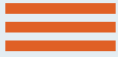




TOOLINGS AND
CUTTING TOOLS

AEROSPACE AND CNC CUTTING TOOLS



THE EFFICIENCY OF CARBIDE

At AviaGlobal Solutions we have chosen to specialise in carbide tools, recognising the superior durability, precision and performance that carbide offer.



SHARPNESS, RESISTANCE, LONGEVITY

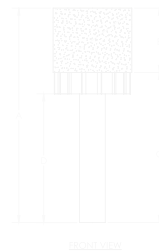
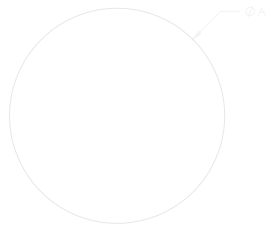
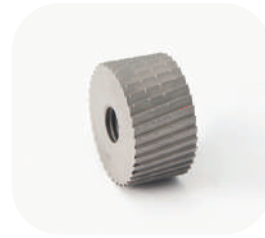
Carbide is exceptionally hard and maintains its sharpness longer than other materials which enhance the efficiency and longevity of the cutting tools.



With a resistance of HRC65, it offers high resistance to wear and heat, making it ideal for high-speed drilling operations without losing performance.

Carbide cutting tools can handle tougher materials and more demanding machining conditions, reducing the need for frequent tool replacement and downtime.





PRECISION MEETS AERONAUTIC INNOVATION

AviaGlobal Solutions is a specialized reseller of aeronautic drill bit materials and precision metal cutting tools for the manufacturing, aerospace, fabrication, and construction industries.



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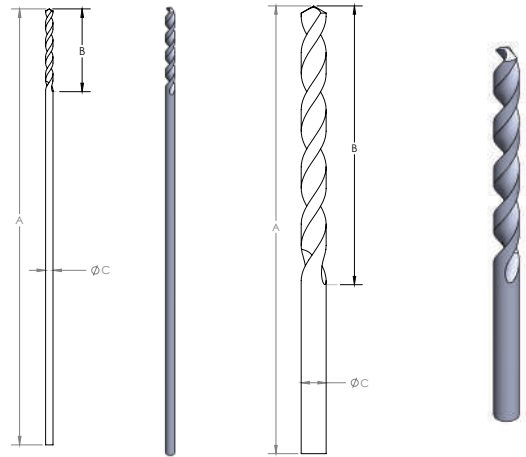
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DRILL BIT (CARBIDE)



Drill bit	A	B	C
Inch	-	-	-
millimeter	-	-	-

Tool material: Solid Carbide

Application: Drilling in Aluminum and titanium.

We specialize in customization and are here to tailor our services to meet your unique needs.

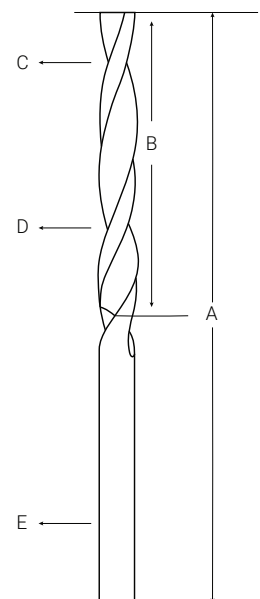
- Material Cutting
- Useful length
- Total length
- Attachment, number of flutes, helix angle, coating, etc.
- cutting heading right
- 135 degree sharpening
- 2 lips

PILOTED DRILL

Application: High dimensional and geometric drilling of metal and composite stacking. The triple flute geometry achieves a very good surface finish and very good hole accuracy with 135 degrees cutting angle.

Tool material: Solid Carbide

For material: Aluminum, Composite, and Titanium



SIZES	A	B	C	D	E
Mm	-	-	-	-	-
Inch	-	-	-	-	-
Fraction	-	-	-	-	-

& accessories

REAMER

Application: Drill bore in hard and composite materials. These reamers have a pilot for centering in the pilot hole with 135 degrees cutting angle.

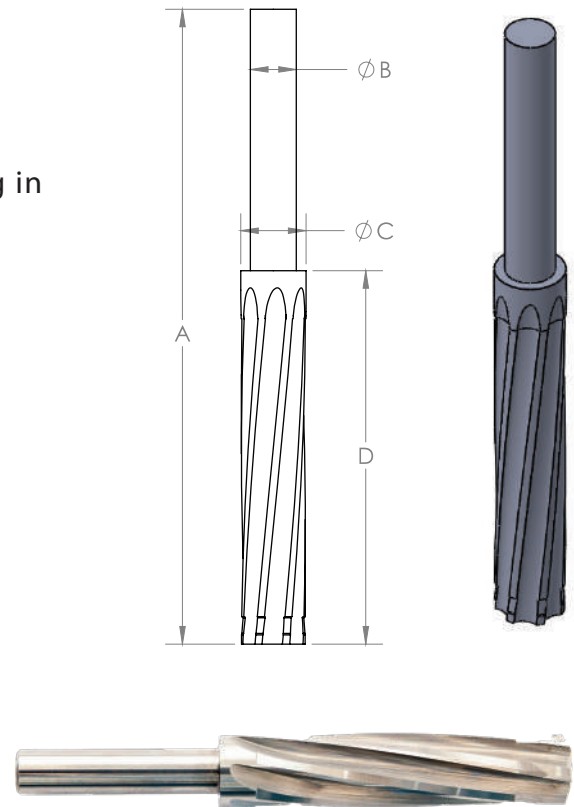
Please specify:

- The diameter of the reamer.
- The diameter of the driver and its length.

Tool material: Solid Carbide

For material: Aluminum, Composite, and Titanium

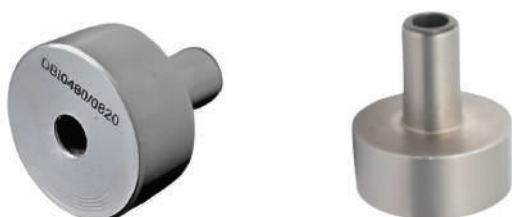
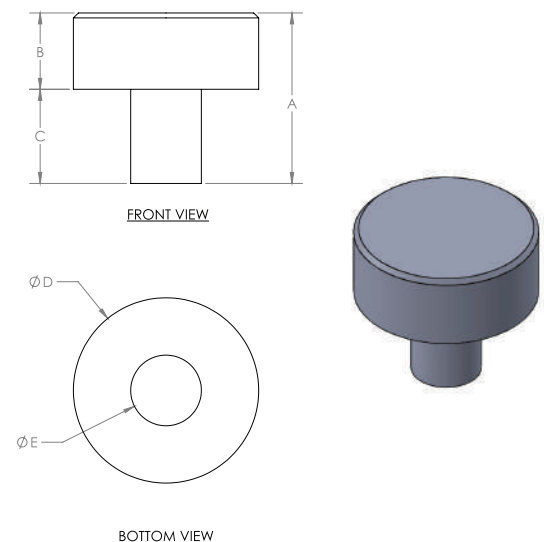
SIZES	A	B	C	D
Mm	-	-	-	-
Inch	-	-	-	-
Fraction	-	-	-	-



DRILL BUSH

Application: Pilot hole Drill Bushes are designed for guiding drills for pilot holes in; multi drilling and reaming operations. These pilot bushes can be use for standard OD and ID sizes so these pilot hole drill bushes can be used with larger inside diameter counterparts for multi-step drilling and reaming operations. Fully customisable for interference fit, clearance fit and transition fit.

