End Mill

HSS Coarse Milling

HSS Wire Taper

Milling Insert

Turning Blade

U Drill Blade

Threaded Blade

Thread Milling

Precision Tongs

Chuck Soft Claw

CDZ GmbH

CDZ GmbH

Wer sind wir

Die Firma CDZ GmbH wurde im Oktober 2011 gegründet. Seitdem beliefern wir die Maschinen unserer Kunden aus aller Welt mit unseren Systemen und den dazugehörigen Komponenten, insbesondere Antriebstechnik, Kühlmittel-Gelenkschlauchsysteme, Hochdruck-Kühl-mitteldüsen, Energieketten und komplette Zentralschmiersysteme. Unser Firmensitz ist in Neuss (bei Düsseldorf).

Who are we

CDZ GmbH was established in October 2011. Since then we supply our customers' machines from all around the world with our systems and associated components, especially, power train engineering, adjustable coolant hoses, high-pressure coolant nozzles, cable chain systems and also complete centralized lubrication systems. We expert in working on the projects which located in Neuss (near Düsseldorf in Germany).

Was machen wir

Als Engineering-orientierter OEM&ODM Spezialist bieten wir auch verschiedenste Zeichnungsteile und Service auf dem europäischen Markt.

Die Serienfertigung wird durch unsere Hauptproduktion und Partnerfirmen in Fernost zuverlässig durchgeführt. Unsere Hauptproduktion ermöglicht es uns, Ihnen gewünschte Bauteile oder komplette Produkte zu wettbewerbsfähigen Preisen anbieten zu können. Unsere Hauptproduktion ist nach ISO 9001:2008 zertifiziert. Durch qualifizierte und erfahrene Ingenieure vor Ort überprüfen wir ständig die Qualität der Bauteile und die Lieferfristen. Durch unser Lager in Deutschland sichern wir die Lieferfähigkeit und Genauigkeit. Sowohl der deutsche und europäische industrielle Mittelstand als auch große Industrieunternehmen und internationale Konzerne vertrauen unserem Qualitätsstandard.

What can we do

We are also a high-tech enterprise that provides one stop service including product R&D, mass production, sale and after-sales service. Reliable quality, stable function, timely and effective service is our permanent object.

The serial production will be accomplished reliably by our main production and associated companies in the Far East. It is worth to be mentioned that our main production can provide the competitive price for your required components and complete product line. Our main production has been certified to ISO 9001:2008. As support by local qualifi and experienced engineers we could check the components and terms of delivery constantly. As support by our warehouse in Germany we could guarantee deliverability accuracy and reliability. The German and European industrial middle class companies, as well as large industrial companies and international corporations trust our quality standard.

Ihre Vorteile

Durch unser Lager in Deutschland sichern wir die Lieferfähigkeit und Genauigkeit. Der deutsche und europäische industrielle Mittelstand, sowie große Industrieunternehmen und internationale Konzerne vertrauen unserem Qualitätsstandard. Insb. durch Online-Shop wird der Bestellungsprozess vereinfacht, dabei sparen wir Ihnen größtmöglich die Zeit und Kosten.

Ein Probebauteil oder ein Muster liefern wir Ihnen gerne, um Sie von der Qualität und der Leistung zu überzeugen.

Wir hoffen Ihr Interesse geweckt zu haben und stehen für Fragen jederzeit zur Verfügung.

Your Benifit

As support by our warehouse in Germany we could guarantee deliverability accuracy and reliability. The German and European industrial middle class companies, as well as large industrial companies and international corporations trust our quality standard. Via online shop the ordering process is simplified specifically, we save you the time and cost as much as possible.

We are pleasure to provide the components or samples for testing and to be confident that your requirement will be met by the quality and performance of our products.

We hope that we have stimulated your interest and will remain available for any further questions.

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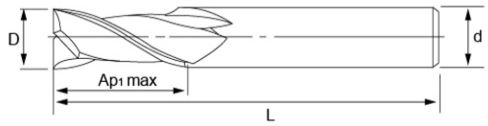
Carbide End Mill S55 Series

- Ultra fine grain alloy bars are used to process carbon steel, tool steel, die steel, alloy steel and cast iron.
- Suitable for processing materials within HRC55
- Suitable for high speed machining under dry or wet cutting conditions

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

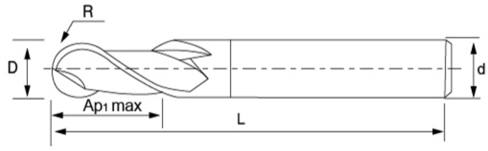
S55 2/3/4 flutes end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
55-04D0010	1.0	4	3	50
55-04D0015	1.5	4	4	50
55-04D0020	2.0	4	6	50
55-04D0025	2.5	4	8	50
55-03D0030	3.0	3	8	50
55-04D0030	3.0	4	8	50
55-04D0035	3.5	4	11	50
55-04D0040	4.0	4	11	50
55-06D0010	1.0	6	3	50
55-06D0015	1.5	6	4	50
55-06D0020	2.0	6	6	50
55-06D0025	2.5	6	8	50
55-06D0030	3.0	6	8	50
55-06D0035	3.5	6	11	50
55-06D0040	4.0	6	11	50
55-06D0045	4.5	6	13	50
55-05D0050	5.0	5	13	50
55-06D0050	5.0	6	13	50
55-06D0060	6.0	6	15	50
55-08D0070	7.0	8	20	60
55-08D0080	8.0	8	20	60
55-10D0090	9.0	10	25	75
55-10D0100	10.0	10	25	75
55-12D0120	12.0	12	30	75
55-14D0140	14.0	14	45	100
55-16D0160	16.0	16	45	100
55-18D0180	18.0	18	45	100
55-20D0200	20.0	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.
※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

S55 2 flutes ball nose end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
55R-04D0010	R0.5	4	2	50
55R-04D0015	R0.75	4	3	50
55R-04D0020	R1	4	4	50
55R-04D0025	R1.25	4	5	50
55R-03D0030	R1.5	3	6	50
55R-04D0030	R1.5	4	6	50
55R-04D0040	R2	4	8	50
55R-06D0010	R0.5	6	2	50
55R-06D0015	R0.75	6	3	50
55R-06D0020	R1	6	4	50
55R-06D0025	R1.25	6	5	50
55R-06D0030	R1.5	6	6	50
55R-06D0040	R2	6	8	50
55R-05D0050	R2.5	5	10	50
55R-06D0050	R2.5	6	10	50
55R-06D0060	R3	6	12	50
55R-08D0080	R4	8	16	60
55R-10D0100	R5	10	20	75
55R-12D0120	R6	12	25	75
55R-16D0160	R8	16	30	100
55R-20D0200	R10	20	30	100

※ It can be used for tool steel, alloy steel, pre-hardened die steel, and other high hardness processing.
※ Universal 2-blade ball end type end mills can be widely used for profiling and other applications.
※ The surface roughness of the workpiece after processing is good.
※ High-heat-resistant coating for high-speed machining.

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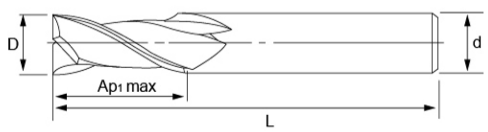
Carbide End Mill S65 Series

- ○ Ultra fine grain alloy bars are used to process carbon steel, tool steel, die steel, alloy steel and cast iron.
- ○ Suitable for processing materials within HRC65
- ○ Suitable for high speed machining under dry or wet cutting conditions

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

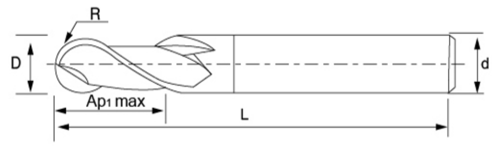
S65 2/3/4 flutes end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
65-04D0010	1.0	4	3	50
65-04D0015	1.5	4	4	50
65-04D0020	2.0	4	6	50
65-04D0025	2.5	4	8	50
65-03D0030	3.0	3	8	50
65-04D0030	3.0	4	8	50
65-04D0035	3.5	4	11	50
65-04D0040	4.0	4	11	50
65-06D0010	1.0	6	3	50
65-06D0015	1.5	6	4	50
65-06D0020	2.0	6	6	50
65-06D0025	2.5	6	8	50
65-06D0030	3.0	6	8	50
65-06D0035	3.5	6	11	50
65-06D0040	4.0	6	11	50
65-06D0045	4.5	6	13	50
65-05D0050	5.0	5	13	50
65-06D0050	5.0	6	13	50
65-06D0060	6.0	6	15	50
65-08D0070	7.0	8	20	60
65-08D0080	8.0	8	20	60
65-10D0090	9.0	10	25	75
65-10D0100	10.0	10	25	75
65-12D0120	12.0	12	30	75
65-14D0140	14.0	14	45	100
65-16D0160	16.0	16	45	100
65-18D0180	18.0	18	45	100
65-20D0200	20.0	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.
※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

S65 2 flutes ball nose end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
65R-04D0010	R0.5	4	2	50
65R-04D0015	R0.75	4	3	50
65R-04D0020	R1	4	4	50
65R-04D0025	R1.25	4	5	50
65R-03D0030	R1.5	3	6	50
65R-04D0030	R1.5	4	6	50
65R-04D0040	R2	4	8	50
65R-06D0010	R0.5	6	2	50
65R-06D0015	R0.75	6	3	50
65R-06D0020	R1	6	4	50
65R-06D0025	R1.25	6	5	50
65R-06D0030	R1.5	6	6	50
65R-06D0040	R2	6	8	50
65R-05D0050	R2.5	5	10	50
65R-06D0050	R2.5	6	10	50
65R-06D0060	R3	6	12	50
65R-08D0080	R4	8	16	60
65R-10D0100	R5	10	20	75
65R-12D0120	R6	12	25	75
65R-16D0160	R8	16	30	100
65R-20D0200	R10	20	30	100

※ It can be used for tool steel, alloy steel, pre-hardened die steel, and other high hardness processing.
※ Universal 2-blade ball end type end mills can be widely used for profiling and other applications.
※ The surface roughness of the workpiece after processing is good.
※ High-heat-resistant coating for high-speed machining.

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Solid Carbide Aluminum / High Gloss Aluminum Series

Carbide Aluminum

- ○ Large spiral angle, double edge belt design
- ○ Unique knife design with good chip removal performance
- ○ Suitable for aluminum alloy processing

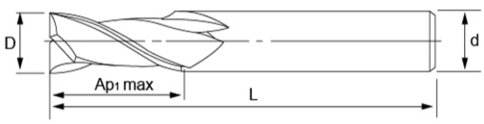
Carbide High Gloss Aluminum

- ○ Large spiral angle, double edge belt design
- ○ Unique knife design, good chip removal performance for large feed cutting
- ○ Used for processing aluminum alloy, copper, gum, steel and other materials

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

SN Aluminum end mills

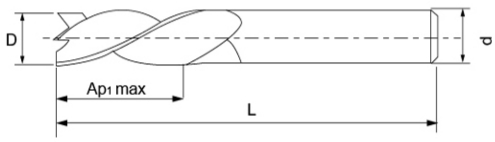


Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
N-04D0010	1.0	4	3	50
N-04D0015	1.5	4	4	50
N-04D0020	2.0	4	6	50
N-04D0025	2.5	4	8	50
N-04D0030	3.0	4	8	50
N-04D0040	4.0	4	11	50
N-06D0050	5.0	6	13	50
N-06D0060	6.0	6	15	50
N-08D0080	8.0	8	20	60
N-10D0100	10.0	10	25	75
N-12D0120	12.0	12	30	75
N-14D0140	14.0	14	45	100
N-16D0160	16.0	16	45	100
N-18D0180	18.0	18	45	100
N-20D0200	20.0	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

SN8 High-gloss aluminum end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (Ap1 max)	O.A.L (L)
N8-04D0010	1.0	4	3	50
N8-04D0015	1.5	4	4	50
N8-04D0020	2.0	4	6	50
N8-04D0025	2.5	4	8	50
N8-04D0030	3.0	4	8	50
N8-04D0040	4.0	4	11	50
N8-06D0050	5.0	6	13	50
N8-06D0060	6.0	6	15	50
N8-08D0080	8.0	8	20	60
N8-10D0100	10.0	10	25	75
N8-12D0120	12.0	12	30	75
N8-14D0140	14.0	14	45	100
N8-16D0160	16.0	16	45	100
N8-18D0180	18.0	18	45	100
N8-20D0200	20.0	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

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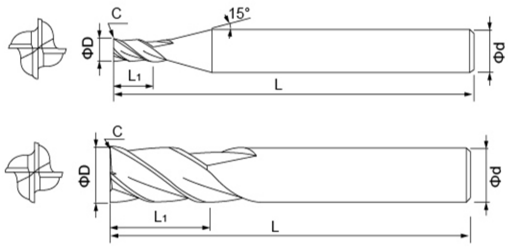
Carbide End Mills Stainless Steel Series

- ○ Hard-to-cut materials such as alloy steel, SUS stainless steel, titanium/nickel alloy, and inconel.
- ○ The unequal slot design increases the rigidity of the milling cutter.
- ○ The 4-blade deep groove thread design provides smoother chip removal and improves the surface finish of the machined surface.
- ○ Tool tip protection for processing conditions under complex conditions.

