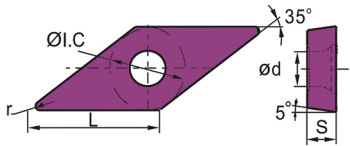


CC** Positive insert					Material	CVD		PVD	
					Steel				
					Cast iron				
					Stainless steel				
					Aluminium alloy				
					Super alloy				
					Hard metal				
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530	
	CCMT 060204 - MP	0.4	0.8 - 3.0	0.05 - 0.2				★	
	CCMT 060208 - MP	0.4	0.5 - 3.0	0.05 - 0.2				★	
	CCMT 09T304 - MP	0.4	0.8 - 3.0	0.08 - 0.3				★	
	CCMT 09T308 - MP	0.8	0.2 - 2.0	0.05 - 0.2				★	
	CCMT 09T308 - HM	0.8	0.5 - 3.0	0.1 - 0.4		★			
	CCMT 120408 - TM	0.8	0.5 - 3.0	0.1 - 0.5	★				
	CCMT 120408 - TM	0.8	1.0 - 6.0	0.2 - 0.6		★			

- Ideal&Normal machining conditions
 Unfavourable machining conditions

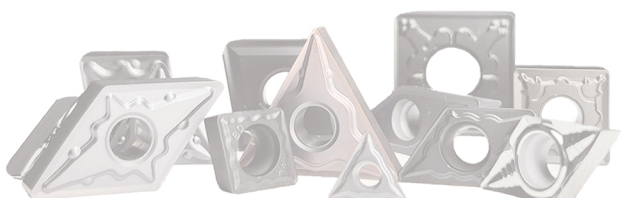
CCMT	L	I.C	S	d
06 02	6.4	6.35	2.38	2.8
09 T3	9.7	9.525	3.97	4.4
12 04	12.9	12.7	4.76	5.56

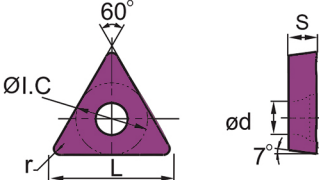


DN** Positive insert					Material	CVD		PVD	
					Steel				
					Cast iron				
					Stainless steel				
					Aluminium alloy				
					Super alloy				
					Hard metal				
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530	
	VBMT 160404 - MT	0.4	0.2-2.0	0.05-0.2					★
	VBMT 160408 - MT	0.8	0.8-3.0	0.08-0.3					★
	VBMT 160408 - TM	0.8	0.5 - 3.0	0.10 - 0.4		★			

-  Ideal&Normal machining conditions
 Unfavourable machining conditions

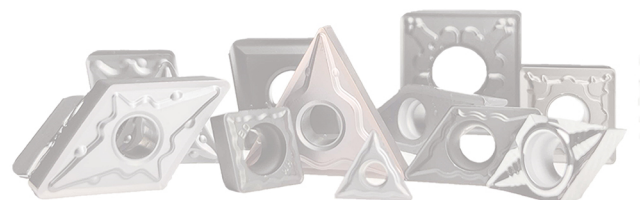
VBMT	L	I.C	S	d
16 04	16.5	9.525	4.76	4.4

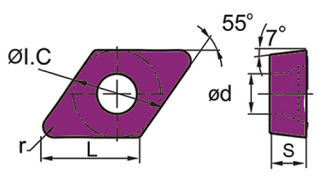
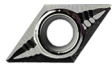


TC** Positive insert					Material	CVD		PVD		
					Steel					
					Cast iron					
					Stainless steel					
					Aluminium alloy					
					Super alloy					
					Hard metal					
INSERT SHAPE	ISO	r	a _p	f	CW4125	CW3115D	CW1125	CW1530		
	TCMT 090204 - TM	0.4	0.1 - 2.0	0.05 - 0.2				★		
	TCMT 110208 - TM	0.8	1.0 - 5.0	0.1 - 0.5				★		
	TCMT 16T308 - TM	0.8	1.0 - 3.0	0.1 - 0.3				★		
	TCMT 220408 - TR	0.8	1.0 - 4.0	0.15 - 0.5	★					

- Ideal&Normal machining conditions
 ⊗ Unfavourable machining conditions

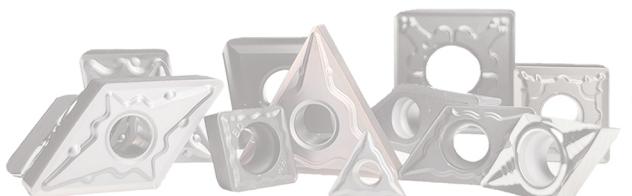
TC**	L	I.C	S	d
09 02	9.63	5.56	2.38	2.5
11 02	11	6.35	2.38	2.8
16 T3	16.5	9.525	3.97	4.4
22 04	22	12.7	4.76	5.5

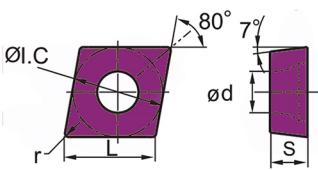


DCGX Positive insert					Material	CVD
					Steel	
					Cast iron	●
					Stainless steel	
					Aluminium alloy	☘ ●
					Super alloy	
					Hard metal	
INSERT SHAPE	ISO	r	a _p	f	N20	
	DCGX 11T302 - AK	0.2	1.0 - 5.0	0.05 - 0.5	★	
	DCGX 11T304 - AK	0.4	1.0 - 5.0	0.05 - 0.5	★	
	DCGX 11T308 - AK	0.8	1.0 - 5.0	0.05 - 0.5	★	

- Ideal&Normal machining conditions
 ☘ Unfavourable machining conditions

DCGX	L	I.C	S	d
11 T3	11.6	9.525	3.97	4.4

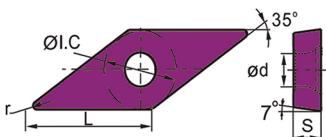


CCGX Positive insert					Material	CVD
					Steel	
					Cast iron	●
					Stainless steel	
					Aluminium alloy	✱ ●
					Super alloy	
					Hard metal	
INSERT SHAPE	ISO	r	a _p	f	N20	
	CCGX 09T302 - AK	0.2	1.0 - 5.0	0.05 - 0.5	★	
	CCGX 09T304 - AK	0.4	1.0 - 5.0	0.05 - 0.5	★	
	CCGX 09T308 - AK	0.8	1.0 - 5.0	0.05 - 0.5	★	

- Ideal&Normal machining conditions
 ✱ Unfavourable machining conditions

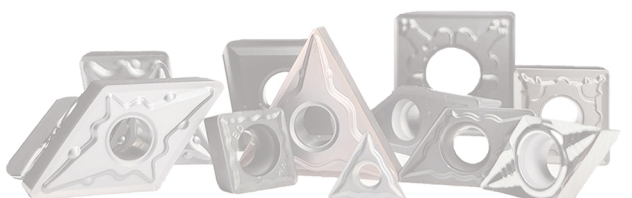
CCGX	L	I.C	S	d
09 T3	9.7	9.525	3.97	4.4

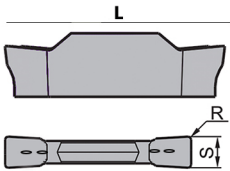


VCGX Positive insert					Material	CVD
					Steel	
					Cast iron	●
					Stainless steel	
					Aluminium alloy	☘ ●
					Super alloy	
					Hard metal	
INSERT SHAPE	ISO	r	a _p	f	N20	
	VCGX 16T302 - AK	0.2	1.0 - 5.0	0.05 - 0.5	★	
	VCGX 16T304 - AK	0.4	1.0 - 5.0	0.05 - 0.5	★	
	VCGX 16T308 - AK	0.8	1.0 - 5.0	0.05 - 0.5	★	

- Ideal&Normal machining conditions
 ☘ Unfavourable machining conditions

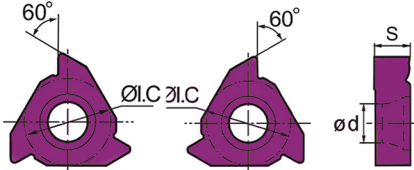
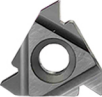
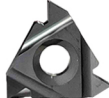
VCGX	L	I.C	S	d
16 04	16.6	9.525	4.76	4.4