Tool material: High-speed steel (heat treatment) or Solide Carbide



SIZES	A	B	C	D	E
Mm	-	-	-	-	-
Inch	-	-	-	-	-
Fraction	-	-	-	-	-

DRILL BLOCK



Application: Drill block is manufactured in a raw block, 94 x 38 x 25mm with drill bushings it is set up for airbus specific diameter (nominal, interference/clearance, or transition fit) The profile has "feet" on the bottom, permitting quick chip ejection.

Tool material: High-speed steel
(heat treatment)

SIZES	A	B	C	D	E
Mm	-	-	-	-	-
Inch	-	-	-	-	-
Fraction	-	-	-	-	-

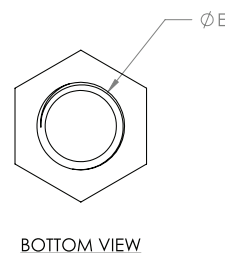
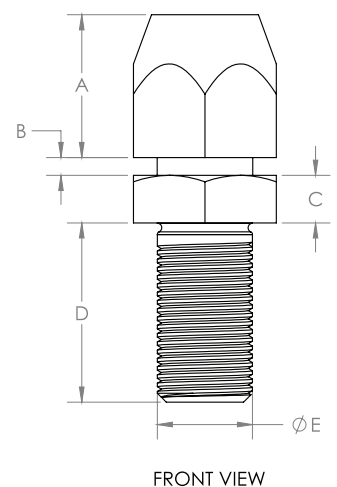
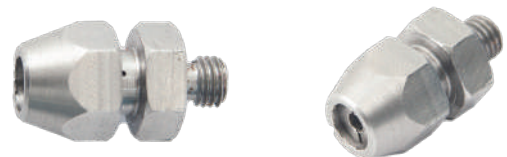
COLLET

Application: This collet is designed to adapt a straight shank drill bit to your angle drill or drilling attachment.

Highly recommend 2 threaded fits that accept all diameters of drill bit, pilot drill, or reamers 1/4 inch (6.35mm)reamers 1/4 inch (6.35mm).

1/4"-28 (US standard)
9/32 - 40 (EU standard)

Tool material: High-speed steel (heat treatment)



SIZES	A	B	C	D	E
Mm	-	-	-	-	-
Inch	-	-	-	-	-
Fraction	-	-	-	-	-

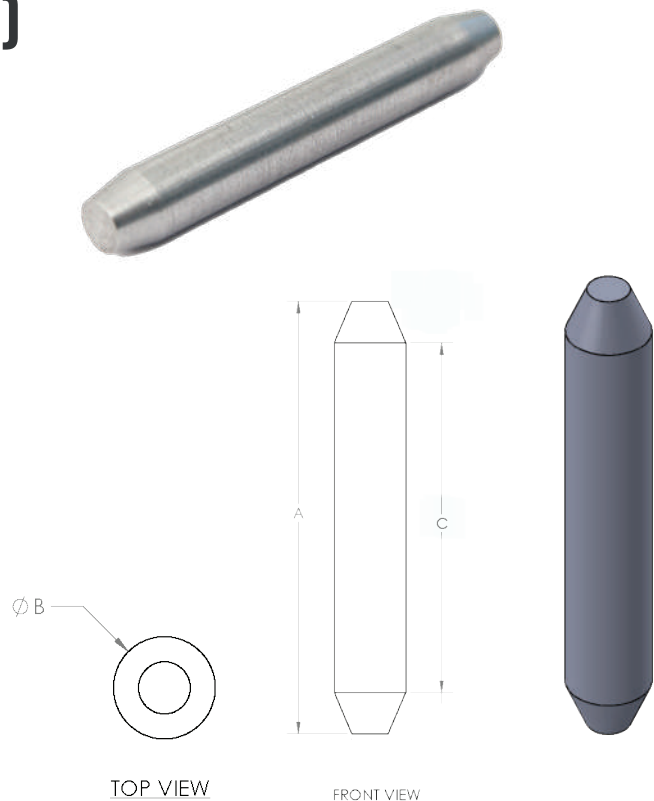
DOWEL PIN (ALUMINIUM)

Application: Dowel pins are manufactured in HSS to be used as centering pins.

They can be customized for airbus-specific diameter (nominal, interference/clearance, or transition fit).

Tool material: High-speed steel

	A	B	C
Inch	-	-	-
millimeter	-	-	-



SLAVE BOLT

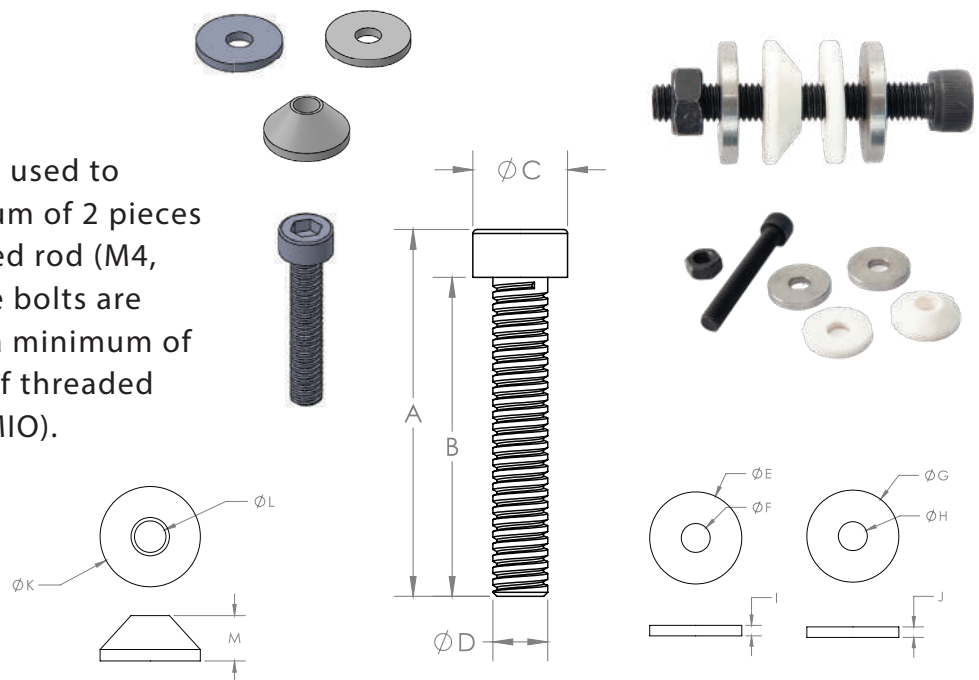
Application: Slave bolts are used to maintain strongly a minimum of 2 pieces several diameter of threaded rod (M4, M5, M6, M8, and M10). Slave bolts are used to maintain strongly a minimum of 2 pieces several diameter of threaded rod (M4, M5, M6, M8, and M10).