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

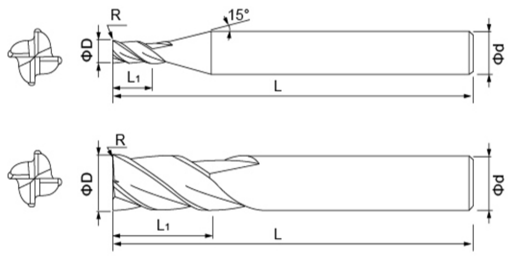
SM Stainless steel end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L1)	O.A.L (L)
M 010 030 04D	1	4	3	50
M 015 045 04D	1.5	4	4.5	50
M 020 060 04D	2	4	6	50
M 025 070 04D	2.5	4	7	50
M 030 080 04D	3	4	8	50
M 035 090 04D	3.5	4	9	50
M 040 010 04D	4	4	10	50
M 050 013 06D	5	6	13	50
M 060 015 06D	6	6	15	50
M 080 020 08D	8	8	20	60
M 010 023 10D	10	10	23	75
M 012 030 12D	12	12	30	75
M 014 040 14D	14	14	40	100
M 015 040 16D	15	16	40	100
M 016 040 16D	16	16	40	100
M 018 040 18D	18	18	40	100
M 020 040 20D	20	20	40	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.
※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

SM Stainless steel round nose end mills



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L1)	O.A.L (L)
MR 0101 030 04D	1*R0.1	4	3	50
MR 0102 030 04D	1*R0.2	4	3	50
MR 0151 045 04D	1.5*R0.1	4	4.5	50
MR 0152 045 04D	1.5*R0.2	4	4.5	50
MR 0201 060 04D	2*R0.1	4	6	50
MR 0202 060 04D	2*R0.2	4	6	50
MR 0251 070 04D	2.5*R0.1	4	7	50
MR 0252 070 04D	2.5*R0.2	4	7	50
MR 0301 080 04D	3*R0.1	4	8	50
MR 0302 080 04D	3*R0.2	4	8	50
MR 0305 080 04D	3*R0.5	4	8	50
MR 0402 010 04D	4*R0.2	4	10	50
MR 0405 010 04D	4*R0.5	4	10	50
MR 05050 013 06D	5*R0.5	6	13	50
MR 0605 015 06D	6*R0.5	6	15	50
MR 0805 020 08D	8*R0.5	8	20	60
MR 1005 025 10D	10*R0.5	10	23	75
MR 1205 030 12D	12*R0.5	12	30	75

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.
※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

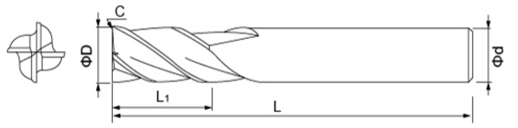
Solid Carbide Strong Cutting Series

- ○ Unique 45° helix angle, unique arc clearance angle design
- ○ Suitable for steel cast iron with hardness below HRC55°C, high toughness material for alloy steel
- ○ The closer the blade is to the mirror surface, the smooth edge, smooth chip removal, good tool life and high precision.
- ○ Adapt to cutting materials: carbon steel structure such as A3, S45C, S50C, 40Cr, 42CrMo, 20Cr, Cr12, H13, NAK80, 718, alloy structural steel, cast iron, die steel, etc.

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

SH Strong cutting steel end mill

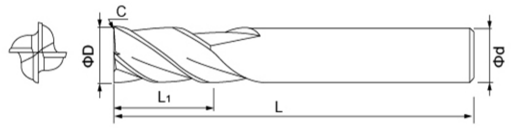


Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L_1)	O.A.L (L)
SH 040 010 04D	4	4	10	50
SH 050 013 06D	5	6	13	50
SH 060 015 06D	6	6	15	50
SH 080 020 08D	8	8	20	60
SH 010 023 10D	10	10	23	75
SH 012 030 12D	12	12	30	75
SH 014 040 14D	14	14	40	100
SH 015 040 16D	15	16	40	100
SH 016 040 16D	16	16	40	100
SH 018 040 18D	18	18	40	100
SH 020 040 20D	20	20	40	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

SHN Strong cutting aluminum end mill



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L_1)	O.A.L (L)
SHN 040 010 04D	4	4	10	50
SHN 050 013 06D	5	6	13	50
SHN 060 015 06D	6	6	15	50
SHN 080 020 08D	8	8	20	60
SHN 010 023 10D	10	10	23	75
SHN 012 030 12D	12	12	30	75
SHN 014 040 14D	14	14	40	100
SHN 015 040 16D	15	16	40	100
SHN 016 040 16D	16	16	40	100
SHN 018 040 18D	18	18	40	100
SHN 020 040 20D	20	20	40	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

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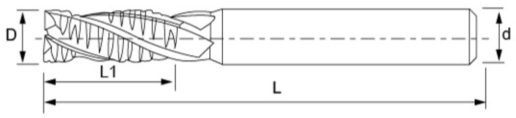
Solid carbide rough skin milling cutter series

- ○ Can be used for tool steel, alloy steel, pre-hardened mold steel, other high hardness processing
- ○ Good chip evacuation, ideal for high speed cutting and groove processing
- ○ With coarse toothed edge groove design, the surface roughness of the processed parts is good.
- ○ Long handle design, ideal for deep cavity machining.

Tolerance

D size range	D tolerance	d tolerance
Φ1.0~Φ2.9	0~-0.02	h6
Φ3.0~Φ6.0	-0.01~-0.03	h6
Φ6.5~Φ10.5	-0.01~-0.035	h6
Φ11.0~Φ16.0	-0.01~-0.04	h6
Φ17.0~Φ20.0	-0.015~-0.045	h6

SC Steel Rough skin milling cutter

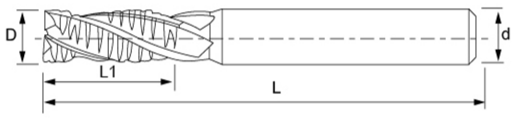


Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L1)	O.A.L (L)
SC-4E-D4.0	4	4	10	50
SC-4E-D5.0	5	5	13	50
SC-4E-D6.0	6	6	15	50
SC-4E-D8.0	8	8	20	60
SC-4E-D10.0	10	10	25	75
SC-4E-D12.0	12	12	30	75
SC-4E-D14.0	14	14	45	100
SC-4E-D16.0	16	16	45	100
SC-4E-D18.0	18	18	45	100
SC-4E-D20.0	20	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

SCN Aluminum Rough skin milling cutter



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length (L1)	O.A.L (L)
SCN-3E-D4.0	4	4	10	50
SCN-3E-D5.0	5	5	13	50
SCN-3E-D6.0	6	6	15	50
SCN-3E-D8.0	8	8	20	60
SCN-3E-D10.0	10	10	25	75
SCN-3E-D12.0	12	12	30	75
SCN-3E-D14.0	14	14	45	100
SCN-3E-D16.0	16	16	45	100
SCN-3E-D18.0	18	18	45	100
SCN-3E-D20.0	20	20	45	100

※ Please select the minimum size required for the tool overhang. When the overhang amount is long, it is easy to vibrate. Therefore, reduce the number of revolutions and feed.

※ Please adjust the number of revolutions and feedrate reasonably according to the usage of cutting depth and machine rigidity.

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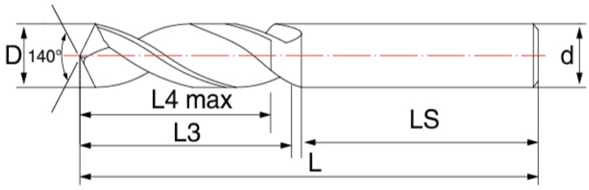
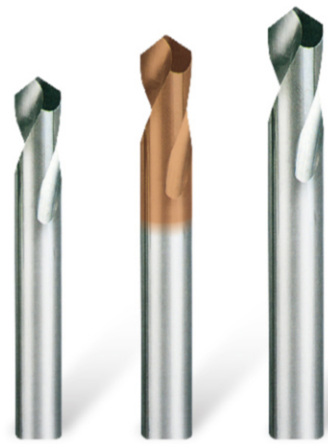
SZ Solid carbide drill series

- Special design for easy chip removal.
- Suitable for processing of common materials such as gray cast iron, ductile iron, stainless steel, structural steel and alloy steel.
- Strong centering, stable dimensional accuracy and good surface quality.

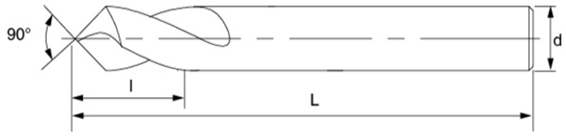


Item Code	Blade dia. (D)	Shank dia. (d)	O.A.L (L)	Blade length (L3)	Effective blade length (L4)	Handle length (LS)
SZ-W05-0300	3.00	6	66	28	23	36
SZ-W05-0330	3.30	6	66	28	23	36
SZ-W05-0350	3.50	6	66	28	23	36
SZ-W05-0400	4.00	6	74	36	29	36
SZ-W05-0450	4.50	6	74	36	29	36
SZ-W05-0500	5.00	6	82	44	35	36
SZ-W05-0550	5.50	6	82	44	35	36
SZ-W05-0600	6.00	6	82	44	35	36
SZ-W05-0650	6.50	8	91	53	43	36
SZ-W05-0700	7.00	8	91	53	43	36
SZ-W05-0750	7.50	8	91	53	43	36
SZ-W05-0800	8.00	8	91	53	43	36
SZ-W05-0850	8.50	10	103	61	49	40
SZ-W05-0900	9.00	10	103	61	49	40
SZ-W05-0950	9.50	10	103	61	49	40
SZ-W05-1000	10.00	10	103	61	49	40
SZ-W05-1050	10.50	12	118	71	56	45
SZ-W05-1100	11.00	12	118	71	56	45
SZ-W05-1150	11.50	12	118	71	56	45
SZ-W05-1200	12.00	12	118	71	56	45
SZ-W05-1250	12.50	14	124	77	60	45
SZ-W05-1300	13.00	14	124	77	60	45
SZ-W05-1350	13.50	14	124	77	60	45
SZ-W05-1400	14.00	14	124	77	60	45
SZ-W05-1450	14.50	16	133	83	63	48
SZ-W05-1500	15.00	16	133	83	63	48
SZ-W05-1550	15.50	16	133	83	63	48
SZ-W05-1600	16.00	16	133	83	63	48
SZ-W05-1650	16.50	18	143	93	71	48
SZ-W05-1700	17.00	18	143	93	71	48
SZ-W05-1750	17.50	18	143	93	71	48
SZ-W05-1800	18.00	18	143	93	71	48
SZ-W05-1850	18.50	20	153	101	77	50
SZ-W05-1900	19.00	20	153	101	77	50
SZ-W05-1950	19.50	20	153	101	77	50
SZ-W05-2000	20.00	20	153	101	77	50

SD Solid carbide centering drill series



- ○ High rigidity and high strength, higher wear resistance.
- ○ Round and smooth, the shank is chamfered, and the cutting process is shock-absorbing.
- ○ Centering drill for aluminum: suitable for copper, aluminum, aluminum alloy, magnesium alloy, zinc alloy.
- ○ Steel centering drill: suitable for stainless steel, alloy steel, tool steel, carbon steel, cast iron, etc.

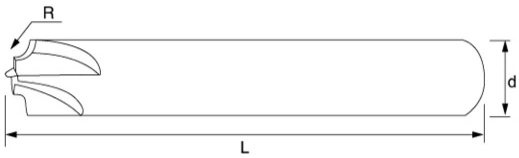


Item Code	Blade dia.(D)	Blade length(l)	O.A.L(L)	Shank dia.(d)
SD-2F-D4.0	4	8	50	4
SD-2F-D6.0	6	12	50	6
SD-2F-D8.0	8	16	60	8
SD-2F-D10.0	10	20	75	10
SD-2F-D12.0	12	24	75	12

Item Code	Blade dia.(D)	Blade length(l)	O.A.L(L)	Shank dia.(d)
SD-2F-D14.0	14	28	100	14
SD-2F-D16.0	16	32	100	16
SD-2F-D18.0	18	36	100	18
SD-2F-D20.0	20	40	100	20

SR Solid carbide internal R Tools series

- ○ Selection of ultrafine particle tungsten steel bars with high hardness and sharp wear resistance
- ○ Passivation treatment makes the surface smooth, high temperature resistance and increased service life
- ○ One molding, no polishing, clean surface, neat, high finish
- ○ Internal R knife for aluminum: suitable for copper, aluminum, aluminum alloy, magnesium alloy, zinc alloy
- ○ R-knife for steel: suitable for stainless steel, alloy steel, tool steel, carbon steel, cast iron, etc.



Item Code	R angle (R)	O.A.L(L)	Shank dia.(d)
SR-D4-50-R0.5	0.5	50	4
SR-D4-50-R0.75	0.75	50	4
SR-D4-50-R1.0	1	50	4
SR-D4-50-R1.5	1.5	50	4
SR-D6-60-R1.5	1.5	60	6
SR-D6-50-R2.0	2	50	6

Item Code	R angle (R)	O.A.L(L)	Shank dia.(d)
SR-D6-50-R3.0	3	50	6
SR-D8-60-R2.5	2.5	60	8
SR-D8-60-R3.0	3	60	8
SR-D10-60-R4.0	4	60	10
SR-D12-60-R5.0	5	60	12
SR-D14-80-R6.0	6	80	14

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SW Solid carbide micro-diameter series

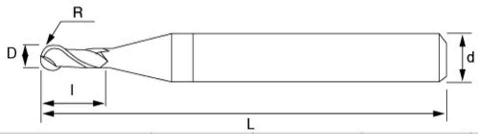
Micro-diameter 2 Flutes End Mill

- ○ Please select the minimum size required for the tool overhang. When the overhang is long, it is easy to vibrate, so reduce the number of revolutions and feed.
- ○ Please adjust the number of revolutions and feedrate according to the use of cutting depth and machine rigidity.
- ○ High-speed processing with a coating with excellent heat resistance
- ○ Widely used in the processing of high hardness materials from ordinary steel to hardness HRC50 or higher

Micro-diameter Ball End Mill

- ○ Can be used for tool steel, alloy steel, pre-hardened mold steel, other high hardness processing.
- ○ Universal 2-blade ball end mill for wide range of applications such as profiling.
- ○ The surface roughness of the processed workpiece is good.
- ○ High heat resistance coating for high speed machining.