MGMN Positive insert				Material		CVD		PVD	
				Steel					
				Cast iron					
				Stainless steel					
				Aluminium alloy					
				Super alloy					
				Hard metal					
INSERT SHAPE	ISO	R+0.05	La max	S+0.1	f	CW4125	CW3115D	CW1125	CW1530
	MGMN2002-N	0.2	16	2.0	0.05-0.2				★
	MGMN2503-N	0.3	18.5	2.5	0.05-0.2				★
	MGMN3003-N	0.3	21	3.0	0.1-0.3				★
	MGMN4004-N	0.4	21	4.0	0.1-0.3				★
	MGMN5004-N	0.4	26	5.0	0.1-0.3				★

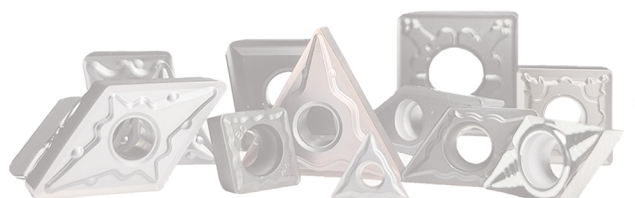
-  Ideal & Normal machining conditions
 Unfavourable machining conditions

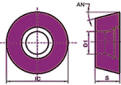
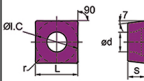
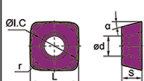
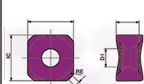
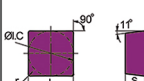
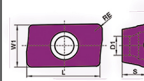
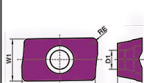


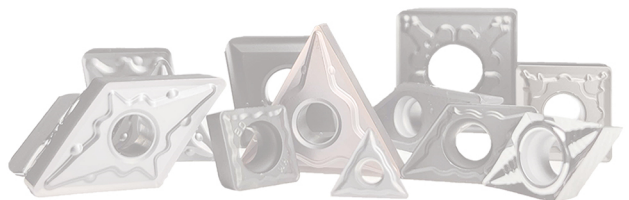
ISO metric coarse thread 60° full profile				Material		CVD		PVD	
				Steel					
				Cast iron					
				Stainless steel					
				Aluminium alloy					
				Super alloy					
				Hard metal					
INSERT SHAPE	External	ISO	Pitch(mm)	CW4125	CW3115D	CW1125	CW1530		
 	11ER - A60	11	0.2 - 2.0				★		
	11IR - A60	11	0.2 - 2.0				★		
	16ER - AG60	16	1.0 - 3.0				★		
	16IR - A60	16	1.0 - 3.0				★		
	22ER - N60	22	3.5 - 6.0				★		
	22IR - N60	22	3.5 - 6.0				★		

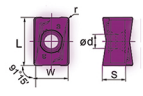
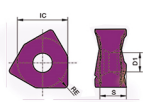
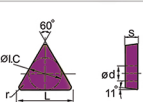
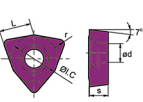
- Ideal&Normal machining conditions
 ✱ Unfavourable machining conditions

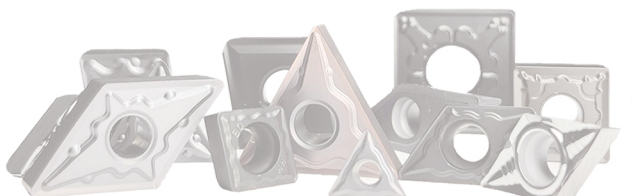
R/LT**N/W	I.C	S	d
11	6.35	3.18	2.8
16	9.525	3.97	4.4
22	12.7	5.56	5.5



MILLING Positive insert										Material		PVD	
										Steel			
										Cast iron			
										Stainless steel			
										Aluminium alloy			
										Super alloy			
Hard metal													
INSERT SHAPE		ISO	r	L	IC	S	d	f	CW1125	CW1530			
		RDMT10T3MO-MM	-	10.00	10.00	3.97	4.5	0.1-0.3		★			
		RDMT1204MO-MM	-	12.00	12.00	4.76	5.5	0.1-0.4		★			
		SCMT09T308-MP	0.8	9.525	9.525	3.97	4.4	0.05-0.2		★			
		SCMT120408-MP	0.8	12.7	12.7	4.76	5.56	0.1-0.3		★			
		SDMT120512-GM	12	12.7	12.7	5.56	4.6	0.1-0.3		★			
		SNMX1205ANN-M	-	12.4	12.4	5.7	5.9	0.1-0.3		★			
		SPUN120308-SKR	0.8	12.7	12.7	3.18	-	0.1-0.3		★			
		SPUN150408-SKR	0.8	15.875	15.875	4.76	-	0.1-0.4		★			
		APKT1035PDSR	0.4	10.6	10.6	3.24	2.6	0.1-0.4		★			
		APKT160408-ZM	0.8	-	17.65	9.64	4.76	0.1-0.4		★			



MILLING Positive insert										Material		PVD	
										Steel			
										Cast iron			
										Stainless steel			
										Aluminium alloy			
										Super alloy			
										Hard metal			
INSERT SHAPE		ISO	r	L	IC	S	d	f		CW1125		CW1530	
		LNMU0303ZER-MJ	-	11.58	11.58	4.45	2.65	0.1-0.3				★	
		WNMU080608EN-M	0.8	12.00	12.00	6.35	4.6	0.1-0.4				★	
		TPUN160308-SKR	0.8	16.5	9.525	3.18	-	0.1-0.3				★	
		TPUN220408-SKR	0.8	22	12.7	4.76	-	0.1-0.4				★	
		WCMX030208-UK	0.8	3.8	5.56	2.8	2.8	0.1-0.4				★	
		WCMX040208-UK	0.8	4.3	6.35	3.1	3.1	0.1-0.4				★	
		WCMX050308-UK	0.8	5.4	7.94	3.2	3.2	0.1-0.4				★	
		WCMX06T308-UK	0.8	6.5	9.525	3.7	3.7	0.1-0.4				★	
		WCMX080408-UK	0.8	8.7	12.7	4.3	4.3	0.1-0.4				★	





ENDMILL



BALLMILL



TIPRADIUS



ALUMINIUM



ROUGH



PRECISION

PERFORMANCE

DURABILITY

Advanced End Mill Solutions for Every Application

STERN SOLID CARBIDE

At STERN, we engineer high-performance solid carbide endmills designed to meet the demanding requirements of modern machining industries. Our cutting tools are manufactured using premium ultra-fine grain carbide, ensuring exceptional wear resistance, dimensional accuracy, and long tool life.

ENDMILL-SERIES

ENDMILL - 4 Flute

Engineered for 3D contouring, mold making, and complex surface machining, STERN Ball Nose Endmills deliver exceptional accuracy and superior surface quality. The optimized cutting geometry enables smooth transitions and precise profiling on intricate workpieces.

BALLNOSE - MILLING - 2 or 4 Flute

Designed for general-purpose milling operations, STERN Endmills provide excellent stability, high material removal rates, and superior surface finish. Optimized flute geometry ensures smooth chip evacuation and reduced cutting forces, making them ideal for steel, alloy steel, stainless steel, cast iron, and hardened materials.

TIPRADIUS - MILLING - 4 Flute

Tip Radius Endmills combine the advantages of square endmills and ball nose cutters. The reinforced corner radius significantly improves edge strength, reduces chipping, and extends tool life during heavy machining operations. These tools are particularly suitable for semi-finishing and finishing applications where both durability and precision are critical.

ALUMINIUM - MILLING - 2 or 3 Flute

Specifically developed for non-ferrous materials, Aluminium Endmills feature highly polished flutes and optimized rake angles to prevent material adhesion and ensure efficient chip evacuation. These tools deliver outstanding cutting performance, excellent surface finish, and high productivity in aluminum and soft alloys.

ROUGHING - MILLING - 4 Flute

Designed for maximum material removal, Roughing Endmills feature a specialized serrated cutting profile that reduces cutting loads, minimizes vibration, and improves chip breaking performance. They are the preferred solution for heavy-duty rough machining and high-volume production environments.

PREMIUM CARBIDE SUBSTRATE

All STERN Endmills are manufactured from high-quality micro-grain solid carbide. The advanced carbide substrate provides:

- Superior hardness and wear resistance
- High fracture toughness
- Enhanced thermal stability
- Excellent dimensional accuracy
- Extended tool life under demanding cutting conditions

Typical carbide hardness ranges between 91–93 HRA, enabling reliable performance even in high-speed machining applications.

