

Solid Carbide Square End Mills-Standard Type (X-Series HRC45)



Product Description

X-Series Micro Grain Square end mill D1-D20mm, 2Flutes-4Flutes
Helix angle: 35 upto: HRC45

1. Micro grain carbide rod:
WC=90%, Co=10%, TRS>3800N/mm²; Hardness>91.8HRA, Grain size: 0.6um; High quality of wear ability and impact
2. Made by latest 5-AXIS CNC tools grinder, promise the quality and precision of cutter.
3. Super TiAlN, reduce the coefficient of friction, and improve the tools life much.
4. Each end mill is inspected by Zoller measuring and inspected machine.
5. We accept the specification as your requirement.
6. Work Piece: Carbon steel, alloy steel, cast steel, tooling steel, mould steel, heat-treatment steel. Aluminum alloy steel, cast iron ,Non ferrous alloy, metal , plastic and other materials

(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	50
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25	12	
12×30×12D×75L×4F	12	30		
14×35×14D×100L×4F	14	35	14	100
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Solid Carbide Square End Mill-Long Shank (X-series HRC 45)



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
6.0×16×6D×75L×2F	6	16	6	75
6.0×16×6D×100L×2F	6	16	6	100
8.0×20×8D×75L×2F	8	20	8	75
8.0 ×20×8D×100L×2F	8	20	8	100
10×25×10D×100L×2F	10	25	10	100
10×25×10D×150L×2F	10	25	10	150
12×30×12D×100L×2F	12	30	12	100
12×30×12D×150L×2F	12	30	12	150

Solid Carbide Square End Mills-Long Flute (X-series HRC45)



(Order No)	Cutting	Shank	Flute	A.O.L
	d	D	l	L
1.0×7×4D×50L×4F	1	4	7	50
1.5×9×4D×50L×4F	1.5	4	9	50
2.0×12×4D×50L×4F	2	4	12	50
2.5×12×4D×50L×4F	2.5	4	12	50
3.0×15×6D×60L×4F	3	6	15	60
3.5×15×6D×60L×4F	3.5	6	15	60
4.0×20×6D×75L×4F	4	6	20	75
4.5×20×6D×75L×4F	4.5	6	20	75
5.0×25×6D×75L×4F	5	6	25	75
5.5×25×6D×75L×4F	5.5	6	25	75
6.0×30×6D×75L×4F	6	6	30	75
7.0×30×8D×100L×4F	7	8	30	100
8.0×35×8D×100L×4F	8	8	40	100
9.0×40×10D×100L×4F	9	10	40	100
10×40×10D×100L×4F	10	10	40	100
11×40×12D×100L×4F	11	12	40	100
12×45×12D×100L×4F	12	12	50	100
14×50×14D×150L×4F	14	14	50	150
16×60×16D×150L×4F	16	16	60	150
18×70×18D×150L×4F	18	18	70	150
20×70×20D×160L×4F	20	20	70	160

Solid Carbide Ball Nose End Mill-Standard Type (X-series HRC45)



(Order No)	Cutting	Shank	Flute	A.O.I
	d	D	l	L
R0.5×2×4D×50L×2F	1	4	2	50
R0.75×3×4D×50L×2F	1.5	4	3	50
R1.0×4×4D×50L×2F	2	4	4	50
R1.25×5×4D×50L×2F	2.5	4	5	50
R1.5×6×4D×50L×2F	3	4	6	50
R1.75×7×4D×50L×2F	3.5	4	7	50
R2.0×8×4D×50L×2F	4	4	8	50
R2.5×10×6D×50L×2F	5	6	10	50
R3.0×12×6D×50L×2F	6	6	12	50
R3.5×14×8D×60L×2F	7	8	14	60
R4.0×16×8D×60L×2F	8	8	16	60
R4.5×18×10D×75L×2F	9	10	18	75
R5.0×20×10D×75L×2F	10	10	20	75
R5.5×22×12D×75L×2F	11	12	22	75
R6.0×24×12D×75L×2F	12	12	24	75
R7.0×28×14D×100L×2F	14	14	28	100
R8.0×32×16D×100L×2F	16	16	32	100
R9.0×36×18D×100L×2F	18	18	36	100
R10×40×20D×100L×2F	20	20	40	100

Solid Carbide Ball-Nose End Mills-Long Shank(X-Series HRC45)



(Order No)	Cutting	Shank	Flute	A.O.L
	d	D	l	L
R0.5×2×4D×75L×2F	1	4	2	75
R0.75×3×4D×75L×2F	1.5	4	3	75
R1.0×4×4D×75L×2F	2	4	4	75
R1.25×5×4D×75L×2F	2.5	4	5	75
R1.5×6×4D×75L×2F	3	4	6	75
R1.75×7×4D×75L×2F	3.5	4	7	75
R2.0×8×4D×75L×2F	4	4	8	75
R2.5×10×6D×75L×2F	5	6	10	75
R2.5×10×6D×100L×2F	5	6	10	100
R3.0×12×6D×75L×2F	6	6	12	75
R3.0×12×6D×100L×2F	6	6	12	100
R3.0×12×6D×150L×2F	6	6	12	150
R4.0×16×8D×75L×2F	8	8	16	75
R4.0×16×8D×100L×2F	8	8	16	100
R4.0×16×8D×150L×2F	8	8	16	150
R5.0×20×10D×100L×2F	10	10	20	100
R5.0×20×10D×150L×2F	10	10	20	150
R6.0×24×12D×100L×2F	12	12	24	100
R6.0×24×12D×150L×2F	12	12	24	150
R7.0×28×14D×150L×2F	14	14	28	150
R8.0×32×16D×150L×2F	16	16	32	150
R10×40×20D×150L×2F	20	20	40	150

