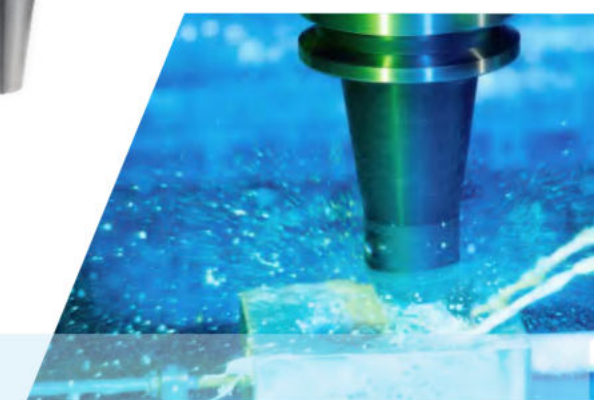


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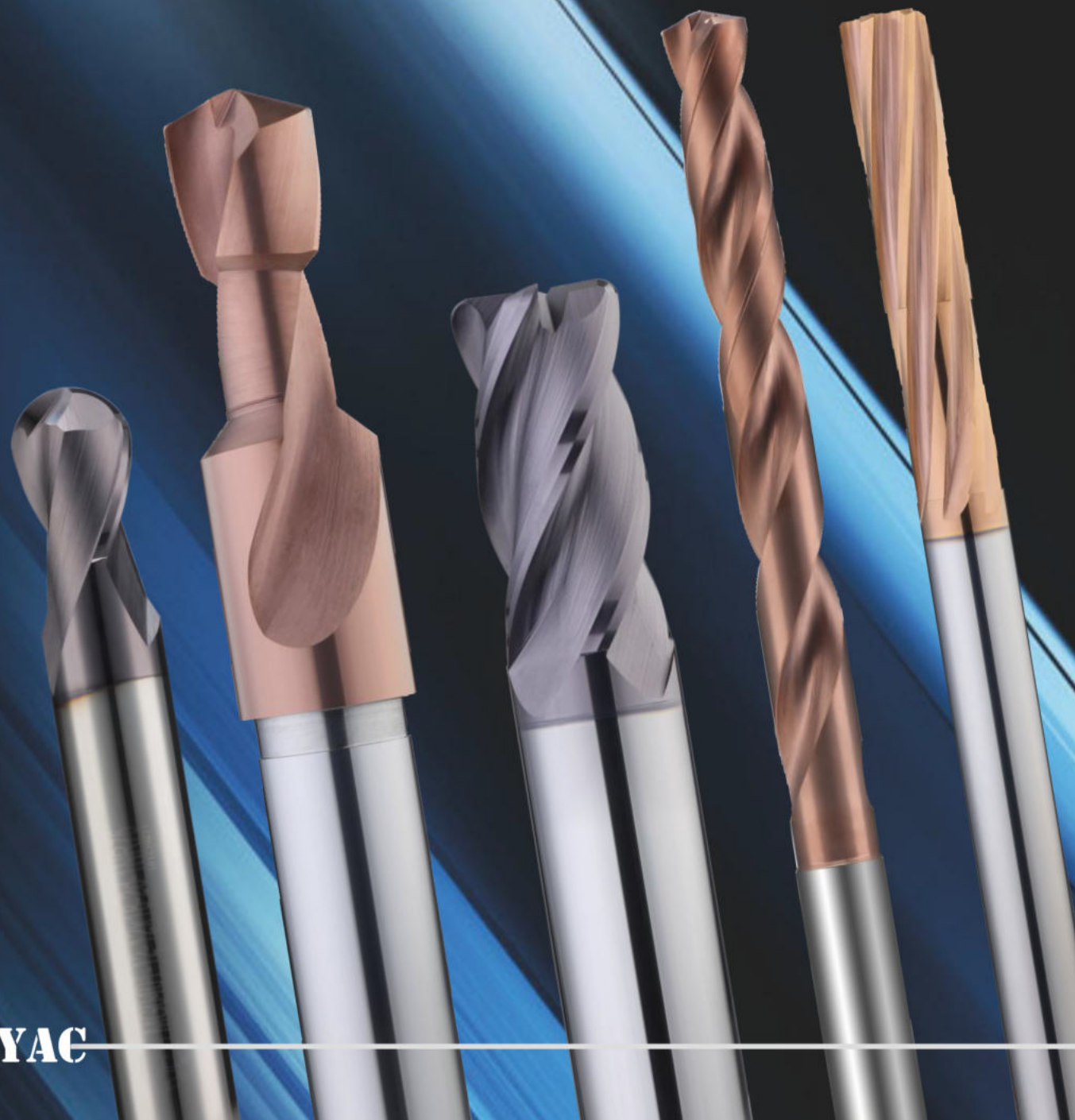
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anliwei@sf-gc.com

## МЕТАЛЛОРЕЖУЩИЙ ИНСТРУМЕНТ

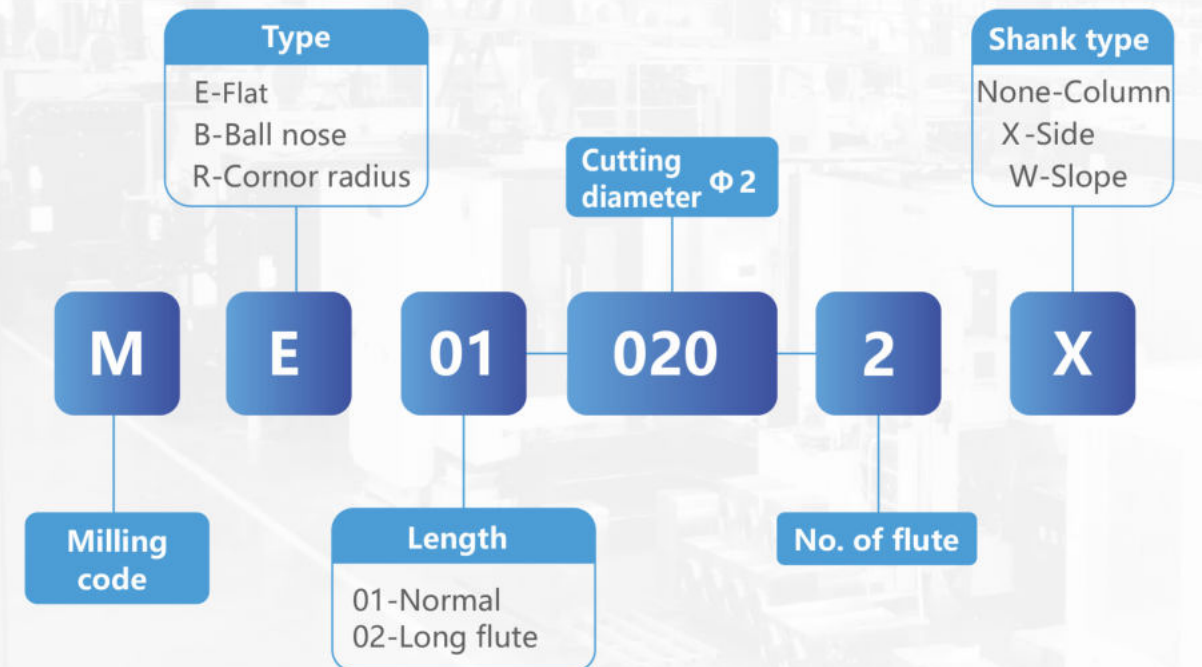
**SEAYAC.RU**

# SOLID CARBIDE TOOL

## 整体硬质合金刀具



### Model Code OF Solid Carbide Mill



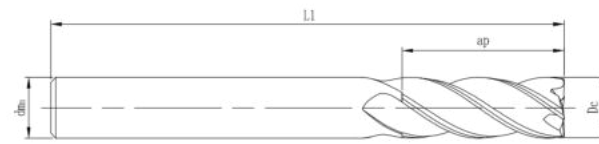


# Flat Milling

## 4-Flute Flat End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes*Zn	Helical angle
	Dc	dm(h6)	ap	L1		
ME01-020-4	2	4	5	50	4	35°
ME01-030-4	3	4	7	50	4	35°
ME01-040-4	4	4	10	50	4	35°
ME01-050-4	5	6	12	50	4	35°
ME01-060-4	6	6	13	50	4	35°
ME01-080-4	8	8	18	65	4	35°
ME01-100-4	10	10	22	75	4	35°
ME01-120-4	12	12	26	75	4	35°
ME01-160-4	16	16	40	100	4	35°
ME01-200-4	20	20	45	100	4	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

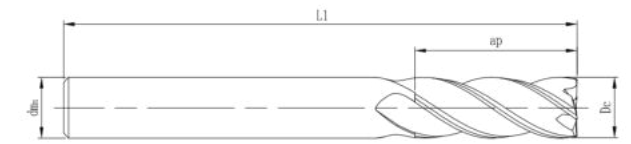
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●			●					

# Flat Milling

## 4-Flute Extended Flat End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes*Zn	Helical angle
	Dc	dm(h6)	ap	L1		
ME02-020-4	2	4	8	75	4	35°
ME02-030-4	3	4	12	75	4	35°
ME02-040-4	4	4	16	75	4	35°
ME02-050-4	5	6	21	75	4	35°
ME02-060-4	6	6	23	75	4	35°
ME02-080-4	8	8	32	100	4	35°
ME02-100-4	10	10	40	100	4	35°
ME02-120-4	12	12	45	100	4	35°
ME02-160-4	16	16	55	120	4	35°
ME02-200-4	20	20	65	150	4	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

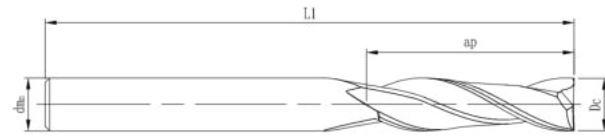
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●			●	●				

# Flat Milling

## 2-Flute Flat End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes*Zn	Helical angle
	Dc	dm(h6)	ap	L1		
ME01-020-2	2	4	5	50	2	35°
ME01-030-2	3	4	7	50	2	35°
ME01-040-2	4	4	10	50	2	35°
ME01-050-2	5	6	12	50	2	35°
ME01-060-2	6	6	13	50	2	35°
ME01-080-2	8	8	18	65	2	35°
ME01-100-2	10	10	22	75	2	35°
ME01-120-2	12	12	26	75	2	35°
ME01-160-2	16	16	40	100	2	35°
ME01-200-2	20	20	45	100	2	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

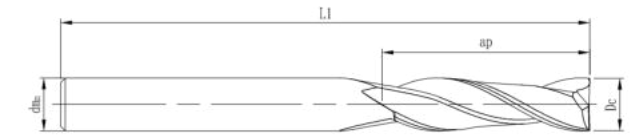
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	

# Flat Milling

## 2-Flute Extended Flat End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes*Zn	Helical angle
	Dc	dm(h6)	ap	L1		
ME02-020-2	2	4	8	75	2	35°
ME02-030-2	3	4	12	75	2	35°
ME02-040-2	4	4	16	75	2	35°
ME02-050-2	5	6	21	75	2	35°
ME02-060-2	6	6	23	75	2	35°
ME02-080-2	8	8	32	100	2	35°
ME02-100-2	10	10	40	100	2	35°
ME02-120-2	12	12	45	100	2	35°
ME02-160-2	16	16	55	120	2	35°
ME02-200-2	20	20	65	150	2	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	



# Ball Milling

## 4-Flute Ball End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes	Helical angle
	Dc	dmm(h6)	ap	L1		
MB01-020-4	2	3	4	50	4	35°
MB01-030-4	3	3	6	50	4	35°
MB01-040-4	4	6	8	50	4	35°
MB01-050-4	5	6	10	50	4	35°
MB01-060-4	6	6	12	50	4	35°
MB01-080-4	8	8	16	65	4	35°
MB01-100-4	10	10	20	75	4	35°
MB01-120-4	12	12	24	75	4	35°
MB01-160-4	16	16	32	100	4	35°
MB01-200-4	20	20	40	100	4	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

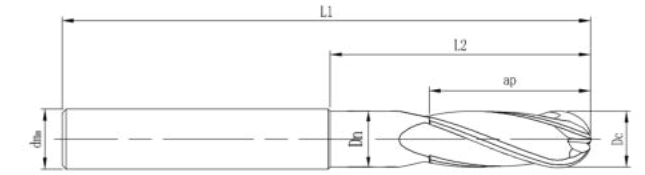
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	

# Ball Milling

## 4-Flute Extended Ball End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm						Flutes	Helical angle
	Dc	dmm(h6)	ap	L1	L2	Dn		
MB02-020-4	2	3	2	75	4	1.9	4	35°
MB02-030-4	3	3	3	75	6	2.85	4	35°
MB02-040-4	4	6	4	75	8	3.8	4	35°
MB02-050-4	5	6	5	75	10	4.8	4	35°
MB02-060-4	6	6	6	75	12	5.7	4	35°
MB02-080-4	8	8	8	100	16	7.6	4	35°
MB02-100-4	10	10	10	100	20	9.5	4	35°
MB02-120-4	12	12	12	100	24	11.4	4	35°
MB02-160-4	16	16	16	125	32	15.2	4	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

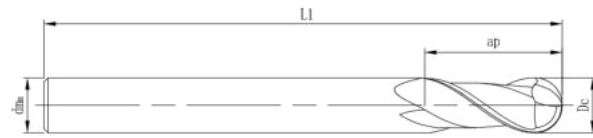
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	