ADVANCED COATING TECHNOLOGY

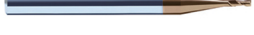
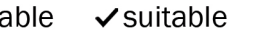
To maximize cutting performance and tool longevity, STERN Endmills utilize advanced coating technologies:

QUALITY & PERFORMANCE

Every STERN cutting tool is manufactured under strict quality control standards. Precision grinding technology, optimized flute geometries, and premium carbide grades ensure:

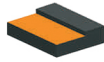
- Longer tool life
- Higher machining efficiency
- Improved surface finish
- Reduced vibration and chatter
- Consistent dimensional accuracy
- Reliable performance in industrial production

STERN Endmills are engineered to deliver precision, durability, and productivity for professional machining applications worldwide.

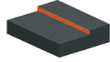
Products	Solid Carbide Cutters	Teeth	Φ	Application						Type	Page
				P	M	K	N	S	H		
HM-4E		4	1.0 – 20.0	✓	✓	✓		✓	✓	ENDMILL-4F	26-27
HM-2B		2	1.0 – 12.0	✓	✓	✓		✓	✓	BALLNOSE-2F	28-29
HM-4B		4	2.5 – 20.0	✓	✓	✓		✓	✓	BALLNOSE-4F	30
HM-2ES		2	0.3 – 0.9	✓	✓	✓		✓	✓	ENDMILL MICRO-SIZE	31
HM-2BS		2	0.3 – 0.8	✓	✓	✓		✓	✓	BALLNOSE MICRO-SIZE	32
HM-4EC		4	1.0 – 2.5	✓	✓	✓		✓	✓	ENDMILL TALL NECK	33
HM-2BC		2	1.0 – 2.5	✓	✓	✓		✓	✓	BALLNOSE TALL NECK	34
HM-4R		4	2.0 – 16.0	✓	✓	✓		✓	✓	TIPRADIUS	35-38
HM-4W		4	6.0 – 20.0	✓	✓	✓		✓	✓	ROUGH	39
AL-3E		3	1.0 – 20.0				✓			ENDMILL ALUMINIUM	40
AL-2B		2	1.0 – 12.0				✓			BALLNOSE ALUMINIUM	41
AL-3R		3	1.0 – 12.0				✓			TIPRADIUS ALUMINIUM	42

✓ very suitable ✓ suitable

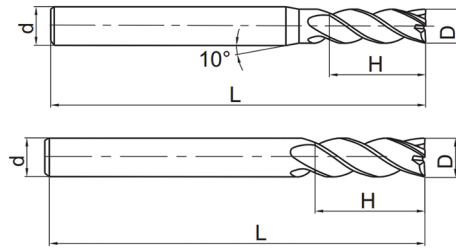
HM-4E



Bottom Machining



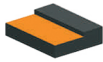
Side Machining



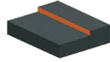
Type	Code	Dimensions(mm)			
		D	H	L	d
HM-4E-D1.0	1.0x3x50x4D	1.0	3	50	4.0
HM-4E-D1.0d6.0	1.0x3x50x6D	1.0	3	50	6.0
HM-4E-D1.5	1.5x4.5x50x4D	1.5	4.5	50	4.0
HM-4E-D1.5d6.0	1.5x4.5x50x6D	1.5	3	50	6.0
HM-4E-D2.0d2.0	2.0x6x50x2D	2.0	6	50	2.0
HM-4E-D2.0	2.0x6x50x4D	2.0	6	50	4.0
HM-4E-D2.0d6.0	2.0x6x50x6D	2.0	6	50	6.0
HM-4E-D2.0L75d2.0	2.0x9x75x2D	2.0	9	75	2.0
HM-4E-D2.0L100d2.0	2.0x12x100x2D	2.0	12	100	2.0
HM-4E-D2.5	2.5x8x50x4D	2.5	8	50	4.0
HM-4E-D2.5d6.0	2.5x8x50x6D	2.5	8	50	6.0
HM-4E-D3.0	3.0x9x50x3D	3.0	9	50	3.0
HM-4E-D3.0d4.0	3.0x9x50x4D	3.0	9	50	4.0
HM-4E-D3.0d6.0	3.0x9x50x6D	3.0	9	50	6.0
HM-4E-D3.0L75	3.0x12x75x3D	3.0	12	75	3.0
HM-4E-D3.0L75d6.0	3.0x12x75x6D	3.0	12	75	6.0
HM-4E-D3.0L100	3.0x15x100x3D	3.0	15	100	3.0
HM-4E-D3.0L100d6.0	3.0x15x100x6D	3.0	15	100	6.0
HM-4E-D3.5d4.0	3.5x12x50x4D	3.5	12	50	4.0
HM-4E-D4.0	4.0x12x50x4D	4.0	12	50	4.0
HM-4E-D4.0d6.0	4.0x12x50x6D	4.0	12	50	6.0
HM-4E-D4.0L75	4.0x15x75x4D	4.0	15	75	4.0
HM-4E-D4.0L75d6.0	4.0x15x75x6D	4.0	15	75	6.0
HM-4E-D4.0L100	4.0x20x100x4D	4.0	20	100	4.0
HM-4E-D4.0L100d6.0	4.0x20x100x6D	4.0	20	100	6.0
HM-4E-D4.5d6.0	4.5x12x50x6D	4.5	12	50	6.0
HM-4E-D5.0	5.0x13x50x5D	5.0	13	50	5.0
HM-4E-D5.0d6.0	5.0x13x50x6D	5.0	13	50	6.0
HM-4E-D5.0L75	5.0x20x75x5D	5.0	20	75	5.0
HM-4E-D5.0L100	5.0x25x100x5D	5.0	25	100	5.0
HM-4E-D5.5d6.0	5.5x16x50x6D	5.5	16	50	6.0
HM-4E-D6.0	6.0x16x50x6D	6.0	16	50	6.0
HM-4E-D6.0L75	6.0x25x75x6D	6.0	25	75	6.0
HM-4E-D6.0L100	6.0x30x100x6D	6.0	30	100	6.0
HM-4E-D6.0L150	6.0x35x150x6D	6.0	35	150	6.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

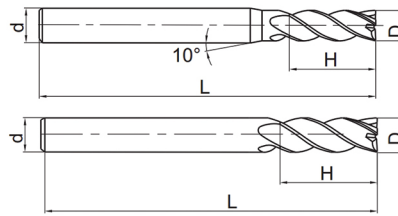
HM-4E



Bottom Machining

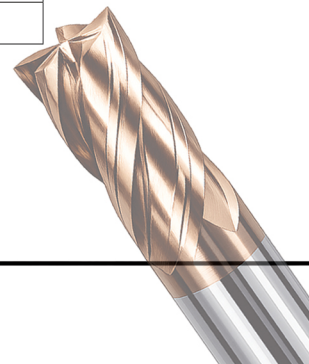


Side Machining

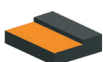


Type	Code	Dimensions(mm)			
		D	H	L	d
HM-4E-D6.5d8.0	6.5x20x60x8D	6.5	20	60	8.0
HM-4E-D7.0d8.0	7.0x20x60x8D	7.0	20	60	8.0
HM-4E-D7.0D11008.0	7.0x30x100x8D	7.0	30	100	8.0
HM-4E-D8.0	8.0x20x60x8D	8.0	20	60	8.0
HM-4E-D8.0L75	8.0x30x75x8D	8.0	30	75	8.0
HM-4E-D8.0L100	8.0x35x100x8D	8.0	35	100	8.0
HM-4E-D8.0L120	8.0x40x120x8D	8.0	40	120	8.0
HM-4E-D8.0L150	8.0x40x150x8D	8.0	40	150	8.0
HM-4E-D8.0L200	8.0x45x200x8D	8.0	45	200	8.0
HM-4E-D9.0.0d10	9.0x25x75x10D	9.0	25	75	10.0
HM-4E-D9.0L100d10	9.0x40x100x10D	9.0	40	100	10.0
HM-4E-D10.0	10.0x25x75x10D	10.0	25	75	10.0
HM-4E-D10.0L100	10.0x40x100x10D	10.0	40	100	10.0
HM-4E-D10.0L120	10.0x55x120x10D	10.0	55	120	10.0
HM-4E-D10.0L150	10.0x55x150x10D	10.0	55	150	10.0
HM-4E-D10.0L200	10.0x60x200x10D	10.0	60	200	10.0
HM-4E-D11.0d12.0	11.0x30x75x12D	11.0	30	75	12.0
HM-4E-D12.0	12.0x30x75x12D	12.0	30	75	12.0
HM-4E-D12.0L100	12.0x45x100x12D	12.0	45	100	12.0
HM-4E-D12.0L120	12.0x60x120x12D	12.0	60	120	12.0
HM-4E-D12.0L150	12.0x60x150x12D	12.0	60	150	12.0
HM-4E-D12.0L200	12.0x65x200x12D	12.0	65	200	12.0
HM-4E-D13.0d14.0	13.0x45x100x14D	13.0	45	100	14.0
HM-4E-D14.0	14.0x45x100x14D	14.0	45	100	14.0
HM-4E-D14.0L150	14.0x50x150x14D	14.0	50	150	14.0
HM-4E-D14.0L200	14.0x70x200x14D	14.0	70	200	14.0
HM-4E-D15.0d16.0	15.0x45x100x16D	15.0	45	100	16.0
HM-4E-D16.0	16.0x45x100x16D	16.0	45	100	16.0
HM-4E-D16.0L150	16.0x70x150x16D	16.0	70	150	16.0
HM-4E-D16.0L200	16.0x75x200x16D	16.0	75	200	16.0
HM-4E-D18.0	18.0x45x100x18D	18.0	45	100	18.0
HM-4E-D18.0L150	18.0x70x150x18D	18.0	50	150	18.0
HM-4E-D18.0L200	18.0x75x200x18D	18.0	75	200	18.0
HM-4E-D20.0	20.0x45x100x20D	20.0	45	100	20.0
HM-4E-D20.0L150	20.0x70x150x20D	20.0	70	150	20.0
HM-4E-D20.0L200	20.0x75x200x20D	20.0	75	200	20.0