Solid carbide 45° End Mill (X series HRC 45)



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	50
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25		
12×30×12D×75L×4F	12	30	12	100
14×35×14D×100L×4F	14	35	14	
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Solid Carbide Square End Mill Standard Type (U-Series HRC55)



Product Description

U-Series Ultra Fine Micro Grain Square end mill D1-D20mm, 2Flutes-4Flutes
Helix angle: 35 Upto: HRC55 Middle to High Speed

1. Micro grain carbide rod:
WC=90%, Co=10%, TRS>4000N/mm²; Hardness>92HRA, Grain size: 0.5um; High quality of wear ability and impact
2. Made by world latest 5-AXIS CNC tools grinder, promise the quality and precision of cutter.
3. Super ALTiN reduce the coefficient of friction, and improve the tools life much.
4. Each end mill is inspected by Zoller measuring and inspected machine.
5. We accept the specification as your requirement.
6. Work Piece: Suitable for processing steel , stainless steel,nickel alloy ,Titanium alloy ,cast iron , plastic and other materials' hardness below HRC55

(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25	12	
12×30×12D×75L×4F	12	30		
14×35×14D×100L×4F	14	35	14	100
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Solid Carbide Square End Mill U-Series HRC55 TiAlCrN Coating



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	50
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25	12	
12×30×12D×75L×4F	12	30		
14×35×14D×100L×4F	14	35	14	100
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Solid Carbide Square End Mills-Long Shank (U-Series HRC55)



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
6.0×16×6D×75L×2F	6	16	6	75
6.0×16×6D×100L×2F	6	16	6	100
8.0×20×8D×75L×2F	8	20	8	75
8.0 ×20×8D×100L×2F	8	20	8	100
10×25×10D×100L×2F	10	25	10	100
10×25×10D×150L×2F	10	25	10	150
12×30×12D×100L×2F	12	30	12	100
12×30×12D×150L×2F	12	30	12	150

Solid Carbide Square End Mills-Long Flute (U-Series HRC55)

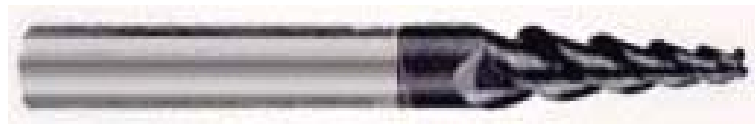


(Order No)	Cutting	Shank	Flute	A.O.L
	d	D	l	L
1.0×7×4D×50L×4F	1	4	7	50
1.5×9×4D×50L×4F	1.5	4	9	50
2.0×12×4D×50L×4F	2	4	12	50
2.5×12×4D×50L×4F	2.5	4	12	50
3.0×15×6D×60L×4F	3	6	15	60
3.5×15×6D×60L×4F	3.5	6	15	60
4.0×20×6D×75L×4F	4	6	20	75
4.5×20×6D×75L×4F	4.5	6	20	75
5.0×25×6D×75L×4F	5	6	25	75
5.5×25×6D×75L×4F	5.5	6	25	75
6.0×30×6D×75L×4F	6	6	30	75
7.0×30×8D×100L×4F	7	8	30	100
8.0×35×8D×100L×4F	8	8	40	100
9.0×40×10D×100L×4F	9	10	40	100
10×40×10D×100L×4F	10	10	40	100
11×40×12D×100L×4F	11	12	40	100
12×45×12D×100L×4F	12	12	50	100
14×50×14D×150L×4F	14	14	50	150
16×60×16D×150L×4F	16	16	60	150
18×70×18D×150L×4F	18	18	70	150

20×70×20D×160L×4F	20	20	70	160
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Solid Carbide Taper-Flute End Mills

(U-series HRC55)



(order Number)	cutting	Flute	Shank	A.O.L	Cone Degree	Top Cone Diameter
	d	l	D	L	α	d1
TF 2×6×4D×50L×1°	2	6	4	50	1°	2.21
TF 2×6×4D×50L×2°	2	6	4	50	2°	2.41
TF 2×6×4D×50L×7°	2	6	4	50	7°	4.47
TF 2×6×4D×50L×10°	2	6	4	50	10°	4.11
TF 3×10×6D×50L×1°	3	10	6	50	1°	3.35
TF 3×10×6D×50L×2°	3	10	6	50	2°	3.69
TF 3×10×6D×50L×3°	3	10	6	50	3°	4.05
TF 3×10×6D×50L×5°	3	10	6	50	5°	4.75
TF 3×10×6D×50L×7°	3	10	6	50	7°	5.46
TF 3×10×6D×50L×10°	3	10	6	50	10°	6.53
TF 4×15×6D×50L×1°	4	15	6	50	1°	4.52
TF 4×15×8D×60L×5°	4	15	8	60	5°	6.62
TF 4×15×8D×60L×7°	4	15	8	60	7°	7.68
TF 6×20×8D×60L×1°	6	20	8	60	1°	6.7
TF 6×20×8D×60L×2°	6	20	8	60	2°	7.4
TF 6×20×8D×60L×3°	6	20	8	60	3°	8.1
TF 6×20×10D×75L×5°	6	20	10	75	5°	9.5
TF 8×20×10D×75L×1°	8	25	10	75	1°	8.87
TF 8×20×10D×75L×2°	8	25	10	75	2°	9.74
TF 8×20×10D×75L×3°	8	25	12	75	3°	10.62
TF 8×25×12D×100L×5°	8	25	12	100	5°	12.37
TF10×35×12D×100L×1°	10	35	12	100	1°	11.22
TF10×35×12D×100L×2°	10	35	12	100	2°	12.44
TF10×35×16D×100L×3°	10	35	16	100	3°	13.67