# Ball Milling

## 2-Flute Ball End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				Flutes	Helical angle
	Dc	dm(h6)	ap	L1		
MB01-020-2	2	3	4	50	2	35°
MB01-030-2	3	3	6	50	2	35°
MB01-040-2	4	6	8	50	2	35°
MB01-050-2	5	6	10	50	2	35°
MB01-060-2	6	6	12	50	2	35°
MB01-080-2	8	8	16	65	2	35°
MB01-100-2	10	10	20	75	2	35°
MB01-120-2	12	12	24	75	2	35°
MB01-160-2	16	16	32	100	2	35°
MB01-200-2	20	20	40	100	2	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

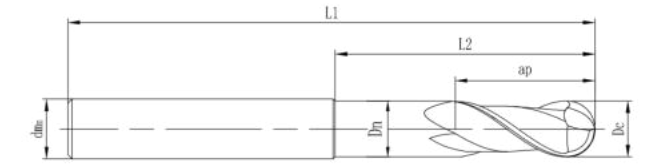
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●					

# Ball Milling

## 2-Flute Extended Ball End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm						Flutes	Helical angle
	Dc	dm(h6)	ap	L1	L2	Dn		
MB02-020-2	2	3	2	75	4	1.9	2	35°
MB02-030-2	3	3	3	75	6	2.85	2	35°
MB02-040-2	4	6	4	75	8	3.8	2	35°
MB02-050-2	5	6	5	75	10	4.8	2	35°
MB02-060-2	6	6	6	75	12	5.7	2	35°
MB02-080-2	8	8	8	100	16	7.6	2	35°
MB02-100-2	10	10	10	100	20	9.5	2	35°
MB02-120-2	12	12	12	100	24	11.4	2	35°
MB02-160-2	16	16	16	125	32	15.2	2	35°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

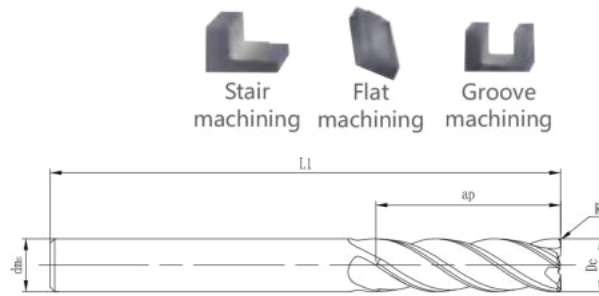
Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●					



### 4-Flute Corner Radius End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				R	Flutes*Zn	Helical angle
	Dc	dm <sub>m</sub> (h6)	ap	L1			
MR01-020-4	2	4	5	50	0.2	4	35°
MR01-030-4	3	4	7	50	0.2	4	35°
MR01-040-4	4	4	10	50	0.3	4	35°
MR01-050-4	5	6	12	50	0.3	4	35°
MR01-060-4	6	6	13	50	0.5	4	35°
MR01-080-4	8	8	18	65	0.5	4	35°
MR01-100-4	10	10	22	75	0.5	4	35°
MR01-120-4	12	12	26	75	1	4	35°
MR01-160-4	16	16	40	100	1.5	4	35°
MR01-200-4	20	20	45	100	2	4	35°

Can be manufactured according to the machining requirements of users.

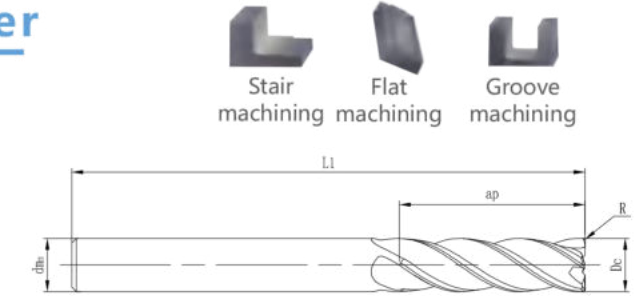
Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●					

### 4-Flute Extended Corner Radius End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				R	Flutes*Zn	Helical angle
	Dc	dm <sub>m</sub> (h6)	ap	L1			
MR02-020-4	2	4	8	75	0.2	4	35°
MR02-030-4	3	4	12	75	0.2	4	35°
MR02-040-4	4	4	16	75	0.3	4	35°
MR02-050-4	5	6	21	75	0.3	4	35°
MR02-060-4	6	6	23	75	0.5	4	35°
MR02-080-4	8	8	32	100	0.5	4	35°
MR02-100-4	10	10	40	100	0.5	4	35°
MR02-120-4	12	12	45	100	1	4	35°
MR02-160-4	16	16	55	120	1.5	4	35°
MR02-200-4	20	20	65	150	2	4	35°

Can be manufactured according to the machining requirements of users.

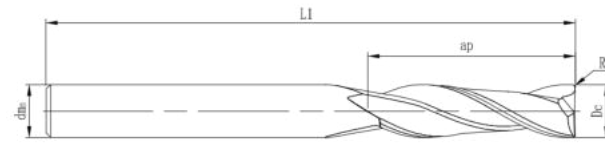
Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●					

## 2-Flute Corner Radius End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				R	Flutes*Zn	Helical angle
	Dc	dm <sub>m</sub> (h6)	ap	L1			
MR01-020-2	2	4	5	50	0.2	2	35°
MR01-030-2	3	4	7	50	0.2	2	35°
MR01-040-2	4	4	10	50	0.3	2	35°
MR01-050-2	5	6	12	50	0.3	2	35°
MR01-060-2	6	6	13	50	0.5	2	35°
MR01-080-2	8	8	18	65	0.5	2	35°
MR01-100-2	10	10	22	75	0.5	2	35°
MR01-120-2	12	12	26	75	1	2	35°
MR01-160-2	16	16	40	100	1.5	2	35°
MR01-200-2	20	20	45	100	2	2	35°

Can be manufactured according to the machining requirements of users.

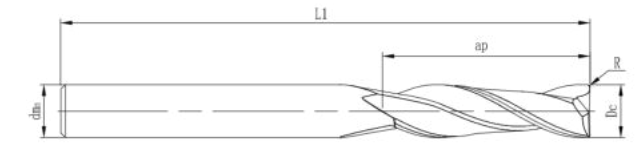
Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	

## 2-Flute Extended Corner Radius End Milling Cutter



Wide range of applications, achieve a variety of forms of machining.



Model	Size*mm				R	Flutes*Zn	Helical angle
	Dc	dm <sub>m</sub> (h6)	ap	L1			
MR02-020-2	2	4	8	75	0.2	2	35°
MR02-030-2	3	4	12	75	0.2	2	35°
MR02-040-2	4	4	16	75	0.3	2	35°
MR02-050-2	5	6	21	75	0.3	2	35°
MR02-060-2	6	6	23	75	0.5	2	35°
MR02-080-2	8	8	32	100	0.5	2	35°
MR02-100-2	10	10	40	100	0.5	2	35°
MR02-120-2	12	12	45	100	1	2	35°
MR02-160-2	16	16	55	120	1.5	2	35°
MR02-200-2	20	20	65	150	2	2	35°

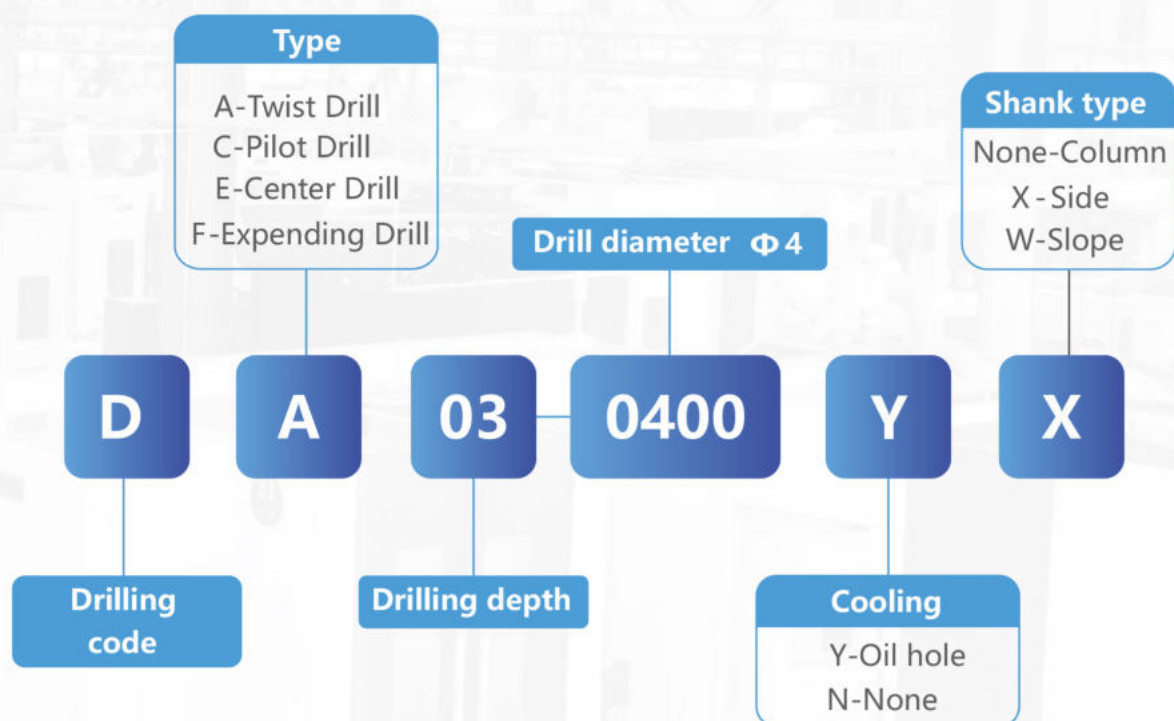
Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●	●	●	●	



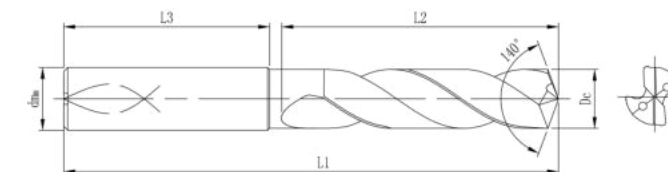
## Model Code Of Solid Carbide Drill



## Drilling Depth 3D



Suitable for efficient machining of common steel to difficult cutting materials.



Model	Dc(m7)	Size*mm				Helical angle
		L1	L2	L3	dm <sub>m</sub> (h6)	
DA03-0400Y	4.0	66	24	36	4	30°
DA03-0500Y	5.0	66	28	36	6	30°
DA03-0600Y	6.0	66	28	36	6	30°
DA03-0700Y	7.0	79	34	36	8	30°
DA03-0800Y	8.0	79	41	36	8	30°
DA03-0900Y	9.0	89	47	40	10	30°
DA03-1000Y	10.0	89	47	40	10	30°
DA03-1100Y	11.0	102	55	45	12	30°
DA03-1200Y	12.0	102	55	45	12	30°
DA03-1300Y	13.0	107	60	45	14	30°
DA03-1400Y	14.0	107	60	45	14	30°
DA03-1500Y	15.0	115	65	48	16	30°
DA03-1600Y	16.0	115	65	48	16	30°
DA03-1700Y	17.0	123	73	48	18	30°
DA03-1800Y	18.0	123	73	48	18	30°
DA03-1900Y	19.0	131	79	50	20	30°
DA03-2000Y	20.0	131	79	50	20	30°

Can be manufactured according to the machining requirements of users.

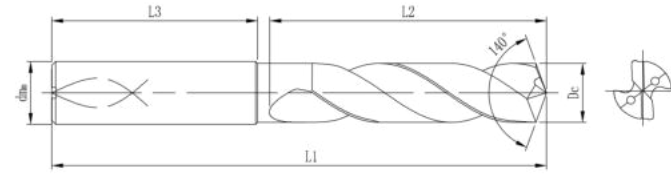
Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●	●	●	●	●				

## Drilling Depth 5D



Suitable for efficient machining of common steel to difficult cutting materials.



