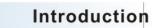


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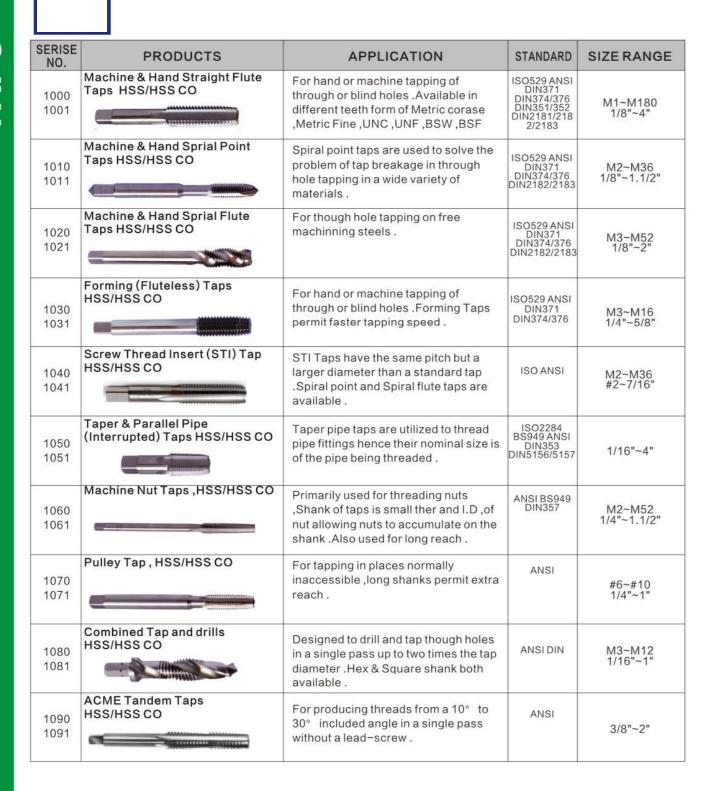
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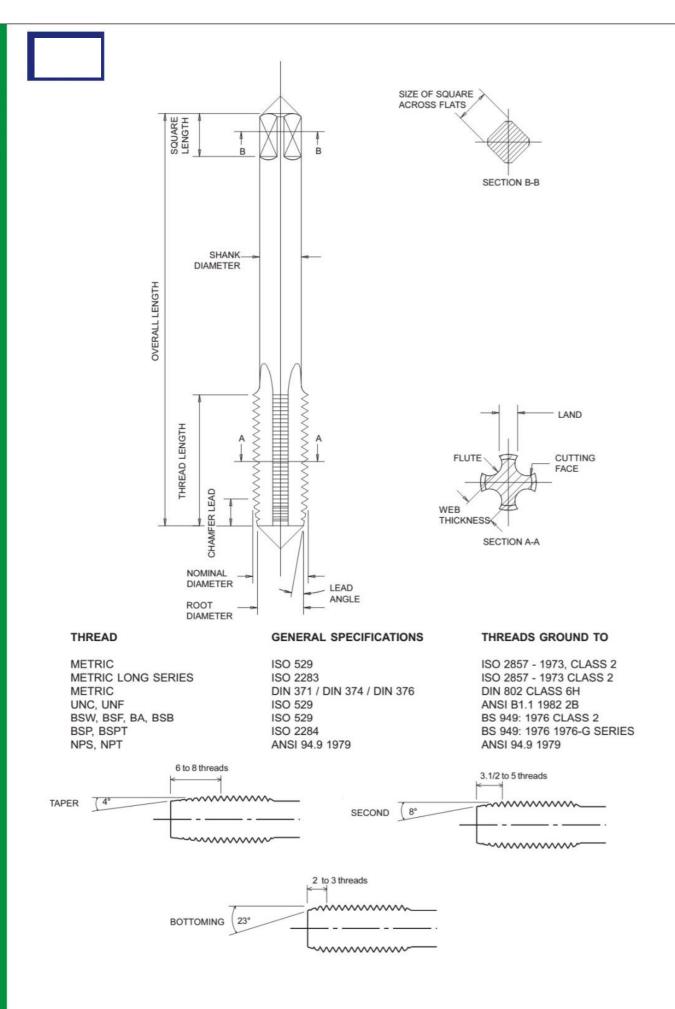
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SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE	
M802	Annular Cutter, HSS	For drilling most of mild and structure steel.	Works Standard	Dia 12mm~100mm 1/2"~4" Cutting depth 30mm~150mm 1"~6"	
M602	Annular Cutter, HSS Cobalt	For drilling most of mild and structure steel.	Works Standard	Dia 12mm~100mm 1/2"~4" Cutting depth 30mm~150mm 1"~6"	
M402	Annular Cutter, Powder Metal (M42)	For drilling most of mild and structure steel.	Works Standard	Dia12mm~100mm 1/2"~4" Cutting depth 30mm~150mm 1"~6"	
M902	Annular Cutter, Tungsten Carbide Tipped	For drilling variety of materials from mild steel to cast iron .	Works Standard	Dia 12mm~100mm 1/2"~8" Cutting depth 30mm~300mm 1"~12"	
M902CS	Annular Cutter, Tungsten Carbide Tipped	For drilling variety of materials from mild steel to cast iron .	Works Standard	Dia 12mm~100mm 1/2"~8" Cutting depth 30mm~300mm 1"~12"	
MR702	Railway Cutter, HSS Cobalt	For general rail drilling .	Works Standard	Dia19mm~32mm 3/4"~1-11/16" Cutting depth 25mm~50mm 7/8"~2"	
MR902	Railway Cutter, Tungsten Carbide Tipped	For drilling variety of materials from non-hardened steels to super alloys.	Works Standard	Dia 19mm~32mm 3/4"~1-11/16" Cutting depth 25mm~50mm 7/8"~2"	
M802B	Annular Cutter Blanks	For your brand finished products .	In according to drawing	Dia 12mm~100mm 1/2"~4" Cutting depth 30mm~150mm 1"~6"	
MA100	Ejector pins for core drills	Locate the hole center point .	Works Standard	Dia 6.35 Dia 7.98	
MA200	Adapter for magnetic-stand drilling machine	For annular cutter with different shank .	Works Standard	M18X6-3/4" weldon 3/4"weldon-Quick in Quick in- M18X6 Nitto- weldon shank	
MA300	For annular cutter shank.		Works Standard	MT2,MT3	
M802	Solid drills with weldon 3/4" shank	For use in magnetic stand and pillar drilling machine.	Works Standard	Dia 6.0~27.5mm	
Mc500	Countersink with 3/4" weldon shank	For all standard industrial materials	Works Standard	Dia 20~Dia 80	

 $<sup>^{\</sup>star}\, \text{The special specifications products, we can production according to drawings or samples provided by the customers.}$ 





SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
1100 1101	Round Dies (Solid & Adjustable) CS/HSS	For cutting ovtornal corow throads by		M1~M68 13/16"~6"
1100 1101	Pipe Round Dies CS/HSS	For hand or machine production of components .BSP ,BSPT ,NPT ,NPS	DIN5158/5159 ANSI ISO4230/4231	M1~M68 1/4"~2.3/4"
1120 1121	Hexagon Rethreading Die Nuts CS/HSS	For repairing ,damaged ,jammed or cleanning the rusty threads .No special holders is required for these dies .Any wrench large enough will suffice .	DIN382 ANSI	M3~M115 1/8"~4.1/2"
1130 1131	NPT Hexagon Rethreading Dies CS/HSS	For general purpose repairing or cleaning of threads BSPwrench large enough will suffice.	DIN382 ANSI	1/8"~3"
1140 1141	Solid Square Pipe Dies NPT CS/HSS	Left hand threads ,special square size and HSS material are available .	ANSI	1/8"~2"
1191	Adjustable Tap Wrench	Hardened and tempered jaws used for Taps or reamers .	DIN1814 ANSI	M1~M42
1190	T-Type Wrenches (Ratchet & Fixed type)	For hand tapping and for driving screw extractors ,heavy hnurled cap for better grip .	ANSI	1/16"~1/2"
1192	Die stock	For directly holding round dies .	DIN225 ANSI	13/16"~6"OD
1193	Screw Extractors (Spiral & Straight flute)	For removing broken screws ,studs ,pipe fittings ,without damaging the threads .	ANSI	No.1~No.12