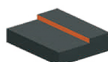
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-2ES



Bottom Machining

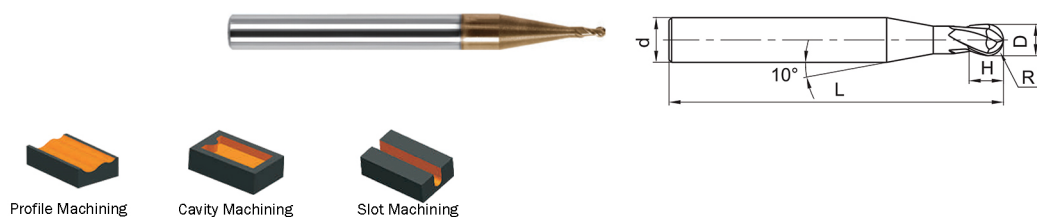


Side Machining

Type	Code	Dimensions(mm)			
		D	H	L	d
HM-2ES-D0.30	0.3x0.9x50x4D	0.30	0.9	50	4.0
HM-2ES-D0.40	0.4x1.2x50x4D	0.40	1.2	50	4.0
HM-2ES-D0.50	0.5x1.5x50x4D	0.50	1.5	50	4.0
HM-2ES-D0.60	0.6x1.8x50x4D	0.60	1.8	50	4.0
HM-2ES-D0.70	0.7x2.1x50x4D	0.70	2.1	50	4.0
HM-2ES-D0.80	0.8x2.4x50x4D	0.80	2.4	50	4.0
HM-2ES-D0.90	0.9x2.7x50x4D	0.90	2.7	50	4.0

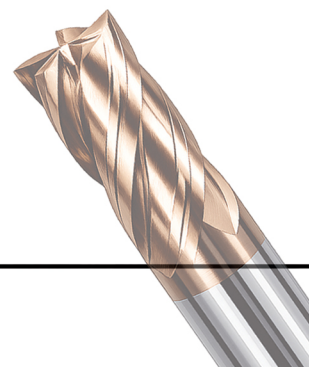
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

HM-2BS

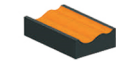


Type	Code	Dimensions(mm)			
		D	H	L	d
HM-2BS-R0.15	R0.15x0.6x50x4D	0.30	0.60	50	4.0
HM-2BS-R0.20	R0.20x0.6x50x4D	0.40	0.60	50	4.0
HM-2BS-R0.25	R0.25x0.6x50x4D	0.50	0.60	50	4.0
HM-2BS-R0.30	R0.30x0.6x50x4D	0.60	0.60	50	4.0
HM-2BS-R0.35	R0.35x0.6x50x4D	0.70	0.60	50	4.0
HM-2BS-R0.40	R0.40x0.6x50x4D	0.80	0.60	50	4.0

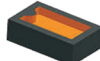
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-2B



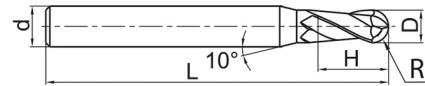
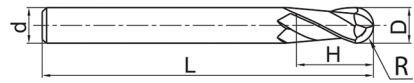
Profile Machining



Cavity Machining



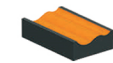
Slot Machining



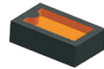
Type	Code	Dimensions(mm)			
		D	H	L	d
HM-2B-R0.50	R0.50x2x50x4D	1.0	2.0	50	4.0
HM-2B-R0.50d6.0	R0.50x2x50x6D	1.0	2.0	50	6.0
HM-2B-R0.50L75	R0.50x2x75x4D	1.0	2.0	75	4.0
HM-2B-R0.75	R0.75x3x50x4D	1.5	3.0	50	4.0
HM-2B-R0.75L75	R0.75x3x75x4D	1.5	3.0	75	4.0
HM-2B-R1.0d2.0	R1.0x2x50x2D	2.0	2.0	50	2.0
HM-2B-R1.0	R1.0x2x50x4D	2.0	2.0	50	4.0
HM-2B-R1.0L75d2.0	R1.0x6x75x2D	2.0	6.0	75	2.0
HM-2B-R1.0L75	R1.0x6x75x4D	2.0	6.0	75	4.0
HM-2B-R1.0L100d2.0	R1.0x6x100x2D	2.0	6.0	100	2.0
HM-2B-R1.25	R1.25x5x50x4D	2.5	5.0	50	4.0
HM-2B-R1.25d6.0	R1.25x5x50x6D	2.5	5.0	50	6.0
HM-2B-R1.50d3.0	R1.50x6x50x3D	3.0	6.0	50	3.0
HM-2B-R1.50	R1.50x6x50x4D	3.0	6.0	50	4.0
HM-2B-R1.50L100d3.0	R1.50x6x100x3D	3.0	6.0	100	3.0
HM-2B-R1.75	R1.75x7x50x4D	3.5	7.0	50	4.0
HM-2B-R2.0	R2.0x8x50x4D	4.0	8.0	50	4.0
HM-2B-R2.0L75	R2.0x8x75x4D	4.0	8.0	75	4.0
HM-2B-R2.0L100	R2.0x8x100x4D	4.0	8.0	100	4.0
HM-2B-R2.25d6.0	R2.25x9x50x6D	4.5	10.0	50	6.0
HM-2B-R2.50	R2.50x10x50x5D	5.0	10.0	50	5.0
HM-2B-R2.50L75	R2.50x10x75x5D	5.0	10.0	75	5.0
HM-2B-R2.50L100	R2.50x10x100x5D	5.0	10.0	100	5.0
HM-2B-R2.5L150	R2.5x10x150x5D	5.0	10.0	150	5.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

HM-2B



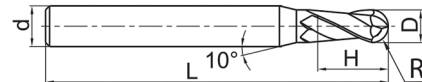
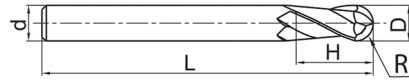
Profile Machining



Cavity Machining

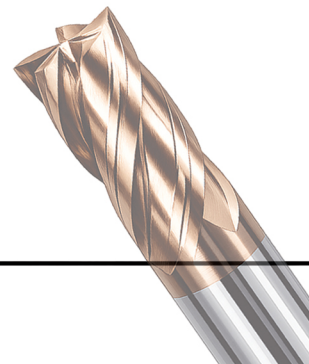


Slot Machining

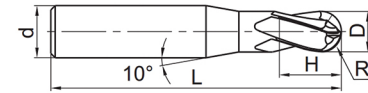
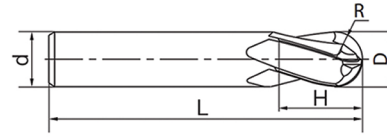