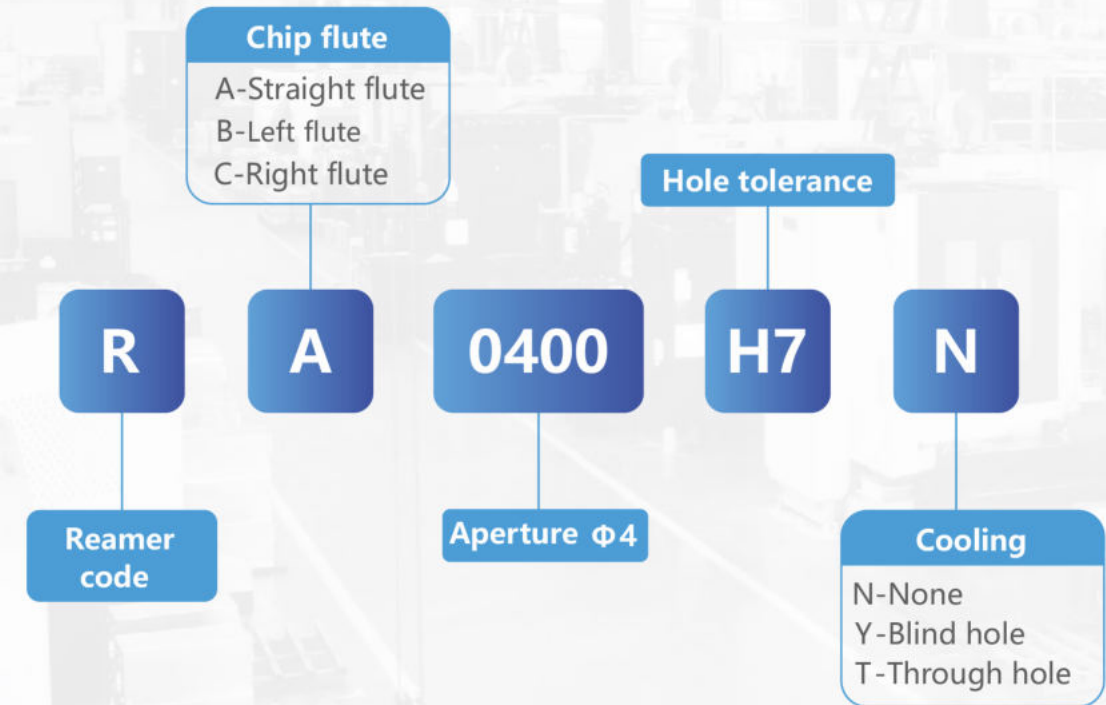
Model	Dc(m7)	Size*mm				Helical angle
		L1	L2	L3	dm <sub>m</sub> (h6)	
DA05-0400Y	4.0	74	36	36	4	30°
DA05-0500Y	5.0	82	44	36	6	30°
DA05-0600Y	6.0	82	44	36	6	30°
DA05-0700Y	7.0	91	53	36	8	30°
DA05-0800Y	8.0	91	53	36	8	30°
DA05-0900Y	9.0	103	61	40	10	30°
DA05-1000Y	10.0	103	61	40	10	30°
DA05-1100Y	11.0	118	71	45	12	30°
DA05-1200Y	12.0	118	71	45	12	30°
DA05-1300Y	13.0	124	77	45	14	30°
DA05-1400Y	14.0	124	77	45	14	30°
DA05-1500Y	15.0	133	83	48	16	30°
DA05-1600Y	16.0	133	83	48	16	30°
DA05-1700Y	17.0	143	93	48	18	30°
DA05-1800Y	18.0	143	93	48	18	30°
DA05-1900Y	19.0	153	101	50	20	30°
DA05-2000Y	20.0	153	101	50	20	30°

Can be manufactured according to the machining requirements of users.

Machined material sheet ● Fit well ● Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
●	●	●	●		●	●					

## Model Code Of Reamer



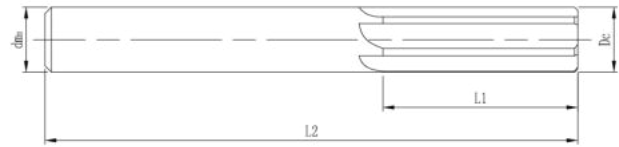


# Reamer

## Straight Flute Reamer



○ Suitable for finishing and semi-finishing of holes.



Model	Size*mm				Flutes*Zn	Cylindrical shank
	Dc(H7)	dm(h6)	L1	L2		
RA0400H7Y	4	4	28	70	4	■
RA0500H7Y	5	6	32	80	6	■
RA0600H7Y	6	6	32	80	6	■
RA0700H7Y	7	8	35	80	6	■
RA0800H7Y	8	8	40	90	6	■
RA0900H7Y	9	10	40	90	6	■
RA1000H7Y	10	10	45	100	6	■
RA1100H7Y	11	12	45	100	6	■
RA1200H7Y	12	12	50	110	6	■
RA1300H7Y	13	14	50	110	6	■
RA1400H7Y	14	14	50	110	6	■
RA1500H7Y	15	16	50	110	6	■
RA1600H7Y	16	16	50	110	6	■

- Please use high rigidity and high precision tool holder.
- Please use enough cooling liquid.
- Please adjust the parameters according to the cutting material and rigidity of machine.

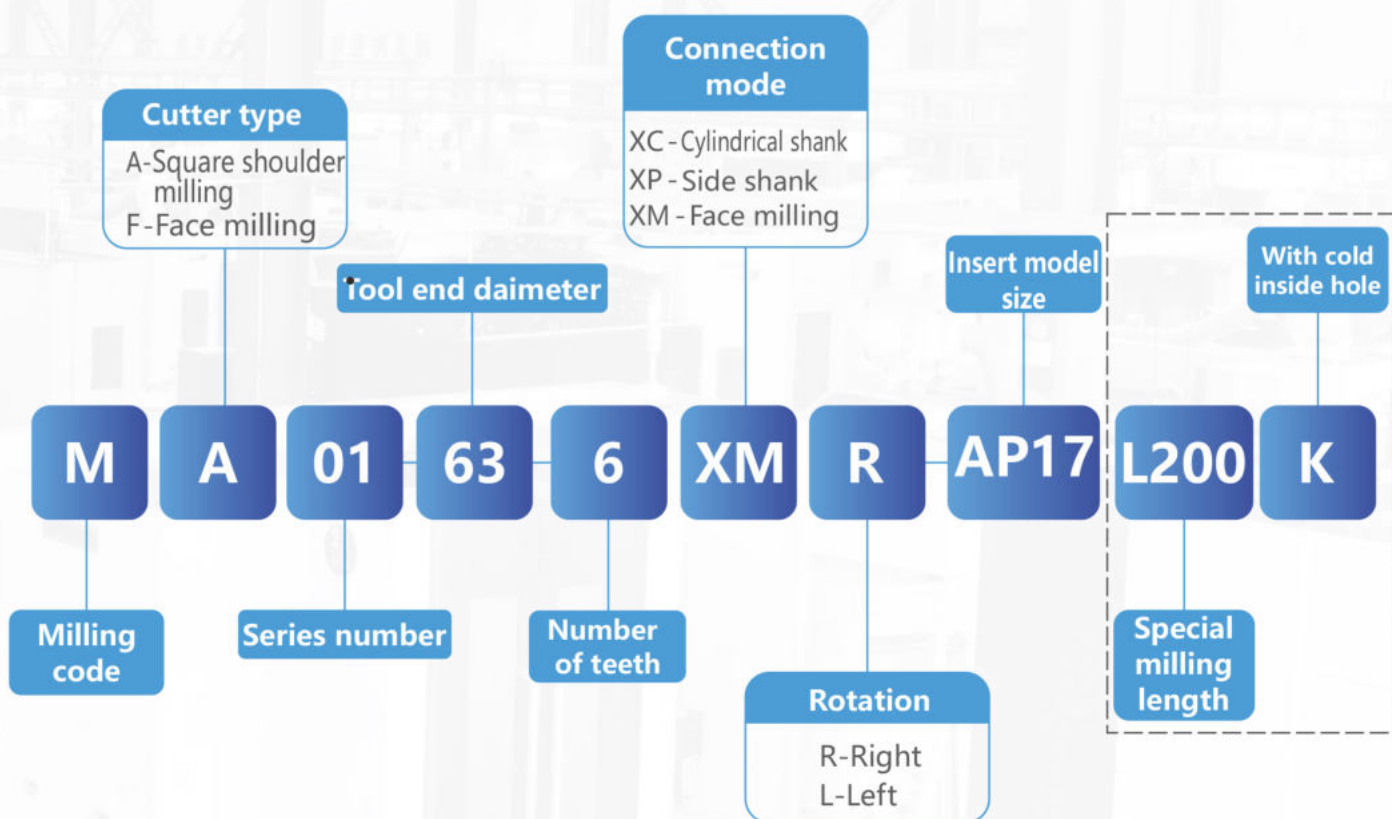
Machined material sheet ● Fit well ○ Fit

Carbon steel	Alloy steel	Perhardened steel/Chilled steel				Stainless steel	Cast iron Gray cast iron	Copper alloy	Aluminum alloy	Titanium alloy	High temp. alloy
		~40HRC	~50HRC	~55HRC	~68HRC						
						●	●	●			

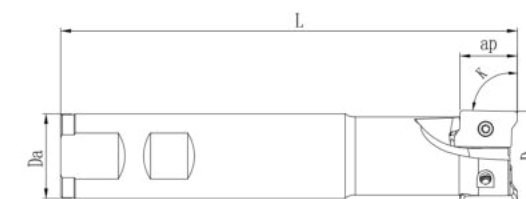
INDEXABLE TOOL  
可转位刀具



## Model Code Of Indexable Mill



## Indexable Milling



● Milling of general materials, high machining efficiency.

Sort	Model	Size*mm					K	Inside cooling
		ap	D	Da	L	齿数		
Square Shoulder Milling Cutter	MA01-20-1XP-AP17	16.1	20	20	90	1	90°	×
	MA01-20-1XP-AP17-K	16.1	20	20	90	1	90°	√
	MA01-25-2XP-AP17	16.1	25	25	100	2	90°	×
	MA01-25-2XP-AP17-K	16.1	25	25	100	2	90°	√
	MA01-32-3XP-AP17	16.1	32	32	110	3	90°	×
	MA01-32-3XP-AP17-K	16.1	32	32	110	3	90°	√
	MA01-40-4XP-AP17	16.1	40	32	115	4	90°	×
	MA01-40-4XP-AP17-K	16.1	40	32	115	4	90°	√

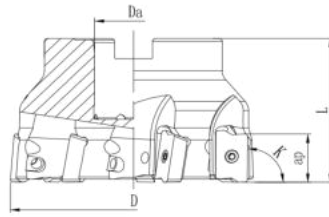
● Please order the inserts separately.



## Indexable Milling



● Milling of general materials, high machining efficiency.



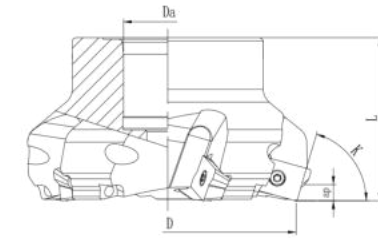
Sort	Model	Size*mm					K	Inside cooling	
		ap	D	Da	L	齿数			
Square Shoulder Milling Cutter	Standard teeth	MA01-40-4XM-AP17-K	16.1	40	16	40	4	90°	√
		MA01-63-6XM-AP17-K	16.1	63	22	40	6	90°	√
		MA01-80-7XM-AP17-K	16.1	80	27	50	7	90°	√
		MA01-100-8XM-AP17-K	16.1	100	32	50	8	90°	√
		MA01-125-9XM-AP17-K	16.1	125	40	63	9	90°	√
	Sparse teeth	MA01-63-4XM-AP17-K	16.1	63	22	40	4	90°	√
		MA01-80-6XM-AP17-K	16.1	80	27	50	6	90°	√
		MA01-100-6XM-AP17-K	16.1	100	32	50	6	90°	√
	MA01-125-8XM-AP17-K	16.1	125	40	63	8	90°	√	

● Please order the inserts separately.

## Indexable Milling



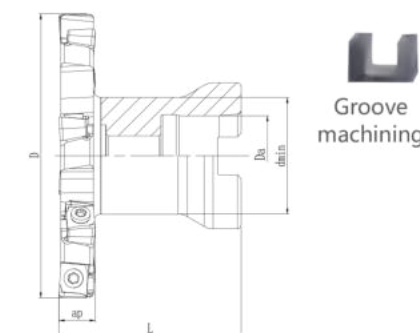
● Suitable for efficient face milling of mechanical structural parts of various materials.



Sort	Model	Size*mm					K	Inside cooling
		ap	D	Da	L	齿数		
Face Milling	MF02-80-5XM-AP17	3.9	80	27	50	5	75°	×
	MF02-100-6XM-AP17	3.9	100	32	50	6	75°	×
	MF02-125-7XM-AP17	3.9	125	40	63	7	75°	×
	MF02-150-8XM-AP17	3.9	150	40	63	8	75°	×

● Please order the inserts separately.

Slotting Cutter

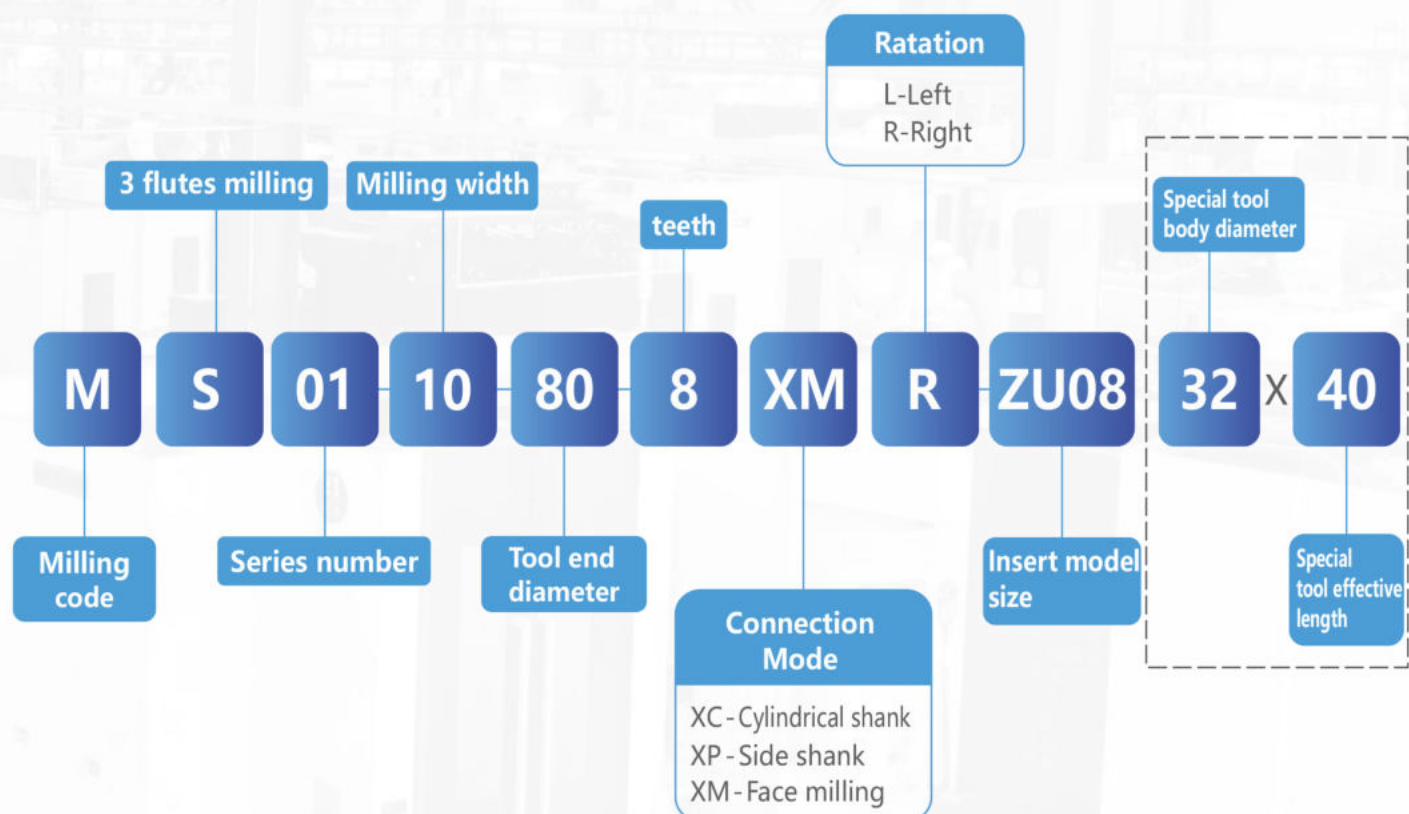


● Cutting light, suitable for parts of the slot machining.