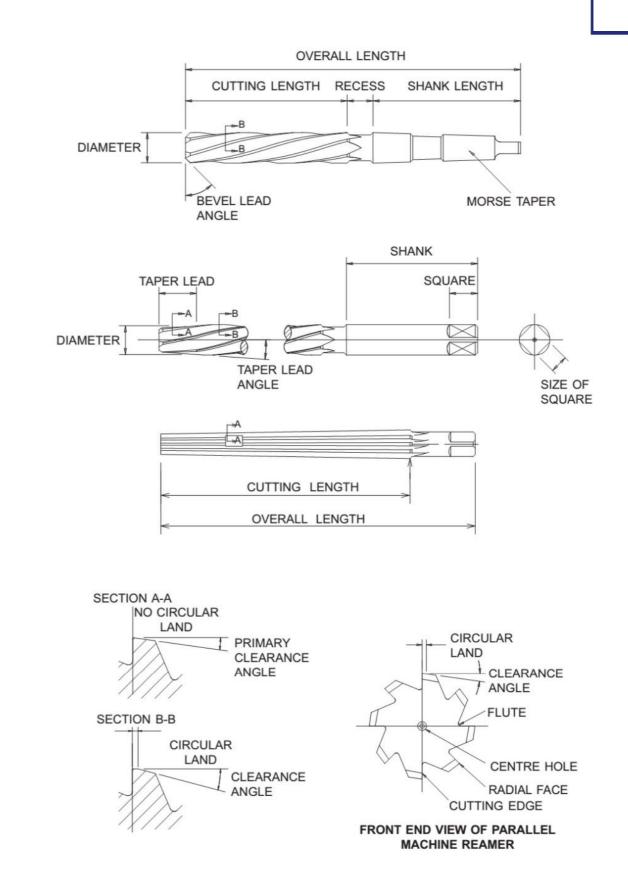


SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
2000 2001	Parallel Hand Reamers HSS/HSS CO	General hand reaming .	ISO 236/1 DIN 206 BS 328	1.5~50mm 1/16"~2"
2002 2003	MTS Parallel Machine Reamers – HSS/HSS CO	Generalmachine reaming .	ISO 236/1 BS 328	3.0~50mm 1/8"~2"
2010 2011	Straight Shank Machine Chucking Reamers HSS/HSS CO	Generalmachine reaming .	ISO 521 DIN 212 BS 328	2.0~16.0mm 1/8"~9/16"
2012 2013	MTS Machine Chucking Reamers HSS/HSS CO	Generalmachine reaming .	ISO 521 DIN 208 BS 328	4.0~50.0mm
2020 2021	Hand Taper Pin Reamers, Straight Flute HSS/HSS CO	Reaming holes to suit standard taper pins .	BS 328 ISO 3465 DIN 9	2.0~20mm 1/16"~7/8"
2022 2023	Hand Taper Pin Reamers, Spiral Flute HSS/HSS CO	Reaming holes to suit standard taper pins .	BS 328 ISO 3465 DIN 9	2.0~20mm 1/16"~7/8"
2024 2025	Hand Taper Pin Reamers, Spiral Flute HSS/HSS CO	Reaming holes to suit standard taper pins .	ISO 3465 DIN 9 TAPER 1:50	2.0~20mm 1/16"~7/8"
2030 2031	MTS Taper Bridge Machine Reamers HSS/HSS CO	For opening out existing holes for alignment on structural steel work.	BS 328 ISO 2238 DIN311	6.0~29.0mm 9/16"~1.1/4"
2040 2041	Hand Expansion Reamers HSS/HSS CO	Staright flute for most jobs, Spiral flute for holes with keyways or other interruptions.	DIN 859 ANSI	6.0~30.0mm 1/4"~2"
2050 2051	Expansion Machine Reamers HSS/HSS CO	An economical, general purpose high production reamer designed to maintain initial size by compensating for wear on the cutting edge.	Works Standard	3/8"~2.1/2"
2052	Morse Machine Reamers	Each morse taper reamer set consists of one finishing and one roughing reamer.	Works Standard	MT0~MT6
2060	Hex Shank Taper Car Reamers – HSS	High Speed Steel, 5 Flute , Left Hand Spiral, Right Hand Cut .	Works Standard	11/16"~1.1/16"
2090	Straight Shank Adjustable Hand Reamers – HSS			H1~H16



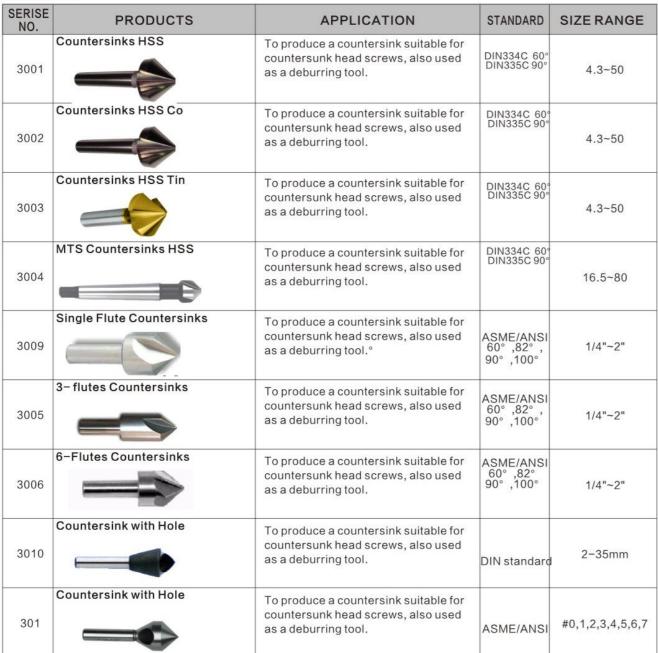


SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
2092	Repairman's tapered reamers – HSS	Hand reamers have T shank .	Works Standard	
2070	Brow & Sharpe Taper Finishig Reamers - HSS	Hand reamers have straight shank and square sriving area.	Works Standard	B&S Taper #1~#12
2080	Taper PIPE Reamers - HSS	Designed for reaming holes to be tapped with American Standard Taper Pipe Taps.	ANSI	1/16"~3"
2100	Shell reamers - HSS	Designed as a siazing or finishing reamer, can be held on an arbor which complete with driving lugs.	Works Standard	20.0~60.0mm 3/4"~4"
2200	Shell reamers Arbors	Reamers Arbors	DIN 217 ANSI	23-23~85-101.6 #4~#12









SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
3020	Counterbore	To counterboring holes to suit capscrew heads	DIN373/BS3 28/ISO4207 ASME/ANSI	M3~M12
3030	MTS Counterbore	To counterboring holes to suit capscrew heads	DIN373/BS3 28/ISO4207 ASME/ANSI	M8~M24
3040	Aircraft counter bore	To counterboring holes to suit capscrew heads	ASME/ANSI	3/16"~1.1/2"
3050	Pilot for Counterbore	Pilot	Works Standard	1/8"~2"
3060	Interchangeable Pilot Counterbore	Interchangeable Pilot Counterbore	ASME/ANSI	3/16"~3"