TF10×35×16D×100L×5°	10	35	16	100	5°	16.12
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Solid Carbide Ball-nose End Mills Standard Type (U-series HRC55)



(Order No)	Cutting	Shank	Flute	A.O.I
	d	D	l	L
R0.5×2×4D×50L×2F	1	4	2	50
R0.75×3×4D×50L×2F	1.5	4	3	50
R1.0×4×4D×50L×2F	2	4	4	50
R1.25×5×4D×50L×2F	2.5	4	5	50
R1.5×6×4D×50L×2F	3	4	6	50
R1.75×7×4D×50L×2F	3.5	4	7	50
R2.0×8×4D×50L×2F	4	4	8	50
R2.5×10×6D×50L×2F	5	6	10	50
R3.0×12×6D×50L×2F	6	6	12	50
R3.5×14×8D×60L×2F	7	8	14	60
R4.0×16×8D×60L×2F	8	8	16	60
R4.5×18×10D×75L×2F	9	10	18	75
R5.0×20×10D×75L×2F	10	10	20	75
R5.5×22×12D×75L×2F	11	12	22	75
R6.0×24×12D×75L×2F	12	12	24	75
R7.0×28×14D×100L×2F	14	14	28	100
R8.0×32×16D×100L×2F	16	16	32	100
R9.0×36×18D×100L×2F	18	18	36	100
R10×40×20D×100L×2F	20	20	40	100

Solid Carbide Ball-Nose End Mills-Long Shank (U-Series HRC55)



R0.75×3×4D×75L×2F	1.5	4	3	75
R1.0×4×4D×75L×2F	2	4	4	75
R1.25×5×4D×75L×2F	2.5	4	5	75
R1.5×6×4D×75L×2F	3	4	6	75
R1.75×7×4D×75L×2F	3.5	4	7	75
R2.0×8×4D×75L×2F	4	4	8	75
R2.5×10×6D×75L×2F	5	6	10	75
R2.5×10×6D×100L×2F	5	6	10	100
R3.0×12×6D×75L×2F	6	6	12	75
R3.0×12×6D×100L×2F	6	6	12	100
R3.0×12×6D×150L×2F	6	6	12	150
R4.0×16×8D×75L×2F	8	8	16	75
R4.0×16×8D×100L×2F	8	8	16	100
R4.0×16×8D×150L×2F	8	8	16	150
R5.0×20×10D×100L×2F	10	10	20	100
R5.0×20×10D×150L×2F	10	10	20	150
R6.0×24×12D×100L×2F	12	12	24	100
R6.0×24×12D×150L×2F	12	12	24	150
R7.0×28×14D×150L×2F	14	14	28	150
R8.0×32×16D×150L×2F	16	16	32	150
R10×40×20D×150L×2F	20	20	40	150

Solid carbide 45° End Mill (U-series HRC55)



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	50
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25		
12×30×12D×75L×4F	12	30	12	100
14×35×14D×100L×4F	14	35	14	
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Carbide Corner Radius End Mill

(U-series HRC55)



order number	cutting	Flute	Shank	Corner	A.O.L
	d	l	D	R Corner	L
1×3×4D×R0.2×50L×2F	1	3	4	R0.2	50
1×3×4D×R0.3×50L×2F	1	3	4	R0.3	50
1.5×3×4D×R0.2×50L×2F	1.5	4	4	R0.2	50
1.5×3×4D×R0.3×50L×2F	1.5	4	4	R0.3	50
2×6×4D×R0.2×50L×2F	2	6	4	R0.2	50
2×6×4D×R0.3×50L×2F	2	6	4	R0.3	50
2.5×8×4D×R0.2×50L×2F	2.5	6	4	R0.2	50
2.5×8×4D×R0.5×50L×2F	2.5	6	4	R0.5	50
3×8×3D×R0.3×50L×2F	3	8	3	R0.3	50
3×8×3D×R0.5×50L×2F	3	8	3	R0.5	50
3×8×4D×R0.3×50L×2F	3	8	4	R0.3	50
3×8×4D×R0.5×50L×2F	3	8	4	R0.5	50
4×10×4D×R0.5×50L×2F	4	10	4	R0.5	50
4×10×4D×R1.0×50L×2F	4	10	4	R1.0	50
4×10×6D×R0.5×50L×2F	4	10	6	R0.5	50
4×10×6D×R1.0×50L×2F	4	10	6	R1.0	50
5×13×6D×R0.5×50L×2F	5	13	6	R0.5	50
5×13×6D×R1.0×50L×2F	5	13	6	R1.0	50
6×15×6D×R0.5×50L×2F	6	15	6	R0.5	50
6×15×6D×R1.0×50L×2F	6	15	6	R1.0	50
8×20×8D×R0.5×60L×2F	8	20	8	R0.5	60