Model	Size*mm					
	ap	D	Da	齿数	dmin	L
MS01-10-63-6XM-ZU08	10	63	22	6	33	50
MS01-10-80-8XM-ZU08	10	80	22	8	32	50
MS01-10-100-10XM-ZU08	10	100	27	10	48	50
MS01-10-125-12XM-ZU08	10	125	32	12	57	50
MS01-12-63-6XM-ZU08	12	63	22	6	33	50
MS01-12-80-8XM-ZU08	12	80	22	8	32	50
MS01-12-100-10XM-ZU08	12	100	27	10	48	50
MS01-12-125-12XM-ZU08	12	125	32	12	57	50
MS01-14-63-6XM-ZU11	14	63	22	6	33	50
MS01-14-80-8XM-ZU11	14	80	22	8	32	50
MS01-14-100-10XM-ZU11	14	100	27	10	48	50
MS01-14-125-12XM-ZU11	14	125	32	12	57	50
MS01-17-80-8XM-ZU11	17	80	22	8	32	50
MS01-17-100-10XM-ZU11	17	100	27	10	48	50
MS01-17-125-12XM-ZU11	17	125	32	12	57	50
MS01-20-80-8XM-ZU11	20	80	22	8	32	50
MS01-20-100-10XM-ZU11	20	100	27	10	48	50
MS01-20-125-12XM-ZU11	20	125	32	12	57	50

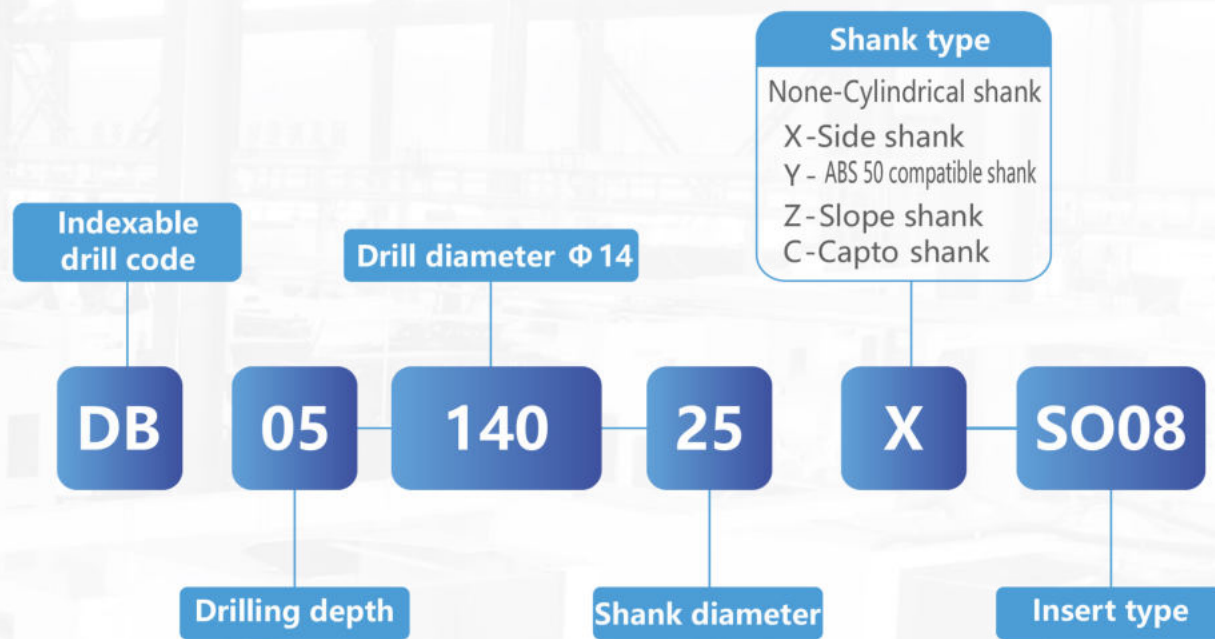
● please order the inserts separately.

Model Code Of Indexable Slotting Cutter



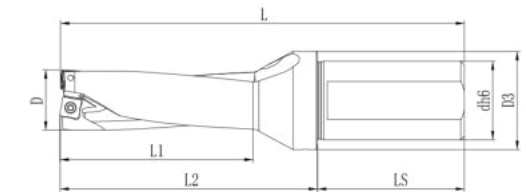


## Model Code Of Indexable Short-hole Drill



Shank type		Shank type	
X	Side shank	Y	ABS 50 compatible shank
Z	Slope shank	C	Capto shank

## Drilling Depth-2D



Wide range of applications, achieve a variety of forms of machining.

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB02-140-20X-SO05	14.0	20	25	103	28	53	50
DB02-145-20X-SO05	14.5	20	25	105	30	55	50
DB02-150-20X-SO05	15.0	20	25	105	30	55	50
DB02-155-20X-SO05	15.5	20	25	107	32	57	50
DB02-160-20X-SO05	16.0	20	25	107	32	57	50
DB02-165-25X-SO06	16.5	25	32	115	34	59	56
DB02-170-25X-SO06	17.0	25	32	115	34	59	56
DB02-175-25X-SO06	17.5	25	32	117	36	61	56
DB02-180-25X-SO06	18.0	25	32	117	36	61	56
DB02-185-25X-SO06	18.5	25	32	119	38	63	56
DB02-190-25X-SO06	19.0	25	32	119	38	63	56
DB02-195-25X-SO07	19.5	25	32	121	40	65	56
DB02-200-25X-SO07	20.0	25	32	121	40	65	56
DB02-205-25X-SO07	20.5	25	32	123	42	67	56
DB02-210-25X-SO07	21.0	25	32	123	42	67	56
DB02-215-25X-SO07	21.5	25	32	125	44	69	56
DB02-220-25X-SO07	22.0	25	32	125	44	69	56
DB02-225-25X-SO08	22.5	25	32	127	46	71	56
DB02-230-25X-SO08	23.0	25	32	127	46	71	56
DB02-235-32X-SO08	23.5	32	40	133	48	73	60
DB02-240-32X-SO08	24.0	32	40	133	48	73	60
DB02-245-32X-SO08	24.5	32	40	135	50	75	60

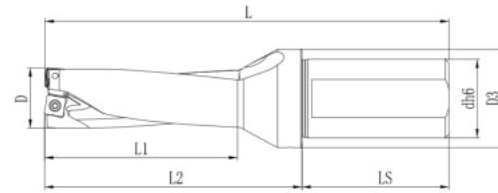
Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB02-250-32X-SO08	25.0	32	40	135	50	75	60
DB02-255-32X-SO08	25.5	32	40	137	52	77	60
DB02-260-32X-SO08	26.0	32	40	137	52	77	60
DB02-265-32X-SO09	26.5	32	40	139	54	79	60
DB02-270-32X-SO09	27.0	32	40	139	54	79	60
DB02-275-32X-SO09	27.5	32	40	141	56	81	60
DB02-280-32X-SO09	28.0	32	40	141	56	81	60
DB02-285-32X-SO09	28.5	32	40	143	58	83	60
DB02-290-32X-SO09	29.0	32	40	143	58	83	60
DB02-295-32X-SO09	29.5	32	40	145	60	85	60
DB02-300-32X-SO09	30.0	32	40	145	60	85	60
DB02-305-32X-SO09	30.5	32	40	147	62	87	60
DB02-310-32X-SO09	31.0	32	40	147	62	87	60
DB02-320-32X-SO11	32.0	32	40	149	64	89	60
DB02-330-32X-SO11	33.0	32	40	151	66	91	60
DB02-340-32X-SO11	34.0	32	40	153	68	93	60
DB02-350-32X-SO11	35.0	32	40	155	70	95	60
DB02-360-32X-SO11	36.0	32	40	157	72	97	60
DB02-370-32X-SO13	37.0	32	50	159	74	99	60
DB02-380-32X-SO13	38.0	32	50	161	76	101	60
DB02-390-32X-SO13	39.0	32	50	163	78	103	60
DB02-400-32X-SO13	40.0	32	50	165	80	105	60
DB02-410-40X-SO13	41.0	40	50	177	82	107	70
DB02-420-40X-SO13	42.0	40	50	179	84	109	70
DB02-430-40X-SO13	43.0	40	50	181	86	111	70
DB02-440-40X-SO15	44.0	40	60	183	88	113	70
DB02-450-40X-SO15	45.0	40	60	185	90	115	70
DB02-460-40X-SO15	46.0	40	60	187	92	117	70

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB02-470-40X-SO15	47.0	40	60	189	94	119	70
DB02-480-40X-SO15	48.0	40	60	191	96	121	70
DB02-490-40X-SO15	49.0	40	60	193	98	123	70
DB02-500-40X-SO15	50.0	40	60	195	100	125	70

● Please order the inserts separately.



### Drilling Depth-3D



Wide range of applications, achieve a variety of forms of machining.

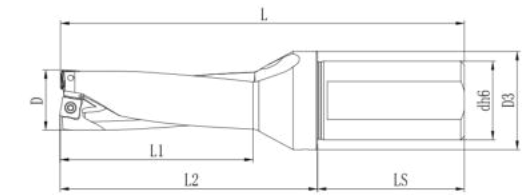
Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB03-140-20X-SO05	14.0	20	25	117	42	67	50
DB03-145-20X-SO05	14.5	20	25	120	45	70	50
DB03-150-20X-SO05	15.0	20	25	120	45	70	50
DB03-155-20X-SO05	15.5	20	25	123	48	73	50
DB03-160-20X-SO05	16.0	20	25	123	48	73	50
DB03-165-25X-SO06	16.5	25	32	132	51	76	56
DB03-170-25X-SO06	17.0	25	32	132	51	76	56
DB03-175-25X-SO06	17.5	25	32	135	54	79	56
DB03-180-25X-SO06	18.0	25	32	135	54	79	56
DB03-185-25X-SO06	18.5	25	32	138	57	82	56
DB03-190-25X-SO06	19.0	25	32	138	57	82	56
DB03-195-25X-SO07	19.5	25	32	141	60	85	56
DB03-200-25X-SO07	20.0	25	32	141	60	85	56
DB03-205-25X-SO07	20.5	25	32	144	63	88	56
DB03-210-25X-SO07	21.0	25	32	144	63	88	56
DB03-215-25X-SO07	21.5	25	32	147	66	91	56
DB03-220-25X-SO07	22.0	25	32	147	66	91	56
DB03-225-25X-SO08	22.5	25	32	150	69	94	56
DB03-230-25X-SO08	23.0	25	32	150	69	94	56
DB03-235-32X-SO08	23.5	32	40	157	72	97	60
DB03-240-32X-SO08	24.0	32	40	157	72	97	60
DB03-245-32X-SO08	24.5	32	40	160	75	100	60

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB03-250-32X-SO08	25.0	32	40	160	75	100	60
DB03-255-32X-SO08	25.5	32	40	163	78	103	60
DB03-260-32X-SO08	26.0	32	40	163	78	103	60
DB03-265-32X-SO09	26.5	32	40	166	81	106	60
DB03-270-32X-SO09	27.0	32	40	166	81	106	60
DB03-275-32X-SO09	27.5	32	40	169	84	109	60
DB03-280-32X-SO09	28.0	32	40	169	84	109	60
DB03-285-32X-SO09	28.5	32	40	172	87	112	60
DB03-290-32X-SO09	29.0	32	40	172	87	112	60
DB03-295-32X-SO09	29.5	32	40	175	90	115	60
DB03-300-32X-SO09	30.0	32	40	175	90	115	60
DB03-305-32X-SO09	30.5	32	40	178	93	118	60
DB03-310-32X-SO09	31.0	32	40	178	93	118	60
DB03-320-32X-SO11	32.0	32	40	181	96	121	60
DB03-330-32X-SO11	33.0	32	40	184	99	124	60
DB03-340-32X-SO11	34.0	32	40	187	102	127	60
DB03-350-32X-SO11	35.0	32	40	190	105	130	60
DB03-360-32X-SO11	36.0	32	40	193	108	133	60
DB03-370-32X-SO13	37.0	32	50	196	111	136	60
DB03-380-32X-SO13	38.0	32	50	199	114	139	60
DB03-390-32X-SO13	39.0	32	50	202	117	142	60
DB03-400-32X-SO13	40.0	32	50	205	120	145	60
DB03-410-40X-SO13	41.0	40	50	218	123	148	70
DB03-420-40X-SO13	42.0	40	50	221	126	151	70
DB03-430-40X-SO13	43.0	40	50	224	129	154	70
DB03-440-40X-SO15	44.0	40	60	227	132	157	70
DB03-450-40X-SO15	45.0	40	60	230	135	160	70
DB03-460-40X-SO15	46.0	40	60	233	138	163	70

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB03-470-40X-SO15	47.0	40	60	236	141	166	70
DB03-480-40X-SO15	48.0	40	60	239	144	169	70
DB03-490-40X-SO15	49.0	40	60	242	147	172	70
DB03-500-40X-SO15	50.0	40	60	245	150	175	70

● Please order the inserts separately.