			22	
SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
5411	Long Series Drills/Taper Length Drills HSS Milled Flute	118 deg.drill point for general purpose drilling , 135 deg.split point for heavy duty drilling	DIN340 BS328 ISO494 ANSI94	1.5~13mm 1/16"~1/2"
5421	Long Series Drills/Taper Length Drills HSS Fully Ground	118 deg.drill point for general purpose drilling , 135 deg.split point for heavy duty drilling	DIN340 BS328 ISO494 ANSI94	1.5~13mm 1/16"~1/2"
5500	Hexagonal Shank Twist Drills, short and long, quick change and normal, HSS	For cordless drill	DIN3126	3~10mm
5501	Double Ended Sheet metal Drills HSS	Self centering drill designed to produce accurae holes in thin materials	popular dimension	1.5~10mm 1/8"~3/8"
5701	Reduced Shank Drills/Silver & Deming Drills	General Purpose Drilling	DIN338 ANSI94	13~50mm 1/2"~2"
5601	Extra Length Drills Straight Drills HSS	For long reach drilling		3~13mm 1/8"~1.1/4"
5602	Extra Length Drills Straight Drills HSS Cobalt	For long reach drilling		3~13mm 1/8"~1.1/4"
5611	Hollow section twist Drill bit HSS	Planking , window construction	Works Standard	3~5.8mm
5711	Center Drills HSS for all type	Center Drills HSS for all type  For general centering operations		1~10mm
5712	Combined Drills & Countersinks	For general centering operations	ANSI94	#00~#10
5721	NC Spotting Drills HSS & HSS Cobalt	For accurate positioning of holes of CNC Lathes	DIN1897 ANSI94	6~20mm 1/4"~1"
5451	Taper Shank Drills HSS & HSS Cobalt	For general purpose Drilling	DIN345 ISO235 BS328 ANSI94	6~70mm 1/4"~3"
5452	Extra Length Taper shank Drills HSS& HSS Cobalt	For extra deep hole drilling	DIN311 ANSI94	13~70mm 1/2"~3"

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
5730	Straight Shank Core Drills HSS & HSS Cobalt – 3 and 4 Flute	For exlarging diameter of existing holes	DIN345 ISO235 BS328 ANSI94	6~50mm 1/4"~2"
5453	Taper Shank Core Drills HSS & HSS Cobalt -3 and 4 Flute	For exlarging diameter of existing holes	DIN345 ISO235 BS328 ANSI94	6~50mm 1/4"~2"
5454	Taper Shank Rail Drills HSS & HSS CobaltFlute	For drilling manganese Rails and other Tough steel	Works Standard	22~35mm
5740	Weld Spot Drills HSS & HSS Cobalt Flute	Reboring of weld spots, Burr free and clean	Works Standard	6~10mm
5750	Milling Drill bit HSSFlute	For milling any type of contour in different material	Works Standard	6~8mm
5700	Jobber length Step drills HSS & HSS CobaltFlute	For drilling and Counterboring cap screw clearance holes	Works Standard	M3~M12 #5~40 1/2"~20
5710	Straight Flute Step drill HSS & HSS Cobalt	For drilling sheet metal pipe and profiles and steel	Works Standard	4~60mm 1/8"~1.3/8"
5720	Spiral Flute Step drill HSS & HSS Cobalt Flute	For drilling sheet metal pipe and profiles and steel	Works Standard	4~60mm 1/8"~1.3/8"
5730	Sheet and Tube Drills HSS & HSS Cobalt	For drilling sheet metal pipe and profiles and steel	Works Standard	3~60mm
5800	Rotary Hammer Drills bit with SDS Plus Shank Flute	For drilling concrete, masonary and natural stone	Works Standard	3~17mm 5/32"~1.1/8"
5801	Concrete DrillFlute	For drilling concrete, masonry and natural stone	Works Standard	3~20mm 1/8"~1"
5802	Masonry Drill Flute	For drilling masonry and natural stone	Works Standard	3~20mm 1/8"~1"

For drilling wood, metal, Plastic, Brick

,Plaster board, tiles and ceramic and

autoclaved aerated concrete

3~14mm

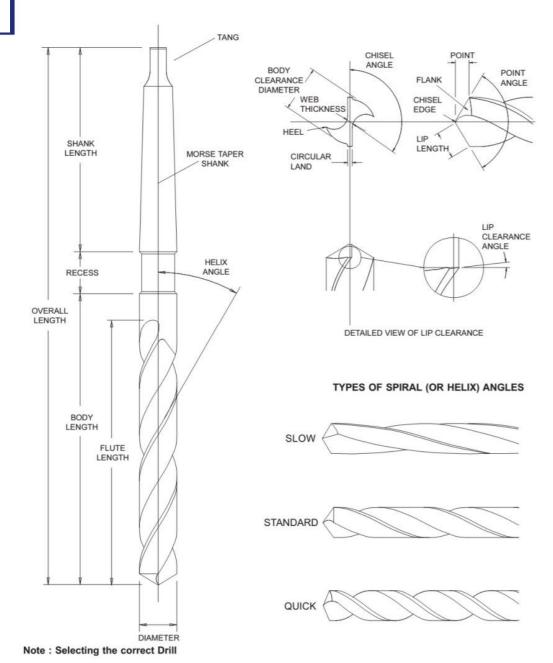
1/8"~1/2"

Works Standard

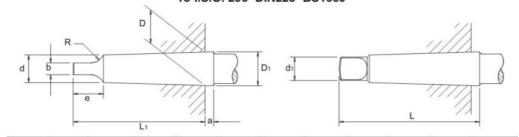
SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
5810	Glass Drill bit (+)point and (-) point	For drilling glass ,tiles, ceramic, Mirror glass and porcelain	Works Standard	3~12mm 1/8"~5/8"
5820	Machine wood drill bit	For drilling soft wood, non coated Chipboards	Works Standard	3~20mm 1/8"~1"
5830	Machine wood flat drill bit	For drilling hard wood and plasterboard	Works Standard	6~40mm
5840	Machine wood Auger drill bit	For drilling accurate hole in soft and hard wood	Works Standard	6~30mm
5850	Form work Auger drill bit	For drilling board , beam, Shuttering , metal sheet	DIN7490	6~30mm
5860	Forstner drill bit	For driling soft wood and veneered wooden board	DIN7483G	10~50mm
8100	Bi-Metall How Saw	Including wood , wood with nails , plastic, fiber glass , drywall , fiberboard and composite materials .	Works Standard	14~210mm
8200	T.C.T How Saw	Including Steel, Stainless steel, Cast iron, Aluminium, Copper	Works Standard	16~54mm
8110	How Saw Arbor with Center Drills	The Hole saw arbor	Works Standard	

5803

Universal Concrete Drill Flute

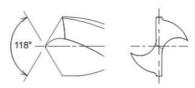


#### STANDARD MORSE TAPER SHANK To I.S.O. 296 DIN228 BS1660



No. of Taper	Fitting line Diameter D	Diameter d	Overall Length Max L	D 1	a	Max L1	Max e	H13 b	Max d1	Taper / mm on Dia	Max R
1	12.065	9.0	65.5	12.2	3.5	62.0	13.5	5.2	8.7	0.04998	5.0
2	17.780	14.0	80.0	18.0	5.0	75.0	16.0	6.3	13.5	0.04995	6.0
3	23.825	19.0	99.0	24.1	5.0	94.0	20.0	7.9	18.5	0.05020	7.0
4	31.267	25.0	124.0	31.6	6.5	117.5	24.0	11.9	24.5	0.05194	8.0
5	44.399	36.0	156.0	44.7	6.5	149.5	29.0	15.9	35.7	0.05263	10.0
6	63.348	52.0	218.0	63.8	8.0	210.0	40.0	19.0	51.0	0.05214	13.0

## **DRILL POINT STYLES**

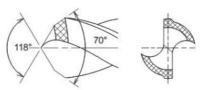


130°

Standard Point

Split Point Din 1412 Form C





"UX Point" DIN 1412 TYPE B

Cast Iron Point "DX Point" DIN 1412 TYPE D



DIN 1412 TYPE A

## **FLUTE FORMS**







Conventional Web

Parabolic Flute FormThicker Web

Chipbreaker

#### Benefits of the Parabolic Flute Form

Heavy web construction increases rigidity under torsional load thus eliminating chatter at the cutting edges which cause edge break down and early failure. The Parabolic drill web is 50-90% thicker than the standard drill, depending on drill diameter.

Wider flute form, together with quicker spiral, promotes better chip removal while allowing easier coolant flow to the drill point.



SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE	
6000 6001 6002	2 Flute End Mills, Thread Shank	For profile milling	DIN 327 ISO 1641	2.0~50.0mm	
6010 6011 6012	2 Flute End Mills, Long Series, Round shank	For profile milling	DIN 844	2.0~50.0mm	
6004 6005 6006	Multi Flute End Mills, Flatted Shank	For profile milling	DIN 327 BS 122	2.0~50.0mm	
6014 6015 6016	Multi Flute End Mills, Long Series	For profile milling	DIN 844	2.0~50.0mm	
6020 6021 6022	Ball Nose End Mills	Milling keyways and slots to size in one cut. Designed for plunging operations. Produces a radius at the bottom of the cut.	DIN 327	2.0~50.0mm	
6030 6031 6032	Ball Nose End Mills, Long Series	Milling keyways and slots to size in one cut. Designed for plunging operations. Produces a radius at the bottom of the cut.	DIN 844	2.0~50.0mm	
6024 6025 6026	Multi Flute Ball Nose End Mills, Long Series, Flat Shank	Milling keyways and slots to size in one cut. Designed for plunging operations. Produces a radius at the bottom of the cut.	DIN 844	2.0~50.0mm	
6100	End Mills, Taper Shank	For profile milling	DIN 844 ISO 1641	6.0~50.0mm	
6044 6045 6046	Roughing End Mills, Coarse Pitch	Maximum stock removal at high feed retes in profiling application.	DIN 844	2.0~50.0mm	
6054 6055 6056	Roughing End Mills, Coarse Pitch, Long Series	Maximum stock removal at high feed retes in profiling application.	DIN 844	2.0~50.0mm	
6040 6041 6042	Roughing End Mills, Fine Pitch	Maximum stock removal at high feed retes in profiling application.	DIN 844	2.0~50.0mm	
6050 6051 6052	Roughing End Mills, Fine Pitch, Long Series	Maximum stock removal at high feed retes in profiling application.	DIN 844	2.0~50.0mm	
6052	Roughing End Mills, Threaded Shank	Maximum stock removal at high feed retes in profiling application.	BS 122	2.0~50.0mm	

* End Mill can suppily 3 type shank	(Flatted Shank,	Round Shank,	Thread Shank)
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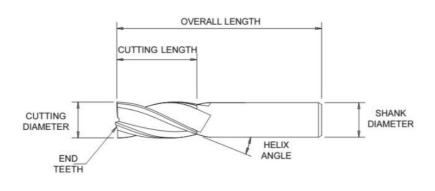


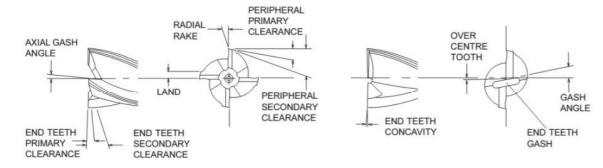
SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
6023	2 Flute Ball Nose Roughing End Mills, Flat Shank	Maximum stock removal at high feed retes in profiling application. Produces a radius at the bottom of the cut.	DIN844	2.0~50.0mm
6100	Double End, End Mills	For profile milling, double end, center cutting.	ANSI	2.0~50.0mm 1/8"~1"
6110	Double End, Ball Nose, End Mills	Designed for plunging operations. Produces a radius at the bottom of the cut.	ANSI	2.0~50.0mm
6200	HSS Spot Weld Miller with Hex Shank	Fully ground, suitable for thin steel sheet, stainless steel sheet and aluminum sheet.	Works Standard	3/8" 10mm
6300	T-Slot Cutter, Threaded Shank	For opening out the bottom of previously milled slot to form a T-slot.	ISO3337 DIN851	5~36mm 1/4"~1"
6301	T-Slot Cutter, Flat Shank	For opening out the bottom of previously milled slot to form a T-slot.	DIN851	5~36mm 1/4"~1.1/2"
6310	Roughing T-Slot Cutter, Flat Shank	For opening out the bottom of previously milled slot to form a T-slot.	ANSI	1/2"~1.1/2"
6320	Long Shank T-Slot Cutter	For opening out the bottom of previously milled slot to form a T-slot.	ANSI	1"~2.1/2"
6333	Corner Rounding End Mills, Threaded Shank	To produce a true radius up to a quarter of a circle application.	DIN6518	1.0~20.0mm
6332	Corner Rounding End Mills, Flat Shank	To produce a true radius up to a quarter of a circle application.	DIN6518	1/32"~1"
6331	Corner Rounding End Mills, Plain Shank	To produce a true radius up to a quarter of a circle application.	DIN6518	1.0~20.0mm
6341	Dovetail Cutters	To produce dovetail slides for machine tool tables, jigs and fixtures.	DIN1833 ANSI	13~32mm 3/8"~2.1/4"
6343	Dovetail Cutters, Threaded Shank	To produce dovetail slides for machine tool tables, jigs and fixtures.	DIN1833 ISO3859 ANSI	13~38mm 1/2"~1.1/2"



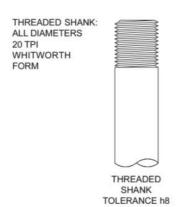


SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
6450	Side & Face Cutters, Straight Tooth	General purpose use, extends tool life, used for aggressive machining of steels.	BS122	50.0~100.0mm 2"~10"
6460	Side & Face Cutters, Staggered Tooth	General purpose use, extends tool life, used for aggressive machining of steels.	DIN855A	50.0~100.0mm 2.1/2"~10"
6470	Side & Face Cutters, Staggered Tooth	General purpose use, extends tool life, used for aggressive machining of steels.	DIN855A	50.0~100.0mn 2.1/2"~10"
6500	Plain Mills, Right Hand Helix	For heavier cuts and slad milling, Heavy duty.	DIN844 BS122	50.0~100.0mr 2.1/4"~4.1/2"
6501	Shell End Mills	General purpose, manufactured from High Speed Steel.	BS122 DIN1880	40.0~160.0mr 1.1/4"~6"
6511	Shell Roughing End Mills	High performance applications, extremely hard wear resistant, used for very aggressive machining of stainless steel and nonferrous material, provides increase of 35% to 50% in machining speeds.	BS122 DIN1880	40.0~160.0mr 2"~6"

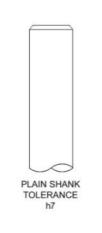












40				
SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
T7100	Carbide Inserts, TPG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of steel	ANSI C2/C5/C6/TiN	221~431 I.C.1/4~I.C.1/2
T7101	Carbide Inserts, TPU Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of steel	ANSI C2/C5/C6/TiN	212~544 I.C.1/4~I.C.5/8
T7102	Carbide Inserts, TCMT Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of steel	ANSI C2/C5/C6/TiN	21.51 32.51 32.52
T7103	Carbide Inserts, TNMG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of steel	ANSI C2/C5/C6/TiN	222~666 I.C.1/4~I.C.3/4
T7104	Carbide Inserts, TNMA Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of steel	ANSI C2/C5/C6/TiN	322~544 1.C.3/8~1.C.5/8
T7105	Carbide Inserts, CCMT Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	21.51 32.51 32.52
T7106	Carbide Inserts, CNMG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	431 432 433
T7107	Carbide Inserts, DNMG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	432 442
T7108	Carbide Inserts, DCMT Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	21.51 32.51 32.52
T7109	Carbide Inserts, DNMA Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	431 432 433
T7110	Carbide Inserts, WNMG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	431 432 433
T7111	Carbide Inserts, SNMG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	431 432 433
T7112	Carbide Inserts, SCMT Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	32.51 32.52



SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
M7200	Carbide Inserts,SPG Series	This Carbide inserts fit our indexable turning tool, medium to rough turning of cast iron, non-ferrous and all kinds of	ANSI C2/C5/C6/TiN	321~634 I.C.3/8~I.C.3/4
M7210	Carbide Milling Inserts, APKT series	CVD or PVD coated carbide,For Milling Cast Iron,Steel and Stainless Steel	ISO	1604
M7211	Carbide Milling Inserts, SEKT series	CVD or PVD coated carbide,For Milling Cast Iron,Steel and Stainless Steel	ISO	12T3
M7212	Carbide Milling Inserts, SEKN series	CVD or PVD coated carbide,For Milling Cast Iron,Steel and Stainless Steel	ISO	1203 1204 1504
TH7213	Carbide Threading Inserts	This Carbide inserts fit our indexable Threading tool	ISO	I.C.3.97~I.C.15.87 5mm
P7400	Carbide Parting Inserts	CVD or PVD coated carbide,For parting	ISO	16~25mm
G7500	Carbide Grooving Inserts	CVD or PVD coated carbide,For Grooving	ISO	16~32mm