Slaves bolts are equipped with:

- Teflon flat or countersink washer
- aluminum flat washer

Dowel pins need to be used at the same time.

Tool material:
Steel / Teflon /
Aluminium



SIZES	A	B	C	D	E	F	G
Mm	-	-	-	-	-	-	-
Inch	-	-	-	-	-	-	-
Fraction	-	-	-	-	-	-	-

CUTTING DISK



SIZES	A	B
Mm	-	-
Inch	-	-
Fraction	-	-

Application: The rotary blade set is made from high-speed steel to provide effective and durable use. It must be used with a dedicated holder (1/4" shank). The assy (cutting disk and its holder) may be a completed stopper kit to secure your cutting operation.

Tool material: High-speed steel (heat treatment)

DEBURRING TOOL WITH ADAPTOR (CARBIDE)

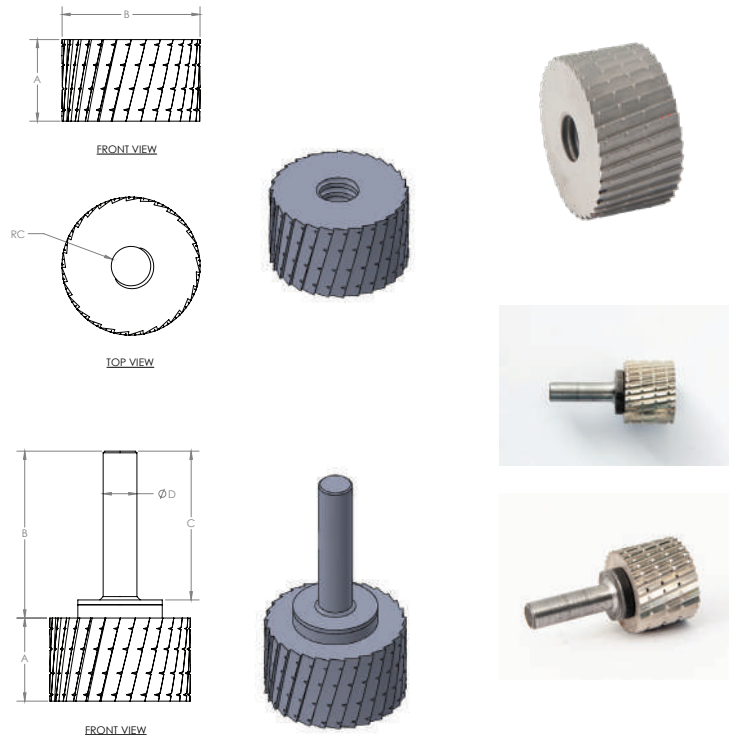
Application: Carbide rotary files are highly durable and effective for hard materials due to their exceptional hardness and resistance to wear.

The diameter can be customized to the appropriate size requested.

Tool material: Solid carbide

Deburr tool	A	B	RC
Inch	-	-	-
millimeter	-	-	-

Adaptor	C	D
Inch	-	-
millimeter	-	-

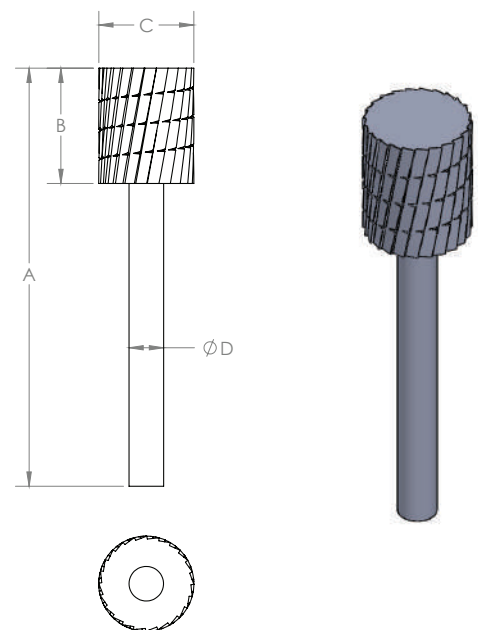


DEBURRING TOOL SMALL DIA. (CARBIDE)

Application: Rotary Files have a 1/4" (6.35mm) shank and double-cut (self-cleaning) burrs for quicker cutting speed and less chip build-up. Rotary files can also have a 5mm shank.

The diameter can be customized to the appropriate size requested.

Tool material: Solid carbide



SIZES	A	B	C	D	E
Mm	-	-	-	-	-
Inch	-	-	-	-	-
Fraction	-	-	-	-	-

BIT MULTIPLE TYPE



Screwdriver Bits: Unlock the full potential of your fastening tasks with our highquality screwdriver bits, available in many popular head types to suit a variety of applications:

Philips (Cruciform) Bits

- Slotted (Flat
- TorxBits
- And many more..

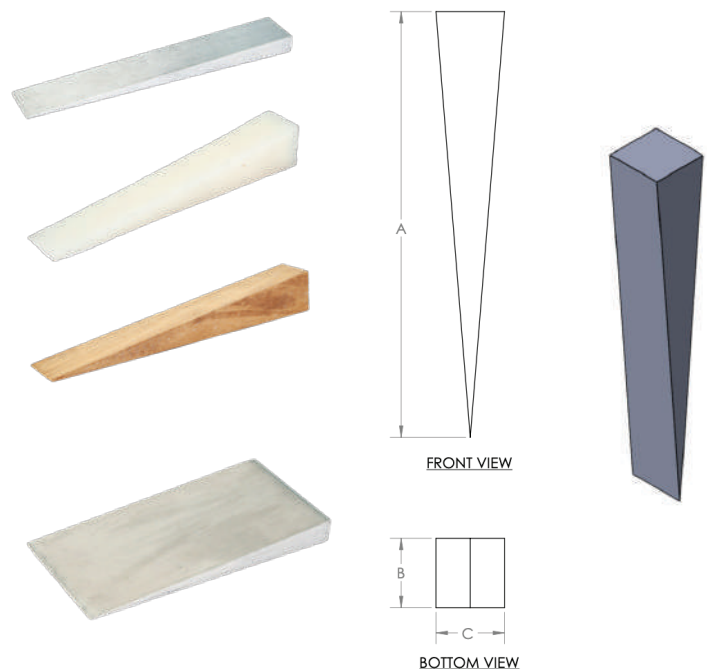
Each bit type is crafted from high-grade materials to ensure maximum durability and longevity. Our bits are suitable for both manual and power screwdrivers.