### Drilling Depth-4D



● Wide range of applications, achieve a variety of forms of machining.

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB04-140-20X-SO05	14.0	20	25	131	56	81	50
DB04-145-20X-SO05	14.5	20	25	135	60	85	50
DB04-150-20X-SO05	15.0	20	25	135	60	85	50
DB04-155-20X-SO05	15.5	20	25	139	64	89	50
DB04-160-20X-SO05	16.0	20	25	139	64	89	50
DB04-165-25X-SO06	16.5	25	32	149	68	93	56
DB04-170-25X-SO06	17.0	25	32	149	68	93	56
DB04-175-25X-SO06	17.5	25	32	153	72	97	56
DB04-180-25X-SO06	18.0	25	32	153	72	97	56
DB04-185-25X-SO06	18.5	25	32	157	76	101	56
DB04-190-25X-SO06	19.0	25	32	157	76	101	56
DB04-195-25X-SO07	19.5	25	32	161	80	105	56
DB04-200-25X-SO07	20.0	25	32	161	80	105	56
DB04-205-25X-SO07	20.5	25	32	165	84	109	56
DB04-210-25X-SO07	21.0	25	32	165	84	109	56
DB04-215-25X-SO07	21.5	25	32	169	88	113	56
DB04-220-25X-SO07	22.0	25	32	169	88	113	56
DB04-225-25X-SO08	22.5	25	32	173	92	117	56
DB04-230-25X-SO08	23.0	25	32	173	92	117	56
DB04-235-32X-SO08	23.5	32	40	181	96	121	60
DB04-240-32X-SO08	24.0	32	40	181	96	121	60
DB04-245-32X-SO08	24.5	32	40	185	100	125	60

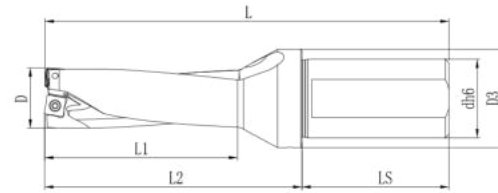


Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB04-250-32X-SO08	25.0	32	40	185	100	125	60
DB04-255-32X-SO08	25.5	32	40	189	104	129	60
DB04-260-32X-SO08	26.0	32	40	189	104	129	60
DB04-265-32X-SO09	26.5	32	40	193	108	133	60
DB04-270-32X-SO09	27.0	32	40	193	108	133	60
DB04-275-32X-SO09	27.5	32	40	197	112	137	60
DB04-280-32X-SO09	28.0	32	40	197	112	137	60
DB04-285-32X-SO09	28.5	32	40	201	116	141	60
DB04-290-32X-SO09	29.0	32	40	201	116	141	60
DB04-295-32X-SO09	29.5	32	40	205	120	145	60
DB04-300-32X-SO09	30.0	32	40	205	120	145	60
DB04-305-32X-SO09	30.5	32	40	209	124	149	60
DB04-310-32X-SO09	31.0	32	40	209	124	149	60
DB04-320-32X-SO11	32.0	32	40	213	128	153	60
DB04-330-32X-SO11	33.0	32	40	217	132	157	60
DB04-340-32X-SO11	34.0	32	40	221	136	161	60
DB04-350-32X-SO11	35.0	32	40	225	140	165	60
DB04-360-32X-SO11	36.0	32	40	229	144	169	60
DB04-370-32X-SO13	37.0	32	50	233	148	173	60
DB04-380-32X-SO13	38.0	32	50	237	152	177	60
DB04-390-32X-SO13	39.0	32	50	241	156	181	60
DB04-400-32X-SO13	40.0	32	50	245	160	185	60
DB04-410-40X-SO13	41.0	40	50	259	164	189	70
DB04-420-40X-SO13	42.0	40	50	263	168	193	70
DB04-430-40X-SO13	43.0	40	50	267	172	197	70
DB04-440-40X-SO15	44.0	40	60	271	176	201	70
DB04-450-40X-SO15	45.0	40	60	275	180	205	70
DB04-460-40X-SO15	46.0	40	60	279	184	209	70

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB04-470-40X-SO15	47.0	40	60	283	188	213	70
DB04-480-40X-SO15	48.0	40	60	287	192	217	70
DB04-490-40X-SO15	49.0	40	60	291	196	221	70
DB04-500-40X-SO15	50.0	40	60	295	200	225	70

● Please order the inserts separately.

### Drilling Depth-5D



Wide range of applications, achieve a variety of forms of machining.

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB05-140-20X-SO05	14.0	20	25	145	70	95	50
DB05-145-20X-SO05	14.5	20	25	150	75	100	50
DB05-150-20X-SO05	15.0	20	25	150	75	100	50
DB05-155-20X-SO05	15.5	20	25	155	80	105	50
DB05-160-20X-SO05	16.0	20	25	155	80	105	50
DB05-165-25X-SO06	16.5	25	32	166	85	110	56
DB05-170-25X-SO06	17.0	25	32	166	85	110	56
DB05-175-25X-SO06	17.5	25	32	171	90	115	56
DB05-180-25X-SO06	18.0	25	32	171	90	115	56
DB05-185-25X-SO06	18.5	25	32	176	95	120	56
DB05-190-25X-SO06	19.0	25	32	176	95	120	56
DB05-195-25X-SO07	19.5	25	32	181	100	125	56
DB05-200-25X-SO07	20.0	25	32	181	100	125	56
DB05-205-25X-SO07	20.5	25	32	186	105	130	56
DB05-210-25X-SO07	21.0	25	32	186	105	130	56
DB05-215-25X-SO07	21.5	25	32	191	110	135	56
DB05-220-25X-SO07	22.0	25	32	191	110	135	56
DB05-225-25X-SO08	22.5	25	32	196	115	140	56
DB05-230-25X-SO08	23.0	25	32	196	115	140	56
DB05-235-32X-SO08	23.5	32	40	205	120	145	60
DB05-240-32X-SO08	24.0	32	40	205	120	145	60
DB05-245-32X-SO08	24.5	32	40	210	125	150	60

Model	Size*mm						
	D	dh6	D3	L	L1	L2	LS
DB05-250-32X-SO08	25.0	32	40	210	125	150	60
DB05-255-32X-SO08	25.5	32	40	215	130	155	60
DB05-260-32X-SO08	26.0	32	40	215	130	155	60
DB05-265-32X-SO09	26.5	32	40	220	135	160	60
DB05-270-32X-SO09	27.0	32	40	220	135	160	60
DB05-275-32X-SO09	27.5	32	40	225	140	165	60
DB05-280-32X-SO09	28.0	32	40	225	140	165	60
DB05-285-32X-SO09	28.5	32	40	230	145	170	60
DB05-290-32X-SO09	29.0	32	40	230	145	170	60
DB05-295-32X-SO09	29.5	32	40	235	150	175	60
DB05-300-32X-SO09	30.0	32	40	235	150	175	60
DB05-305-32X-SO09	30.5	32	40	240	155	180	60
DB05-310-32X-SO09	31.0	32	40	240	155	180	60
DB05-320-32X-SO11	32.0	32	40	245	160	185	60
DB05-330-32X-SO11	33.0	32	40	250	165	190	60
DB05-340-32X-SO11	34.0	32	40	255	170	195	60
DB05-350-32X-SO11	35.0	32	40	260	175	200	60
DB05-360-32X-SO11	36.0	32	40	265	180	205	60
DB05-370-32X-SO13	37.0	32	50	270	185	210	60
DB05-380-32X-SO13	38.0	32	50	275	190	215	60
DB05-390-32X-SO13	39.0	32	50	280	195	220	60
DB05-400-32X-SO13	40.0	32	50	285	200	225	60
DB05-410-40X-SO13	41.0	40	50	300	205	230	70
DB05-420-40X-SO13	42.0	40	50	305	210	235	70
DB05-430-40X-SO13	43.0	40	50	310	215	240	70
DB05-440-40X-SO15	44.0	40	60	315	220	245	70
DB05-450-40X-SO15	45.0	40	60	320	225	250	70
DB05-460-40X-SO15	46.0	40	60	325	230	255	70



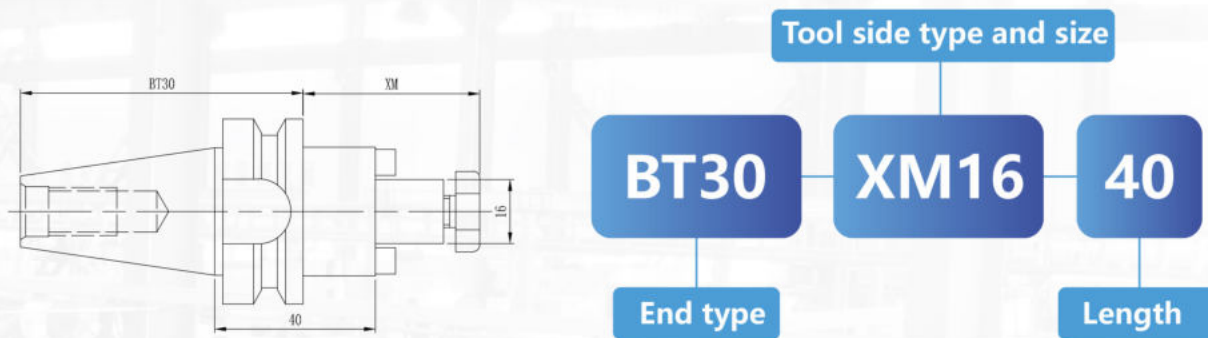
## Short-hole Drill

Model	尺寸mm						
	D	dh6	D3	L	L1	L2	LS
DB05-470-40X-SO15	47.0	40	60	330	235	260	70
DB05-480-40X-SO15	48.0	40	60	335	240	265	70
DB05-490-40X-SO15	49.0	40	60	340	245	270	70
DB05-500-40X-SO15	50.0	40	60	345	250	275	70

● Please order the inserts separately.



## Model Code Of BT Cutting Toolholder



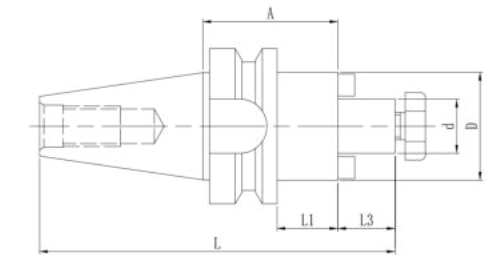
### End type

Taper BT30/BT40/BT50	
-------------------------	--

### Head type and size

XM	Face mill arbor		ER	ER collect chuck	
XP	Side lock holder		MT	Morse taper adapter	
HD	Hydraulic chuck				

## Face Mill Arbor



● Suitable for indexable milling tools.


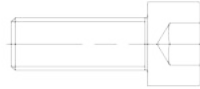
Taper	d mm	Model	Size*mm					Dynamic balance	KG
			A	D	L	L1	L3		
BT30	16	BT30-XM16-40	40	32	105.4	18	17	2	0.5
	22	BT30-XM22-40	40	40	107.4	18	19	2	0.6
	27	BT30-XM27-40	40	48	109.4	18	21	2	0.75
BT40	16	BT40-XM16-52	52	32	134.4	25	17	2	1.1
	16	BT40-XM16-140	140	32	222.4	113	17	2	1.7
	22	BT40-XM22-52	52	40	136.4	25	19	2	1.2
	22	BT40-XM22-100	100	40	184.4	73	19	2	2.1
	22	BT40-XM22-127	127	40	211.4	100	19	2	1.9
	22	BT40-XM22-150	150	48	234.4	123	19	2	2.6
	27	BT40-XM27-52	52	48	138.4	25	21	2	1.4
	27	BT40-XM27-80	80	48	166.4	53	21	2	1.7
	27	BT40-XM27-100	100	48	186.4	73	21	2	2.6
	27	BT40-XM27-150	150	60	236.4	123	21	2	3.6
	32	BT40-XM32-52	52	58	141.4	25	24	2	1.6
	32	BT40-XM32-100	100	60	189.4	73	24	2	2.6
	40	BT40-XM40-60	60	70	152.4	33	27	2	2.2
	40	BT40-XM40-80	80	70	172.4	53	27	2	2.5
	BT50	22	BT50-XM22-63	63	40	183.8	25	19	2
22		BT50-XM22-200	200	48	320.8	162	19	2	5.8
22		BT50-XM22-250	250	48	370.8	212	19	2	6.5
27		BT50-XM27-63	63	48	185.8	25	21	2	4.15
27		BT50-XM27-150	150	60	272.8	112	21	2	6.1
27		BT50-XM27-200	200	60	322.8	162	21	2	7.1



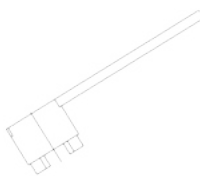
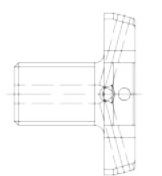
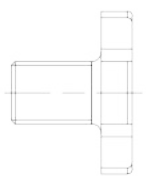
Taper	d mm	Model	Size*mm					Dynamic balance	KG
			A	D	L	L1	L3		
BT50	27	BT50-XM27-250	250	60	372.8	212	21	2	8.1
	32	BT50-XM32-63	63	58	188.8	25	24	2	4.4
	32	BT50-XM32-160	160	78	285.8	122	24	2	7.9
	40	BT50-XM40-63	63	70	191.8	25	27	2	4.7

- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.
- Delivery includes spare parts, and accessories need to be ordered separately.