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Symbol		hape								A	:	7							
Н	120°H			1						4		1 H							
0	135°O			-					1	-		7							
P	108°Pe		n	-				2700	B(	+/-)	IC (	+/-)	T (-	+/-)					, who
S	90°Squ			1				Class	ANSI	ISO	ANSI	ISO	ANSI	ISO	Symbol	Hole	Hole Shape	Inserts	Shape
C	60°Tria			1.					(in)	(mm)	(in)	(mm)	(in)	(mm)	Symbol	Tiolo	noie Snape	Chipbreake	Shape
D	55°Rh			1 [		D-1-4		Α	.0002	.005	.001	.025	.001	.025	N			No	
E	75°Rh			1 [	Symbol	Kellet	Angle	В	.0002	.005	.001	.025	.005	.13	R	No	-	One Side	
F	50°Rh			1 1	A	3°_	-	C	.0005	.013	.001	.025	.001	.025	F			Two Sides	-
M	86°Par		oram	1 1	В	5°_		D	.0005	.013	.001	.025	.005	.13	A			No	
٧	35°Rh	-		1 1		-		E	.001	.025	.001	.025	.001	.025	M		With Hole	One Side	
w	80°Trig	-		1 I	C	7°_	-	F	.0002	.005	.0005	.013	.001	.025	G		With Hole and	Two Sides	- months -
L	90°Red		в	1 1	D	15°_	_	G	.001	.025	.001	.025	.005	.13	W		One Countersink	140	
Α	85°Par	_		1 H	-			Н	.0005	.013	.0005	.013	.001	.025	T	1450-11-1-	40*~60* With Hole and	One Side	The second secon
В	82°Par			1 1	E	20°_	4	J*	.0002	.005	.002006	.0515	.001	.025		with Hole	I WO Countersine	No	
K	55°Par			1 I	F	25°	+	K*	.0005	.013	.002006	.0515	.001	.025	U B		40°-60° With Hole and	Two Sides	
R	Round			] [	G	30°		F.	.001	.025	.002006	.0515	.001	.025	н		One Countersini	(	
Show	n angle :	stands	for	1		1000		N°	.003008	.0820	.002006	.0515	.005	.13	C		70*~90* With Hole and	One Side	
acute	angle fo	or rhom	bic	1 1	N	0°-	-	U*	.005015	.1338	.003010	.0825	.005	.13	J		Two Countersink	Two Sides	
and p	arallelog	gram ins	serts.	1	Р	11°_	_	0	Tolerance						X		70*~90*	1 WO Sides	b Maria Maria
1	Shape	Sumb	hol	1 1	2 Dali		Symbol			Tolera	-	the state of the s	e or the erse	OI L	^	(3)	Hole / Chip	brooko	r Symbol
	Snape	Syllik	JUI	, ,	C TYUN	oi Ailyie	Syllibul		- 4	TOIGIA	nue Sy	IIIDUI				9	noie / Chip	/UI Gake	i Symbol
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		:)		① C			2 N									+			PS
	(metric	SI		C			N		3 M		(d)			5 4	<b>3</b>		2		PS
	(metric	SI		① C					3		4			5	6				<b>PS</b> 8
	(metric	SI		<b>C</b>			N		3 M 3		(4)			<b>4</b>	6 6		2		PS
	(metric	SI		<b>C</b>	pol		<b>N</b>	(\$)I.C.	③  Size		(4) (6) Thi	lickness	s Symbo	5 5 0	6 6 6	Corner	<b>2</b> (7) -R(rε) Sym	bol	PS ®
	(metric	SI	ength (ISO)	<b>C</b>	pol		N ②		③  Size		(a) (b) (c) (d) (e) (f) (iso)		( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	5 1 5 5 1	6 6 7 150	Corner	②	bol	PS  ®  @ Manufacturef  Hand Symt
	(metric	SI		<b>C</b>	pol Pol		<b>N</b>	(\$)I.C.	③  Size	Thick (mr	④  G  ⑥Thi ISO ness s		s Symbo	5 1 5 5 1	6 6 6	Corner	2 T-R(re) Sym	bol VSI	B ® (  ® Marrufacturer  Hand Symt Chipbreak
A	(metric	SI	(ISO)	①		16	N ②	⑤I.C. (AN	③  Size  SI)		(a) (b) Thi ISO ness syn)	-	s Symbol At Thickness	5 5 0 NSI	6  3 6 Corner-R	Corner-) Symb	2 TR(re) Sym	bol VSI	®       Manufacturer      Hand Symbol, es      Symbol, es
<b>A</b>	(inch)	SI	(ISO)	O O O O			I.C. Size (mm)	⑤I.C. (AN IC Size (inch)	③ Size (ISI) Symbol	(mr	(4) (B) Thi ISO ness syn syn syn syn syn syn syn syn syn s	mbol <sup>1</sup>	s Symbol An Thickness (inch)	5 5 5 symbol	6  3 6  7 ISC Corner-R (re:mm)	Corner-) Symb	Participation (re:inch)	bol NSI R Sym	8 (§ Manufacturer Hand Symbol, e Symbol, e
A 03 04	(inch)	SI	(ISO) s 	Symbol O6 O8	4		2 I.C. Size (mm)	\$1.C (AN IC Size (inch) 5/32 3/16	③ Size (SI) Symbol 1.2 1.5	(mr	(4) (6)Thi ISO ness Sy	mbol <sup>1</sup>	s Symbol An Thickness (inch) 1/16	5 5 symbol 1(2)	(rc:mm) Sharp Come	Corner-D Symbor 00	Participation (re:inch)	bol NSI R Sym	(B)Manufacturer Hand Symbol, e
A	(inch)	SI Redge L	(ISO)   S   III	Symbol On One One One One One One One One One	4	03	1.C. Size (mm) 3.97 4.76 5 5.56	©I.C (AN IC Size (inch)	③ Size ISI) Symbol 1.2	(mr 1.5 2.3	(a) (a) (b) (c) (c) (d) (d) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	/mbol <sup>1</sup>	S Symbol AN Thickness (inch) 1/16 3/32	5) 5) 100 NSI Symbol 1(2) 1.5(3)	6 G G G G G G G G G G G G G G G G G G G	Corner-D Symbor 00 003	2 	bol NSI R Sym	(B)Manufacturer Hand Symb Chipbreak Symbol, e
03 04 05	(inch) (inch) (inch) (inch) (inch)	SI Edge L	03 04 05	© (1) Symbol (2) 06 08 09	08	03	2 I.C. Size (mm) 3.97 4.76 5.56 6	(\$I.C. (AN) IC Size (inch) 5/32 3/16 7/32	(3) (3) (3) (Size (SI)) (Symbol 1.2 (1.5) (1.8)	1.5 2.3 2.7	(§Thirtisoness syn) (99 (98 (88 (88 (88 (88 (88 (88 (88 (88	/mbol <sup>1</sup> 01 02 T2	s Symbol An Thickness (inch) 1/16 3/32	5) 5) 100 NSI 1(2) 1.5(3) -	(E:mm)  Sharp Come  0.03  0.1	Symbor 00 003 01	PR(re) Symmologic (re:inch old on one)	bol NSI R Sym 00 0.	(a)
A C C C C C C C C C C C C C C C C C C C	(inch)	SI Redge L	(ISO) s 	Symbol O6 O8	4		1.C. Size (mm) 3.97 4.76 5 5.56	\$1.C. (AN IC Size (inch) 5/32 3/16 7/32	③ Size (SI) Symbol 1.2 1.5 1.8	(mr 1.5 2.3 2.7 3.1 3.9 4.7	(6) Thi ISO (6) 188 188 188 187 166 187 166	ymbol <sup>1</sup> 01 02 T2 03 T3 04	S Symbo AN Thickness (inch) 1/16 3/32 - 1/8 5/32 3/16	5) Symbol 1(2) 1.5(3) - 2 2.5 3	(6) (8) (9) (1SC Corner-R (re:mm) (0.03 (0.1) (0.2) (0.4) (0.8)	Symbor 00 01 02 04 08	2 (πε) Sym Al Corner-(rεinch) (πείnch)	bool NSI R Symm On O. O. 11 22	RS  (a)  (a)  (a)  (b)  (b)  (c)  (c)  (d)  (d)  (d)  (d)  (e)  (e)  (e)  (e
03 04 05 06 08	(metric (metri	( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	03 04 05 06 07	① Symbol Symbol 06 08 09 11 13	08	03 04 05	2 I.C. Size (mm) 3.97 4.76 5 5.56 6 6.35	(\$I.C. (AN) IC Size (inch) 5/32 3/16 7/32	(3) (3) (3) (Size (SI)) (Symbol 1.2 (1.5) (1.8)	(mr 1.5 2.3 2.7 3.1 3.9 4.7 5.5	(6) Thinks Sylvest Syl	01 02 T2 03 T3 04 05	s Symbol AN Thickness (inch) 1/16 3/32 - 1/8 5/32 3/16 7/32	5)  ol	(E) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	Symbor 00 003 01 02 04 08 12	(r.cinch) .001 .004 .008 .1/32 .3/64	bol NSI R Symm Of O. O. O. O. 1. 2. 3.	(a)
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03 04 05 06 08 09	(metric (metri	© SI (Control of the control of the	03 04 05 06 07 09 12 15	① Symt  06 08 09 11 13 16 22 27	08 11 16 22 27	03 04 05 06	3.97 4.76 5.56 6.35 7.94 8 9.525 10 12. 12. 11. 15.875 16 19.05 20	\$1.C (AN IC Size (inch) 5/32 3/16 7/32 1/4 5/16 3/8 3/4	3 Size (SI) Symbol 1.2 1.5 1.8 2 2.5 3	(mr 1.5 2.3 2.7 3.1 3.9 4.7 5.5 6.3 7.9 9.5	(8) Third ISO (150 ) Sylver (1	/mbol 1 01 02 T2 03 T3 04 05 06 07 09	S Symbo An Thickness (inch) 1/16 3/32 - 1/8 5/32 3/16 7/32 1/4 5/16	5)  oil	(t::mm)  Sharp Common 0.03  0.1  0.2  0.4  0.8  1.2  1.6  2.0  2.4  2.8  3.2	Symbol   S	PR(rE) Symm Althorough Corner-Incompanies (re:inch) .0001 .0004 .008 1/64 1/32 3/644 1/16 5/644 3/32 7/644 1/18 Round Inc	Double	(a)