WEDGES (ALUMINIUM, NYLON, TEFLON, WOOD)

Application: Explore our versatile collection of wedges, perfect for various professional projects.

Tool material: Wood / Aluminium / Nylon / Teflon

Each wedge type is available in various sizes and shapes to suit your needs.



Length "A"	Withd "B"	Thickness "C"
-	-	-
-	-	-
-	-	-

KIT TRANSITION

Applications: This kit was defined using the expertise of several structural engineers and technicians. Due to its composition, it makes it possible to cover all drilling operations as part of an AIRBUS structure repair in Transition fit.

This kit is composed by:

- Drill bit/ Pilot drill/ Reamer appropriated to Transition fit
- Collet associated to the appropriated shanks of drilling tool
- Drill bush and drill block associated to drilling diameter
- Dowel pin and slave bolt in accordance with Transition fit



KIT INTERFERENCE

Applications: This kit was defined using the expertise of several structural engineers and technicians. Due to its composition, it makes it possible to cover all drilling operations as part of an AIRBUS structure repair in Interference fit.

This kit is composed by:

- Drill bit/Pilot drill/Reamer appropriated to Interference fit
- Collet associated to the appropriated shanks of drilling tool
- Drill bush and drill block associated to drilling diameter
- Dowel pin and slave bolt in accordance with Interference fit



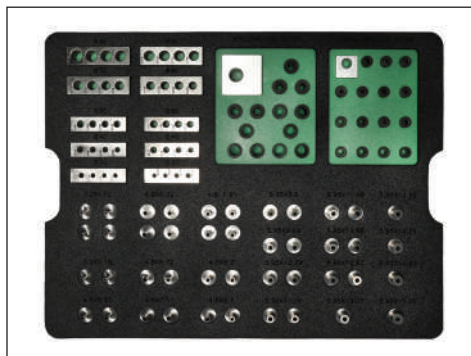
tools

KIT CLEARANCE

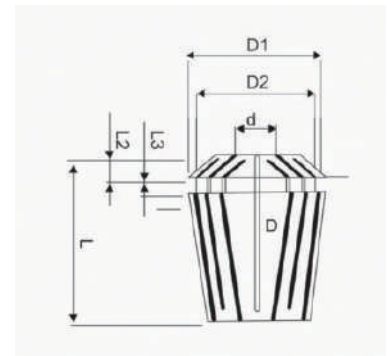
Application: This kit was defined using the expertise of several structural engineers and technicians. Due to its composition, it makes it possible to cover all drilling operations as part of an AIRBUS structure repair in Clearance fit.

This kit is composed by:

- Drill bit/Pilot drill/Reamer appropriated to Clearance fit
- Collet associated to the appropriated shanks of drilling tool
- Drill bush and drill block associated to drilling diameter
- Dowel pin and slave bolt in accordance with Clearance fit



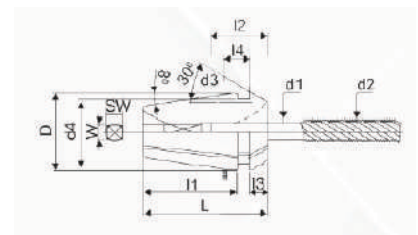
TOOLING



ER COLLETS

MODEL	DL 17	D	D1	D2	L	L1	L2	L3	COLLAPSIBLE CAPACITY
ER8	1.0-5.0	8	8.5	6.5	13.5	2.7	1.5	1.5	0.5
ER11	1.0 - 7.0	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	2.5-10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1.0-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1.0-16.0	25	23	22.0	34.0	6.66	5.0	3.1	1.0
ER32	1.0 - 20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	2.0-32.0	25	16	22	34.0	6.66	5.0	3.1	1.0

ERG TAP COLLETS



MODEL	D	D3	D4	L	L1	L3	L4	CAPACITY
ER16G	16.74	16	13.8	27.5	20.8	4.0	6.26	M3-M10
ER20G	20.74	20	17.4	31.5	23.9	4.8	6.36	M3-M17
ER25G	25.74	25	22	34	25.9	5.0	6.66	M3-M22
ER32G	32.74	32	29.2	40	31.8	5.5	7.16	M3-M27
ER25	1.0-16.0	25	23	22.0	34.0	6.66	5.0	3.1
ER32	1.0 - 20.0	32	33	29.2	40.0	7.16	5.5	3.6
ER40	2.0-32.0	25	16	22	34.0	6.66	5.0	3.1

SDS COLLET



MODEL	RANGE	L	L
SDC 6	3-6 MM	36	9.6
SDC 8	3-8 MM	45	15
SDC 12	4-12 MM	60	22



OIL SEAL COLLETS

MODEL	D	D1	L	L1	RANGE
ER25	25.00	26	34	6.7	3-16 MM
ER32	32.00	33	40	7.2	3-20 MM



A TYPE (HEX) NUTS

MODEL	L	D	M
ER8A	11	14	
ER11A	11.03	19	M14 X 0.75P
ER16A	17.05	28	M22 X 1.5P
ER20A	19	34	M25 X 1.5P

STRAIGHT COLLETS FOR POWERMILL CHUCK

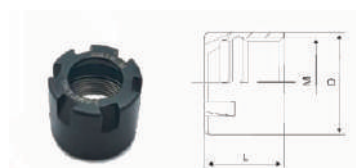


SIZE	RANGE	D	D2	L
C-20	3-16 MM	20	25	52
C-32	6-25 MM	32	37	73



ER-UM NUTS

MODEL	L	D	M
ER25UM	20	42	M32 X 1.5P
ER32UM	22.50	50	M40 X 1.5P
ER40UM	25.50.00	63	M50 X 1.5P



ER-M NUTS

MODEL	L	D	M
ER8M	10	12	10 X 0.75P
ER11M	12	16	M113 X 0.75P
ER16M	18	22	M19 X 1.0P
ER20M	19	28	M24XL.OP

TOOLING

ER (M) - SPANNERS



MODEL	L	D	M
ER8M	10	12	10 X 0.75P
ER11M	12	16	M113 X 0.75P
ER16M	18	22	M19 X 1.0P
ER20M	19	28	M24XL.0P

ER (A / HEX) SPANNERS

MODEL	TYPE OF NUTS
ER8A	ER8A
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A



C-SPANNERS FOR KEYLESS CHUCKS

MODEL	TYPE OF NUTS
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

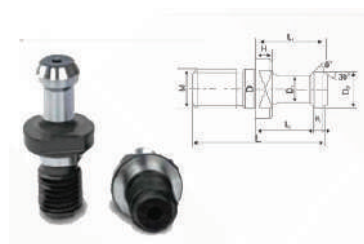


C-SPANNERS FOR KEYLESS CHUCKS

MODEL	TYPE OF NUTS
ER8A	ER8A
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A