8×20×8D×R1.0×60L×2F	8	20	8	R1.0	60
8×20×8D×R1.5×60L×2F	8	20	8	R1.5	60
10×25×10D×R0.5×75L×2F	10	25	10	R0.5	75
10×25×10D×R1.0×75L×2F	10	25	10	R1.0	75
10×25×10D×R1.5×75L×2F	10	25	10	R1.5	75
10×25×10D×R2.0×75L×2F	10	25	10	R2.0	75
12×30×12D×R0.5×75L×2F	12	30	12	R0.5	75
12×30×12D×R1.0×75L×2F	12	30	12	R1.0	75
12×30×12D×R1.5×75L×2F	12	30	12	R1.5	75
12×30×12D×R2.0×75L×2F	12	30	12	R2.0	75
3×8×3D×R0.3×75L×2F	3	8	3	R0.3	75
3×8×3D×R0.5×75L×2F	3	8	3	R0.5	75
3×8×4D×R0.5×75L×2F	3	8	4	R0.5	75
3×8×4D×R1.0×75L×2F	3	8	4	R1.0	75
4×10×4D×R0.5×75L×2F	4	10	4	R0.5	75
4×10×4D×R1.0×75L×2F	4	10	4	R1.0	75
4×10×6D×R0.5×75L×2F	4	10	6	R0.5	75
4×10×6D×R1.0×75L×2F	4	10	6	R1.0	75
5×13×6D×R0.5×75L×2F	5	13	6	R0.5	75
5×13×6D×R1.0×75L×2F	5	13	6	R1.0	75
6×15×6D×R0.5×75L×2F	6	15	6	R0.5	75
6×15×6D×R1.0×75L×2F	6	15	6	R1.0	75
8×20×8D×R0.5×100L×2F	8	20	8	R0.5	100
8×20×8D×R1.0×100L×2F	8	20	8	R1.0	100
8×20×8D×R1.5×100L×2F	8	20	8	R1.5	100
10×25×10D×R0.5×100L×2F	10	25	10	R0.5	100
10×25×10D×R1.0×100L×2F	10	25	10	R1.0	100
10×25×10D×R1.5×100L×2F	10	25	10	R1.5	100
10×25×10D×R2.0×100L×2F	10	25	10	R2.0	100
12×30×12D×R0.5×100L×2F	12	30	12	R0.5	100
12×30×12D×R1.0×100L×2F	12	30	12	R1.0	100
12×30×12D×R1.5×100L×2F	12	30	12	R1.5	100
12×30×12D×R2.0×100L×2F	12	30	12	R2.0	100

Solid Carbide Square End Mills Standard Type (S-Series HRC60)



Product Description

S-Series Super-Fine Micro Grain square End Mills, 2Flutes-4Flutes
Helix angle: 35° Upto: HRC60 High Speed

1. Super-Fine Micrograin carbide rod:
WC=87.5%, Co=12.5%, TRS>4200N/mm²; Hardness>92.5HRA, Grain size: 0.4um; High quality of wear ability and impact
2. Made by latest 5-AXIS tools grinding machine, promise the quality and precision of cutter.
3. Super ALTiN coating , reduce the coefficient of friction, and improve the tools life much.
4. Each end mill is inspected by Zoller measuring and inspected machine.
5. We accept the specification as your requirement.
6. Work Piece: Suitable for processing steel ,stainless steel, nickel alloy ,Titanium alloy ,cast iron , plastic and other materials' hardness below HRC63

(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
1.0×3×4D×50L×4F	1	3	4	50
1.5×4×4D×50L×4F	1.5	4		
2.0×6×4D×50L×4F	2	6		
2.5×8×4D×50L×4F	2.5	8		
3.0×8×4D×50L×4F	3	8		
3.5×10×4D×50L×4F	3.5	10		
4.0×11×4D×50L×4F	4	11		
3.0× 8×6D×50L×4F	3	8	6	
3.5×10×6D×50L×4F	3.5	10		
4.0×11×6D×50L×4F	4	11		
4.5×13×6D×50L×4F	4.5	13		
5.0×13×6D×50L×4F	5	13		
5.5×13×6D×50L×4F	5.5	13		
6.0×15×6D×50L×4F	6	15		
7.0×16×8D×60L×4F	7	16	8	60
8.0 ×20×8D×60L×4F	8	20		
9 ×20×10D×75L×4F	9	20	10	75
10×25×10D×75L×4F	10	25		
11×25×12D×75L×4F	11	25	12	
12×30×12D×75L×4F	12	30		
14×35×14D×100L×4F	14	35	14	100
16×40×16D×100L×4F	16	40	16	
18×40×18D×100L×4F	18	40	18	
20×45×20D×100L×4F	20	45	20	

Solid Carbide Square End Mills - Long Shank (S-Series HRC60)



(Order No)	Cutting	Flute	Shank	A.O.L
	d	l	D	L
6.0×16×6D×75L×2F	6	16	6	75
6.0×16×6D×100L×2F	6	16	6	100
8.0×20×8D×75L×2F	8	20	8	75
8.0 ×20×8D×100L×2F	8	20	8	100
10×25×10D×100L×2F	10	25	10	100
10×25×10D×150L×2F	10	25	10	150
12×30×12D×100L×2F	12	30	12	100
12×30×12D×150L×2F	12	30	12	150

Solid Carbide Square End Mills-Long Flute (S-Series HRC60)