Type	Code	Dimensions(mm)			
		D	H	L	d
HM-2B-R3.0	R3.0x12x50x6D	6.0	12	50	6.0
HM-2B-R3.0L75	R3.0x12x75x6D	6.0	12	75	6.0
HM-2B-R3.0L100	R3.0x12x100x6D	6.0	12	100	6.0
HM-2B-R3.0L150	R3.0x12x150x6D	6.0	12	150	6.0
HM-2B-R3.5d8.0	R3.5x14x60x8D	7.0	14	60	8.0
HM-2B-R4.0	R4.0x16x60x8D	8.0	16	60	8.0
HM-2B-R4.0L75	R4.0x16x75x8D	8.0	16	75	8.0
HM-2B-R4.0L100	R4.0x16x100x8D	8.0	16	100	8.0
HM-2B-R4.0L150	R4.0x16x150x8D	8.0	16	150	8.0
HM-2B-R4.0L200	R4.0x16x200x8D	8.0	16	200	8.0
HM-2B-R5.0	R5.0x20x75x10D	10.0	20	75	10.0
HM-2B-R5.0L100	R5.0x20x100x10D	10.0	20	100	10.0
HM-2B-R5.0L150	R5.0x20x150x10D	10.0	20	150	10.0
HM-2B-R5.0L200	R5.0x20x200x10D	10.0	20	200	10.0
HM-2B-R6.0	R6.0x24x75x12D	12.0	24	75	12.0
HM-2B-R6.0L100	R6.0x24x100x12D	12.0	24	100	12.0
HM-2B-R6.0L150	R6.0x24x150x12D	12.0	24	150	12.0
HM-2B-R6.0L200	R6.0x24x200x12D	12.0	24	200	12.0

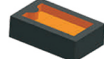
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-4B



Profile Machining



Cavity Machining

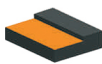
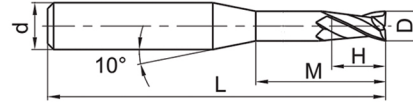


Slot Machining

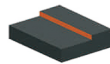
Type	Code	Dimensions(mm)			
		D	H	L	d
HM-4B-R1.25	R1.25x5x50x4D-4F	2.5	5	50	4.0
HM-4B-R1.5	R1.5x6x50x3D-4F	3.0	6	50	3.0
HM-4B-R1.5L75	R1.5x6x75x3D-4F	3.0	6	75	3.0
HM-4B-R1.5L100	R1.5x6x100x3D-4F	3.0	6	100	3.0
HM-4B-R2.0	R2.0x8x50x4D-4F	4.0	8	50	4.0
HM-4B-R2.0L75	R2.0x8x75x4D-4F	4.0	8	75	4.0
HM-4B-R2.0L100	R2.0x8x100x4D-4F	4.0	8	100	4.0
HM-4B-R2.5	R2.5x10x50x5D-4F	5.0	10	50	5.0
HM-4B-R2.5L75	R2.5x10x75x5D-4F	5.0	10	75	5.0
HM-4B-R2.5L100	R2.5x10x100x5D-4F	5.0	10	100	5.0
HM-4B-R3.0	R3.0x12x50x6D-4F	6.0	12	50	6.0
HM-4B-R3.0L75	R3.0x12x75x6D-4F	6.0	12	75	6.0
HM-4B-R3.0L100	R3.0x12x100x6D-4F	6.0	12	100	6.0
HM-4B-R4.0	R4.0x16x60x8D-4F	8.0	16	60	8.0
HM-4B-R4.0L75	R4.0x16x75x8D-4F	8.0	16	75	8.0
HM-4B-R4.0L100	R4.0x16x100x8D-4F	8.0	16	100	8.0
HM-4B-R5.0	R5.0x20x75x10D-4F	10.0	20	75	10.0
HM-4B-R5.0L100	R5.0x20x100x10D-4F	10.0	20	100	10.0
HM-4B-R6.0	R6.0x24x75x12D-4F	12.0	24	75	12.0
HM-4B-R6.0L100	R6.0x24x100x12D-4F	12.0	24	100	12.0
HM-4B-R7.0	R7.0x28x100x14D-4F	14.0	28	100	14.0
HM-4B-R8.0	R8.0x32x100x16D-4F	16.0	32	100	16.0
HM-4B-R8.0L150	R8.0x32x150x16D-4F	16.0	32	150	16.0
HM-4B-R10.0	R10.0x40x100x20D-4F	20.0	40	100	20.0
HM-4B-R10.0L150	R10.0x40x150x20D-4F	20.0	40	150	20.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

HM-4EC



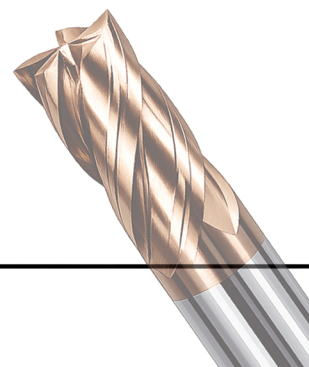
Bottom Machining



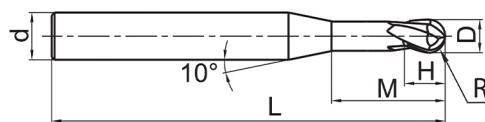
Side Machining

Type	Code	Dimensions(mm)				
		D	M	H	L	d
HM-4EC-D1.0M9.0H9.0	1.0x9x50x4D	1.0	9.0	9	50	4.0
HM-4EC-D1.0M3.0H16.0	1.0x16x50x4D	1.0	3.0	16	50	4.0
HM-4EC-D1.0M3.0H16.0d6.0	1.0x16x50x6D	1.0	3.0	16	50	6.0
HM-4EC-D1.0M3.0H20.0	1.0x20x50x4D	1.0	3.0	20	50	4.0
HM-4EC-D1.0M3.0H25.0	1.0x25x75x4D	1.0	3.0	25	75	4.0
HM-4EC-D1.5M9.0H9.0	1.5x9x50x4D	1.5	9.0	9	50	4.0
HM-4EC-D1.5M4.5H16.0	1.5x16x50x4D	1.5	4.5	16	50	4.0
HM-4EC-D1.5M4.5H16.0d6.0	1.5x16x50x6D	1.5	4.5	16	50	6.0
HM-4EC-D1.5M4.5H20.0	1.5x20x50x4D	1.5	4.5	20	50	4.0
HM-4EC-D1.5M4.5H25.0	1.5x25x75x4D	1.5	4.5	25	75	4.0
HM-4EC-D2.0M9.0H9.0	2.0x9x50x4D	2.0	9.0	9	50	4.0
HM-4EC-D2.0M6.0H16.0	2.0x16x50x4D	2.0	6.0	16	50	4.0
HM-4EC-D2.0M6.0H16.0d6.0	2.0x16x50x6D	2.0	6.0	16	50	6.0
HM-4EC-D2.0M6.0H20.0	2.0x20x50x6D	2.0	6.0	20	50	6.0
HM-4EC-D2.0M6.0H25.0	2.0x25x75x4D	2.0	6.0	25	75	4.0
HM-4EC-D2.5M8.0H16.0	2.5x16x50x4D	2.5	8.0	16	50	4.0
HM-4EC-D2.5M8.0H20.0	2.5x20x50x4D	2.5	8.0	20	50	4.0
HM-4EC-D2.5M8.0H25.0	2.5x25x75x4D	2.5	8.0	25	75	4.0

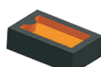
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-2BC



Profile Machining



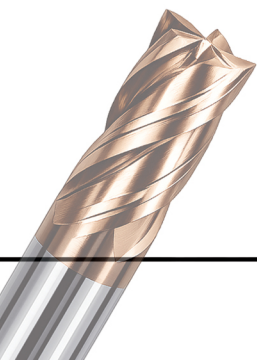
Cavity Machining



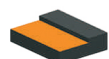
Slot Machining

Type	Code	Dimensions(mm)				
		D	M	H	L	d
HM-2BC-R0.50M2.0H10.0	R0.50x10x50x4D	1.0	2.0	10	50	4.0
HM-2BC-R0.50M2.0H16.0	R0.50x16x50x4D	1.0	2.0	16	50	4.0
HM-2BC-R0.50M2.0H20.0	R0.50x20x50x4D	1.0	2.0	20	50	4.0
HM-2BC-R0.50M2.0H25.0	R0.50x25x75x4D	1.0	2.0	25	75	4.0
HM-2BC-R0.75M3.0H10.0	R0.75x10x50x4D	1.5	3.0	10	50	4.0
HM-2BC-R0.75M3.0H16.0	R0.75x16x50x4D	1.5	3.0	16	50	4.0
HM-2BC-R0.75M3.0H20.0	R0.75x20x50x4D	1.5	3.0	20	50	4.0
HM-2BC-R0.75M3.0H25.0	R0.75x25x75x4D	1.5	3.0	25	75	4.0
HM-2BC-R1.0M4.0H10.0	R1.0x10x50x4D	2.0	4.0	10	50	4.0
HM-2BC-R1.0M4.0H16.0	R1.0x16x50x4D	2.0	4.0	16	50	4.0
HM-2BC-R1.0M4.0H20.0	R1.0x20x50x4D	2.0	4.0	20	50	4.0
HM-2BC-R1.0M4.0H25.0	R1.0x25x75x4D	2.0	4.0	25	75	4.0
HM-2BC-R1.25M5.0H10.0	R1.25x10x50x4D	2.5	5.0	10	50	4.0
HM-2BC-R1.25M5.0H16.0	R1.25x16x50x4D	2.5	5.0	16	50	4.0
HM-2BC-R1.25M5.0H20.0	R1.25x20x50x4D	2.5	5.0	20	50	4.0
HM-2BC-R1.25M5.0H25.0	R1.25x25x75x4D	2.5	5.0	25	75	4.0