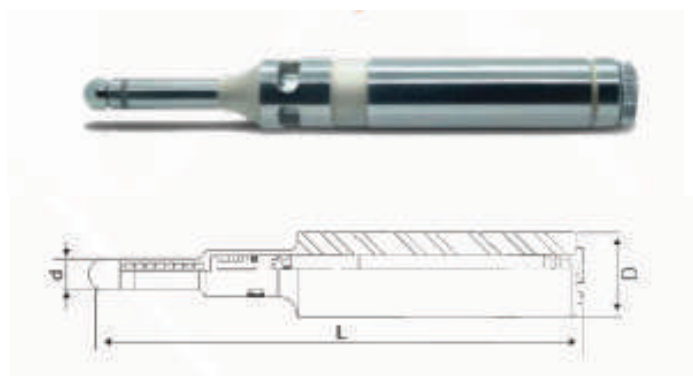
PULL STUDS - REGULAR / THROUGH COOLANT



MODELE	L	L1	L2	D	D1	D2	H	H1	M	O		
BT30	43	23	18	12.5	7	11	5	2.5	M12	45	60	90
BT40	60	35	28	17	100	15	6	3	M16	45	60	90
BT50	85	45	35	25	17	23	10	5	M24	45	60	90

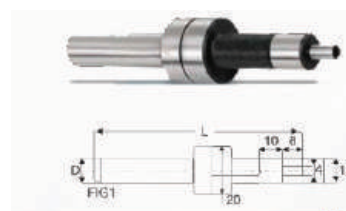
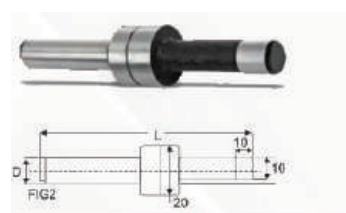
EDGE FINDERS WITH SOUND & LIGHT

MODEL	D(MM)	L(MM)	L(MM)	WT.
ES-20	20	160	10	0.28
BT40	60	35	28	17
BT50	85	45	35	25

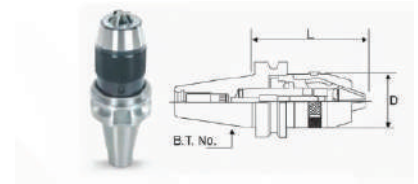


MECHANICAL EDGE FINDERS (STEEL / CERAMIC)

MODEL	D(MM)	L1
4MM	4	90
10MM	10	83
BT50	85	45



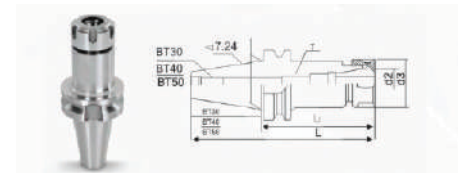
TOOLING



INTEGRATED KEYLESS DRILL CHUCK

MODEL	CLAMPING RANGE	D	MIN	MAX
BT30- APU13	1-13MM	51.5	94	105
BT30- APU13	1-13MM	51.5	98	109
BT30- APU13	1-16MM	58	115	130
BT30- APU13	1-13MM	51.5	98	109
BT30- APU13	1-16MM	58	115	130

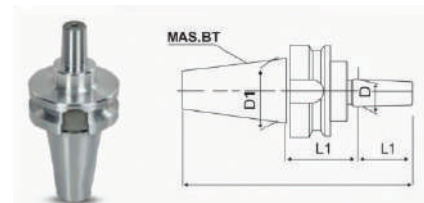
BT SERIES ER COLLET ADAPTOR



MODEL	L1	D3	D1
BT30 - ER11A - 70/100	70/100	19	31.75
BT30 - ER16A - 70/100	70/100	28	31.75
BT30 - ER20A - 70/100	70/100	34	31.75
BT30 - ER25UM-70/100	70/100	42	31.75
BT30 - ER32UM-70/100	70/100	50	31.75
BT30 - ER40 - 80/100	80/100	63	31.75
BT40 - ER11A - 70/100	70/100	19	44.45
BT40 - ER16A - 70/100/150	70/100/150	28	44.25
BT40 - ER20A - 70/100/150	70/100/150	34	44.45
BT40 - ER25UM- 70/100/150/200	70/100/150/200	42	44.45
BT40 - ER32UM -70/100/150/200	70/100/150/200	50	44.45
BT40 - ER40UM -80/100/150/200	70/100/150/200	63	44.45
BT50 - ER25UM-100/150/200	10/150/200	42	69.85
BT50 - ER32UM-100/150/200	10/150/200	50	69.85
BT50 - ER40UM-100/150/200	10/150/200	63	69.85
BT50 - ER50UM - 100/150/200	10/150/200	73	80

BT DRILL CHUCK ADAPTOR

MODEL	L2	L	D	D1	M
BT40-JT6	22.225	132.6	14.199	44.45	M16



CYLINDRICAL COLLET ADAPTOR

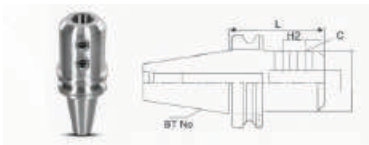


MODEL	L1	C	D
C10-ER8 A/M - 100	100	10	12
C10- ER11 A/M-100	100	10	19/16
C12- ER11 A/M - 100	100	12	12
C12- ER16 A/M - 100	100	12	19/16
C16- ER11 A/M - 100	100	16	19/16
C16- ER16 A/M - 70/100/150	70/100/150	16	28/22
C20- ER16 A-70/100/150	70/100/150	20	28
C20- ER20 A/M-70/100/150	70/100/150	20	32/22
C20-ER25 UM-70/100	100	20	42
C20- ER32 UM-70/100	100	20	50
C25- ER20 A - 70/100	100	25	34
C25-ER25 UM-70/100/150	70/100/150	25	42
C25-ER32UM - 100	100	25	50
C32- ER16 A - 100	100	32	28
C32- ER20A - 100	100	32	28
C32-ER25UM-100	100	32	42
C32 - ER32UM-70/100/150	70/100/150		50
C40- ER16A - 100	100		28
C40- ER20A - 100	100		34
C40- ER25 UM -100	100		42
C40-ER32 UM -100	100	40	50
C40- ER40 UM - 100/150	100/150	40	63