(Order No)	Cutting	Shank	Flute	A.O.L
	d	D	l	L
1.0×7×4D×50L×4F	1	4	7	50
1.5×9×4D×50L×4F	1.5	4	9	50
2.0×12×4D×50L×4F	2	4	12	50
2.5×12×4D×50L×4F	2.5	4	12	50
3.0×15×6D×60L×4F	3	6	15	60
3.5×15×6D×60L×4F	3.5	6	15	60
4.0×20×6D×75L×4F	4	6	20	75
4.5×20×6D×75L×4F	4.5	6	20	75
5.0×25×6D×75L×4F	5	6	25	75
5.5×25×6D×75L×4F	5.5	6	25	75
6.0×30×6D×75L×4F	6	6	30	75
7.0×30×8D×100L×4F	7	8	30	100
8.0×35×8D×100L×4F	8	8	40	100
9.0×40×10D×100L×4F	9	10	40	100
10×40×10D×100L×4F	10	10	40	100
11×40×12D×100L×4F	11	12	40	100
12×45×12D×100L×4F	12	12	50	100
14×50×14D×150L×4F	14	14	50	150
16×60×16D×150L×4F	16	16	60	150
18×70×18D×150L×4F	18	18	70	150
20×70×20D×160L×4F	20	20	70	160

Solid Carbide Ball-nose End Mills Standard Type (S-series HRC60)



(Order No)	Cutting	Shank	Flute	A.O.I
	d	D	l	L
R0.5×2×4D×50L×2F	1	4	2	50
R0.75×3×4D×50L×2F	1.5	4	3	50
R1.0×4×4D×50L×2F	2	4	4	50
R1.25×5×4D×50L×2F	2.5	4	5	50
R1.5×6×4D×50L×2F	3	4	6	50
R1.75×7×4D×50L×2F	3.5	4	7	50
R2.0×8×4D×50L×2F	4	4	8	50
R2.5×10×6D×50L×2F	5	6	10	50
R3.0×12×6D×50L×2F	6	6	12	50
R3.5×14×8D×60L×2F	7	8	14	60
R4.0×16×8D×60L×2F	8	8	16	60
R4.5×18×10D×75L×2F	9	10	18	75
R5.0×20×10D×75L×2F	10	10	20	75
R5.5×22×12D×75L×2F	11	12	22	75
R6.0×24×12D×75L×2F	12	12	24	75
R7.0×28×14D×100L×2F	14	14	28	100
R8.0×32×16D×100L×2F	16	16	32	100
R9.0×36×18D×100L×2F	18	18	36	100
R10×40×20D×100L×2F	20	20	40	100

Solid Carbide Ball-Nose End Mills-Long Shank (S-Series HRC60)



(Order No)	Cutting	Shank	Flute	A.O.L
	d	D	l	L
R0.5×2×4D×75L×2T	1	4	2	75
R0.75×3×4D×75L×2T	1.5	4	3	75
R1.0×4×4D×75L×2T	2	4	4	75
R1.25×5×4D×75L×2T	2.5	4	5	75
R1.5×6×4D×75L×2T	3	4	6	75
R1.75×7×4D×75L×2T	3.5	4	7	75
R2.0×8×4D×75L×2T	4	4	8	75
R2.5×10×6D×75L×2T	5	6	10	75
R2.5×10×6D×100L×2T	5	6	10	100
R3.0×12×6D×75L×2T	6	6	12	75
R3.0×12×6D×100L×2T	6	6	12	100
R3.0×12×6D×150L×2T	6	6	12	150
R4.0×16×8D×75L×2T	8	8	16	75
R4.0×16×8D×100L×2T	8	8	16	100
R4.0×16×8D×150L×2T	8	8	16	150
R5.0×20×10D×100L×2T	10	10	20	100
R5.0×20×10D×150L×2T	10	10	20	150
R6.0×24×12D×100L×2T	12	12	24	100
R6.0×24×12D×150L×2T	12	12	24	150
R7.0×28×14D×150L×2T	14	14	28	150
R8.0×32×16D×150L×2T	16	16	32	150

Carbide Corner Radius End Mill

(S-series HRC60)



order number	cutting	Flute	Shank	Corner	A.O.L
	d	l	D	R Corner	L
1×3×4D×R0.2×50L×2F	1	3	4	R0.2	50
1×3×4D×R0.3×50L×2F	1	3	4	R0.3	50
1.5×3×4D×R0.2×50L×2F	1.5	4	4	R0.2	50
1.5×3×4D×R0.3×50L×2F	1.5	4	4	R0.3	50
2×6×4D×R0.2×50L×2F	2	6	4	R0.2	50
2×6×4D×R0.3×50L×2F	2	6	4	R0.3	50
2.5×8×4D×R0.2×50L×2F	2.5	6	4	R0.2	50
2.5×8×4D×R0.5×50L×2F	2.5	6	4	R0.5	50
3×8×3D×R0.3×50L×2F	3	8	3	R0.3	50
3×8×3D×R0.5×50L×2F	3	8	3	R0.5	50
3×8×4D×R0.3×50L×2F	3	8	4	R0.3	50
3×8×4D×R0.5×50L×2F	3	8	4	R0.5	50
4×10×4D×R0.5×50L×2F	4	10	4	R0.5	50
4×10×4D×R1.0×50L×2F	4	10	4	R1.0	50
4×10×6D×R0.5×50L×2F	4	10	6	R0.5	50
4×10×6D×R1.0×50L×2F	4	10	6	R1.0	50
5×13×6D×R0.5×50L×2F	5	13	6	R0.5	50
5×13×6D×R1.0×50L×2F	5	13	6	R1.0	50
6×15×6D×R0.5×50L×2F	6	15	6	R0.5	50
6×15×6D×R1.0×50L×2F	6	15	6	R1.0	50
8×20×8D×R0.5×60L×2F	8	20	8	R0.5	60