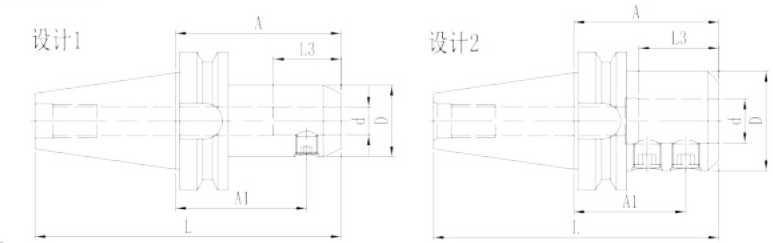
### Face Mill Arbor Spare Parts

Application d	Flat key	Flat key bolt
16		
	C16116	F03D0308
22		
	C16122	F03D0410
27		
	C16127	F03D0512
32		
	C16132	F03D0514
40		
	C16140	F03D0616

### Face Mill Arbor accessories

Application d	Cross head bolt wrench	Cross head bolt, inside cooling	Cross head blot
16			
	F011608	F021608L	F021608
22			
	F012210	F022210L	F022210
27			
	F012712	F022712L	F022712
32			
	F013216	F023216L	F023216
40			
	F014020	F024020L	F024020

### BT 40 Side Lock Holder

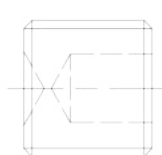


● Suitable for side-locked tool bar, cutting tools, etc.

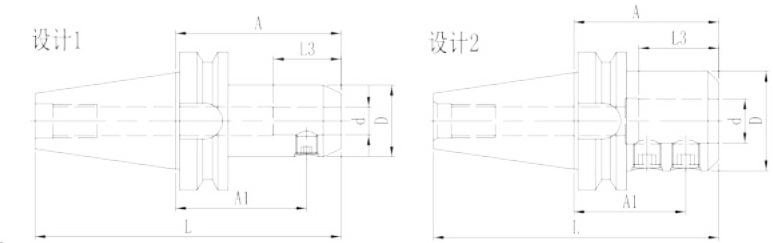
Taper	d mm	Model	Size*mm					Design	Dynamic balance	KG
			A	D	L	L3	A1			
BT40	6	BT40-XP06-50	50	25	115.4	27	32.5	1	2	1
	6	BT40-XP06-120	120	25	185.4	27	102.5	1	2	1.3
	8	BT40-XP08-50	50	28	115.4	30	32.5	1	2	1.05
	8	BT40-XP08-120	120	28	185.4	30	102.5	1	2	1.35
	10	BT40-XP10-63	63	35	128.4	36	43.5	1	2	1.2
	10	BT40-XP10-120	120	35	185.4	36	100.5	1	2	1.6
	12	BT40-XP12-63	63	42	128.4	43	41	1	2	1.3
	12	BT40-XP12-120	120	42	185.4	43	98	1	2	1.85
	14	BT40-XP14-63	63	44	128.4	43	41	1	2	1.3
	16	BT40-XP16-63	63	48	128.4	46	39.5	1	2	1.35
	16	BT40-XP16-120	120	48	185.4	46	96.5	1	2	2.15
	18	BT40-XP18-63	63	50	128.4	46	39.5	1	2	1.4
	20	BT40-XP20-63	63	52	128.4	48	38.5	1	2	1.35
	20	BT40-XP20-100	100	52	205.4	48	75.5	1	2	1.9
	20	BT40-XP20-120	120	52	185.4	48	95.5	1	2	2.3
	25	BT40-XP25-90	90	63	155.4	54	66.5	2	2	2.2
	25	BT40-XP25-100	100	63	165.4	54	76.5	2	2	2.3
	32	BT40-XP32-100	100	72	165.4	58	76.5	2	2	2.7
	40	BT40-XP40-120	120	75	185.4	63	90	2	2	3.2

- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.
- Delivery includes spare parts, and accessories need to be ordered separately.

■ Spare parts

 <p>Lock bolt</p>	Application d		Number
	6	F04D0610	1
	8	F04D0810	1
	10	F04D1012	1
	12-14	F04D1216	1
	16-18	F04D1416	1
	20	F04D1616	1
	25	F04D1820	2
32	F04D2020	2	

■ BT 50 Side Lock Holder

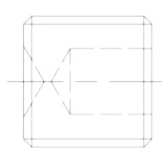


● Suitable for side-locked tool bar, cutting tools, etc.

Taper	d mm	Model	Size*mm					Design	Dynamic balance	KG
			A	D	L	L3	A1			
BT50	20	BT50-XP20-80	80	52	181.8	48	55.5	1	2	4.1
	20	BT50-XP20-120	120	52	221.8	48	95.5	1	2	4.75
	20	BT50-XP20-200	200	52	301.8	48	175.5	1	2	6
	25	BT50-XP25-100	100	65	201.8	54	76.5	2	2	4.9
	25	BT50-XP25-120	120	65	211.8	54	96.5	2	2	5.4
	25	BT50-XP25-200	200	65	301.8	54	176.5	2	2	7.3
	32	BT50-XP32-105	105	72	206.8	58	81.5	2	2	5.25
	32	BT50-XP32-200	200	72	301.8	58	176.5	2	2	8.1
	40	BT50-XP40-120	120	80	221.8	68	90.5	2	2	6
	50	BT50-XP50-125	125	95	226.8	78	90	2	2	6.6
	50	BT50-XP50-130	130	100	231.8	78	95.5	2	2	7.65

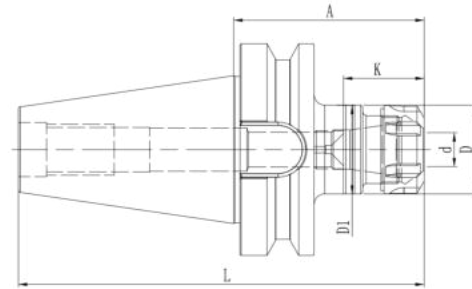
- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.
- Delivery includes spare parts, and accessories need to be ordered separately.

■ Spare Parts

 <p>Lock bolt</p>	Application d		Number
	20	F04D1616	1
	25	F04D1820	2
	32	F04D2020	2
	40	F04D2020	2
	50	F04D2425	2



### ER Collet Chuck



- Choose different collet can expand the hold range.
- The shank is suitable for drilling, reaming, reaming and partial milling.

Taper	Range d mm	Model	Size*mm					Dynamic balance	KG
			A	D	D1	L	K min-max		
BT40	0.5-10	BT40-ER16-70	70	32	32	135.4	30-45	1	1.1
	0.5-10	BT40-ER16-120	120	32	32	185.4	30-45	1	1.15
	1.0-12	BT40-ER20-70	70	34	34	135.4	34-49	1	1.1
	1.0-12	BT40-ER20-120	120	34	34	185.4	34-49	1	1.4
	1.0-12	BT40-ER20-165	165	34	34	225.4	34-49	1	1.7
	1.0-16	BT40-ER25-70	70	42	42	135.4	38-68	1	1.2
	1.0-16	BT40-ER25-120	120	42	42	185.4	38-68	1	1.3
	1.0-16	BT40-ER25-165	165	42	42	230.4	38-68	1	2
	2.0-20	BT40-ER32-70	70	50	50	135.4	43-77	1	1.25
	2.0-20	BT40-ER32-120	120	50	50	185.4	43-77	1	1.4
	2.0-20	BT40-ER32-165	165	50	50	230.4	43-77	1	2.4
	3.0-26	BT40-ER40-75	75	63	63	140.4	50-72	1	1.9
3.0-26	BT40-ER40-100	100	63	63	165.4	50-73	1	2.5	
BT50	0.5-10	BT50-ER16-120	120	32	32	221.8	30-44	2	3.2
	0.5-10	BT50-ER16-165	165	32	32	266.8	30-44	2	3.4
	1.0-12	BT50-ER20-100	100	34	34	201.8	34-49	2	3.7
	1.0-12	BT50-ER20-150	150	34	34	251.8	34-49	2	4.1
	1.0-12	BT50-ER20-165	165	34	34	266.8	34-49	2	4.3
	1.0-12	BT50-ER20-200	200	34	34	301.8	34-49	2	4.5
	1.0-12	BT50-ER20-250	250	34	34	351.8	34-49	2	4.8
	1.0-16	BT50-ER25-90	90	42	42	191.8	38-68	2	3.3
	1.0-16	BT50-ER25-150	150	42	42	251.8	38-68	2	4.2
	1.0-16	BT50-ER25-165	165	42	42	266.8	38-68	2	4.4

Taper	Range d mm	Model	Size*mm					Dynamic balance	KG
			A	D	D1	L	K min-max		
BT50	2.0-20	BT50-ER32-90	90	50	50	191.8	43-117	2	3.35
	2.0-20	BT50-ER32-100	100	50	50	201.8	43-117	2	4
	2.0-20	BT50-ER32-150	150	50	50	251.8	43-121	2	3.7
	2.0-20	BT50-ER32-200	200	50	50	301.8	43-121	2	5.3
	2.0-20	BT50-ER32-250	250	50	50	351.8	43-121	2	5.9
	3.0-26	BT50-ER40-100	100	63	63	201.8	50-84	2	3.9

- Regular cleaning of shank, collet and nut is very important to maintain accuracy and durability.
- Delivery includes spare parts, and accessories need to be ordered separately.

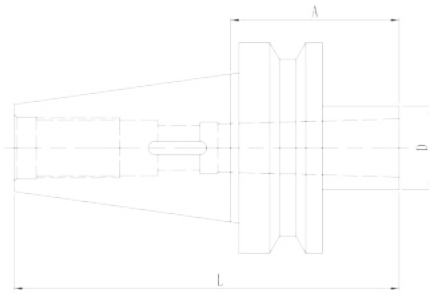
### ER Collet Chuck Spare Parts

Applicable specifications	Nut	Catch bolt
ER 16	F061618X	F071003
ER 20	F062020X	F071203
ER 25	F062521X	F071803
ER 32	F063223X	F072203
ER 40	F064026X	F073003

### ER Collet Chuck Accessories

Applicable specifications	Wrench
ER 16	F0516
ER 20	F0520
ER 25	F0525
ER 32	F0532
ER 40	F0540

### Morse Taper Adapter With Flat Tail

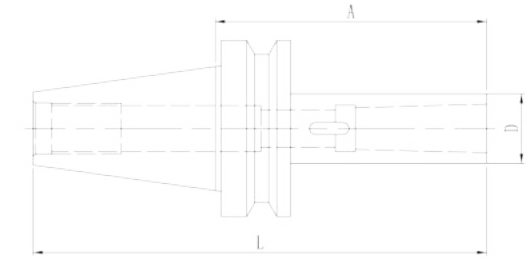


● Suitable for drilling or milling tools with Morse taper.

Sort	MT	Model	Size*mm			Dynamic balance	KG
			A	D	L		
BT40	1	BT40-MT1-50	50	25	115.4	2	0.95
	2	BT40-MT2-50	50	32	115.4	2	1
	3	BT40-MT3-70	70	40	135.4	2	1.1
	4	BT40-MT4-95	95	48	160.4	2	1.3
BT50	1	BT50-MT1-45	45	25	146.8	2	3.5
	2	BT50-MT2-60	60	32	161.8	2	3.65
	3	BT50-MT3-65	65	40	166.8	2	3.65
	4	BT50-MT4-95	95	48	196.8	2	3.8
	5	BT50-MT5-105	105	63	206.8	2	3.8

- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.

### Extended Morse Taper Adapter With Flat Tail



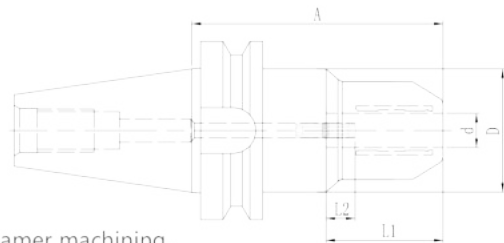
● Suitable for drilling or milling tools with Morse taper.

种类	MT	型号	尺寸mm			动平衡	KG
			A	D	L		
BT50	2	BT50-MT2-135	135	32	236.8	2	4
	3	BT50-MT3-155	155	40	256.8	2	4.5
	4	BT50-MT4-180	180	48	281.8	2	4.85

- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.