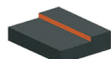
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-4R



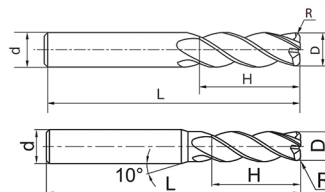
Bottom Machining



Side Machining

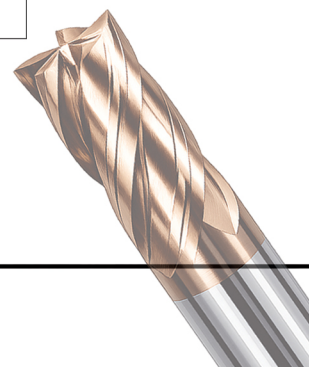


Slot Milling

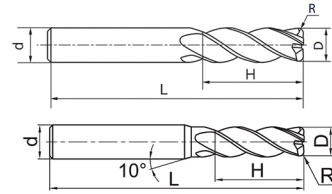


Type	Code	Dimensions(mm)				
		D	R	H	L	d
HM-4R-D2.0R0.5d2.0	2.0R0.5x6x50x2D	2.0	0.5	6	50	2.0
HM-4R-D2.0R0.5	2.0R0.5x9x50x4D	2.0	0.5	9	50	4.0
HM-4R-D2.0R0.5d6.0	2.0R0.5x9x50x6D	2.0	0.5	9	50	6.0
HM-4R-D3.0R0.5d3.0	3.0R0.5x9x50x3D	3.0	0.5	9	50	3.0
HM-4R-D3.0R0.5	3.0R0.5x9x50x4D	3.0	0.5	9	50	4.0
HM-4R-D3.0R0.5d6.0	3.0R0.5x9x50x6D	3.0	0.5	9	50	6.0
HM-4R-D3.0R0.5L75d3.0	3.0R0.5x12x75x3D	3.0	0.5	12	75	3.0
HM-4R-D3.0R0.5L75	3.0R0.5x12x75x4D	3.0	0.5	12	75	4.0
HM-4R-D3.0R0.5L75d6.0	3.0R0.5x12x75x6D	3.0	0.5	12	75	6.0
HM-4R-D3.0R0.5L100d3.0	3.0R0.5x15x100x3D	3.0	0.5	15	100	3.0
HM-4R-D4.0R0.5	4.0R0.5x12x50x4D	4.0	0.5	12	50	4.0
HM-4R-D4.0R0.5d6.0	4.0R0.5x12x50x6D	4.0	0.5	12	50	6.0
HM-4R-D4.0R0.5L75	4.0R0.5x15x75x4D	4.0	0.5	15	75	4.0
HM-4R-D4.0R0.5L75d6.0	4.0R0.5x15x75x6D	4.0	0.5	15	75	6.0
HM-4R-D4.0R0.5L100	4.0R0.5x20x100x4D	4.0	0.5	20	100	4.0
HM-4R-D5.0R0.5	5.0R0.5x13x50x5D	5.0	0.5	13	50	5.0
HM-4R-D5.0R0.5L75	5.0R0.5x20x75x5D	5.0	0.5	20	75	5.0
HM-4R-D5.0R0.5L100	5.0R0.5x25x100x5D	5.0	0.5	25	100	5.0
HM-4R-D6.0R0.5	6.0R0.5x16x50x6D	6.0	0.5	16	50	6.0
HM-4R-D6.0R0.5L75	6.0R0.5x25x75x6D	6.0	0.5	25	75	6.0
HM-4R-D6.0R0.5L100	6.0R0.5x30x100x6D	6.0	0.5	30	100	6.0
HM-4R-D6.0R0.5L150	6.0R0.5x35x150x6D	6.0	0.5	35	150	6.0
HM-4R-D8.0R0.5	8.0R0.5x20x60x8D	8.0	0.5	20	60	8.0
HM-4R-D8.0R0.5L75	8.0R0.5x30x75x8D	8.0	0.5	30	75	8.0
HM-4R-D8.0R0.5L100	8.0R0.5x35x100x8D	8.0	0.5	35	100	8.0
HM-4R-D8.0R0.5L150	8.0R0.5x40x150x8D	8.0	0.5	40	150	8.0
HM-4R-D10.0R0.5	10.0R0.5x25x75x10D	10.0	0.5	25	75	10.0
HM-4R-D10.0R0.5L100	10.0R0.5x40x100x10D	10.0	0.5	40	100	10.0
HM-4R-D10.0R0.5L150	10.0R0.5x55x150x10D	10.0	0.5	55	150	10.0
HM-4R-D10.0R0.5L200	10.0R0.5x60x200x10D	10.0	0.5	60	200	10.0
HM-4R-D12.0R0.5	12.0R0.5x30x75x12D	12.0	0.5	30	75	12.0
HM-4R-D12.0R0.5L100	12.0R0.5x45x100x12D	12.0	0.5	45	100	12.0
HM-4R-D12.0R0.5L150	12.0R0.5x60x150x12D	12.0	0.5	60	150	12.0
HM-4R-D14.0R0.5	14.0R0.5x45x100x14D	14.0	0.5	45	100	14.0
HM-4R-D14.0R0.5L150	14.0R0.5x70x150x14D	14.0	0.5	70	150	14.0
HM-4R-D16.0R0.5	16.0R0.5x45x100x16D	16.0	0.5	45	100	16.0
HM-4R-D16.0R0.5L150	16.0R0.5x70x150x14D	16.0	0.5	70	150	16.0

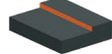
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-4R



Bottom Machining



Side Machining



Slot Milling

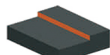
Type	Code	Dimensions(mm)				
		D	R	H	L	d
HM-4R-D3.0R1.0d3.0	3.0R1.0x9x50x3D	3.0	1.0	9	50	3.0
HM-4R-D3.0R1.0L75d3.0	3.0R1.0x12x75x3D	3.0	1.0	12	75	3.0
HM-4R-D3.0R1.0L100d3.0	3.0R1.0x15x100x3D	3.0	1.0	15	100	3.0
HM-4R-D4.0R1.0	4.0R1.0x12x50x4D	4.0	1.0	12	50	4.0
HM-4R-D4.0R1.0d6.0	4.0R1.0x12x50x6D	4.0	1.0	12	50	6.0
HM-4R-D4.0R1.0L75	4.0R1.0x15x75x4D	4.0	1.0	15	75	4.0
HM-4R-D4.0R1.0L75d6.0	4.0R1.0x15x75x6D	4.0	1.0	15	75	6.0
HM-4R-D4.0R1.0L100	4.0R1.0x20x100x4D	4.0	1.0	20	100	4.0
HM-4R-D5.0R1.0	5.0R1.0x13x50x5D	5.0	1.0	13	50	5.0
HM-4R-D5.0R1.0L75	5.0R1.0x20x75x5D	5.0	1.0	20	75	5.0
HM-4R-D5.0R1.0L100	5.0R1.0x25x100x5D	5.0	1.0	25	100	5.0
HM-4R-D6.0R1.0	6.0R1.0x16x50x6D	6.0	1.0	16	50	6.0
HM-4R-D6.0R1.0L75	6.0R1.0x25x75x6D	6.0	1.0	25	75	6.0
HM-4R-D6.0R1.0L100	6.0R1.0x30x100x6D	6.0	1.0	30	100	6.0
HM-4R-D6.0R1.0L150	6.0R1.0x35x150x6D	6.0	1.0	35	150	6.0
HM-4R-D8.0R1.0	8.0R1.0x20x60x8D	8.0	1.0	20	60	8.0
HM-4R-D8.0R1.0L75	8.0R1.0x30x75x8D	8.0	1.0	30	75	8.0
HM-4R-D8.0R1.0L100	8.0R1.0x35x100x8D	8.0	1.0	35	100	8.0
HM-4R-D8.0R1.0L150	8.0R1.0x40x150x8D	8.0	1.0	40	150	8.0
HM-4R-D10.0R1.0	10.0R1.0x25x75x10D	10.0	1.0	25	75	10.0
HM-4R-D10.0R1.0L100	10.0R1.0x40x100x10D	10.0	1.0	40	100	10.0
HM-4R-D10.0R1.0L150	10.0R1.0x55x150x10D	10.0	1.0	55	150	10.0
HM-4R-D10.0R1.0L200	10.0R1.0x60x200x10D	10.0	1.0	60	200	10.0
HM-4R-D12.0R1.0	12.0R1.0x30x75x12D	12.0	1.0	30	75	12.0
HM-4R-D12.0R1.0L100	12.0R1.0x45x100x12D	12.0	1.0	45	100	12.0
HM-4R-D12.0R1.0L150	12.0R1.0x60x150x12D	12.0	1.0	60	150	12.0
HM-4R-D14.0R1.0	14.0R1.0x45x100x14D	14.0	1.0	45	100	14.0
HM-4R-D14.0R1.0L150	14.0R1.0x70x150x14D	14.0	1.0	70	150	14.0
HM-4R-D16.0R1.0	16.0R1.0x45x100x16D	16.0	1.0	45	100	16.0
HM-4R-D16.0R1.0L150	16.0R1.0x70x150x14D	16.0	1.0	70	150	16.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