8×20×8D×R1.0×60L×2F	8	20	8	R1.0	60
8×20×8D×R1.5×60L×2F	8	20	8	R1.5	60
10×25×10D×R0.5×75L×2F	10	25	10	R0.5	75
10×25×10D×R1.0×75L×2F	10	25	10	R1.0	75
10×25×10D×R1.5×75L×2F	10	25	10	R1.5	75
10×25×10D×R2.0×75L×2F	10	25	10	R2.0	75
12×30×12D×R0.5×75L×2F	12	30	12	R0.5	75
12×30×12D×R1.0×75L×2F	12	30	12	R1.0	75
12×30×12D×R1.5×75L×2F	12	30	12	R1.5	75
12×30×12D×R2.0×75L×2F	12	30	12	R2.0	75
3×8×3D×R0.3×75L×2F	3	8	3	R0.3	75
3×8×3D×R0.5×75L×2F	3	8	3	R0.5	75
3×8×4D×R0.5×75L×2F	3	8	4	R0.5	75
3×8×4D×R1.0×75L×2F	3	8	4	R1.0	75
4×10×4D×R0.5×75L×2F	4	10	4	R0.5	75
4×10×4D×R1.0×75L×2F	4	10	4	R1.0	75
4×10×6D×R0.5×75L×2F	4	10	6	R0.5	75
4×10×6D×R1.0×75L×2F	4	10	6	R1.0	75
5×13×6D×R0.5×75L×2F	5	13	6	R0.5	75
5×13×6D×R1.0×75L×2F	5	13	6	R1.0	75
6×15×6D×R0.5×75L×2F	6	15	6	R0.5	75
6×15×6D×R1.0×75L×2F	6	15	6	R1.0	75
8×20×8D×R0.5×100L×2F	8	20	8	R0.5	100
8×20×8D×R1.0×100L×2F	8	20	8	R1.0	100
8×20×8D×R1.5×100L×2F	8	20	8	R1.5	100
10×25×10D×R0.5×100L×2F	10	25	10	R0.5	100
10×25×10D×R1.0×100L×2F	10	25	10	R1.0	100
10×25×10D×R1.5×100L×2F	10	25	10	R1.5	100
10×25×10D×R2.0×100L×2F	10	25	10	R2.0	100
12×30×12D×R0.5×100L×2F	12	30	12	R0.5	100
12×30×12D×R1.0×100L×2F	12	30	12	R1.0	100
12×30×12D×R1.5×100L×2F	12	30	12	R1.5	100
12×30×12D×R2.0×100L×2F	12	30	12	R2.0	100
8×20×8D×R0.5×50L×2F	8	20	8	R0.5	60

Solid Carbide Power Multi-Flute End Mills(S-series)



(Order No)	Cutting	Flute	Shank	A.O.L	Flute
	d	l	D	L	F
PMF 6×15×6D×60L×6F	6	15	6	60	6F
PMF 8×20×8D×60L×6F	8	20	8	60	6F
PMF 10×25×10D×75L×6F	10	25	10	75	6F
PMF 12×30×12D×75L×6F	12	30	12	75	6F
PMF 16×45×16D×100L×6F	16	45	16	100	6F
PMF 20×45×20D×100L×6F	20	45	20	100	6F
PMF 6×25×6D×75L×6F	6	25	6	75	6F
PMF 8×35×8D×100L×6F	8	35	8	100	6F
PMF 10×45×10D×100L×6F	10	45	10	100	6F
PMF 12×50×12D×100L×6F	12	50	12	100	6F
PMF 16×65×16D×150L×6F	16	65	16	150	6F
PMF 20×75×20D×150L×6F	20	75	20	150	6F

End Mill for Soft Material Cutting



Product Description

1. Made by world latest 5-AXIS tools grinding machine, promise the quality and precision of cutter.
- 2 Each end mill is inspected by Zoller measuring and inspected machine.
3. We accept the specification as your requirement.
4. Work Piece: design for Aluminum and Copper specially

Solid Carbide Square End Mill for Aluminum

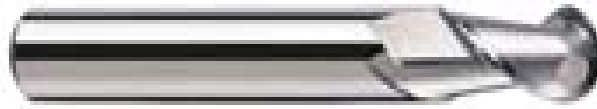
(Order No)	cutting	shank	Flute	A.O.L
	d	D	l	L
IMA 3×9×D6×L50×2F	3	6	9	50
IMA 4×12×D6×L50×2F	4	6	12	50
IMA 5×15×D6×L50×2F	5	6	15	50
IMA 6×18×D6×L60×2F	6	6	18	50
IMA 8×20×D8×L60×2F	8	8	20	60
IMA 10×30×D10×L75×2F	10	10	30	75
IMA 12×32×D12×L75×2F	12	12	32	75
IMA 16×45×D16×L100×2F	16	16	45	100
IMA 20×45×D20×L100×2F	20	20	45	100