## Hydraulic Chuck

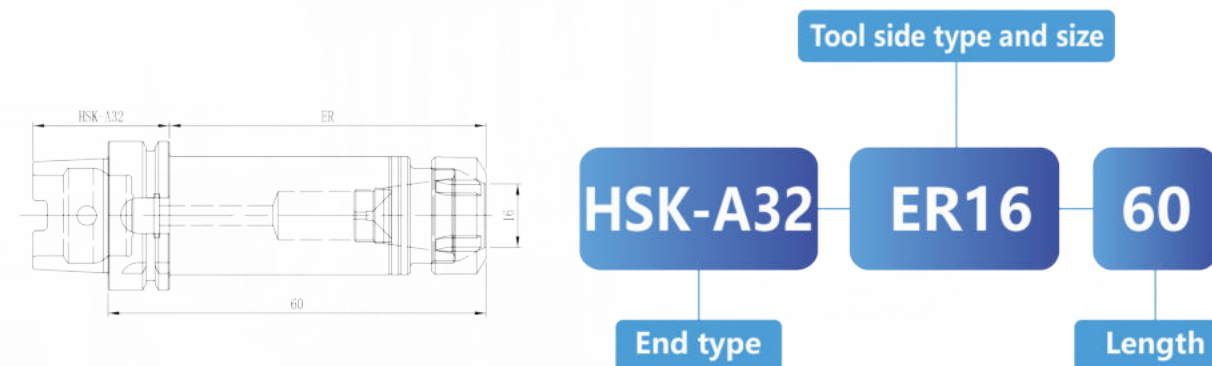


- With high precision to support end milling, carbide drill, polishing reamer machining.
- The hold diameter is rich and the length is diverse.

Taper	d mm	Model	Size*mm				Dynamic balance
			A	D	L1	L2	
BT40	6	BT40-HD06-80	80	49.5	37	10	2.5
	8	BT40-HD08-80	80	49.5	37	10	2.5
	10	BT40-HD10-85	85	49.5	41	10	2.5
	12	BT40-HD12-90	90	49.5	46	10	2.5
	14	BT40-HD14-90	90	49.5	46	10	2.5
	16	BT40-HD16-90	90	49.5	49	10	2.5
	18	BT40-HD18-90	90	49.5	49	10	2.5
	20	BT40-HD20-90	90	49.5	51	10	2.5
	25	BT40-HD25-105	105	63	57	10	2.5
	32	BT40-HD32-110	110	70	61	10	2.5
BT50	6	BT50-HD06-90	90	49.5	37	10	2.5
	8	BT50-HD08-90	90	49.5	37	10	2.5
	10	BT50-HD10-100	100	49.5	41	10	2.5
	12	BT50-HD12-100	100	49.5	46	10	2.5
	14	BT50-HD14-100	100	49.5	46	10	2.5
	16	BT50-HD16-100	100	49.5	49	10	2.5
	18	BT50-HD18-100	100	49.5	49	10	2.5
	20	BT50-HD20-110	110	49.5	51	10	2.5
	25	BT50-HD25-110	110	63	57	10	2.5
	32	BT50-HD32-110	110	70	61	10	2.5

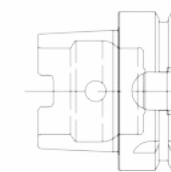
- Adopt high quality materials, high quality pull studs with strong durability.
- It is difficult to guarantee the overall accuracy when using inferior pull studs.
- Before using the hydraulic chuck, please pay attention to clean the inner diameter.

## Model Code Of HSK Toolholder



### End type

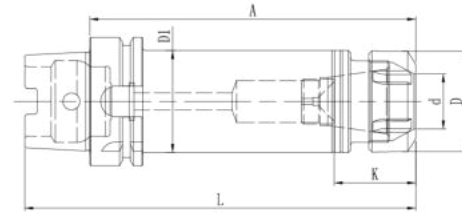
Taper chuck  
 HSK-A32  
 HSK-A40  
 HSK-A63  
 HSK-A100



### Head type and size

ER	ER collet chuck		HD	Hydraulic chuck	
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### HSK-Collet Chuck



- Choose different collet can expand the hold range.
- The shank is suitable for drilling, reaming, reaming and partial milling.

Taper chuck	Range d mm	Model	Size*mm					Dynamic balance	KG
			A	D	D1	L	K min-max		
HSK-A32	0.5-10	HSK-A32-ER16-60	60	32	25	76	30-35	1	0.24
HSK-A40	0.5-10	HSK-A40-ER16-60	60	32	32	80	30-33	1	0.35
	1-16	HSK-A40-ER25-70	70	42	34	90	—	1	0.44
HSK-A63	0.5-10	HSK-A63-ER16-100	100	32	32	132	32-48	1	0.99
	0.5-10	HSK-A63-ER16-160	160	32	32	192	32-48	1	1.35
	1.0-16	HSK-A63-ER25-100	100	42	42	132	38-56	1	1.21
	1.0-16	HSK-A63-ER25-160	160	42	42	192	38-69	1	1.82
	2.0-20	HSK-A63-ER32-100	100	50	50	132	40-55	1	1.4
	2.0-20	HSK-A63-ER32-160	160	50	50	192	40-68	1	2.28
HSK-A100	3.0-26	HSK-A63-ER40-120	120	63	53	152	45-67	1	1.81
	1.0-16	HSK-A100-ER25-100	100	42	42	150	38-48	1	2.54
	1.0-16	HSK-A100-ER25-160	160	42	42	210	38-69	1	3.14
	2.0-20	HSK-A100-ER32-100	100	50	50	150	40-49	1	2.73
	2.0-20	HSK-A100-ER32-160	160	50	50	210	40-68	1	3.57
	3.0-26	HSK-A100-ER40-120	120	63	63	170	45-62	1	3.56

- Regular cleaning of shank, collet and nut is very important to maintain accuracy and durability.
- Delivery includes spare parts, and accessories need to be ordered separately.

### HSK-Collet Chuck Spare Parts

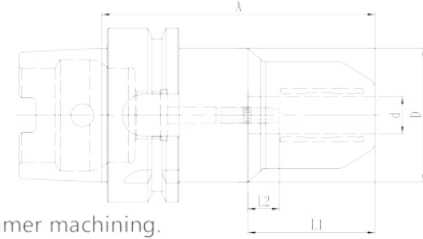
Applicable specifications	Nut	Catch bolt
ER 16	F061618X	F071103
ER 25	F062521X	F071803
ER 32	F063223X	F072203
ER 40	F064026X	F073003

### HSK-Collet Chuck Accessories

Applicable specifications	Wrench
ER 16	F0516
ER 25	F0525
ER 32	F0532
ER 40	F0540



### HSK-Hydraulic Chuck



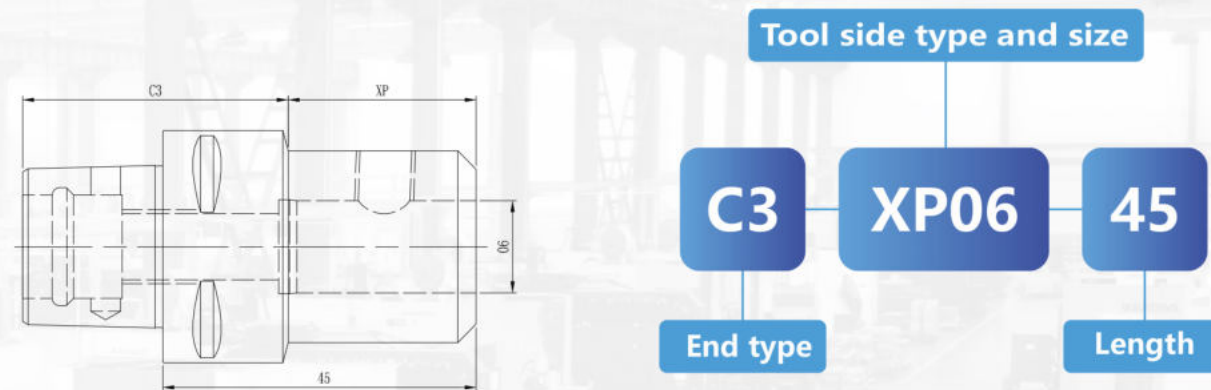
- With high precision to support end milling, carbide drill, polishing reamer machining.
- The hold diameter is rich and the length is diverse.

Taper chuck	d mm	Model	Size*mm				Dynamic balance
			A	D	L1	L2	
HSK-A32	6	HSK-A32-HD06-80	80	40	37	10	2.5
	8	HSK-A32-HD08-80	80	40	37	10	2.5
	10	HSK-A32-HD10-85	85	40	41	10	2.5
	12	HSK-A32-HD12-90	90	40	46	10	2.5
HSK-A40	6	HSK-A40-HD06-80	80	34	37	10	2.5
	8	HSK-A40-HD08-80	80	34	37	10	2.5
	10	HSK-A40-HD10-85	85	34	41	10	2.5
	12	HSK-A40-HD12-90	90	34	46	10	2.5
HSK-A50	6	HSK-A50-HD06-70	70	40	37	10	2.5
	8	HSK-A50-HD08-70	70	40	37	10	2.5
	10	HSK-A50-HD10-75	75	40	41	10	2.5
	12	HSK-A50-HD12-85	85	40	46	10	2.5
	14	HSK-A50-HD14-85	85	40	46	10	2.5
	16	HSK-A50-HD16-90	90	53	49	10	2.5
	18	HSK-A50-HD18-90	90	53	49	10	2.5
	20	HSK-A50-HD20-90	90	57	51	10	2.5
HSK-A63	6	HSK-A63-HD06-70	70	50	37	10	2.5
	8	HSK-A63-HD08-70	70	50	37	10	2.5
	10	HSK-A63-HD10-80	80	50	41	10	2.5
	12	HSK-A63-HD12-85	85	50	46	10	2.5
	14	HSK-A63-HD14-85	85	50	46	10	2.5
	16	HSK-A63-HD16-90	90	50	49	10	2.5
	18	HSK-A63-HD18-90	90	50	49	10	2.5

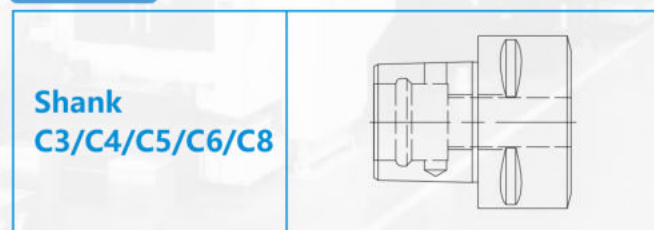
Taper chuck	d mm	Model	Size*mm				Dynamic balance
			A	D	L1	L2	
HSK-A63	20	HSK-A63-HD20-90	90	50	51	10	2.5
	25	HSK-A63-HD25-120	120	53	57	10	2.5
	32	HSK-A63-HD32-125	125	59	61	10	2.5
HSK-A100	6	HSK-A100-HD06-75	75	50	37	10	2.5
	8	HSK-A100-HD08-75	75	50	37	10	2.5
	10	HSK-A100-HD10-90	90	50	41	10	2.5
	12	HSK-A100-HD12-95	95	50	46	10	2.5
	14	HSK-A100-HD14-95	95	50	46	10	2.5
	16	HSK-A100-HD16-100	100	50	49	10	2.5
	18	HSK-A100-HD18-100	100	50	49	10	2.5
	20	HSK-A100-HD20-105	105	50	51	10	2.5
	25	HSK-A100-HD25-110	110	63	57	10	2.5
	32	HSK-A100-HD32-110	110	67	61	10	2.5

- Before using the hydraulic chuck, please pay attention to clean the inner diameter.

# Model Code Of Capto Toolholder



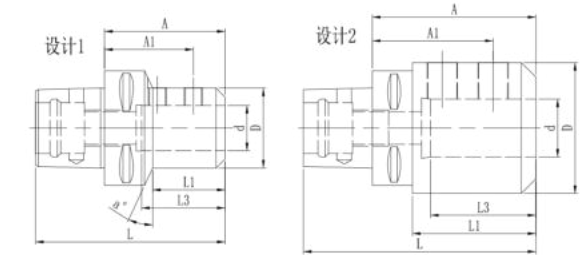
**End type**



**Head type**

XP	Side lock holder		ER	ER collet chuck	
EP	E-Side lock holder (Different bolt angle)		HD	Hydraulic chuck	

## Capto-Side Lock Holder -DIN 1835-B1



● Suitable for side-locked tool bar, cutting tools, etc.