TOOLING



MT SERIES (TANG/ DRAW BOLT TYPE - ER COLLET HOLDER



SHANK	ER16	ER20	ER25	ER32	ER40
MT-2	--	--	--		
MT-3	--	--	--	--	--
MT-4				--	--
MT-5					--

BT- SIDE LOCK ADAPTOR

MODEL	L1	D
BT30 - SLA 16	65	50
BT30-SLA 20	75	52
BT30 - SLA 25	90	65
BT40 - SLA 10	60	45
BT40 - SLA 12	65	45
BT40 - SLA 16	65	50
BT40-SLA 20	70	52
BT40 - SLA 22	90	52
BT40-SLA 25	90	65
BT40-SLA 32	100	72
BT40-SLA 40	110	90
BT50 - SLA 16	65	50
BT50 - SLA 20	70	52
BT50 - SLA 25	100	65
BT50 - SLA 32	105	72
BT50 - SLA 40	110	90
BT50 - SLA 50	120	100

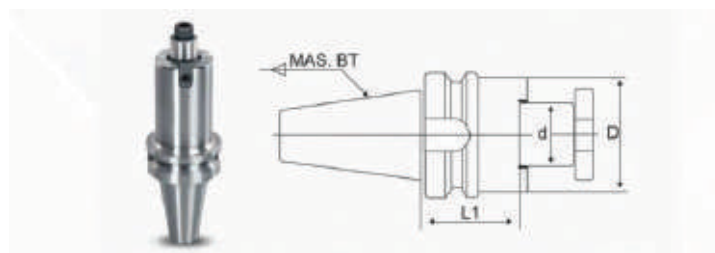
BT- SIDE LOCK ADAPTOR

MODEL	L	L1
BT30-C-20-90L	110	90
BT40-C-20-90L	120	90
BT40-C-32-100L	135	100
BT40-C-32-100L	135	110



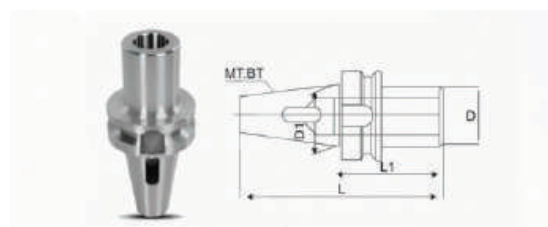
& accessories

BT FACE / SHELL MILL ADAPTOR



MODEL	L1	D	D
BT30 - FMB22 - 45	45	50	22
BT30-FMB27-45	45	60	27
BT30 - FMB32-60	60	78	32
BT40-FMB16-60/100/150	60/100/150	34	16
BT40 - FMB22-60/100/150 200/250/300	60/100/150/200	45	45
/250/300	48	22	50
BT40-FMB27-60/100/150/200/250/300	60/100/150	60	27
BT40 - FMB32-60/100/150	60/100	78	32
BT40-FMB40-60/100	100/150/200/25	65	65
0/300/400	89	40	72
BT50 - FMB22 - 100/150/200/250/300/400	100/150/200/25	90	90
0/300	50	22	50
BT50 - FMB27 - 100/150/200/250/300	100/150	60	27
BT50 - FMB32 - 100/150	100/150	78	32
BT50 - FMB40 - 100/150 BT50 - FMB60-75	75	98	40

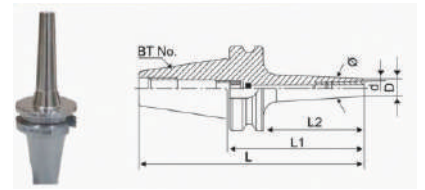
BT-MT (REDUCTION SOCKET) ADAPTOR



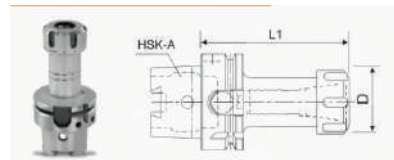
MODEL	L	D
BT30-MT1-50	95	25
BT30-MT2-60	108.4	32
BT30-MT3-70	128.4	40
BT40-MT1-50	110.4	25
BT40-MT2-60	125.4	32
BT40-MT3-70	135.4	40
BT40-MT4-90	155.4	48
BT50-MT2-45	146.8	25
BT50-MT3-65	166.8	40
BT50-MT4-85	186.8	48
BT50-MT5-105	210	64

TOOLING

BT- SDC ADAPTOR



MODEL	L	L1	L2	Ø	D	D
BT40-SDC06-120	165.4	120	73	6	14	6-MAR
BT40-SDC08-120	165.4	120	73	6	22	8-MAR
BT40-SDC12-120	165.4	120	73	6	34	12-MAR



SDC CYLINDRICAL ADAPTOR

MODEL	D	L
C 16 - SDC 6 - 150 L	16	150
C 20 - SDC 6 - 200 L	20	200
C 20 - SDC 8 - 150 L	16	150
C 20 - SDC 8 - 200 L	20	200

HSK SERIES ADAPTOR

MODEL	D	L1
HSK 63A - ER25	42	80
HSK 63A - ER32	50	100
HSK 63A - ER40	63	100
HSK 63A - FMB22	48	50
HSK 63A - FMB27	58	60
HSK 63A - FMB25	90	65
HSK 63A - FMB32	100	720

R8 (M1-TR) ADAPTORS



MODEL		
THREAD PITCH : 12*1.5 / M 12.7 / 16 UNF		
R-8 (M1 TR) COLLETS	3MM - 2MM	100
ER SERIES ADAPTORS	ER16, ER20, ER25, ER132, ER40	100
FACE MILL ADAPTORS	22, 27, 32, 40	50
DRILL CHUCK ADAPTORS	JT - 6	60
HSK 63A - FMB32	100	720



ISO (NT) SERIES ADAPTORS

MODEL	
ISO (NT) 30 / 40 / 50	
ER SERIES ADAPTORS	ER16, ER20, ER25, ER32, ER40,
FACE MILL ADAPTORS	22, 27, 32, 40
MT REDUCTION ADAPTORS	MT - 1, 2, 3
SIDE LOCK ADAPTORS	SLA - 20,25,32,40
INTEGRATE KEYLESS ADAPTOR	APU - 13 / 16
JT - 6 ADAPTOR	JT - 6

BBT-40 ADAPTERS (HIGH PRECISION 25,000 RPM G 2.5 BALANCED)