Item Code	Blade dia.(D)	Blade length(l)	O.A.L(L)	Shank dia.(d)
SW-2E-D0.2	0.2	0.4	50	4
SW-2E-D0.3	0.3	0.6	50	4
SW-2E-D0.4	0.4	0.8	50	4
SW-2E-D0.5	0.5	1	50	4
SW-2E-D0.6	0.6	1.2	50	4
SW-2E-D0.7	0.7	1.4	50	4
SW-2E-D0.8	0.8	1.6	50	4
SW-2E-D0.9	0.9	1.8	50	4



Item Code	Blade dia.(D)	Blade length(l)	O.A.L(L)	Shank dia.(d)
SW-2B-D0.3	0.3	0.6	50	4
SW-2B-D0.4	0.4	0.8	50	4
SW-2B-D0.5	0.5	1	50	4
SW-2B-D0.6	0.6	1.2	50	4
SW-2B-D0.7	0.7	1.4	50	4
SW-2B-D0.8	0.8	1.6	50	4
SW-2B-D0.9	0.9	1.8	50	4

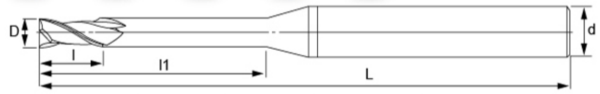
SG Solid Carbide Deep Groove Tools Series

Deep Groove Tools-2 Flutes End Mill

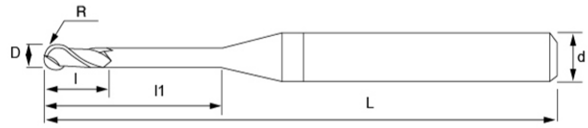
- ○ Most suitable for grooving of plastic molds.
- ○ The neck of the milling cutter adopts a long neck method, which is more suitable for deep groove processing.
- ○ The surface roughness of the processed workpiece is good.
- ○ High-speed processing with a coating with excellent heat resistance.

Deep Groove Tools-ball End Mill

- ○ Most suitable for grooving of plastic molds.
- ○ The long neck structure allows the tool to avoid interference during deep groove machining.
- ○ The surface roughness of the processed workpiece is good.
- ○ High-speed processing with a coating with excellent heat resistance.



Item Code	Blade dia.(D)	Blade length(l)	Effective length(l1)	O.A.L(L)	Shank dia.(d)
SG-2E-D0.2	0.2	0.4	2.0	50	4
SG-2E-D0.3	0.3	0.6	3.0	50	4
SG-2E-D0.4	0.4	0.8	6.0	50	4
SG-2E-D0.5	0.5	1.0	8.0	50	4
SG-2E-D0.6	0.6	1.2	8.0	50	4
SG-2E-D0.7	0.7	1.4	8.0	50	4
SG-2E-D0.8	0.8	1.6	10.0	50	4
SG-2E-D0.9	0.9	1.8	10.0	50	4



Item Code	R Dia.	Blade length(l)	Effective length(l1)	O.A.L(L)	Shank dia.(d)
SG-2B-D0.3	0.15	0.6	3.0	50	4
SG-2B-D0.4	0.2	0.8	6.0	50	4
SG-2B-D0.5	0.25	1.0	8.0	50	4
SG-2B-D0.6	0.3	1.2	8.0	50	4
SG-2B-D0.7	0.35	1.4	8.0	50	4
SG-2B-D0.8	0.4	1.6	10.0	50	4
SG-2B-D0.9	0.45	1.8	10.0	50	4

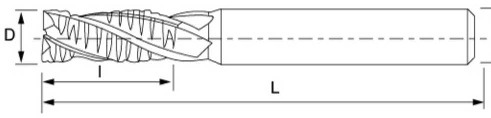
Customization of Various Non-standard Tools

FULL STOCK, SHORT DELIVERY TIME AND HIGH COST PERFORMANCE

M42 HSS Rough Skin End Mill

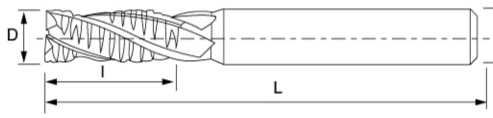
- Good chip evacuation, ideal for high speed cutting and groove processing.
- With coarse toothed edge groove design, the surface roughness of the machined workpiece is good.
- Long handle design, ideal for deep cavity machining.
- General: Can be used for tool steel, medium strength stainless steel, titanium alloy and other medium hardness machining.
- Aluminum: It can be used in the processing of aluminum alloy, copper alloy, magnesium alloy and cast iron.

M42 General Rough Skin End Mill



Item Code	Blade dia. (D)	Shank dia. (d)	Blade length(L1)		O.A.L(L)	
			Standard	Lengthen	Standard	Lengthen
M42-4E-D5	5	6	15	24	60	68
M42-4E-D6	6	6	15	24	60	68
M42-4E-D7	7	8	20	30	65	74
M42-4E-D8	8	8	20	38	65	82
M42-4E-D9	9	10	25	38	75	88
M42-4E-D10	10	10	25	45	75	95
M42-4E-D11	11	12	30	55	80	105
M42-4E-D12	12	12	35	53	85	110
M42-4E-D14	14	12	35	53	85	110
M42-4E-D16	16	16	40	63	95	123
M42-4E-D18	18	16	40	63	95	123
M42-4E-D20	20	20	45	75	110	141
M42-4E-D22	22	20	45	75	110	141
M42-4E-D25	25	25	60	90	125	166
M42-4E-D28	28	25	55	90	125	166
M42-4E-D32	32	32	60	106	145	186
M42-4E-D36	36	32	60	106	145	186
M42-4E-D40	40	40	63	125	155	217
M42-4E-D45	45	40	63	125	155	217
M42-4E-D50	50	50	75	150	177	252
M42-4E-D56	56	50	75	150	177	252
M42-4E-D63	63	63	90	180	202	292

M42N Aluminum Rough Skin End Mill



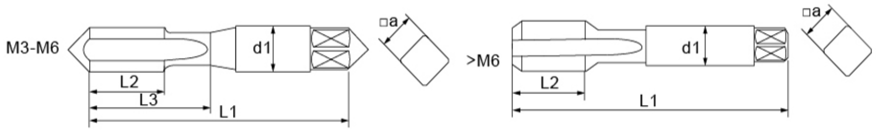
Item Code	Blade dia. (D)	Shank dia. (d)	Blade length(L1)		O.A.L(L)	
			Standard	Lengthen	Standard	Lengthen
M42N-3E-D3	3	6	8	12	52	56
M42N-3E-D4	4	6	11	19	55	63
M42N-3E-D5	5	6	13	24	57	68
M42N-3E-D6	6	6	13	24	57	68
M42N-3E-D8	8	8	19	38	63	82
M42N-3E-D10	10	10	22	45	72	95
M42N-3E-D12	12	12	26	53	83	110
M42N-3E-D14	14	12	26	53	83	110
M42N-3E-D16	16	16	32	63	92	123
M42N-3E-D18	18	16	32	63	92	123
M42N-3E-D20	20	20	38	75	104	141
M42N-3E-D22	22	20	38	75	104	141
M42N-3E-D25	25	25	45	90	121	166

※ Precautions:

1. Lengthen the corn end mill and add L after the number;
2. The cutting amount of long roughing end mill should be reduced by 50%;
3. The amount of corn milling cutter should be reduced by 20%;
4. The standard cutting depth is 1.5d and the cutting width is 0.25d.
5. The long cutting depth is 2d, the cutting width is 0.1d;
6. The emulsified aqueous solution with a cooling liquid level of 1:20, the flow rate is not less than 5L/min.

HSS High Speed Steel Straight Channel Taper

- Optimizing groove design, cutting lightly and chip removal smoothly.
- The cutting edge is specially strengthened, so it is not easy to collapse. High performance PVD coating can be selected.
- High performance high speed steel material, vacuum heat treatment, cryogenic treatment, stable material performance.
- It is suitable for tapping blind holes or through holes in common short iron chips such as steel, cast iron and cast aluminium. It can also be used for hand tapping.

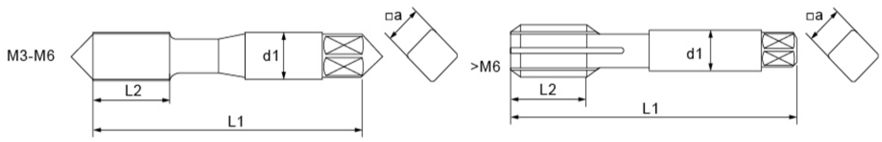


Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M3	0.5	48	7.5	18	3.15	2.5	2.5
M3×0.35	0.35	48	7.5	18	3.15	2.5	2.7
M4	0.7	53	10	25	4	3.15	3.3
M4×0.5	0.5	53	10	25	4	3.15	3.5
M5	0.8	58	11.5	28	5	4	4.2
M5×0.5	0.5	58	11.5	28	5	4	4.5
M6	1	66	14.5	30	6.3	5	5.0
M6×0.5	0.5	66	14.5	30	6.3	5	5.5
M6×0.75	0.75	66	14.5	30	6.3	5	5.3
M8	1.25	72	18	-	6.3	5	6.8

Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M8×0.75	0.75	72	18	-	6.3	5	7.3
M8×1.0	1	72	18	-	6.3	5	7.0
M10	1.5	80	22	-	8	6.3	8.5
M10×0.75	0.75	80	22	-	8	6.3	9.3
M10×1.0	1	80	22	-	8	6.3	9.0
M10×1.25	1.25	80	22	-	8	6.3	8.8
M12	1.75	89	25	-	9	7.1	10.3
M12×1.0	1	89	25	-	9	7.1	11.0
M12×1.25	1.25	89	25	-	9	7.1	10.8
M12×1.5	1.5	89	25	-	9	7.1	10.5

HSS-E High speed steel extrusion tap

- Special tooth shape and radial cutting design, no sharp angle, low extrusion resistance and good material flow.
- Special full polishing and coating technology, low friction coefficient and high temperature resistance.
- High performance high speed steel material, vacuum heat treatment, cryogenic treatment, stable material properties.
- Suitable for extrusion tapping of carbon steel, alloy steel, aluminum alloy and other plastic

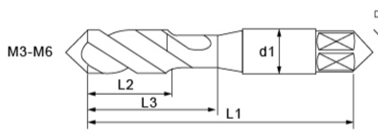


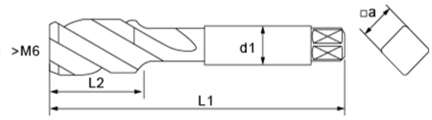
Specifications	Pitch	O.A.L L1	Thread length L2	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M3	0.5	48	14.5	3.15	2.5	2.77
M3×0.35	0.35	48	14.5	3.15	2.5	2.84
M4	0.7	53	17	4	3.15	3.68
M4×0.5	0.5	53	17	4	3.15	3.77
M5	0.8	58	20.5	5	4	4.63
M5×0.5	0.5	58	20.5	5	4	4.77
M6	1	66	24.5	6.3	5	5.54
M6×0.5	0.5	66	24.5	6.3	5	5.77
M6×0.75	0.75	66	24.5	6.3	5	5.66
M8	1.25	72	18	6.3	5	7.43

Specifications	Pitch	O.A.L L1	Thread length L2	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M8×0.75	0.75	72	18	6.3	5	7.66
M8×1.0	1	72	18	6.3	5	7.54
M10	1.5	80	22	8	6.3	9.31
M10×0.75	0.75	80	22	8	6.3	9.66
M10×1.0	1	80	22	8	6.3	9.54
M10×1.25	1.25	80	22	8	6.3	9.43
M12	1.75	89	25	9	7.1	11.20
M12×1.0	1	89	25	9	7.1	11.54
M12×1.25	1.25	89	25	9	7.1	11.43
M12×1.5	1.5	89	25	9	7.1	11.31

HSS-E High speed steel spiral groove tap

- ○ Optimized groove and thread design, cutting light, smooth chip removal, easy to swarf, not easy to cut.
- ○ The cutting edge is specially reinforced, the back corner is specially designed, it is not easy to chip, and the high performance PVD coating is optional.
- ○ High performance high speed steel material, vacuum heat treatment, cryogenic treatment, stable material properties.
- ○ Blind hole tapping for long chip materials such as carbon steel, alloy steel, and aluminum alloy.