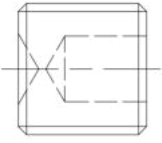
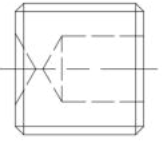
柄部	d mm	型号	尺寸mm						设计	α°	动平衡	KG
			A	D	L	A1	L1	L3				
C3	6	C3-XP06-45	45	25	65	28	27.5	27	1	30	2	0.3
	8	C3-XP08-45	45	28	65	28	29	30	1	45	2	0.3
	10	C3-XP10-50	50	35	69	30	—	36	2	—	2	0.3
	12	C3-XP12-55	55	42	74	32.5	—	40	2	—	2	0.5
C4	6	C4-XP06-50	50	25	74	32	25.5	27	1	30	2	0.4
	8	C4-XP08-50	50	28	74	32	26.5	30	1	45	2	0.4
	10	C4-XP10-50	50	35	75	31	29.6	36	1	30	2	0.5
	12	C4-XP12-55	55	42	80	33.5	—	43	2	—	2	0.6
	14	C4-XP14-55	55	44	79	32.5	—	43	2	—	2	0.6
C5	6	C5-XP06-50	50	25	80	32	25.5	27	1	20	2	0.5
	8	C5-XP08-50	50	28	80	32	26	30	1	20	2	0.6
	10	C5-XP10-55	55	35	85	35	27.5	36	1	45	2	0.7
	12	C5-XP12-60	60	42	90	37.5	36	43	1	45	2	0.8
	14	C5-XP14-60	60	44	90	37.5	37	43	1	45	2	0.8
	18	C5-XP18-60	60	50	90	36	—	46	1	—	2	0.9
C6	6	C6-XP06-55	55	25	93	37	25	27	1	22	2	0.9
	8	C6-XP08-55	55	28	93	37	26	30	1	22	2	0.9
	10	C6-XP10-60	60	35	98	40	30	36	1	30	2	1.1
	12	C6-XP12-60	60	42	98	37.5	33	43	1	25	2	1.1
	14	C6-XP14-60	60	44	98	37.5	33.5	43	1	25	2	1.2
	18	C6-XP18-65	65	50	103	41	39	46	1	30	2	1.3
	C8	6	C8-XP06-70	70	25	118	52	27	27	1	25	2
8		C8-XP08-70	70	28	118	52	28	30	1	25	2	0.2



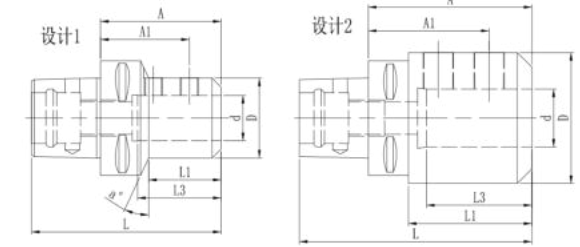
Shank	d mm	Model	Size*mm						Design	α°	Dynamic balance	KG
			A	D	L	A1	L1	L3				
C8	10	C8-XP10-70	70	35	118	50	29.5	36	1	25	2	2.2
	12	C8-XP12-70	70	42	118	47.5	31	43	1	25	2	2.5
	14	C8-XP14-70	70	44	118	47.5	31.6	43	1	25	2	2.2
	18	C8-XP18-70	70	50	118	46	33	46	1	25	2	2.2
	50	C8-XP50-120	120	100	168	85	—	78	2	—	2	6

● Delivery includes spare parts.

### ▀ Spare Parts

Application d	Lock bolt (1)	Lock bolt (2)
		
6	F04D0610	—
8	F04D0810	—
10	F04D1012	—
12	F04D1216	—
14	F04D1216	—
18	F04D1416	—
50	F04D2425	F04D2425

### Capto-Side Lock Holder -DIN 1835-B2



● Suitable for side-locked tool bar, cutting tools, etc.

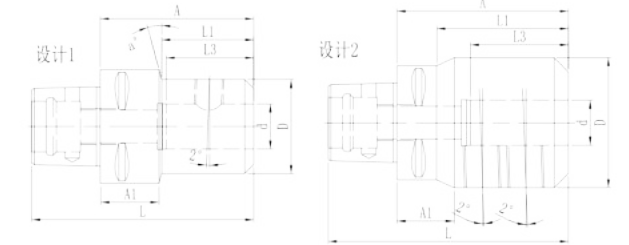
Shank	d mm	Model	Size*mm						Design	α°	Dynamic balance	KG
			A	D	L	A1	L1	L3				
C4	16	C4-XP16-55	55	48	79	31	35	46	2	—	2	0.6
C5	16	C5-XP16-60	60	48	90	36	37	46	1	45	2	0.9
	20	C5-XP20-60	60	52	90	25	—	48	2	—	2	0.9
	25	C5-XP25-80	80	63	110	56	—	54	2	—	2	1.5
C6	16	C6-XP16-65	65	48	103	41	40	51	1	0	2	1.3
	20	C6-XP20-65	65	52	103	40	40	48	1	0	2	1.3
	25	C6-XP25-80	80	63	118	56	—	54	1	—	2	0.8
	32	C6-XP32-90	90	72	128	66	—	58	2	—	2	2.4
	40	C6-XP40-100	100	80	138	70	—	68	2	—	2	2.9
C8	16	C8-XP16-70	70	48	118	46	37	46	1	0	2	2.2
	20	C8-XP20-70	70	52	118	45	37	48	1	0	2	2.2
	25	C8-XP25-80	80	65	128	56	47	54	1	0	2	2.7
	32	C8-XP32-80	80	72	128	56	47	58	1	0	2	2.7
	40	C8-XP40-110	110	80	158	80	—	68	1	—	2	3.9

● Delivery includes spare parts.

Spare Parts

Application d	Lock bolt (1)	Lock bolt (2)
16	—	F04D1416
20	—	F04D1416
25	F04D1820	F04D1820
32	F04D2020	F04D2020
40	F04D2020	F04D2020

Capto-Side Lock Holder  
-DIN 1835-2E



● Suitable for side-locked tool bar, cutting tools, etc.

柄部	d mm	型号	尺寸mm						设计	α°	动平衡	KG
			A	D	L	A1 min-max	L1	L3				
C3	6	C3-EP06-70	70	25	89	32-40	37	30	1	45	2	0.4
	8	C3-EP08-70	70	28	89	32-40	40	30	1	45	2	0.4
	10	C3-EP10-70	70	35	89	28-38	—	39	1	—	2	0.5
	12	C3-EP12-75	75	42	94	28-40	—	44	2	—	2	0.7
C4	6	C4-EP06-70	70	25	94	32-40	37	30	1	30	2	0.5
	8	C4-EP08-70	70	28	94	32-40	37	30	1	30	2	0.5
	10	C4-EP10-70	70	35	94	28-38	39	—	1	30	2	0.6
	12	C4-EP12-75	75	42	99	28-40	—	44	2	—	2	0.8
	14	C4-EP14-75	75	44	99	28-40	—	44	2	—	2	0.8
C5	6	C5-EP06-70	70	25	100	32-40	37	30	1	15	2	0.7
	8	C5-EP08-70	70	28	100	32-40	37	30	1	15	2	0.8
	10	C5-EP10-70	70	35	100	28-38	38	39	1	15	2	0.9
	12	C5-EP12-75	75	42	105	28-40	43	44	1	30	2	1
	14	C5-EP14-75	75	44	105	28-40	44	44	1	30	2	1.1
	16	C5-EP16-80	80	48	110	30-42	48	47	1	45	2	1.2
	18	C5-EP18-80	80	50	110	30-42	—	47	1	—	2	1.2
	20	C5-EP20-85	85	52	115	33-45	—	49	2	—	2	1.3
C6	6	C6-EP06-75	75	25	113	37-45	35	30	1	15	2	1.2
	8	C6-EP08-75	75	28	113	37-45	35	30	1	15	2	1.3
	10	C6-EP10-75	75	35	113	33-43	36	39	1	15	2	1.4
	12	C6-EP12-80	80	42	118	33-45	42	44	1	15	2	1.5
	14	C6-EP14-80	80	44	118	33-45	42	44	1	15	2	1.6
	16	C6-EP16-80	80	48	118	30-42	47	47	1	15	2	1.6



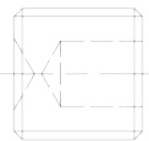
Shank	d mm	Model	Size*mm						Design	α°	Dynamic balance	KG
			A	D	L	A1 min-max	L1	L3				
C6	18	C6-EP18-80	80	50	118	30-42	47	47	1	15	2	1.6
	20	C6-EP20-85	85	52	123	33-45	51	49	1	15	2	1.7
	25	C6-EP25-90	90	65	128	32-44	—	54	2	—	2	2.3
	32	C6-EP32-95	95	72	133	33-45	—	58	2	—	2	2.5
C8	6	C8-EP06-65	65	25	113	27-35	25	30	1	20	2	2.1
	8	C8-EP08-65	65	28	113	27-35	25.5	30	1	20	2	2.2
	10	C8-EP10-65	65	35	113	23-33	27	39	1	20	2	2
	12	C8-EP12-70	70	42	118	23-35	33	44	1	20	2	2.1
	14	C8-EP14-70	70	44	118	23-35	33.5	44	1	20	2	2.2
	16	C8-EP16-75	75	48	123	25-37	39	47	1	20	2	2.4
	18	C8-EP18-75	75	50	123	25-37	39.5	47	1	20	2	2.5
	20	C8-EP20-80	80	52	128	28-40	45	49	1	15	2	2.5
	25	C8-EP25-90	90	65	138	32-44	57	54	1	20	2	3
	32	C8-EP32-95	95	72	143	33-45	63	58	1	20	2	3

● Delivery includes spare parts.

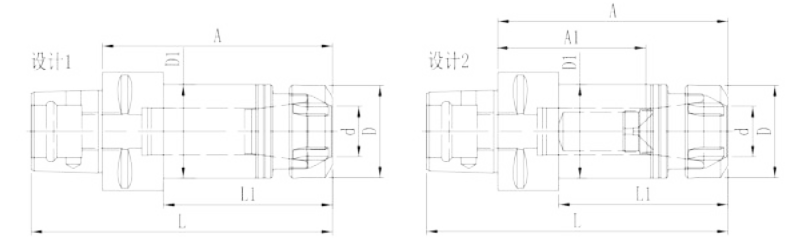
### Spare Parts

Application d	Bumber
6	F04D0610
8	F04D0810
10	F04D1012
12-14	F04D1216
16-18	F04D1416
20	F04D1616
25	F04D1820
32	F04D2020
40	F04D2020
50	F04D2425

Lock bolt



### Capto-Collet Chuck



- Choose different collet can expand the hold range.
- The shank is suitable for drilling, reaming, reaming and partial milling.

Shank	Range d mm	Model	Size*mm						Design	Dynamic balance	KG
			A	D	D1	L	L1	A1 min-max			
C3	0.5-10	C3-ER16-45	45	32	—	64	27	—	1	1	0.2
C4	1-16	C4-ER25-52	52	42	—	76	29	—	1	1	0.4
	2-20	C4-ER32-54	54	50	—	78	—	—	1	1	0.4
C5	1-16	C5-ER25-55	55	42	42	85	32	—	1	1	0.6
	1-16	C5-ER25-100	100	42	42	130	77	31-62	2	1	1
	2-20	C5-ER32-57	57	50	—	87	32	—	1	1	0.7
C6	0.5-10	C6-ER16-100	100	32	32	138	75	52	2	1	1.2
	1-16	C6-ER25-60	60	42	42	98	35	—	1	1	1
	1-16	C6-ER25-100	100	42	42	138	75	31-62	2	1	1.4
	1-16	C6-ER25-130	130	42	42	168	105	61-92	2	1	1.7
	1-16	C6-ER25-160	160	42	42	198	135	91-122	2	1	2
	2-20	C6-ER32-60	60	50	50	98	35	—	1	1	1
	2-20	C6-ER32-100	100	50	50	138	78	32-60	2	1	1.6
	2-20	C6-ER32-130	130	50	50	168	108	62-90	2	1	2
C8	3-26	C6-ER40-65	65	63	—	103	45	—	1	1	1.2
	2-20	C8-ER32-70	70	50	50	118	37	23-30	2	1	2.1
	2-20	C8-ER32-160	160	50	50	208	130	92-120	2	1	3.3
	3-26	C8-ER40-70	70	63	—	118	37	23-30	2	1	2.1

- Regular cleaning of shank, collet and nut is very important to maintain accuracy and durability.
- Delivery includes spare parts, and accessories need to be ordered separately.

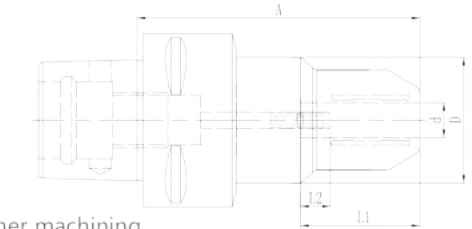
### Capto-Collet Chuck Spare Parts

Applicable specifications	Nut	Catch bolt
ER 16	F061618X	F071103
ER 25	F062521X	F071803
ER 32	F063223X	F072203
ER 40	F064026X	F073003

### Capto-Collet Chuck Accessories

Applicable specifications	Wrench
ER 16	F0516
ER 25	F0525
ER 32	F0532
ER 40	F0540

### Capto-Hydraulic Chuck



- With high precision to support end milling, carbide drill, polishing reamer machining.
- The hold diameter is rich and the length is diverse.

Shank	d mm	Model	Size*mm				Dynamic balance
			A	D	L1	L2	
C4	6	C4-HD06-70	70	40	37	10	2.5
	8	C4-HD08-70	70	40	37	10	2.5
	10	C4-HD10-75	75	40	41	10	2.5
	12	C4-HD12-80	80	40	46	10	2.5
C5	6	C5-HD06-70	70	40	37	10	2.5
	8	C5-HD08-70	70	40	37	10	2.5
	10	C5-HD10-80	80	40	41	10	2.5
	12	C5-HD12-85	85	40	46	10	2.5
	14	C5-HD14-85	85	40	46	10	2.5
	16	C5-HD16-90	90	53	49	10	2.5
	18	C5-HD18-90	90	53	49	10	2.5
C6	20	C5-HD20-90	90	53	51	10	2.5
	6	C6-HD06-70	70	50	37	10	2.5
	8	C6-HD08-70	70	50	37	10	2.5
	10	C6-HD10-80	80	50	41	10	2.5
	12	C6-HD12-85	85	50	46	10	2.5
	14	C6-HD14-85	85	50	46	10	2.5
	16	C6-HD16-90	90	50	49	10	2.5
	18	C6-HD18-90	90	50	49	10	2.5
	20	C6-HD20-100	100	50	51	10	2.5
	25	C6-HD25-100	100	63	57	10	2.5
32	C6-HD32-110	110	67	61	10	2.5	

- Before using the hydraulic chuck, please pay attention to clean the inner diameter.