MODEL	TYPE
BBT40	ER - 16/20/25/32/40
BBT40	FMB - 22/27/32
BBT40	SLA -25/32



TAPPING COLLETS, REDUCER

MODEL
GT24-GT12



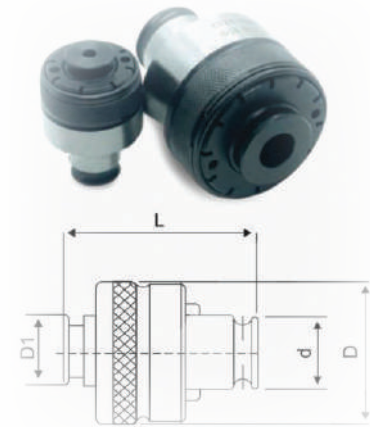
TAPPING COLLETS SPANNERS



MODEL
GT12-GT24

TOOLING

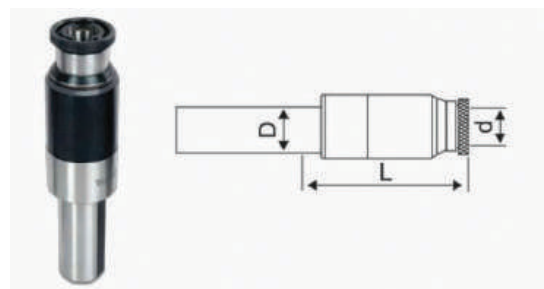
TAPPING COLLETS WITH AUTO CLUTCH



MODEL	SIZE	ISO SERIES		DIN	
		SHANK	SKUAE	SHANK	SKUAE
GT24 ; (d=30, D=58, L=79.5) Range 5-30mm	M3	3.15	2.5	3.5	2.5
	M4	4	3	4.5	3.4
	M5	5	4	6	4.9
	M6	6.3	5	6	4.9
	M8	8	6.3	8	6.3
	M10	10	8	10	8
	M12	9	7.1		
GT12 ; (d=19, D=38, L=54) Range 3-16mm	M14	11.2	9		
	M16	12.5	10		
	M18	14	11.2		
	M20	14	11.2		
	M22	16	12.5		
	M24	18	14		
	M27	20	16		
	M30	20	16		

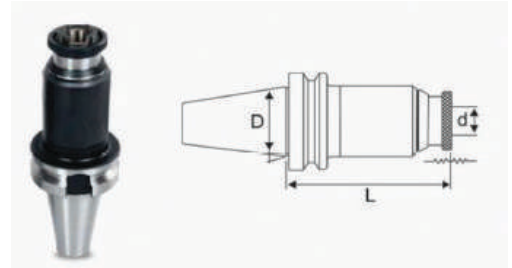
QUICK CHANGE TAPPING ADAPTER : CYLINDRICAL

MODEL	RANGE	D	D	L
Q25-GT12	M3-M16	25	19	110
Q32-GT12	M3-M16	32	19	110
Q40-GT12	M3-M16	40	19	110
Q40-GT24	M5-M30	40	30	130



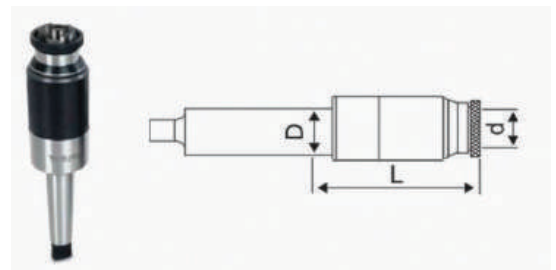
QUICK CHANGE TAPPING ADAPTER : BT SERIES

MODEL	RANGE	D	D	L
BT 30 GT12	M3-M16	31.75	19	110
BT 30 GT12	M3-M16	44.45	19	110
BT 30 GT24	M3-M30	44.45	30	130
BT 30 GT12	M3-M16	69.85	19	110
BT 30 GT24	M3-M30	69.85	30	130



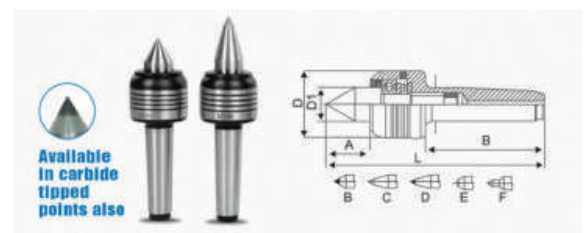
QUICK CHANGE TAPPING ADAPTER : MT SERIES

MODEL	RANGE	D	D	L
MT2- GT12	M3-M16	17.78	19	110
MT3- GT12	M3-M16	23.825	19	110
MT3- GT24	M5-M30	23.825	30	130
MT4- GT24	M5-M30	31.267	30	130



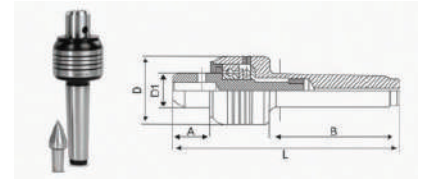
CUTTING TOOLS

CNC LIVE CENTRES (STUB OR EXTENDED POINT



MODEL	A	B	D	D1	L	MAX LOAD	MAX SPEED	ACCURENCY
MT2	28	65	46	24	140	100	3500	0.01
MT3	38	81	59	28	170	250	3000	0.015
MT4	45	102	64	31	198	400	2500	0.015
MT5	52	130	78	44	245	700	2000	0.02

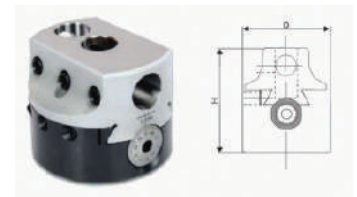
CUTTING TOOLS



CNC INTERCHANGEABLE POINTS LIVE CENTRES

MODEL	A	B	D	D1	L	MAX LOAD	MAX SPEED	ACCURENCY
MT2	27	65	46	24	140	100	3500	0.01
MT3	32	81	59	28	170	250	3000	0.015
MT4	34.5	102	64	31	198	400	2500	0.015
MT5	44	130	78	44	245	700	2000	0.02

CNC LIVE CENTRES (STUB OR EXTENDED POINT



MODEL	D	H	MAX OFFSET	BORING BARDIA	MIN RADUATION	DIAL OF BORING
F1-12MM	50MM	63	16MM	12MM	0.01MM	10-125MM
F1-18	75MM	80	25MM	18MM	0.01MM	12-225MM
F1-25MM	100MM	88	41MM	25MM	0.01MM	15-630MM

F1 ROUGH BORING HEAD SHANKS



MODEL	T	L	THREAD
BT30/BT40/ BT50	M16 - 2.0P	102	1.1/2"X18
NT (ISO) 30	M12-1.75P	102	1.1/2"X18
NT (ISO) 40	M16 - 2.0P	135	1.1/2"X18
R8	M12/12X1.5/ 7/16-20 UNF	132.5	1.1/2"X18

& accessories

FINE BORING HEAD SET BT40 RANGE 8-280MM (0.01MM)



MODEL	BORING RANGE	MIN GRADUATION	MAX OFFSET	WEIGHT
NBH2084	8-280MM	0.01MM /	28.00MM	3 KG

SPARE SHANK FOR FINE BORING HEAD: BT 50 TAPER

BORING CUTTER	BORING RANGE	DM	INSERT	BOLT	WRENCH	WEIGHT
BJ2208-32	8-11	32				0.095
BJ2010-40	10-13	40	TBGT060102L	SB-1STR-M2	T6	0.095
BJ2012-53	12-17	53				0.12
BJ2016-68	16-21	68	TBGH090202L	SB-2STR-M2.5	T8	0.16
BJ2020-83	20-130	83				0.22
BJ2025-96	25-135	96	TBGH110302L	SB-3STR-M3	T8	0.34
BJ2030-115	30-140	115				0.54
BJ20-20	120-280	84 + BT BAR				0.23