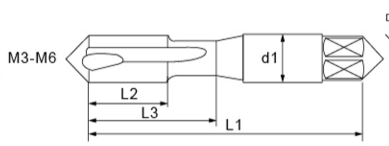


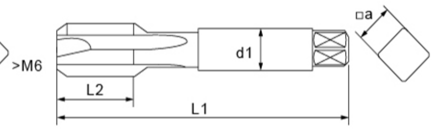
Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M3	0.5	48	7.5	18	3.15	2.5	2.5
M3×0.35	0.35	48	7.5	18	3.15	2.5	2.7
M4	0.7	53	10	25	4	3.15	3.3
M4×0.5	0.5	53	10	25	4	3.15	3.5
M5	0.8	58	11.5	28	5	4	4.2
M5×0.5	0.5	58	11.5	28	5	4	4.5
M6	1	66	14.5	30	6.3	5	5.0
M6×0.5	0.5	66	14.5	30	6.3	5	5.5
M6×0.75	0.75	66	14.5	30	6.3	5	5.3
M8	1.25	72	18	-	6.3	5	6.8

Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M8×0.75	0.75	72	18	-	6.3	5	7.3
M8×1.0	1	72	18	-	6.3	5	7.0
M10	1.5	80	22	-	8	6.3	8.5
M10×0.75	0.75	80	22	-	8	6.3	9.3
M10×1.0	1	80	22	-	8	6.3	9.0
M10×1.25	1.25	80	22	-	8	6.3	8.8
M12	1.75	89	25	-	9	7.1	10.3
M12×1.0	1	89	25	-	9	7.1	11.0
M12×1.25	1.25	89	25	-	9	7.1	10.8
M12×1.5	1.5	89	25	-	9	7.1	10.5

HSS-E High speed steel screw tap

- ○ Sharp cutting edge, smooth chip removal, easy to block.
- ○ The edge is specially reinforced and optional high performance PVD coating.
- ○ High performance high speed steel material, vacuum heat treatment, cryogenic treatment, stable material properties.
- ○ Through-hole tapping for long chip materials such as carbon steel, alloy steel, and aluminum alloy.





Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M3	0.5	48	7.5	18	3.15	2.5	2.5
M3×0.35	0.35	48	7.5	18	3.15	2.5	2.7
M4	0.7	53	10	25	4	3.15	3.3
M4×0.5	0.5	53	10	25	4	3.15	3.5
M5	0.8	58	11.5	28	5	4	4.2
M5×0.5	0.5	58	11.5	28	5	4	4.5
M6	1	66	14.5	30	6.3	5	5.0
M6×0.5	0.5	66	14.5	30	6.3	5	5.5
M6×0.75	0.75	66	14.5	30	6.3	5	5.3
M8	1.25	72	18	-	6.3	5	6.8

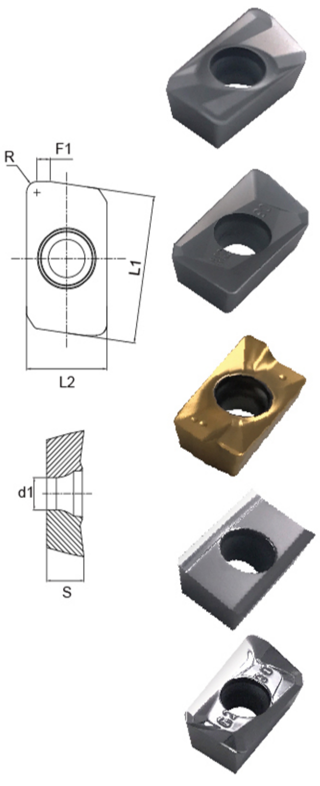
Specifications	Pitch	O.A.L L1	Thread length L2	Effective length L3	Shank dia. d1	Square width □a	Recommended bottom hole diameter
M8×0.75	0.75	72	18	-	6.3	5	7.3
M8×1.0	1	72	18	-	6.3	5	7.0
M10	1.5	80	22	-	8	6.3	8.5
M10×0.75	0.75	80	22	-	8	6.3	9.3
M10×1.0	1	80	22	-	8	6.3	9.0
M10×1.25	1.25	80	22	-	8	6.3	8.8
M12	1.75	89	25	-	9	7.1	10.3
M12×1.0	1	89	25	-	9	7.1	11.0
M12×1.25	1.25	89	25	-	9	7.1	10.8
M12×1.5	1.5	89	25	-	9	7.1	10.5

Milling insert

P M K CT60 | P M K CT70 | N Non-ferrous metal | CC Cermet

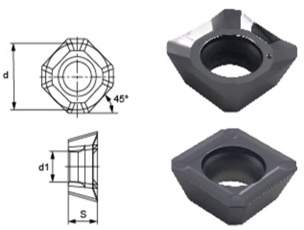
• Standard inventory

AP shoulder Milling blade



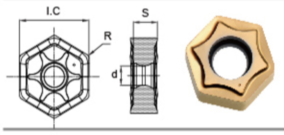
Shape	Model	Size						Material			
		L1	L2	S	F1	D1	R	CT6010	CT7010	CN3510	CC9015
	APMT1135PDER H2	10.83	6.16	3.5	1.87	2.80	0.8	•	•		•
	APMT1604PDER H2	16.26	9.26	4.76	2	4.60	0.8	•	•		•
	APMT1135PDER M2	10.83	6.16	3.5	1.87	2.80	0.8	•	•		•
	APMT1604PDER M2	16.26	9.26	4.76	2	4.60	0.8	•	•		•
	APMT1135PDER	10.83	6.16	3.5	1.87	2.80	0.8	•	•		•
	APMT1604PDER	16.26	9.26	4.76	2	4.60	0.8	•	•		•
	APKT1135PDFR	10.8	6.16	3.5	1.87	2.80	0.4			•	
	APKT1604PDFR	16.88	9.8	4.76	2	4.40	0.4			•	
	APKT160408FR	16.88	9.8	4.76	2	4.40	0.8			•	
	APGT1135PDFR	10.83	6.16	3.5	1.87	2.80	0.8			•	
	APGT1604PDFR	16.26	9.26	4.76	2	4.60	0.8			•	

SE Face milling insert



Shape	Model	Size				Material			
		I.C.	D	S	R	CT6010	CT7010	CN3510	CC9015
	SEHT1204	12.0	12.7	4.75	0.8	•	•		
	SEKT1204	12.0	12.7	6.36	0.8	•	•		

HN Face milling insert



Shape	Model	Size				Material			
		I.C.	D	S	R	CT6010	CT7010	CN3510	CC9015
	HNMX060408	10.20	4.00	4.75	0.8	•	•		
	HNMX090608	16.20	5.00	6.36	0.8	•	•		

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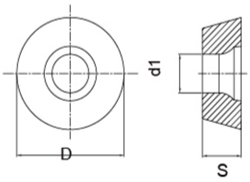
Milling insert

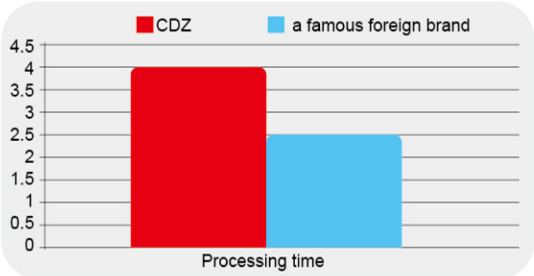
P M K CT60　P M K CT70　N Non-ferrous metal　CC Cermet

● Standard inventory

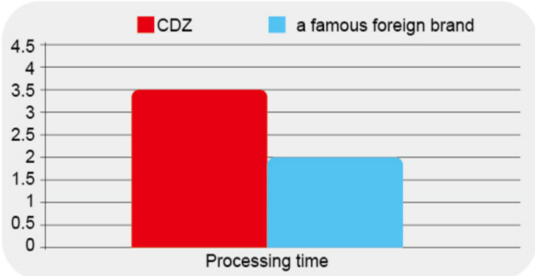
RP/RC Face milling insert

Shape	Model	Size			Material			
		D	S	D1	CT6010	CT7010	CN3510	CC9015
	RPMW08T2MO	8.0	2.78	3.5	●	●		
	RPMW1003MO	10.0	3.18	4.4	●	●		
	RPMW1204MO	12.0	4.76	4.4	●	●		
	RPMT08T2MO	8.0	2.78	3.5	●	●		
	RPMT10T3MO	10.0	3.97	4.4	●	●		
	RPMT1204MO	12.0	4.76	5.5	●	●		
	RPGT0803MO	8.0	3.18	3.4			●	
	RPGT1003MO	10.0	3.18	4.4			●	
	RPGT10T3MO	10.0	3.97	4.4			●	
	RPGT1204MO	12.0	4.76	4.4			●	
	RCGT0803MO	8.0	2.38	3.4			●	
	RCGT1003MO	10.0	3.18	4.4			●	
	RCGT10T3MO	10.0	3.97	4.4			●	
	RCGT1204MO	12.0	4.76	5.5			●	

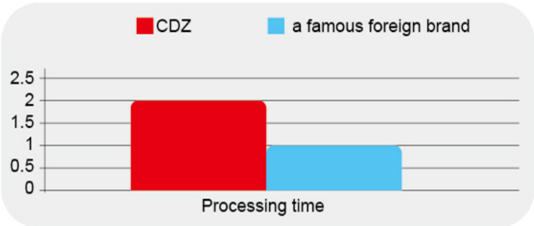
Milling case



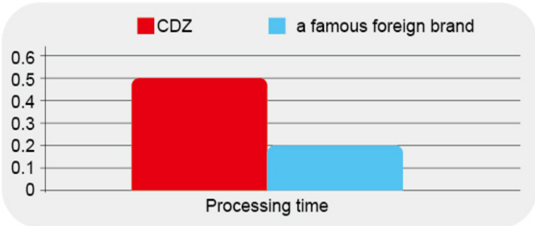
Processing material: P20　Processing method: dry rough milling
Use blade: APMT1135PDER-H2　CT6010
Processing parameters: Vc=150m/min, fz=0.6mm/z, ap=0.3mm
Cutting performance: CDZ blade life 240min / blade,
a well-known foreign brand 150min / blade



Processing material: 45 steel　Processing method: dry rough milling
Use the blade: RDMT1204MO　CT7010
Processing parameters: Vc=180m/min, fz=1mm/z, ap=1mm
Cutting performance: CDZ blade life 210min / blade,
a well-known foreign brand 120min / blade



Processing material: P20　Processing method: dry rough milling
Use blade: APMT1135PDER-H2 CT6010
Processing parameters: Vc=150m/min, fz=0.6mm/z, ap=0.3mm
Cutting performance: CDZ blade life 240min / blade,
a well-known foreign brand 150min / blade



Processing material: 45 steel　Processing method: dry rough milling
Use the blade: RDMT1204MO CT7010
Processing parameters: Vc=180m/min, fz=1mm/z, ap=1mm
Cutting performance: CDZ blade life 210min / blade,
a well-known foreign brand 120min / blade

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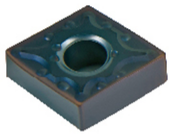
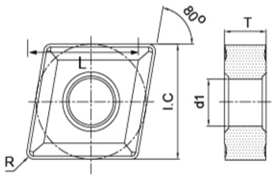
Indexable insert for turning

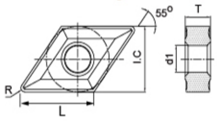
P steel M Stainless Steel K cast iron N Non-ferrous metal
CC Cermet
• Standard inventory

CN Blade diamond 80° / negative angle / perforated

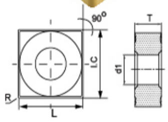
Shape	Model	Size					Material				
		L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	CNMG120402	12.9	12.70	4.76	5.16	0.2				•	•
	CNMG120404	12.9	12.70	4.76	5.16	0.4	•	•	•	•	•
	CNMG120408	12.9	12.70	4.76	5.16	0.8	•	•	•		
	CNMG120412	12.9	12.70	4.76	5.16	1.2					
	CNMG160608	16.1	15.88	6.35	6.35	0.8					
	CNMG160612	16.1	15.88	6.35	6.35	1.2					
	CNMG160616	16.1	15.88	6.35	6.35	1.6					

DN Blade diamond 55° / negative angle / perforated

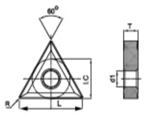
Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	DNMG150404	15.5	12.70	4.76	5.16	0.4	•	•		•	•
	DNMG150408	15.5	12.70	4.76	5.16	0.8	•	•	•		
	DNMG150412	15.5	12.70	4.76	5.16	0.8					

SN Blade square 90° / negative angle / perforated

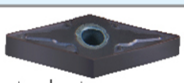
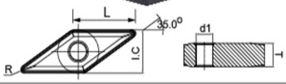
Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	SNMG120404	12.7	12.70	4.76	5.16	0.4	•	•	•	•	•
	SNMG120408	12.7	12.70	4.76	5.16	0.8	•	•	•		
	SNMG120412	12.7	12.70	4.76	5.16	1.2					

TN Blade triangle 60° / negative angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	TNMG160402	16.5	9.525	4.76	3.81	0.2	•			•	•
	TNMG160404	16.5	9.525	4.76	3.81	0.4	•	•	•	•	•
	TNMG160408	16.5	9.525	4.76	3.81	0.8	•	•			•

VN Blade diamond 35° / negative angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	VNMG160404	16.6	9.525	4.76	3.81	0.4	•	•		•	•
	VNMG160408	16.6	9.525	4.76	3.81	0.8	•	•			•

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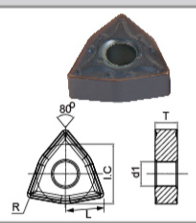
Indexable insert for turning

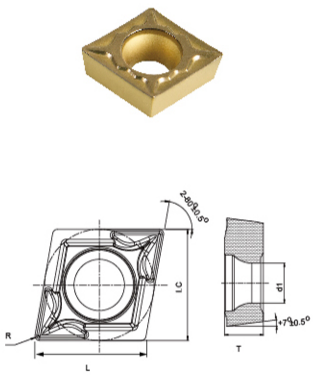
P steel · M Stainless Steel · K cast iron · N Non-ferrous metal · CC Cermet