IMA 3×12×D6×L60×2F	3	6	12	60
IMA 4×16×D6×L60×2F	4	6	16	60
IMA 5×20×D6×L60×2F	5	6	20	60
IMA 6×25×D6×L75×2F	6	6	25	75
IMA 8×32×D8×L75×2F	8	8	32	75
IMA 10×45×D10×L100×2F	10	10	45	100
IMA 12×45×D12×L100×2F	12	12	45	100
IMA 16×65×D16×L150×2F	16	16	65	150
IMA 20×75×D20×L150×2F	20	20	75	150

Solid Carbide Square End Mill for Copper

Order No	cutting	Flute	shank	A.O.L
	d	l	D	L
IMC 1×3×4D×50L×2F	1	3	4	50
IMC 1.5×4×4D×50L×2F	1.5	4	4	50
IMC 2×6×4D×50L×2F	2	6	4	50
IMC 3×9×6D×50L×2F	3	9	6	50
IMC 4×12×6D×50L×2F	4	12	6	50
IMC 5×15×6D×50L×2F	5	15	6	50
IMC 6×18×6D×50L×2F	6	18	6	50
IMC 8×20×8D×60L×2F	8	20	8	60
IMC 10×30×10D×75L×2F	10	30	10	75
IMC 12×32×12D×75L×2F	12	32	12	75
IMC 16×45×16D×100L×2F	16	45	16	100
IMC 20×45×20D×100L×2F	20	45	20	100

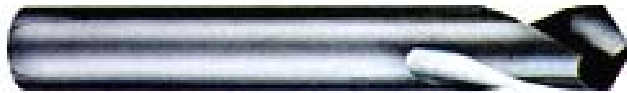
Solid Carbide Ball-Nose End Mill for Cutting Aluminum and Copper



(Order No)	cutting	Flute	Shank	A.O.L
	d	l	D	L
IMC R0.5×2×4D×50L×2F	1	2	4	50
IMC R0.75×3×4D×50L×2F	1.5	3	4	50
IMC R1×4×4D×50L×2F	2	4	4	50
IMC R1.25×4×4D×50L×2F	2.5	5	4	50
IMC R1.5×6×4D×50L×2F	3	6	4	50
IMC R1.75×7×4D×50L×2F	3.5	7	4	50
IMC R2×8×4D×50L×2F	4	8	4	50
IMC R2.25×9×6D×50L×2F	4.5	9	6	50
IMC R2.5×10×6D×50L×2F	5	10	6	50
IMC R2.75×11×6D×50L×2F	5.5	11	6	50
IMC R3×12×6D×50L×2F	6	12	6	50
IMC R4×16×8D×60L×2F	8	16	8	60
IMC R5×20×10D×75L×2F	10	20	10	75
IMC R6×24×10D×75L×2F	12	24	12	75

Solid Carbide Drill

Solid carbide Spot Drill 90° 120°



Product Description

We supply solid carbide drills including twist drills ,center drills, drills with/without coolant hole, and other DIN standard drills

Diameter: 1mm- 20mm

Coated: TiAlN , Tin(option)

With high quality, good price.

Attention: The price is different because of the different grade of the material your selections.

order no	d	l	D	L
HJ2*8*2D*50L*2F	2	8	2	50
HJ3*12*3D*50L*2F	3	12	3	50
HJ4*13*4d*50L*27	4	13	4	50
HJ5*16*5D*50L*2F	5	16	5	50
HJ6*22*6D*50L*2F	6	22	6	50
HJ8*24*8D*60L*2F	8	24	8	60
HJ10*24*10D*75L*2F	10	24	10	75
HJ12*28*12D*75L*2F	12	28	1	75
HJ14*30*14D*100L*2F	14	30	214	100
HJ16*32*16D*100L*2F	16	32	16	100
HJ20*38*20D*100L*2F	20	38	20	100

Solid caride drills for cutting super-hard materials



order no	d	l	D	L
HJ2*12*3D*44L*2F	2	12	3	44
HJ2.5*14*3D*46L*2F	2.5	14	3	46
HJ3*16*3D*48L*2F	3	16	3	48
HJ3.5*20*4D*52L*2F	3.5	20	4	52
HJ4*22*4D*54L*2F	4	22	4	54
HJ4.5*24*6D*68L*2F	4.5	24	6	68
HJ5*26*6D*70L*2F	5	26	6	70
HJ5.5*28*6D*72L*2F	5.5	28	6	72
HJ6*28*6D*72L*2F	6	28	6	72
HJ6.5*31*8D*78L*2F	6.5	31	8	75
HJ7*34*8D*78L*2F	7	34	8	78
HJ7.5*34*8D*78L*2F	7.5	34	8	78
HJ8*37*8D*81L*2F	8	37	8	81
HJ8.5*37*10D*87L*2F	8.5	37	10	87
HJ9*40*10D*90L*2F	9	40	10	90
HJ9.5*40*10D*90L*2F	9.5	40	10	90
HJ10*43*10D*93L*2F	10	43	10	93
HJ10.5*43*12D*100L*2F	10.5	43	12	100
HJ11*47*12D*104L*2F	11	47	12	104
HJ11.5*47*12D*104L*2F	11.5	47	12	104
HJ12*51*12D*108L*2F	12	51	12	108