HM-4R



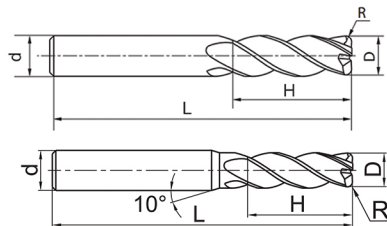
Bottom Machining



Side Machining

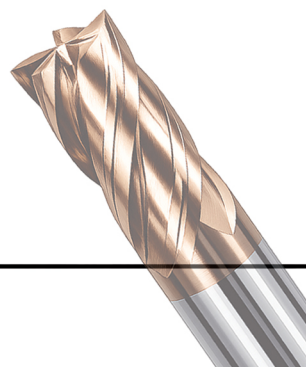


Slot Milling

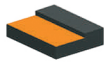


Type	Code	Dimensions(mm)				
		D	R	H	L	d
HM-4R-D6.0R1.5	6.0R1.5x16x50x6D	6.0	1.5	16	50	6.0
HM-4R-D6.0R1.5L75	6.0R1.5x25x75x6D	6.0	1.5	25	75	6.0
HM-4R-D6.0R1.5L100	6.0R1.5x30x100x6D	6.0	1.5	30	100	6.0
HM-4R-D8.0R1.5L60	8.0R1.5x20x60x8D	8.0	1.5	20	60	8.0
HM-4R-D8.0R1.5L75	8.0R1.5x30x75x8D	8.0	1.5	30	75	8.0
HM-4R-D8.0R1.5L100	8.0R1.5x35x100x8D	8.0	1.5	35	100	8.0
HM-4R-D10.0R1.5	10.0R1.5x25x75x10D	10.0	1.5	25	75	10.0
HM-4R-D10.0R1.5L100	10.0R1.5x40x100x10D	10.0	1.5	40	100	10.0
HM-4R-D12.0R1.5	12.0R1.5x30x75x12D	12.0	1.5	30	75	12.0
HM-4R-D12.0R1.5L100	12.0R1.5x45x100x12D	12.0	1.5	45	100	12.0

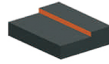
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



HM-4R



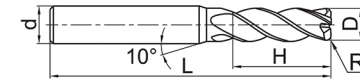
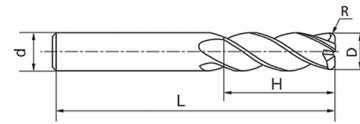
Bottom Machining



Side Machining

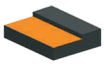


Slot Milling

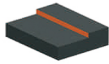


Type	Code	Dimensions(mm)				
		D	R	H	L	d
HM-4R-D6.0R2.0	6.0R2.0x16x50x6D	6.0	2.0	16	50	6.0
HM-4R-D6.0R2.0L75	6.0R2.0x25x75x6D	6.0	2.0	25	75	6.0
HM-4R-D6.0R2.0L100	6.0R2.0x30x100x6D	6.0	2.0	30	100	6.0
HM-4R-D8.0R2.0L60	8.0R2.0x20x60x8D	8.0	2.0	20	60	8.0
HM-4R-D8.0R2.0L75	8.0R2.0x30x75x8D	8.0	2.0	30	75	8.0
HM-4R-D8.0R2.0L100	8.0R2.0x35x100x8D	8.0	2.0	35	100	8.0
HM-4R-D10.0R2.0	10.0R2.0x25x75x10D	10.0	2.0	25	75	10.0
HM-4R-D10.0R2.0L100	10.0R2.0x40x100x10D	10.0	2.0	40	100	10.0
HM-4R-D12.0R2.0	12.0R2.0x30x75x12D	12.0	2.0	30	75	12.0
HM-4R-D12.0R2.0L100	12.0R2.0x45x100x12D	12.0	2.0	45	100	12.0
HM-4R-D14.0R2.0	14.0R2.0x45x100x14D	14.0	2.0	45	100	14.0
HM-4R-D16.0R2.0	16.0R2.0x45x100x16D	16.0	2.0	45	100	16.0

HM-4R



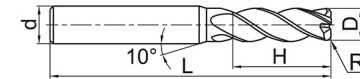
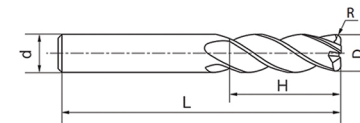
Bottom Machining



Side Machining



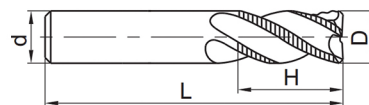
Slot Milling



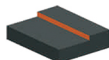
Type	Code	Dimensions(mm)				
		D	R	H	L	d
HM-4R-D10.0R3.0	10.0R3.0x25x75x10D	10.0	3.0	25	75	10.0
HM-4R-D10.0R3.0L100	10.0R3.0x40x100x10D	10.0	3.0	40	100	10.0
HM-4R-D12.0R3.0	12.0R3.0x30x75x12D	12.0	3.0	30	75	12.0
HM-4R-D12.0R3.0L100	12.0R3.0x45x100x12D	12.0	3.0	45	100	12.0
HM-4R-D14.0R3.0	14.0R3.0x45x100x14D	14.0	3.0	45	100	14.0
HM-4R-D16.0R3.0	16.0R3.0x45x100x16D	16.0	3.0	45	100	16.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓

HM-4W



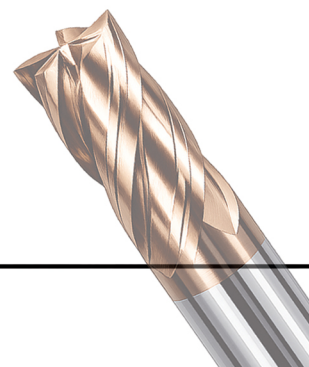
Bottom Machining



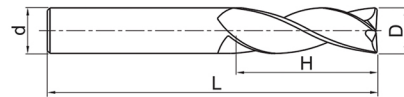
Side Machining

Type	Code	Dimensions(mm)			
		D	H	L	d
HM-4W-D4.0	4.0x12x50x4D	4.0	12	50	4.0
HM-4W-D5.0	5.0x13x50x5D	5.0	13	50	5.0
HM-4W-D6.0	6.0x16x50x6D	6.0	16	50	6.0
HM-4W-D8.0	8.0x20x60x8D	8.0	20	60	8.0
HM-4W-D10.0	10.0x25x75x10D	10.0	25	75	10.0
HM-4W-D12.0	12.0x30x75x12D	12.0	30	75	12.0
HM-4W-D14.0	14.0x45x100x14D	14.0	45	100	14.0
HM-4W-D16.0	16.0x45x100x16D	16.0	45	100	16.0
HM-4W-D20.0	20.0x45x100x20D	20.0	45	100	20.0