• Standard inventory

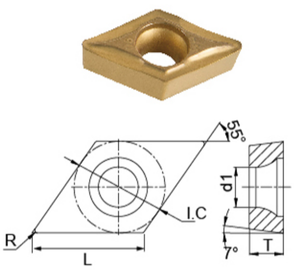
WN Blade hexagonal 80° / negative angle / perforated

Shape	Model	Size					Material				
		L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	WNMG080404	8.7	12.70	4.76	5.16	0.4	•	•	•	•	•
	WNMG080408	8.7	12.70	4.76	5.16	0.8	•	•	•	•	•
	WNMG080412	8.7	12.70	4.76	5.16	1.2	•		•		

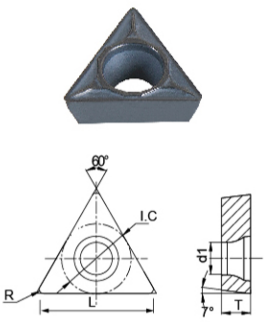
CC Blade diamond 80° / positive angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	CCMT060202	6.4	6.35	2.38	2.8	0.2	•	•		•	•
	CCMT060204	6.4	6.35	2.38	2.8	0.4	•	•		•	•
	CCMT060208	6.4	6.35	2.38	2.8	0.8	•	•			
	CCMT09T302	9.7	9.525	3.97	4.4	0.2	•	•			
	CCMT09T304	9.7	9.525	3.97	4.4	0.4	•	•	•	•	•
	CCMT09T308	9.7	9.525	3.97	4.4	0.8	•	•			
	CCMT120404	12.9	12.7	4.76	5.5	0.4	•	•			
	CCMT120408	12.9	12.7	4.76	5.5	0.8	•	•			

DC Blade diamond 55° / positive angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	DCMT070202	7.7	6.35	2.38	2.8	0.2	•				
	DCMT070204	7.7	6.35	2.38	2.8	0.4	•	•			•
	DCMT11T302	11.6	9.525	3.97	4.4	0.2	•	•			
	DCMT11T304	11.6	9.525	3.97	4.4	0.4	•	•			•
	DCMT11T308	11.6	9.525	3.97	4.4	0.8	•	•			

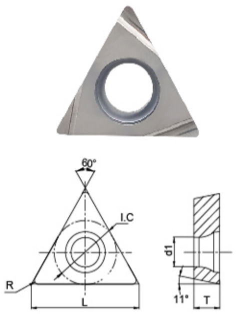
TC Blade triangle 60° / positive angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	TCMT090204	9.6	5.56	2.38	2.5	0.4	•	•			
	TCMT110202	11	6.35	2.38	2.8	0.2	•	•			
	TCMT110204	11	6.35	2.38	2.8	0.4	•	•			
	TCMT110208	11	6.35	2.38	2.8	0.8					
	TCMT16T304	16.5	9.525	3.97	4.4	0.4	•	•			
	TCMT16T308	16.5	9.525	3.97	4.4	0.8	•	•			

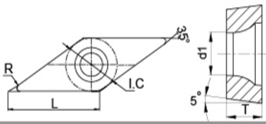
Indexable insert for turning

P steel M Stainless Steel K cast iron N Non-ferrous metal
CC Cermet
• Standard inventory

TP Blade triangle 60° / positive angle / perforated

Shape	Model	Size					Material				
		L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	TPMT090204	9.6	5.56	2.38	2.5	0.4	•	•			
	TPMT110304	11	6.35	3.18	2.8	0.4	•	•			
	TPGH080204	8	4.76	2.38	2.3	0.4	•	•			•
	TPGH080202	8	4.76	2.38	2.3	0.2	•	•			•
	TPGH090204	9.6	5.56	2.38	2.5	0.4	•	•			•
	TPGH090202	9.6	5.56	2.38	2.5	0.2	•	•			•
	TPGH110304	11	6.35	3.18	2.8	0.4	•	•			•
	TPGH110302	11	6.35	3.18	2.8	0.2	•	•			•

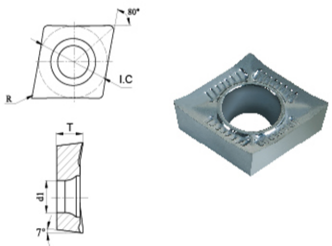
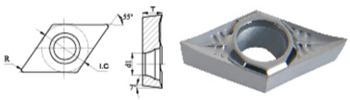
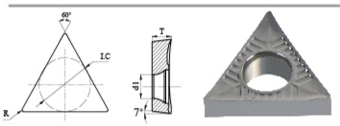
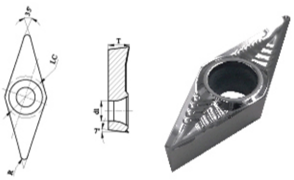
VB Blade diamond 35° / positive angle / perforated

Shape	Model	L	IC	T	D1	R	CP2505	CM1505	CK0505	CN3510	CC9015
	VBMT110304	11	6.35	3.18	2.8	0.4	•	•			
	VBMT160404	16.5	9.525	4.76	4.4	0.4	•	•			

Indexable insert for turning

N Non-ferrous metal

TP Blade triangle 60° / positive angle / perforated

Shape	Model	Size					Material
		IC	T	D1	R	α	CN3510
	CCGT060202	6.35	2.38	2.8	0.2	7°	•
	CCGT060204	6.35	2.38	2.8	0.4	7°	•
	CCGT060208	6.35	2.38	2.8	0.8	7°	•
	CCGT09T302	9.525	3.97	4.4	0.2	7°	•
	CCGT09T304	9.525	3.97	4.4	0.4	7°	•
	CCGT09T308	9.525	3.97	4.4	0.8	7°	•
	CCGT120402	12.7	4.76	5.5	0.2	7°	•
	CCGT120404	12.7	4.76	5.5	0.4	7°	•
	CCGT120408	12.7	4.76	5.5	0.8	7°	•
	DCGT070202	6.35	2.38	2.8	0.2	7°	•
	DCGT070204	6.35	2.38	2.8	0.4	7°	•
	DCGT11T302	9.525	3.97	4.4	0.2	7°	•
	DCGT11T304	9.525	3.97	4.4	0.4	7°	•
	DCGT11T308	9.525	3.97	4.4	0.8	7°	•
	TCGT110202	6.35	2.38	2.8	0.2	7°	•
	TCGT110204	6.35	2.38	2.8	0.4	7°	•
	TCGT16T304	9.525	3.97	4.4	0.4	7°	•
	TCGT16T308	9.525	3.97	4.4	0.8	7°	•
	VCGT110302	6.35	3.18	4.4	0.2	7°	•
	VCGT110304	6.35	3.18	4.4	0.4	7°	•
	VCGT160402	9.525	4.76	4.4	0.2	7°	•
	VCGT160404	9.525	4.76	4.4	0.4	7°	•
	VCGT160408	9.525	4.76	4.4	0.8	7°	•
	VBGT160404	9.525	4.76	4.4	0.4	7°	•

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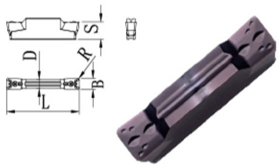
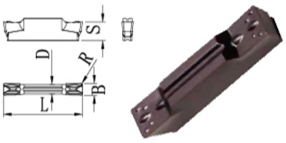
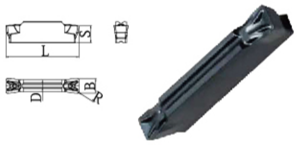
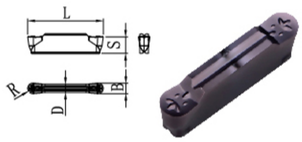
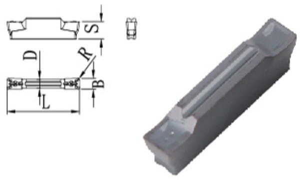
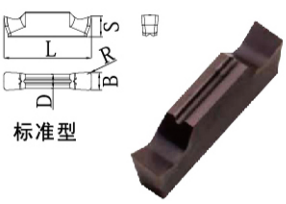
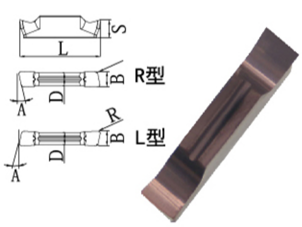
Cutting grooving blade

P M K CT60 P M K CT70 N Non-ferrous metal CC Cermet

● Standard inventory

MG Slotted blade

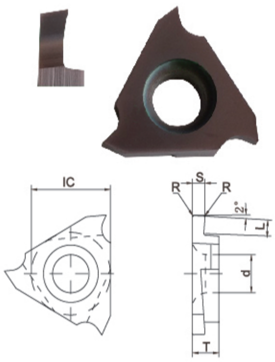
Shape	Model	Size					Material			
		B	R	L	D	S	CT6010	CT7010	CN3510	CC9015
	MGMN 200-M	2	0.2	16	1.2	3.5	●	●	●	●
	MGMN 250-M	2.5	0.2	18.5	2	3.85	●	●	●	●
	MGMN 300-M	3	0.4	21	2.35	4.8	●	●	●	●
	MGMN 400-M	4	0.4	21	3.3	4.8	●	●	●	●
	MGMN 500-M	5	0.8	26	4.1	5.8	●	●	●	●
	MGMN 150-G	1.5	0.15	16	1.2	3.5		●		
	MGMN 200-G	2	0.2	16	1.6	3.5		●		
	MGMN 300-G	3	0.4	21	2.35	4.8		●		
	MGMN 400-G	4	0.4	21	3.3	4.8		●		
	MGMN 200-T	2	0.2	16	1.5	3.5		●		
	MGMN 300-T	3	0.4	21	2.35	4.8		●		
	MGMN 400-T	4	0.4	21	3.3	4.8		●		
	MGMN 500-T	5	0.8	25.86	4.12	5.8		●		
	MRMN 200-M	2	1	16	1.5	3.5		●	●	
	MRMN 300-M	3	1.5	21	2.35	4.8		●	●	
	MRMN 400-M	4	2	21	3.3	4.8		●	●	
	MRMN 500-M	5	2.5	25.86	4.12	5.8		●	●	
	MGMN 200-C	2	0.2	16	1.2	3.5		●		
	MGMN 250-C	2.5	0.2	18.5	2	3.85		●		
	MGMN 300-C	3	0.4	21	2.35	4.8		●		
	MGMN 400-C	4	0.4	21	3.3	4.8		●		
	MGMN 500-C	5	0.8	26	4.1	5.8		●		
	MGGN 150-LH	1.5	0.15	16	1.2	3.5	●	●		
	MGGN 200-LH	2	0.2	16	1.5	3.5	●	●		
	MGGN 250-LH	2.5	0.2	18.5	2	3.85	●	●		
	MGGN 300-LH	3	0.4	21	2.35	4.8	●	●		
	MGGN 400-LH	4	0.4	21	3.3	4.8	●	●		
	MGGN 500-LH	5	0.8	25.86	4.12	5.8	●	●		
	MGGNR/L06 150-LH	1.5	0.15	16	1.2	3.5				
	MGGNR/L06 200-LH	2	0.2	16	1.5	3.5				
	MGGNR/L06 250-LH	2.5	0.2	18.5	2	3.85				
	MGGNR/L06 300-LH	3	0.4	21	2.35	4.8				
	MGGNR/L06 400-LH	4	0.4	21	3.3	4.8				
	MGGNR/L06 500-LH	5	0.8	25.86	4.12	5.8				

Cutting grooving blade

P M K BT60 P M K BT70 N Non–ferrous metal

• Standard inventory

GBA Slotted blade

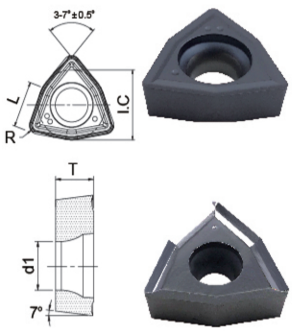


Shape	Model	Size						Material		
		IC	T	d	S	L	R	CT6010	CT7010	CN3510
	GBA32R/L050	9.525	3.18	4.5	0.50	1.0	0.05	•	•	
	GBA32R/L100	9.525	3.18	4.5	1.00	2.2	0.1	•	•	
	GBA32R/L150	9.525	3.18	4.5	1.50	2.4	0.1	•	•	
	GBA32R/L200	9.525	3.18	4.5	2.00	2.7	0.15	•	•	
	GBA32R/L250	9.525	3.18	4.5	2.50	3.0	0.15	•	•	
	GBA32R/L300	9.525	3.18	4.5	3.00	3.0	0.2	•	•	
	GBA43R/L100	12.7	4.76	5.4	1.00	2.5	0.1	•	•	
	GBA43R/L150	12.7	4.76	5.4	1.50	3.0	0.1	•	•	
	GBA43R/L200	12.7	4.76	5.4	2.00	3.5	0.2	•	•	
	GBA43R/L250	12.7	4.76	5.4	2.50	4.2	0.2	•	•	
	GBA43R/L300	12.7	4.76	5.4	3.00	4.6	0.3	•	•	
	GBA43R/L350	12.7	4.76	5.4	3.50	4.8	0.3	•	•	
	GBA43R/L400	12.7	4.76	5.4	4.00	4.8	0.3	•	•	

U Drill Blade

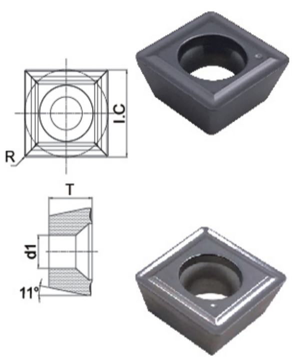
P M K BT60 P M K BT70 N Non–ferrous metal