Solid Carbide Twist Drill



(Order No)	Cutting	Flute	Shank	A.O.L
HJ3*16*4D*50L	3	16	4	50
HJ3.5*20*5D*50L	3.5	20	5	50
HJ4*22*6D*50L	4	22	6	50
HJ4.5*24*7D*70L	4.5	24	7	70
HJ5*26*8D*70L	5	26	8	70
HJ5.5*28*9D*70L	5.5	28	9	70
HJ6*28*10D*70L	6	28	10	70
HJ6.5*30*11D*75L	6.5	30	11	75
HJ7*30*12D*75L	7	30	12	75
HJ7.5*30*14D*75L	7.5	30	13	75
HJ8*30*14D*75L	8	30	14	75
HJ8.5*35*15D*90L	8.5	35	15	90
HJ9*40*16D*90L	9	40	16	90
HJ9.5*40*17D*90L	9.5	40	17	90
HJ10*40*18D*90L	10	40	18	90
HJ11*40*19D*100L	11	40	19	100
HJ13*45*20D*100L	13	45	20	100

Solid carbide drill with coolant hole



	Shank dia (mm)	Flute dia (mm)	Flute Length (mm)	O.A.L(mm)
3xD	6	M 3.4	20	62
3xD	6	M. 3.5	20	62
3xD	6	M. 3.8	24	66
3xD	6	M. 4	24	66
3xD	6	M. 4.2	24	66
3xD	6	M. 4.3	24	66
3xD	6	M. 4.5	24	66
3xD	6	M. 4.8	28	66
3xD	6	M. 5	28	66
3xD	6	M 5.1	28	66
3xD	6	M. 5.2	28	66
3xD	6	M. 5.5	28	66
3xD	6	M. 5.8	28	66
3xD	6	M. 6	28	66
3xD	8	M. 6.1	34	79
3xD	8	M 6.2	34	79
3xD	8	M. 6.5	34	79
3xD	8	M. 6.8	34	79
3xD	8	M. 6.9	34	79
3xD	8	M. 7	34	79
3xD	8	M. 7.	41	79
3xD	8	M 7.5	41	79
3xD	8	M 7.8	41	79
3xD	8	M. 8	41	79
3xD	10	M. 8.1	47	89
3xD	10	M. 8.2	47	89
3xD	10	M 8.5	47	89
3xD	10	M. 8.6	47	89

3xD	10	M 8.8	47	89
3xD	10	M. 9	47	89
3xD	10	M. 9.2	47	89
3xD	10	M. 9.5	47	89
3xD	10	M. 9.8	47	89
3xD	10	MM.10	47	89
3xD	12	MM.10.2	55	102
3xD	12	MM.10.3	55	102
3xD	12	MM.10.5	55	102
3xD	12	MM.10.6	55	102
3xD	12	MM.10.8	55	102
3xD	12	MM.11	55	102
3xD	12	MM.11.2	55	102
3xD	12	MM.11.5	55	102
3xD	12	MM.11.8	55	102
3xD	12	MM.12	55	102
3xD	14	MM.12.2	60	107
3xD	14	MM.12.5	60	107
3xD	14	MM.13	60	107
3xD	14	MM.13.5	60	107
3xD	14	MM.14	60	107
3xD	16	MM.14.2	65	115
3xD	16	MM.14.5	65	115
3xD	16	MM.15	65	115
3xD	16	MM.15.5	65	115
3xD	16	MM.16	65	115

	Shank dia (mm)	Flute dia (mm)	Flute Length (mm)	O.A.L(mm)
5xD	6	M. 3	28	66
5xD	6	M. 3.3	28	66
5xD	6	M. 3.4	28	66
5xD	6	M 3.5	28	66
5xD	6	M. 3.8	36	74
5xD	6	M. 4	36	74
5xD	6	M. 4.2	36	74
5xD	6	M. 4.3	36	74
5xD	6	M. 4.5	36	74
5xD	6	M. 4.8	44	82
5xD	6	MM. 5	44	82
5xD	6	M. 5.1	44	82
5xD	6	M 5.2	44	82

5xD	6	M. 5.5	44	82
5xD	6	M 5.8	44	82
5xD	6	MM. 6	44	82
5xD	8	M. 6.1	53	91
5xD	8	M 6.2	53	91
5xD	8	M. 6.5	53	91
5xD	8	M 6.8	53	91
5xD	8	M. 6.9	53	91
5xD	8	MM. 7	53	91
5xD	8	M. 7.2	53	91
5xD	8	M. 7.5	53	91
5xD	8	M. 7.8	53	91
5xD	8	MM. 8	53	91
5xD	10	M 8.1	61	103
5xD	10	M 8.2	61	103
5xD	10	M. 8.5	61	103
5xD	10	M 8.6	61	103
5xD	10	M. 8.8	61	103
5xD	10	MM. 9	61	103
5xD	10	M. 9.2	61	103
5xD	10	M. 9.5	61	103
5xD	10	M 9.8	61	103
5xD	10	MM.10	61	103
5xD	12	MM.10.2	71	118
5xD	12	MM.10.3	71	118
5xD	12	MM.10.5	71	118
5xD	12	MM.10.6	71	118
5xD	12	MM.10.8	71	118
5xD	12	MM.11	71	118
5xD	12	MM.11.2	71	118
5xD	12	MM.11.5	71	118
5xD	12	MM.11.8	71	118
5xD	12	MM.12	71	118
5xD	14	MM.12.2	77	124
5xD	14	MM.12.5	77	124
5xD	14	MM.13	77	124
5xD	14	MM.13.5	77	124
5xD	14	MM.14	77	124
5xD	16	MM.14.2	83	133
5xD	16	MM.14.5	83	133
5xD	16	MM.15	83	133
5xD	16	MM.15.5	83	133
5xD	16	MM.16	83	133