Expressed as edge length for ISO.
 ANSI expresses the inscribed circle diameter in inches.



**BLADE SAWS** 

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
M7290	Carbide Indexable End Mills	For Milling	ANSI	1",2",3"
M7291	Carbide Indexable Facing Mills	For Milling	ANSI	"2"",2-1/2" "3"",4"",5""
M7292	R8 Shank Face Milling Cutter	For Milling	ANSI	1",1~1/2",2"
T7190	Indexable Countersink	A conical hole cut into a manufactured objectOr the cutter used to cut such a	ANSI	"1/4""~3/4" "1/2""~1.3/4" "1.1/4""~2.1/2"
T7191	Indexable Turning Tool	For turning	Works Standard	1/4",3/8",1/2"
B7690	Indexable Boring Bars	For boring	ANSI	3/8",1/2",1"
D7790	Indexable Drills	For Drilling, with SPMG Inserts	ISO	1/2"~2"

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
8000	Plain Metal HSS Slitting Saws	Used for medium, deep cutting, and cut off operations, type A tooth.	DIN1837A	1.1/4""~12" "30~300mm
8001	Slitting Saws - HSS Co 8%	For processing the high precision products, such as the accessories of the car, type B tooth.	DIN1840	1.1/4"~12"
8010	Carbide Tipped Slitting Saws	For Stainless Steel, Non-Ferrous, Cast Iron, Steel	ANSI	3"~16"
8020	Screw Slotting Saws - HSS	For Slotting screw heads and shallow cuts	ANSI	1.3/4"~3"
8030	Jewelers Saws - HSS	For processing Jewelry	ANSI	1~2"
8040	Plain Solid Carbide Slitting Saw	For processing the steel and stainless steel	ANSI	1/4"~6"





SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
8300	Square Tool Bits HSS/HSS-E	Tool bits for turning ,square section	ISO5421 DIN4964 ANSI	3~40mm 1/8~1.1/2"
8310	Round Tool Bits HSS/HSS-E	Tool bits for turning ,circular section	ISO5421 DIN4964 ANSI	3~32mm 1/8~1"
8320	Rectangular Tool Bits HSS/HSS-E	Tool bits for turning ,trapezoidal section	ISO5421 DIN4964 ANSI	2~16mm 3/32~1"
8330	Double Bevel Parting Blades HSS/HSS-E	For parting off and slotting applications ,with increased wear resistance	ISO5421 DIN4964 ANSI	2~6mm 1/16~1/2"
8340	"P" Type Cut-Off Blades HSS/HSS-E	Produces a chip narrower than the blades itself and is suited for cutting off ,grooving .Increase clearance angles on each size of the blades ,reduce friction	ANSI Standard Long Extra long	0.04"~5/16"
8400	Carbide Tipped Tool Bits	Different style was suited for different machining applications, such as turning, boring, facing and chamfering and other miscellaneous machining operations.	DIN4971/72/7 3/75/76/77/78/ 80/81 ,DIN282 ,DIN283 ,DIN263 , ISO1/2/3/4/5/6 /7/8/10/11/12/ 13, ANSI	8~32mm 1/32~1"