WC U Drill Blade



Shape	Model	Size					Material		
		L	IC	T	d1	R	CT6010	CT7010	CN3510
	WCMT 030208	3.8	5.56	2.38	2.8	0.8	•		
	WCMT 040208	4.3	6.35	2.38	3.0	0.8	•		
	WCMT 050308	5.4	7.94	3.18	3.4	0.8	•		
	WCMT 06T308	6.5	9.525	3.97	3.9	0.8	•		
	WCMT 080408	8.7	12.7	4.76	5.5	0.8	•		
	WCMT 080412	8.7	12.7	4.76	4.4	1.2	•		
	WCKT 030208	3.8	5.56	2.38	2.8	0.8			•
	WCKT 040208	4.3	6.35	2.38	3.0	0.8			•
	WCKT 050308	5.4	7.94	3.18	3.4	0.8			•
	WCKT 06T308	6.5	9.525	3.97	3.9	0.8			•
	WCKT 080412	8.7	12.7	4.76	4.4	1.2			•

SP U Drill Blade



Shape	Model	L	IC	T	d1	R	CT6010	CT7010	CN3510
	SPMT 050204	5	5	2.38	2.25	0.4	•		
	SPMT 060204	6	6	2.38	2.61	0.4	•		
	SPMT 07T308	7.94	7.94	3.97	2.85	0.8	•		
	SPMT 090408	9.8	9.8	4.3	4.05	0.8	•		
	SPMT 110408	11.5	11.5	4.8	4.45	0.8	•		
	SPMT 140512	14.3	14.3	5.2	5.75	1.2	•		
	SPGT 050204	5	5	2.38	2.25	0.4			•
	SPGT 060204	6	6	2.38	2.61	0.4			•
	SPGT 07T308	7.94	7.94	3.97	2.85	0.8			•
	SPGT 090408	9.8	9.8	4.3	4.05	0.8			•
	SPGT 110408	11.5	11.5	4.8	4.45	0.8			•
	SPGT 140512	14.3	14.3	5.2	5.75	1.2			•

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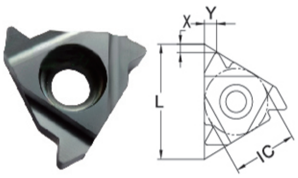
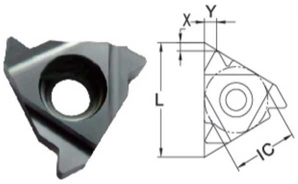
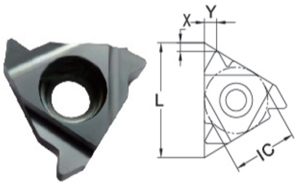
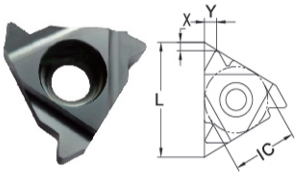
Threaded blade

P M K BT60 P M K BT70 N Non–ferrous metal CC Cermet

• Standard inventory

Shape	Model		Machining pitch range		Size				Material			
	Right-hand thread	Left-hand thread	mm	TPI	IC	L	X	Y	CT6010	CT7010	CN3510	CC9015
60° Universal external thread insert												
	11ER A60	11EL A60	0.5-1.5	48-16	1/4″	11	0.8	0.9	•	•	•	•
	16ER A60	16EL A60	0.5-1.5	18-16	3/8″	16	0.8	0.9	•	•	•	•
	16ER AG60	16EL AG60	0.5-3.0	48-8	3/8″	16	1.2	1.7	•	•	•	•
	16ER G60	16EL G60	1.75-3.0	14-8	3/8″	16	1.2	1.7	•	•	•	•
	22ER N60	22EL N60	3.5-5.0	7-5	1/2″	22	1.7	2.5	•	•	•	•
60° Universal internal thread insert												
	11IR A60	11IL A60	0.5-1.5	48-16	1/4″	11	0.8	0.9	•	•	•	•
	16IR A60	16IL A60	0.5-1.5	18-16	3/8″	16	0.8	0.9	•	•	•	•
	16IR AG60	16IL AG60	0.5-3.0	48-8	3/8″	16	1.2	1.7	•	•	•	•
	16IR G60	16IL G60	1.75-3.0	14-8	3/8″	16	1.2	1.7	•	•	•	•
	22IR N60	22IL N60	3.5-5.0	7-5	1/2″	22	1.7	2.5	•	•	•	•
55° Universal external thread insert												
	11ER A55	11EL A55	0.5-1.5	48-16	1/4″	11	0.8	0.9	•	•		
	16ER A55	16EL A55	0.5-1.5	18-16	3/8″	16	0.8	0.9	•	•		
	16ER AG55	16EL AG55	0.5-3.0	48-8	3/8″	16	1.2	1.7	•	•		
	16ER G55	16EL G55	1.75-3.0	14-8	3/8″	16	1.2	1.7	•	•		
	22ER N55	22EL N55	3.5-5.0	7-5	1/2″	22	1.7	2.5	•	•		
55° Universal internal thread insert												
	11IR A55	11IL A55	0.5-1.5	48-16	1/4″	11	0.8	0.9	•	•		
	16IR A55	16IL A55	0.5-1.5	18-16	3/8″	16	0.8	0.9	•	•		
	16IR AG55	16IL AG55	0.5-3.0	48-8	3/8″	16	1.2	1.7	•	•		
	16IR G55	16IL G55	1.75-3.0	14-8	3/8″	16	1.2	1.7	•	•		
	22IR N55	22IL N55	3.5-5.0	7-5	1/2″	22	1.7	2.5	•	•		

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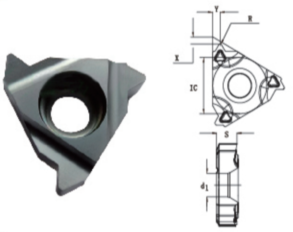
Threaded blade

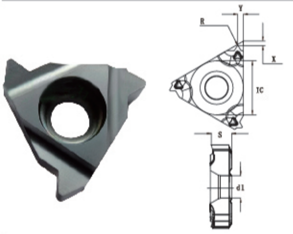
P M K BT60 P M K BT70 N Non–ferrous metal CC Cermet

• Standard inventory

Metric 60° male threaded insert

Shape	Model	Pitch	Size						Material			
			X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 ER1.00ISO	1.00	0.8	0.7	0.14	9.525	3.47	4	•	•		
	16 ER1.25ISO	1.25	0.8	0.9	0.18	9.525	3.47	4	•	•		
	16 ER1.50ISO	1.50	0.8	1.0	0.22	9.525	3.47	4	•	•		
	16 ER1.75ISO	1.75	1.2	1.2	0.25	9.525	3.47	4	•	•		
	16 ER2.00ISO	2.00	1.2	1.3	0.29	9.525	3.47	4	•	•		
	16 ER2.50ISO	2.50	1.2	1.5	0.36	9.525	3.47	4	•	•		
	16 ER3.00ISO	3.00	1.2	1.5	0.43	9.525	3.47	4	•	•		

Metric 60° internal thread insert

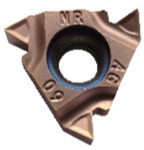
Shape	Model	Pitch	X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 IR1.00ISO	1.00	0.8	0.7	0.07	9.525	3.47	4	•	•		
	16 IR1.25ISO	1.25	0.8	0.9	0.09	9.525	3.47	4	•	•		
	16 IR1.50ISO	1.50	0.8	1.0	0.11	9.525	3.47	4	•	•		
	16 IR1.75ISO	1.75	1.2	1.2	0.13	9.525	3.47	4	•	•		
	16 IR2.00ISO	2.00	1.2	1.3	0.15	9.525	3.47	4	•	•		
	16 IR2.50ISO	2.50	1.2	1.5	0.18	9.525	3.47	4	•	•		
	16 IR3.00ISO	3.00	1.2	1.5	0.22	9.525	3.47	4	•	•		

C

Blade series

Threaded blade material description


External thread blade


Internal thread blade

CT6010

First choice for processing stainless steel, suitable SUS304, SUS316,SUS316L, OCr19Ni9,1Cr19Ni9, etc.

Die casting trough

- Pressed thread insert
- High precision
- High durability
- Higher cost performance


External thread blade

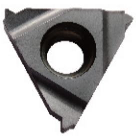

Internal thread blade

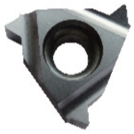
CT7010

Stainless steel and steel are universal and have good toughness. It also has a good performance i n processing cast iron. Suitable for SUS304, 45#, A3, 40Cr, etc.

Die casting trough

- Pressed thread insert
- High precision
- High durability
- Higher cost performance


External thread blade

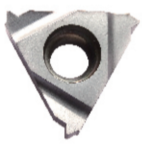

Internal thread blade

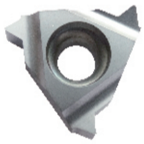
CT7010

Stainless steel and steel are universal and have good toughness. It also has a good performance in processing cast iron. Suitable for SUS304, 45#, A3, 40Cr, etc.

Grinding groove

- Five-axis CNC tool grinding precision grinding
- High precision
- Complete model specifications


External thread blade


Internal thread blade

CN3510

For non-ferrous metals, sharp edges, Low cutting resistance and high thread finish Suitable for aluminum alloys, copper alloys, etc.

Aluminum material

- Copper, aluminum, etc. Metal special

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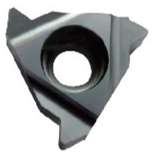
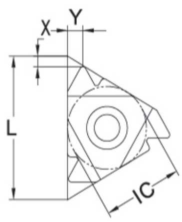
Threaded blade

P M K BT60 P M K BT70 N Non–ferrous metal CC Cermet

• Standard inventory

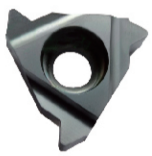
60° Tongmei standard external thread blade

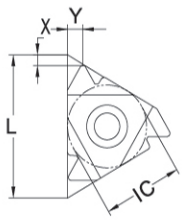




Shape	Model		TPI	Size				Material			
	Right-hand thread	Left-hand thread		IC	L	X	Y	CT6010	CT7010	CN3510	CC9015
	16ER 32 UN	16EL 32 UN	32	3/8″	16	0.6	0.6	•			
	16ER 28 UN	16EL 28 UN	28	3/8″	16	0.6	0.7	•			
	16ER 24 UN	16EL 24 UN	24	3/8″	16	0.7	0.8	•			
	16ER 20 UN	16EL 20 UN	20	3/8″	16	0.8	0.9	•			
	16ER 18UN	16EL 18UN	18	3/8″	16	0.8	1.0	•			
	16ER 16 UN	16EL 16 UN	16	3/8″	16	0.9	1.1	•			
	16ER 14 UN	16EL 14 UN	14	3/8″	16	1.0	1.2	•			
	16ER 13 UN	16EL 13 UN	13	3/8″	16	1.1	1.3	•			
	16ER 12 UN	16EL 12 UN	12	3/8″	16	1.1	1.4	•			
	16ER 11.5 UN	16EL 11.5 UN	11.5	3/8″	16	1.1	1.4	•			
	16ER 11 UN	16EL 11 UN	11	3/8″	16	1.1	1.5	•			
	16ER 10 UN	16EL 10 UN	10	3/8″	16	1.1	1.5	•			
	16ER 9 UN	16EL 9 UN	9	3/8″	16	1.2	1.7	•			
	16ER 8 UN	16EL 8 UN	8	3/8″	16	1.2	2.0	•			

60° Tongmei standard internal thread insert





Shape	Right-hand thread	Left-hand thread	TPI	IC	L	X	Y	CT6010	CT7010	CN3510	CC9015
	16IR 32 UN	16IL 32 UN	32	3/8″	16	0.6	0.6	•			
	16IR 28 UN	16IL 28 UN	28	3/8″	16	0.6	0.7	•			
	16IR 24 UN	16IL 24 UN	24	3/8″	16	0.7	0.8	•			
	16IR 20 UN	16IL 20 UN	20	3/8″	16	0.8	0.9	•			
	16IR 18UN	16IL 18UN	18	3/8″	16	0.8	1.0	•			
	16IR 16 UN	16IL 16 UN	16	3/8″	16	0.9	1.1	•			
	16IR 14 UN	16IL 14 UN	14	3/8″	16	1.0	1.2	•			
	16IR 13 UN	16IL 13 UN	13	3/8″	16	1.1	1.3	•			
	16IR 12 UN	16IL 12 UN	12	3/8″	16	1.1	1.4	•			
	16IR 11.5 UN	16IL 11.5 UN	11.5	3/8″	16	1.1	1.4	•			
	16IR 11 UN	16IL 11 UN	11	3/8″	16	1.1	1.5	•			
	16IR 10 UN	16IL 10 UN	10	3/8″	16	1.1	1.5	•			
	16IR 9 UN	16IL 9 UN	9	3/8″	16	1.2	1.7	•			
	16IR 8 UN	16IL 8 UN	8	3/8″	16	1.2	2.0	•			

C

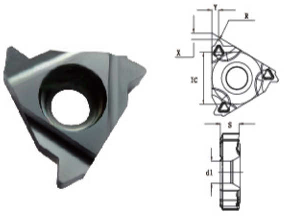
Blade series

Threaded blade

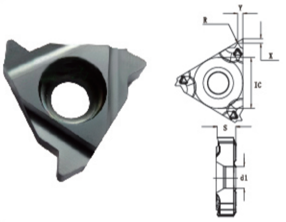
P M K BT60 P M K BT70 N Non–ferrous metal CC Cermet