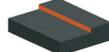
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
✓	✓	✓	✓	✓		✓	✓	✓



AL-3E



Bottom Machining

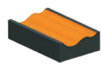
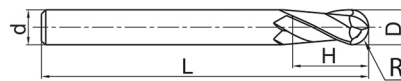
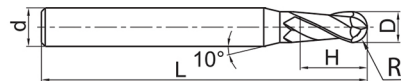


Side Machining

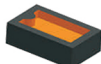
Type	Code	Dimensions(mm)			
		D	H	L	d
AL-3E-D1.0	1.0x3x50x4D-AL	1.0	3	50	4.0
AL-3E-D1.5	1.5x4.5x50x4D-AL	1.5	4	50	4.0
AL-3E-D2.0	2.0x6x50x4D-AL	2.0	6	50	4.0
AL-3E-D3.0	3.0x9x50x3D-AL	3.0	9	50	3.0
AL-3E-D3.0L75	3.0x12x75x3D-AL	3.0	12	75	3.0
AL-3E-D3.0L100	3.0x15x100x3D-AL	3.0	15	100	3.0
AL-3E-D4.0	4.0x12x50x4D-AL	4.0	12	50	4.0
AL-3E-D4.0L75	4.0x15x75x4D-AL	4.0	15	75	4.0
AL-3E-D4.0L100	4.0x20x100x4D-AL	4.0	20	100	4.0
AL-3E-D5.0	5.0x13x50x5D-AL	5.0	13	50	5.0
AL-3E-D5.0L75	5.0x20x75x5D-AL	5.0	20	75	5.0
AL-3E-D5.0L100	5.0x25x100x5D-AL	5.0	25	100	5.0
AL-3E-D6.0	6.0x16x50x6D-AL	6.0	16	50	6.0
AL-3E-D6.0L75	6.0x25x75x6D-AL	6.0	25	75	6.0
AL-3E-D6.0L100	6.0x30x100x6D-AL	6.0	30	100	6.0
AL-3E-D8.0	8.0x20x60x8D-AL	8.0	20	60	8.0
AL-3E-D8.0L75	8.0x30x75x8D-AL	8.0	30	75	8.0
AL-3E-D8.0L100	8.0x35x100x8D-AL	8.0	35	100	8.0
AL-3E-D8.0L150	8.0x40x150x8D-AL	8.0	40	150	8.0
AL-3E-D10.0	10.0x25x75x10D-AL	10.0	25	75	10.0
AL-3E-D10.0L100	10.0x40x100x10D-AL	10.0	40	100	10.0
AL-3E-D10.0L150	10.0x55x150x10D-AL	10.0	55	150	10.0
AL-3E-D12.0	12.0x30x75x12D-AL	12.0	30	75	12.0
AL-3E-D12.0L100	12.0x45x100x12D-AL	12.0	45	100	12.0
AL-3E-D12.0L150	12.0x60x150x12D-AL	12.0	60	150	12.0
AL-3E-D14.0	14.0x45x100x14D-AL	14.0	45	100	14.0
AL-3E-D14.0L150	14.0x50x150x14D-AL	14.0	50	150	14.0
AL-3E-D16.0	16.0x45x100x16D-AL	16.0	45	100	16.0
AL-3E-D16.0L150	16.0x50x150x16D-AL	16.0	50	150	16.0
AL-3E-D18.0	18.0x45x100x18D-AL	18.0	45	100	18.0
AL-3E-D18.0L150	18.0x50x150x18D-AL	18.0	50	150	18.0
AL-3E-D20.0	20.0x45x100x20D-AL	20.0	45	100	20.0
AL-3E-D20.0L150	20.0x70x150x20D-AL	20.0	70	150	20.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
					✓			

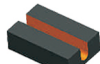
AL-2B



Profile Machining



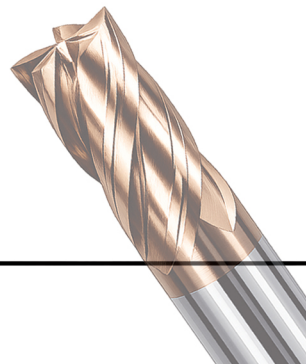
Cavity Machining



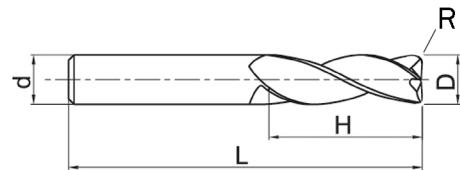
Slot Machining

Type	Code	Dimensions(mm)			
		D	H	L	d
AL-2B-R0.50	R0.50x2x50x4D-AL	1.0	2.0	50	4.0
AL-2B-R0.75	R0.75x3x50x4D-AL	1.5	3.0	50	4.0
AL-2B-R1.0	R1.0x4x50x4D-AL	2.0	4.0	50	4.0
AL-2B-R1.50	R1.50x6x50x3D-AL	3.0	6.0	50	3.0
AL-2B-R2.0	R2.0x8x50x4D-AL	4.0	8.0	50	4.0
AL-2B-R2.50	R2.5x10x50x5D-AL	5.0	10	50	5.0
AL-2B-R3.0	R3.0x12x50x6D-AL	6.0	12	50	6.0
AL-2B-R4.0	R4.0x16x60x8D-AL	8.0	16	60	8.0
AL-2B-R5.0	R5.0x20x75x10D-AL	10.0	20	75	10.0
AL-2B-R6.0	R6.0x24x75x12D-AL	12.0	24	75	12.0

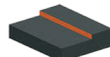
P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
					✓			



AL-3R



Bottom Machining



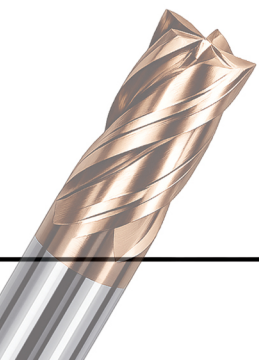
Side Machining



Slot Milling

Type	Code	Dimensions(mm)				
		D	R	H	L	d
AL-3R-D3.0R0.50	3.0R0.50x9x50x3D-AL	3.0	0.5	9	50	3.0
AL-3R-D4.0R0.50	4.0R0.50x12x50x4D-AL	4.0	0.5	12	50	4.0
AL-3R-D5.0R0.50	5.0R0.50x13x50x5D-AL	5.0	0.5	13	50	5.0
AL-3R-D6.0R0.50	6.0R0.50x16x50x6D-AL	6.0	0.5	16	50	6.0
AL-3R-D8.0R0.50	8.0R0.50x20x60x8D-AL	8.0	0.5	20	60	8.0
AL-3R-D10.0R0.50	10.0R0.50x25x75x10D-AL	10.0	0.5	25	75	10.0
AL-3R-D12.0R0.50	12.0R0.50x30x75x12D-AL	12.0	0.5	30	75	12.0

P			M	K	N	S		H
Carbon steel	Alloy steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloy	High-temp alloy	Titanium alloy	50 – 60 HRC
					✓			



DESCRIPTON	INSERT DESCRIPTION	2
	ISO CODE	3
	GRADE INSERTS	5
	COATED INSERTS	6
GENERAL TURNING	DNMG	7
	TNMG	8
	CNMG	9
	WNMG	10
	SNMG	11
	DCMT	12
	CCMT	13
	VBMT	14
	TCMT	15
	DCGX	16
	CCGX	17
	VCGX	18
GROVING	GROVING	19
THREADING	THREADING	20
MILLING INSERT	MILLING-INSERT	21
MILLING	ENDMILL DESCRIPTION	24
	GRIDE ENDMILL	25
	ENDMILL	26
	BALL-NOSE	28
	BALL-NOSE-4F	30
	ENDMILL-TALLNECK-MILLING	33
	BALLNOSE-TALLNECK-MILLING	34
	TIPRADIUS-MILLING	35
	ROUGH-MILLING	39
	ALUMINIUM-MILLING	40

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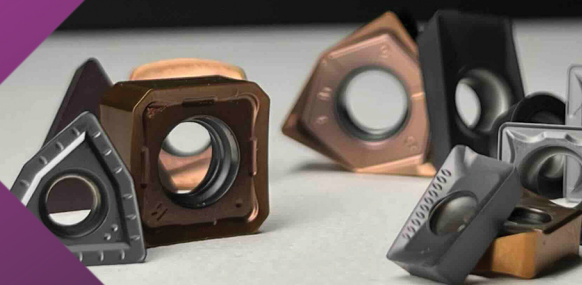
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