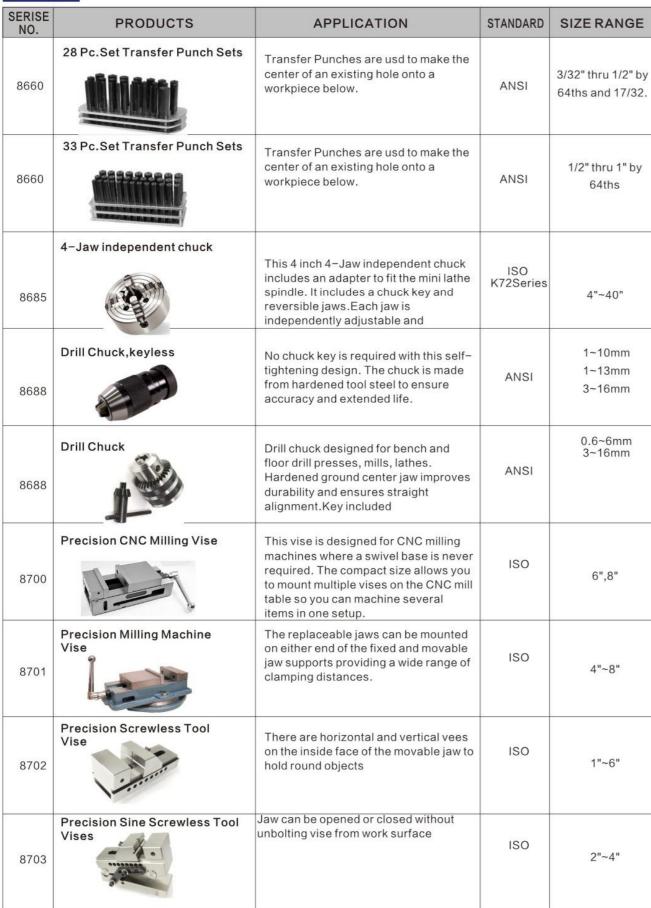
**MACHINE TOOLS ACCESORIES** 

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
8601	Wedge Type Quick Change Tool Post	It can finish the processes of lathing external circle,lathing sections, cutting, rolling, drilling, counterboring, boring, milling, reaming etc.	ANSI	251-111 251-222 251-333
8602	OXA MINI Wedge Type Quick Change Tool Post 6-9"	It can finish the processes of lathing external circle, lathing sections, cutting, rolling, drilling, counterboring, boring, milling, reaming etc.	ANSI	251-000 6~9
8610	40 POSITION QUICK CHANGE TOOL POST	It can finish the processes of lathing external circle, lathing sections, cutting, rolling, drilling, counterboring, boring, milling, reaming etc.	European style	A0 A1 E5 B2 C3 D1
8620	Round Permanent Magnetic Chuck	Including standard pole and fine pole	ANSI	4"~12"
8630	Rectangular Permanent Magnetic Chuck	Including standard pole and fine pole	ANSI	4"~12"
8640	Flange Nut	The nuts are the correct size for many mill drills	ANSI	5/16"~1"
8641	T-Slot Nut	The nuts are the correct size for many mill drills	ANSI	1/4"~1.1/4"
8649	58 PC Clamping Sets	This clamping kit fits on many mill/drills.	ANSI	5/16"~5/8"
8650	Rotary Tables	This horizontal / vertical rotary table is for indexing, circular cutting, angle setting, boring, and spot facing operations	ANSI	6",8",10"

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
8670	Plain Angle Plate with webs	Ground finish – square and parallel within 0.0005"" per 6"". Machined finish – square and parallel within 0.002"	ANSI	2"~12"
8670	Open End slotted angle plate	Ground finish – square and parallel within 0.0005"" per 6"" · Machined finish – square and parallel within 0.002"	ANSI	4"~12"
8670	Webbed & slotted angle plate	Ground finish – square and parallel within 0.0005"" per 6"". Machined finish – square and parallel within 0.002"	ANSI	4"~12"
8670	Universal Right Angle	Useful for clamping work in multiple positions/deal for squaring operations"	ANSI	3"~8"
8670	Precision Angle Plate	Solid one-piece steel constructionGround flat, square and parallel to .0002"	ANSI	3"~4"
8680	Thread Back Plate/Chuck Adapter	For Plain Back Lath Chucks	ANSI	4"~8"
8685	3-Jaw self-centering lathe	This 3 inch 3–Jaw self–centering lathe chuck is the one that comes on the mini lathe. It includes a chuck key, inside and outside jaws, and mounting bolts.	ANSI	4"~40"
8655		The main level vial is graduated to 10 second accuracy. The body of the level is nade of cast iron and hand scraped	ANSI	6",8"







SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
870	Tilting Table	Perfect for setting work at any angle during milling or other operations	ISO	5x7"
8705	Power Feed	X,Y,Z-AxisFits many popular mills Automatic shut-off at end of cut	ISO	X.Y.Z
8910	Steel Parallels	For measuring parallelism	ANSI	1/8"" 10PAIRS1/4"" 9PAIRS
8910	Thin Parallels	For measuring parallelism	ANSI	½"" 10PAIRS1/2"" 20PAIRS
8920	Block	They are quite useful around the shop for various clamping and setup operations, particulary on the mill table	ISO	1-2-32-3-42- 4-6
8920	Steel Gage Block Set	For measuring and calibration	ANSI ISO	36PCS/SET81PC S/SET
8920	Pin Gage Set	For measuring and calibration	ANSI ISO	M0~M7

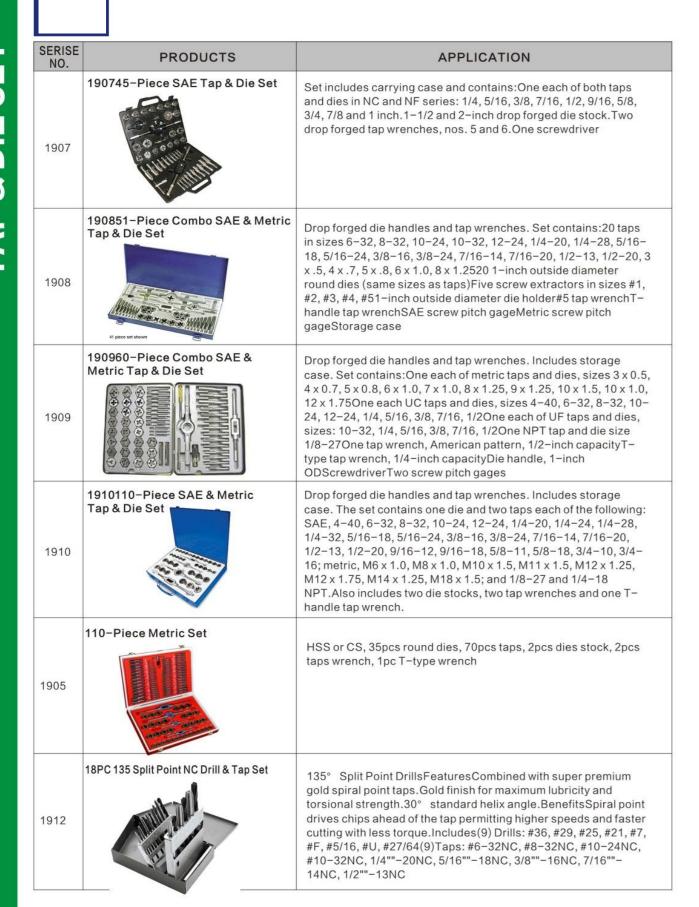


SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZE RANGE
8800	Electronic Digital Caliper	Used to measure the distance between two opposite sides of an object	ISO	150~300mm
8801	Vernier Caliper	Used to measure the distance between two opposite sides of an object	ISO	70~1000mm
8802	Dial Caliper	Used to measure the distance between two opposite sides of an object	ISO	6"~12"
8830	Outside Micrometer	Typically used to measure wires, spheres, shafts and blocks	ISO	1"~12"
8840	Inside Micrometer	Used to measure the diameter of holes.	ISO	0.2"~12"
8810	Dial Indicator	Used to accurately measure small distances and angles	ISO	0.05"~2"
8811	Digital Indicator	Used to accurately measure small distances and angles	ISO	0.5"~2"
8820	Dial Test Indicator, Interapid Style	Used to accurately measure small distances and angles	ISO	0.008"~0.03"
8850	Dial Bore Gage	Measures a bore directly	ISO	0.24""~0.4" "10""~16"

SERISE NO.	PRODUCTS	APPLICATION	STANDARD	SIZERANGE
8860	Co-Ax Indicator (Center indicator)	Use this indicator to quickly center work pieces or fixtures on your mill The indicator remains stationary while the spindle rotatesCan be used to center internal and external diameters	ISO	0-3mm
8870	4pc/set Combination Square set	Used for multiple purposes in woodWorks, stonemasonry and metalworkin	ISO	12" 300mm 500mm
8880	Squares	Squares have accurate right angles both inside and outside	ISO	"12""~24""300~6 00mm" 60KGS
8890	Height Gages	Measuring the height	ISO	"12""~24""300~ 600mm"
8900	Magnetic Base	A magnetic fixture based on a magnet that can effectively be turned "on" and "off" at will; they are often used in optics and metalWorks, e.g., to hold a dial indicator	ANSI	60KGS 80KGS
8900	Mini Magnetic Stand	Used in optics and metalWorks, e.g., to hold a dial indicator	ANSI	1"
8900	Precision DIAL Z-AXIS SETTER	Set zero point quickly with built-in indicator	ANSI	2" & 4"



SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE
1901	14-Piece Spiral Point Tap and Drill Sets, DIN371/DIN376	HSS or CS, Taps and Drills, Spiral Point.	M3-M12, 2.5MM-10.2MM
1902	14-Piece Spiral fluted Tap and Drill Sets DIN371/DIN376	HSS or CS, Taps and Drills,Spiral fluted.	M3-M12, 2.5MM-10.2MM
1903	14-Piece Spiral Fluted Tap and Spiral Point tap Set, DIN371/DIN376	HSS or CS, Spiral fluted taps & Spiral point taps	M3-M12
1904	28-Piece Metric Sets, DIN352	HSS or CS, 21pcs taps, 7pcs drills	M3-M12
1906	190640-Piece Tap & Die Set	Set comes in plastic carrying case and contains: One each of taps hex dies, sizes 4–40, 6–32, 8–32, 10–24, 10–32, 12–24, 1/4–20, 1/4–28, 5/16–18, 5/16–24, 3/8–16, 3/8–24, 7/16–14, 7/16–20, 1/2–13, 1/2–20 and 1/8–inch pipe tapOne T–handle tap wrench, Long handle adjustable tap wrench Die handle, ScrewdriverScrew pitch gage	
1911	39-Piece Whitworth Tap & Die Set	High carbon steel set comes in a plastic case following: Tap and die sizes 4–40, 6–32, 8–3 24, 1/4–20, 1/4–26, 5/16–18, 5/16–22, 3/8–7/16–18, 1/2–12, 1/2–16 (BSW) and 1/8–28 tap wrench, T–type tap wrench and screwdri	12, 10-24, 10-32, 12- 16, 3/8-20, 7/16-14, (BSP). Also die holder,



SERISE NO.	PRODUCTS	APPLICATIO	N	
1913	18PC 135 Split Point Metrc Drill & Tap Set	135° Split Point DrillsFeaturesCombined with super premium gold spiral point taps.Gold finish for maximum lubricity and torsional strength.30° standard helix angle.BenefitsSpiral point drives chips ahead of the tap permitting higher speeds and faster cutting with less torque.Includes(9) Drills: 2.05mm, 2.50mm, 2.90mm, 3.30mm, 4.20mm, 5.00mm, 6.7mm, 8.5mm, 10.2mm(9) Taps: M2.5 x 0.45, M3.0 x 0.5, M3.5 x 0.6, M4.0 x 0.7, M5.0 x 0.8, M6.0 x 1.0, M8.0 x 1.25, M10 x 1.5, M12 x 1.75		
1914	18PC 135 Split Point NF Drill & Tap Set	135° Split Point DrillsFeaturesCombined with super premium gold spiral point taps.Gold finish for maximum lubricity and torsional strength.30° standard helix angle.BenefitsSpiral point drives chips ahead of the tap permitting higher speeds and faster cutting with less torque.Includes(9) Drills: #33, #29, #25, #21, #3, #1, #Q, #25/64, #29/64(9) Taps: #6-40NF, #8-36NF, #10-24NF, #10-32NF, 1/4""-28NF, 5/16""-24NF, 3/8""-24NF, 7/16""-20NF, 1/2""-20NF		
1915	6-Piece NPT Tap & Die Set	High quality carbon steel. Sizes are all NPT Die Size: 1/4–18 x 1–1/2" OD; 3/8–18 x 1–1/2" OD; 1/2–14 x 2" OD Tap Size: 1/4–18, 3/8–18, 1/2–14		
1916	54Pcs Master Thread Repair Kit	Repair damaged or stripped threads with ease.		
1917	UNC Master Thread Repair Kit	Repair damaged or stripped threads with ease. Five UNC sizes. Each size also includes installation abd punch tools, high speed drill bit, high speed STI tap, inserts, and hex key. Includes carrying case. 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13		
1918	5-Plece Screw Extractor Set	Includes storage case.	#1~#5 3/16"~3/4"	
1919	8-Piece Screw Extractor Set	Includes plastic case.	#1~#8	



SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE
5901	13-Piece HSS Jobber Drill Set	High speed steel. Includes plastic case or storage box.	1/16"~1/4" x 64ths 1.5~6.5 x 0.5mm
5902	29-Piece HSS Jobber Drill Sets	High speed steel. Black finished, Includes box.	1/16"~1/2" x 64ths 1.0~13.0 x 0.5mm
5903	29-Piece HSS Jobber Drill Set	High speed steel. Bright finished, Includes box.	1/16"~1/2" x 64ths 1.0~13.0 x 0.5mm
5904	21-Piece TiN Coated Fractional Jobber Set	High speed steel, gold titanium nitride (TiN) coated. Includes storage box.	1/16"~3/8" x 64ths
5905	29-Piece HSS Co Jobber Drill Set	HSS-E material. Includes storage box.	1/16"~1/2" x 64ths 1.0~13.0 x 0.5mm
5906	29-Piece TiN Coated Jobber Set	HSS, gold titanium nitride (TiN) coated. Includes storage box.	1/16"~1/2" x 64ths 1.0~13.0 x 0.5mm

SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE	
5907	29-Piece TiN Coated Fractional Jobber Set	High speed steel, gold titanium nitride (TiN) coated. Includes storage box. Note: Shanks are the same diameter as the drill up to 3/8 inch. Sizes greater than 3/8 inch have 3/8–inch shanks. Use with 3/8–inch drill chucks	1/16"~1/2" x 64ths	
5908	29-Piece Cobalt Fractional Split Point Jobber Set	M42 cobalt, split point. Includes box.	1/16"~1/2" x 64ths 1.0~13.0 x 0.5mm	
5909	25-piece High Speed Metric Jobber Drill Set	Shop grade high speed steel; 25– piece set with metal box.	1~13 mm x 0.5 mm	
5910	115-Piece HSS Jobber Drill Set	High speed steel, shop grade. Includes metal storage box. Fractional, letter and number sizes.	A~Z; 1~60; 1/16"~1/2" x 64ths	
5911	115-Piece Gold TiN Coated Jobber Drill Set	High speed steel, titanium nitride (TiN) coated. Includes plastic storage box. Fractional, letter and number sizes.	A~Z; 1~60; 1/16"~1/2" x 64ths	
5912	HSS Letter Size Jobber Drill Set	High speed steel, jobber length, in standard letter sizes. Includes metal storage box.	A~Z	









SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE
5923	Spial Flute Step Drill Set	HSS & HSS-E. Spial flute	4~30
5924	Spial Flute Step Drill Set, TiN coated	HSS & HSS-E. TiN coated.Spial flute	4~30
5925	HSS Step Drill	HSS & HSS-E. Straight flute	4~30
5926	HSS Step Drill, TiN coated.	HSS & HSS-E. TiN coated.Straight flute	4~30
5927	HSS Sheet Metal Cone Drill Bits.	HSS & HSS-E. Straight flute	3~30.5
5928	HSS Sheet Metal Cone Drill Bits.	HSS & HSS-E. Straight flute	3~30







SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE
5940	8-Piece - "Shank Drill Set	Includes wood stand.	9/16", 5/8", 11/16", 3/4", 13/16", 7/8",15/16", 1"
5941	8-Piece 1/2" Shank Larger Sizes Drill Set  Place For Reference Only Actual Product Appearance May Viey	Includes wooden stand.	1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2"
5942	8-Piece 1/2" Shank Cobalt Drill Set	Includes case.	9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
5943	5-Piece Set	Includes wood stand.	1", 1-1/8", 1-1/4", 1-3/8", 1-1/2"
5944	9-Pie	High speed steel.	½", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"









SERISE NO.	PRODUCTS	APPLICATION	SIZE RANGE
2901	7-Piece Cap Screw Counterbore Set	High speed steel. Includes wood box.	#6, #8, #10, 1/4", 5/16", 3/8", 1/2"
2902	4-Piece Morse Taper Reamer Set	High speed steel. For finishing.	Mt1, MT2, MT3, MT4
2903	29-Piece Chucking Reamer Set	High speed steel, straight shank and flute. Fractional sizes in case.	1/16"-1/2" x 64ths
3901	5-Piece Cap Screw Counterbore Set	High speed steel. Includes wood stand.	#10, 1/4", 5/16", 3/8", 1/2"
2904	11-Piece Adjustable Reamer Set	Standard sizes from A to K, covering ranginches. Includes fitted wooden box.	ge of 15/32 to 1–1/2