• Standard inventory

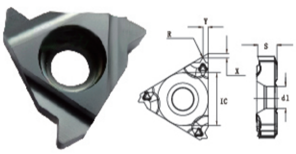
BSPT55° External thread blade

Shape	Model	Pitch	Size						Material			
			X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 ER28BSPT	28	0.7	0.8	0.11	9.525	3.47	4	•			
	16 ER19BSPT	29	0.8	1.0	0.17	9.525	3.47	4	•			
	16 ER14BSPT	14	1.2	1.5	0.24	9.525	3.47	4	•			
	16 ER11BSPT	11	1.2	1.5	0.30	9.525	3.47	4	•			

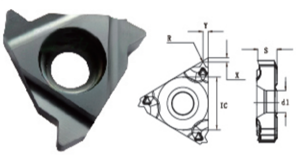
BSPT55° Internal thread blade

Shape	Model	Pitch	X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 IR28BSPT	28	0.7	0.8	0.11	9.525	3.47	4	•			
	16 IR19BSPT	29	0.8	1.0	0.17	9.525	3.47	4	•			
	16 IR14BSPT	14	1.2	1.5	0.24	9.525	3.47	4	•			
	16 IR11BSPT	11	1.2	1.5	0.30	9.525	3.47	4	•			

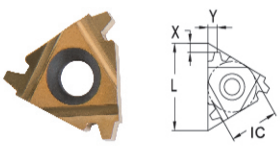
HUISHI 55° external thread insert

Shape	Model	Pitch	X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 ER19W	19	0.8	1.0	0.17	9.525	3.47	4	•			
	16 ER14W	14	1.2	1.5	0.24	9.525	3.47	4	•			
	16 ER11W	11	1.2	1.5	0.30	9.525	3.47	4	•			

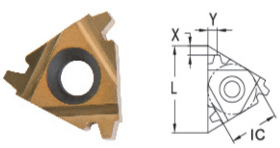
HUISHI 55° internal thread insert

Shape	Model	Pitch	X	Y	R	IC	S	d1	CT6010	CT7010	CN3510	CC9015
	16 IR19W	19	0.8	1.0	0.17	9.525	3.47	4	•			
	16 IR14W	14	1.2	1.5	0.24	9.525	3.47	4	•			
	16 IR11W	11	1.2	1.5	0.30	9.525	3.47	4	•			

30° Standard T-type external thread insert

Shape	Model		TPI	Size				Material			
	Right-hand thread	Left-hand thread		IC	L	X	Y	CT6010	CT7010	CN3510	CC9015
	16ER 1.5 TR	16EL 1.5 TR	1.5	3/8″	16	1.0	1.1	•			
	16ER 2 TR	16EL 2 TR	2.0	3/8″	16	1.1	1.3	•			
	16ER 3 TR	16EL 3 TR	3.0	3/8″	16	1.3	1.5	•			
	16ER 4 TR	16EL 4 TR	4.0	1/2″	22	1.7	1.9	•			
	16ER 5 TR	16EL 5 TR	5.0	1/2″	22	2.1	2.5	•			
	16ER 6 TR	16EL 6 TR	6.0	5/8″	27	2.2	2.6	•			

30° Standard T-type internal thread insert

Shape	Right-hand thread	Left-hand thread	TPI	IC	L	X	Y	CT6010	CT7010	CN3510	CC9015
	16IR 1.5 TR	16IL 1.5 TR	1.5	3/8″	16	1.0	1.1	•			
	16IR 2 TR	16IL 2 TR	2.0	3/8″	16	1.1	1.3	•			
	16IR 3 TR	16IL 3 TR	3.0	3/8″	16	1.3	1.5	•			
	16IR 4 TR	16IL 4 TR	4.0	1/2″	22	1.7	1.9	•			
	16IR 5 TR	16IL 5 TR	5.0	1/2″	22	2.1	2.5	•			
	16IR 6 TR	16IL 6 TR	6.0	5/8″	27	2.2	2.6	•			

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Thread Milling Cutter Series

High hardness thread

Can be processed to HRC62°

Single thread milling cutter

Small batch, deep hole dedicated
Range teeth & adjustable

3 flutes thread milling cutter

Precision small parts preferred

Single thread milling cutter

Large thread, economical preferred

Full thread ISO

High precision, long life, high finish

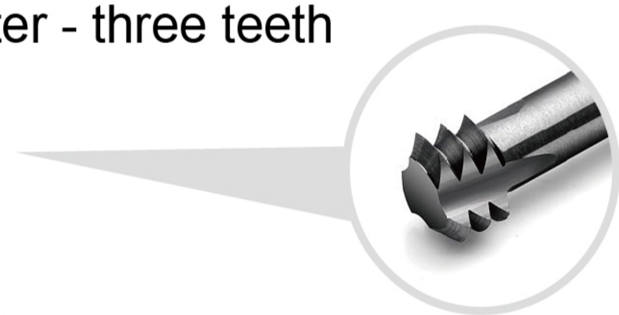
Economical

American taper pipe
thread milling cutter

Economical ISO

Solid carbide tap

Thread milling cutter - three teeth



Sumitomo 209 steel material
Balzers coating

Specifications, stock, good quality, low price

Internal Thread

Thread standard	Pitch tpi	Blade dia. d	Effective length L1	Edges Number F	Shank dia. D	O.A.L L
M1*0.25	0.25	0.73	2.3	3	4	50
M1.2*0.25	0.25	0.92	2.8	3	4	50
M1.4*0.3	0.3	1.05	3.2	3	4	50
M1.6*0.35	0.35	1.2	3.3	3	4	50
M1.8*0.35	0.35	1.41	4.1	3	4	50
M2*0.4	0.4	1.54	4.4	3	4	50
M2.2*0.45	0.45	1.63	4.8	3	4	50
M2.5*0.45	0.45	1.96	5.3	3	4	50
M3*0.5	0.5	2.4	6.4	3	4	50
M3.5*0.6	0.6	2.75	7.4	3	4	50
M4*0.7	0.7	3.15	8.6	3	6	50
M5*0.8	0.8	4	12	3	6	50
M6*1.0	1.0	4.75	13	3	6	50
M8*1.25	1.25	6	17.3	3	6	60
M10*1.5/M11*1.5	1.5	8	18.5	3	8	60
M13*1.5	1.5	10	21.8	4	10	75
M15*1.5	1.5	12	26.3	4	12	80
M20*1.5	1.5	16	35.2	4	16	100
M12*1.75	1.75	10	21.8	3	10	75
M14*2.0	2.0	10	25	3	10	75
M16*2.0	2.0	12	27	4	12	80
M20*2.0	2.0	16	37	4	16	100
M20*2.5	2.5	16	36.3	4	16	100
M24*3.0/M27*3.0	3.0	16	40.5	4	16	100
M27*3.0	3.0	20	43	4	20	100

D
Thread series

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NPT

Helical

Thread standard	Pitch tpi	Size mm				Slots Number Z
		D2	D1	L1	L2	
1/16"*27	27	6	5.3	57	9.4	3
1/8"*27	27	8	7.5	63	9.4	4
1/4"*18	18	10	9.4	73	14.1	4
3/8"*18	18	12	11.9	83	14.1	4
1/2",3/4"*14	14	16	15.5	92	25.4	5
1"-2"*11.5	11.5	20	19.9	104	33.1	5
21/2",3"*8	8	20	19.9	104	38.1	4

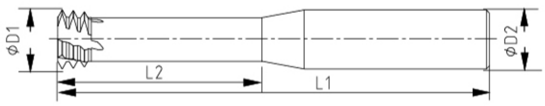
NPTF

Helical

Thread standard	Pitch tpi	Size mm				Slots Number Z
		D2	D1	L1	L2	
1/16"*27	27	6	5.3	57	9.4	3
1/8"*27	27	8	7.5	63	9.4	4
1/4"*18	18	10	9.4	73	14.1	4
3/8"*18	18	12	11.9	83	14.1	4
1/2",3/4"*14	14	16	15.5	92	25.4	5
1"-2"*11.5	11.5	20	19.9	104	33.1	5
21/2",3"*8	8	20	19.9	104	38.1	4

ISO Metric

Millipro



Thread M Coarse teeth	Thread M Fine teeth	Pitch tpi	Size mm				Slots Number Z
			D2	D1	L1	L2	
M1.6*0.35		0.35	4	1.20	30	3.4	3
M2*0.4		0.4	4	1.55	57	4.2	3
M2.2*0.45		0.45	4	1.65	57	4.6	3
M2.5*0.45		0.45	4	1.95	57	5.2	3
M3*0.5	M3.5-M16*0.5	0.5	4	2.40	57	6.2	3
M3.5*0.6		0.6	4	2.75	57	7.3	3
M4*0.7		0.7	4	3.15	57	8.3	3
M5*0.8		0.8	4	4.05	57	10.4	3
M6*1.0	M8-M40*1.0	1.0	6	4.80	57	12.5	3
M8*1.25		1.25	8	6.50	63	16.6	3
M10*1.5	M12-M48*1.50	1.50	10	8.20	73	20.80	3
M12*1.75		1.75	10	9.90	73	25.0	3
M16*2.0		2.0	12	11.90	83	33.0	3
M20*2.5		2.50	16	15.90	92	41.30	3

UN

Helical

Thread			Pitch	Size mm				Slots Number
UNC(Crude)	UNF(fine)	UNEF(Extra fine)	tpi	D2	D1	L1	L2	Z
	NO.8-36		36	4	3.0	45	8.5	3
	NO.10-32	NO.12-3/8"*32	32	4	3.3	45	11.1	3
	NO.12-8,1/4"*28	7/16",1/2"*28	28	4	3.8	45	11.8	3
	1/4*28	7/16",1/2"*28	28	6	4.6	57	12.7	3
		7/16",1/2"*28	28	10	9.2	73	22.7	4
NO.10-24	5/16",3/8"*24	9/16"-11/16"*24	24	4	2.9	45	10.6	3
NO.12-24	5/16",3/8"*25	9/16"-11/16"*24	24	4	3.5	45	11.6	3
	5/16",3/8"*25	9/16"-11/16"*24	24	6	5.7	57	15.9	3
	3/8"*24	9/16"-11/16"*24	24	8	7.4	63	19.1	3
		9/16"-11/16"*24	24	12	11.9	83	28.6	4
1/4"*20	7/16",1/2"*20	3/4"-1"*20	20	4	3.9	45	12.7	3
	7/16",1/2"*20	3/4"-1"*20	20	10	8.5	73	22.9	4
	1/2"*20	3/4"-1"*20	20	10	9.9	73	25.4	4
		3/4"-1"*20	20	16	15.9	92	38.1	5
5/16"*18	9/16"5/8"*18	11/16"-1 11/16"*18	18	6	5.2	57	16.9	3
	9/16"5/8*18	11/16"-1 11/16"*18	18	12	11.3	83	29.6	4
	5/8"*18	11/16"-1 11/16"*18	18	12	11.9	83	32.5	4
3/8"*16	3/4"*16		16	8	6.7	63	19.1	3
	3/4"*16		16	16	15.9	92	38.1	4
7/16:*14	7/8"*14		14	8	7.6	63	23.6	4
	7/8"*14		14	20	18.7	104	44.4	4
1/2"*13			13	10	8.9	73	25.4	4
9/16"*12	1"1 1/2"*12		12	12	10.3	83	29.6	4
	1"1 1/2"*12		12	20	19.9	104	50.8	5
5/8"*11			11	12	11.0	83	32.3	4
3/4"*10			10	16	13.5	92	38.1	5
7/8"*9			9	16	15.2	92	45.2	4
1"*8			8	20	17.0	104	50.8	4

BSPT(RC)

Helical

Thread standard	Pitch	Size mm				Slots Number
	tpi	D2	D1	L1	L2	Z
1/16"*28,1/8"*28	28	6	5.8	57	16.3	3
1/8"*28	28	8	7.7	63	20.0	3
1/4"*19,3/8"*19	19	10	9.9	73	26.7	4
3/8"*19	19	16	13.4	92	33.4	4
1/2",3/4"*14	14	16	15.7	92	43.5	5
1",11/2",2",21/2"*11	11	20	19.9	104	41.6	5

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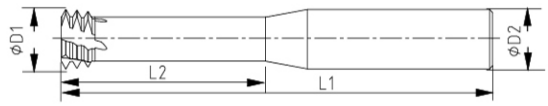
Tiny thread milling cutter

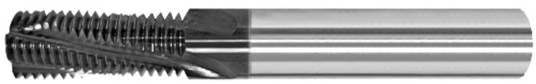
Millipro



Thread		Pitch	Size mm				Slots Number
UNC(Crude)	UNF(fine)	tpi	D2	D1	L1	L2	Z
	NO.1-72	72	4	1.45	57	3.9	3
NO.1-64	NO.2-64	64	4	1.45	57	4.2	3
NO.2-56	NO.3-56	56	4	1.65	57	5.0	3
NO.3-48	NO.4-48	48	4	1.90	57	6.0	3
NO.4,NO.5-40	NO.6-40	40	4	2.10	57	6.0	3
NO.5-40	NO.6-40	40	4	2.45	57	7.2	3
	NO.8-36	36	4	3.30	57	8.7	3
NO.6,NO.8-32	NO.10-32	32	4	2.55	57	7.4	3
NO.8-32	NO.10-32	32	4	3.20	57	10.0	3
	1/4"*28	28	6	5.25	57	13.2	3
NO.10-24	5/16"*24	24	4	3.58	57	10.2	3
	5/16"*24	24	8	6.68	63	16.5	3
1/4"*20	7/16"*20	20	6	4.88	57	13.2	3
	7/16"*20	20	10	9.55	73	23.0	3
3/8"*16		16	8	6.70	63	19.1	3
7/16"*14		14	10	9.00	73	23.3	3

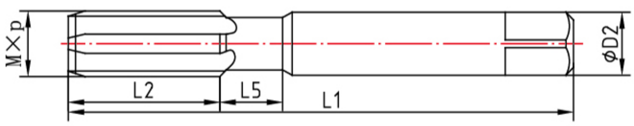
BSP(G)

Helical



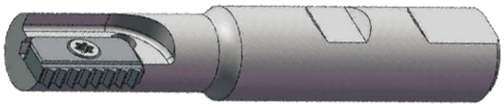
Thread standard	Pitch	Size mm				Slots Number
	tpi	D2	D1	L1	L2	Z
1/16"*28,1/8"*28	28	6	5.8	57	16.3	3
1/8"*28	28	8	7.7	63	20.0	3
1/4"*19,3/8"*19	19	10	9.9	73	26.7	4
3/8"*19	19	16	13.4	92	33.4	4
1/2",3/4"*14	14	16	15.7	92	43.5	5
1",11/2",2",21/2"*11	11	20	19.9	104	41.6	5

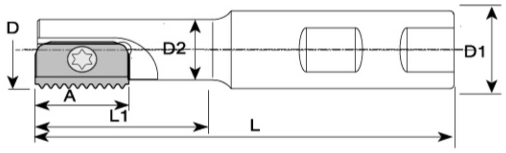
Alloy straight groove tap



Product number		Thread	Pitch	Slots Number	O.A.L	Thread length	Shank dia.
Uncoated	coating		P	Z	L1	L2	D2
ZS-025	ZST-025	M2.5	0.45	3	44	9.5	3
ZS-030	ZST-030	M3	0.5	3	46	11	4
ZS-040	ZST-040	M4	0.7	3	55	13	5
ZS-050	ZST-050	M5	0.8	3	55	16	5
ZS-060	ZST-060	M6	1	3	65	16	6
ZS-080	ZST-080	M8	1.25	4	75	22	8
ZS-100	ZST-100	M10	1.5	4	75	24	8
ZS-120	ZST-120	M12	1.75	4	85	30	9
ZS-140	ZST-140	M14	2.0	4	100	30	11
ZS-160	ZST-160	M16	2.0	4	100	35	13

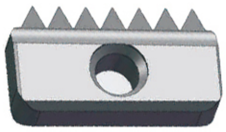
Single-edged thread milling cutter

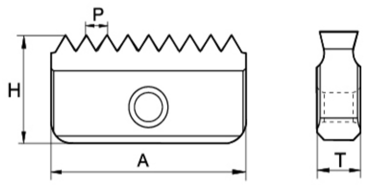




Product number	Size						Blade	Screw	Wrench
	A	D	D1	D2	L	L1			
SR0010H12	12	9.5	16	7.6	85	29	12****	L60M2.5X7	T8
SR0012F14	14	12.0	20	8.9	80	30	14****	L60M3X8	T10
SR0014H14	14	14.5	20	11.2	85	33	14****	L60M3X8	T10
SR0017H14	14	17.0	20	13.4	85	35	14****	L60M3X8	T10
SR0018H21	21	18.0	20	13.8	85	35	21****	L60M3.5X8	T15
SR0021H21	21	21.0	20	15.5	94	44	21****	L60M3.5X10	T15
SR0029J30	31	29.0	25	22	110	52	30****	L60M4X0.5X11.5D	T15
SR0048M40	40	48.0	40	35.0	153	83	40****	L60M5X0.8X14D	T20

ISO standard milling cutter





H		6	7.5	12	16	20
T		2.38	3.1	4.7	5.5	6.3
Machining pitch mm		Size=A				
		12	14	21	30	40
0.5	OUT E					
0.5	IN N	*12N0.5 ISO	14 N 0.5 ISO			
0.75	OUT E		14 E 0.75 ISO			
0.75	IN N	*12N0.75 ISO	14 N 0.75 ISO			
1.0	OUT E		14 E 1.0 ISO	21 E 1.0 ISO		
1.0	IN N	*12N1.0 ISO	14 N 1.0 ISO	21 N 1.0 ISO		
1.25	OUT E		14 E 1.25 ISO			
1.25	IN N	*12N1.215 ISO	14 N 1.25 ISO			
1.5	OUT E		14 E 1.5 ISO	21 E 1.5 ISO	30 E 1.5 ISO	40 E 1.5 ISO
1.5	IN N	*12N1.5 ISO	14 N 1.5 ISO	21 N 1.5 ISO	30 N 1.5 ISO	40 N 1.5 ISO
1.75	OUT E		14 E 1.75 ISO			
1.75	IN N		14 N 1.75 ISO	21 N 1.75 ISO		
2.0	OUT E		14 E 2.0 ISO	21 E 2.0 ISO	30 E2.0 ISO	40 E2.0 ISO
2.0	IN N		14 N 2.0 ISO	21 N 2.0 ISO	30 N 2.0 ISO	40 N 2.0 ISO
2.5	OUT E		14 E 2.5 ISO	21 E 2.5 ISO		
2.5	IN N		14 N 2.5 ISO	21 N 2.5 ISO		
3.0	OUT E			21 E 3.0 ISO	30 E 3.0 ISO	40 E 3.0 ISO
3.0	IN N			21 N 3.0 ISO	30 N 3.0 ISO	40 N 3.0 ISO
3.5	OUT E				30 E 3.5 ISO	
3.5	IN N			21 N 3.5 ISO	30 N 3.5 ISO	40 N 3.5 ISO
4.0	OUT E				30 E 4.0 ISO	40 E 4.0 ISO
4.0	IN N				30 N 4.0 ISO	40 N 4.0 ISO
4.5	OUT E					
4.5	IN N				30 N 4.5 ISO	40 N 4.5 ISO
5.0	OUT E					40 E 5.0 ISO
5.0	IN N				30 N 5.0 ISO	40 N 5.0 ISO
5.5	OUT E					
5.5	IN N					40 N 5.5 ISO
6.0	OUT E					40 E 6.0 ISO
6.0	IN N					

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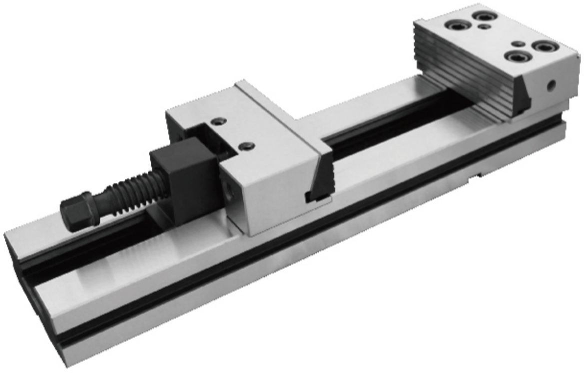
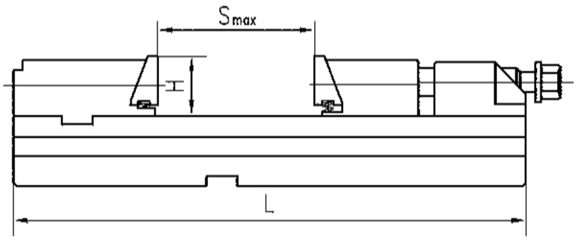
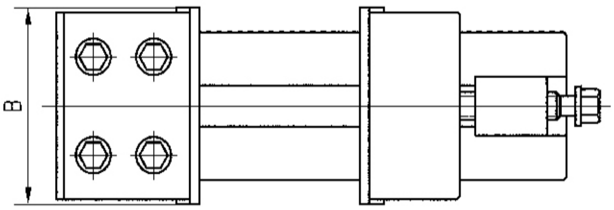
Precision combination pliers

1. Made of high-quality alloy steel
2. Parallelism 0.005mm/100mm,squareness 0.005mm
3. The hardness of working surface is HRC58-62 and precision ground to a mirror finish
4. It have interchangeable base,fixed/movable jawsit is quickly to clamp and easy to operate
5. It is widely used on machining center and other precision machine tools

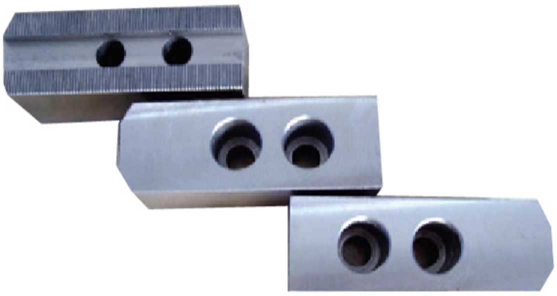


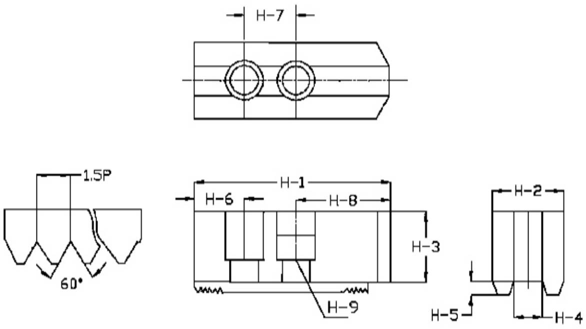




Model No.	B mm	H mm	Smax mm	L mm	Clamping force Kg
100×100	100	30	100	270	3000
125×150	125	40	150	345	3000
150×200	150	50	200	420	5000
150×300	150	50	300	520	5000
175×200	175	60	200	455	6000
175×300	175	60	300	555	6000
175×400	175	60	400	655	6000
175×500	175	60	500	755	6000
175×600	175	60	600	855	6000
200×200	200	65	200	495	10000
200×300	200	65	300	595	10000
200×400	200	65	400	695	10000
200×500	200	65	500	795	10000
200×600	200	65	600	895	10000
300×200	300	80	200	535	12000
300×300	300	80	300	635	12000
300×400	300	80	400	735	12000
300×500	300	80	500	835	12000
300×600	300	80	600	935	12000
300×700	300	80	700	1035	12000
300×800	300	80	800	1135	12000

CS chuck soft claw





MODELS/DIMENSION	h-1	h-2	h-3	h-4	h-5	h-6	h-7	h-8	h-9	h-10
CS05	62	25	30	10	4	10	14	38	M8	1.5 × 60°
CS06	73	31	36	12	5	15	20	38	M10	1.5 × 60°
CS08	95	35	38	14	5	24	25	46	M12	1.5 × 60°
CS10	110	40	42	16	5	30	30	50	M12	1.5 × 60°
CS12(中空)	129	50	50	21	6	39	30	60	M16	1.5 × 60°
CS12S(中实)	129	50	50	18	6	39	30	60	M14	1.5 × 60°
CS15(中空)	165	62	62	22	8	37	43	85	M20	1.5 × 60°
CS12S(中实)	165	62	62	25.5	5.3	37	43	85	M20	1.5 × 60°

120° 90° 60°

Hydraulic soft claw

Pitch 1.5mm

Non-standard can be customized

Angle 60° 90° 120°

Different Angles, Non-standard Thickness Can Be Customized

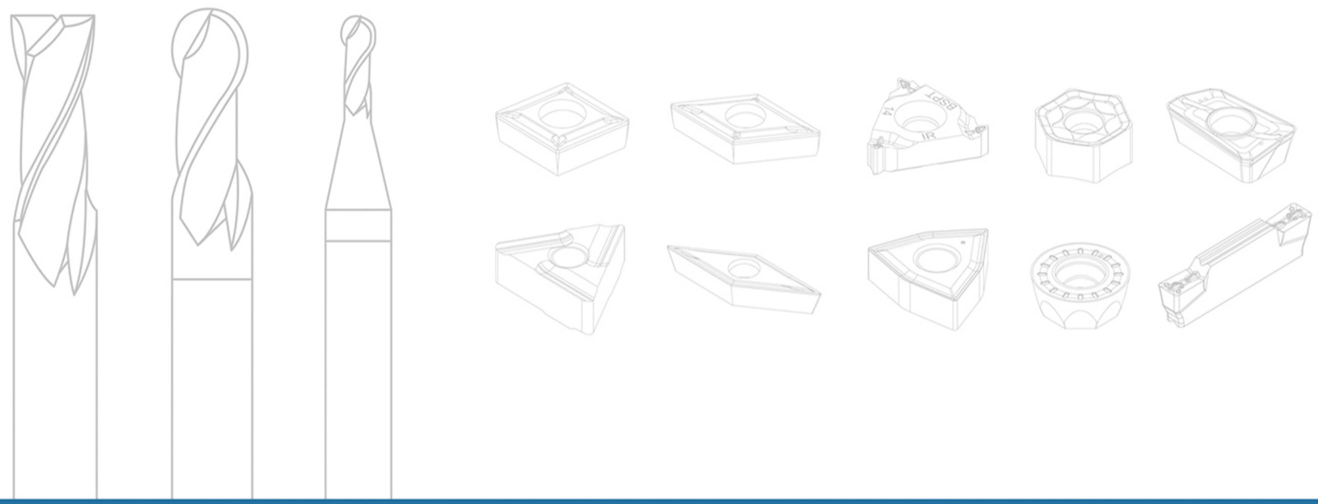
F

Chuck soft claw

CDZ GmbH

CDZ

Good at type · Specialized in quality



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