FINE BORING HEAD SET BT40- RANGE 8-204MM (0.005MM)



BORING CUTTER	BORING RANGE	DM	INSERT	SCREW	WRENCH
SBJ 1608	8-38	32	TBGH0601L	M2	T-6
SBJ 1612	12-42	53	TBGH0902L	M2.5	T-8
SBJ1620	20-50	83	TBGH1103L	M3	T-10
SBJ1645	45-75	8	TBGH1103L	M3	T-10
NO.1	74-103	90	TBGH1103L	M2	T-6
NO.2	99-128		TBGH1103L	M2	T-6
NO.3	124-153		TBGH1103L	M2	T-6
NO.4	147-176		TBGH1103L	M2	T-6
NO.5	172-203		TBGH1103L	M2	T-6

TOOLING

SPARE SHANK FOR FINE BORING HEAD: BT50 TAPER



MODEL	ACCURACY	BORING RANGE AD	JUSTMENT PRECISION	ADJUST THE STROKE
NBH2084S	<0.005MM	Ø8-0280MM	Ø 0.005MM	Ø 30.00MM

CLAMPING KITS



CNC TOOLING TROLLEYS

MODEL
BT40/ BT50/HSK63
35 SLOTS



LOCK DOWN MACHINE VICES

TABLE SLOT	STUD SIZES
12	10-1.5P
14	12-1.75P
16	14-2.OP
18	16-2.OP

JAW WIDTH	MAX OPEN	JAW WEIGHT	WEIGHT
6"	160MM	45	34KG
6"	200MM	50	46KG
6" SWIVEL BASE	160MM	45	37KG
6" SWIVEL BASE	200MM	50	51KG



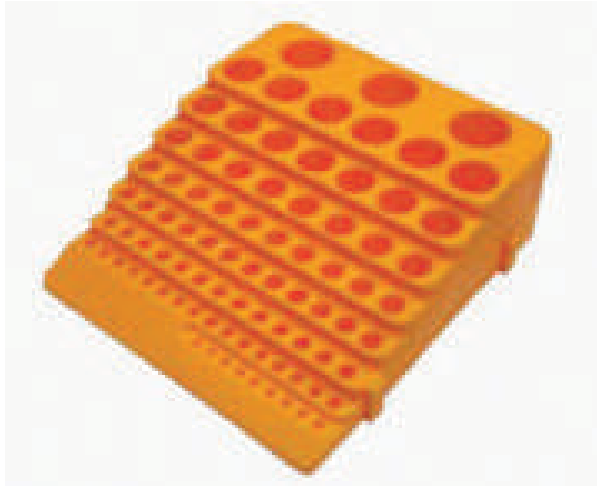
KIT INCLUDES
24PC: STUDS
6PC : T-NUTS
4PC: COUPLING NUTS
6PC: FLANGE NUTS
6PC: STEP CLAMPS
12PC: STEP BLOCKS

HYDRAULIC VICE

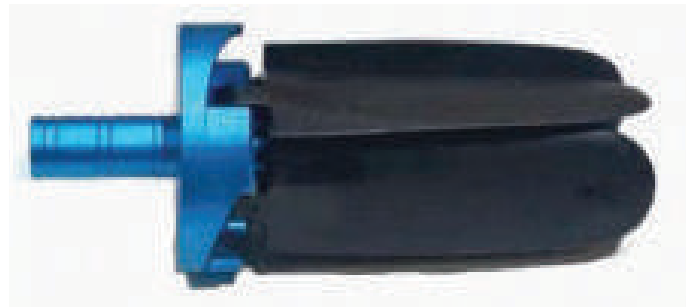
JAW WIDTH	OPEN	H	WEIGHT	WEIGHT
6"	200MM	48	4500KGF	45KG
6"	300MM	52	4500KGF	60KG



TOOL HOLDER TRAY



CNC SCRAP CLEANER FAN



CNC SPINDLE CLEANER

<https://online.fliphtml5.com/ocmom/scko/>

CNC SPINDLE CLEANER

BT 30 / BT 40/ BT 50

HSK 63/HSK 100



CUTTING TOOLS

SOLID CARBIDE ENDMILL

DIA	FL	OAL	SHANK
1	3	50	3/4
1.5	3	50	3/4
2	4	50	3/4
2.5	4	50	3/4
3	20	50	3/4
3.5	20	50	4
4	20	50	4
4.5	20	50	5
5	20	50	5
5.5	20	50	6
6	20	50	6
7	20	63	8
8	20	63	8

DIA	FL	OAL	SHANK
9	25	70	10
10	25	70	10
11	25	75	12
12	25	75	12
13	30	90	14
14	30	50	14
15	32	90	16
16	32	90	16
18	32	90	18
20	40	100	20
22	40	100	22
25	40	100	25
8	20	63	8

4/2 Flat, Ball, Corner Radius



SOLID CARBIDE LONG ENDMILL

DIA	OAL	OAL	SHANK
3	25	75	3
3	40	100	3
4	25	75	4
4	40	100	4
5	25	75	5
5	40	100	5
6	25	75	6
6	40	100	6
6	75	150	6

DIA	OAL	OAL	SHANK
8	40	100	8
8	75	150	8
8	100	200	8
10	40	100	10
10	75	150	10
10	100	200	10
12	40	100	12
12	75	150	12
12	100	200	12
16	75	150	16
16	100	200	16
20	75	150	20
20	100	200	20
25	75	150	25



SOLID CARBIDE ENDMILL : FLAT/BALL HIGH PERFORMANCE FOR 50-55 HRC HARDNESS MATERIAL

DIA	FL	OAL	SHANK
1	3	50	4
1.5	4	50	4
2	6	50	4
2.5	6	50	4
3	10	50	4
4	14	50	4
5	16	50	5
6	19	50	6
6	40	100	6
8	20	63	8
8	40	100	8
10	25	70	10
10	40	100	10
12	25	75	12
12	40	100	12



SOLID CARBIDE ENDMILL : 3 FLUTED HIGH HELIX (FOR ALUMINIUM)

DIA	OAL	OAL	SHANK
3	10	50	3
4	14	50	4
5	16	50	5
6	19	50	6
8	20	63	8
10	25	70	10
12	25	75	12



SOLID CARBIDE ROUGHING ENDMILL

DIA	OAL	OAL	SHANK
6	15	50	6
8	20	60	8
10	25	75	10
12	30	75	12
16	45	100	16
10	25	70	10
12	25	75	12



CUTTING TOOLS

SOLID CARBIDE REAMER

DIA	FL	OAL
3	25	60
4	25	60
5	25	60
6	25	60
7	30	75
8	30	75
10	30	75
12	30	75



SOLID CARBIDE CENTRE DRILL

PILOT DIA	BODY DIA	TOTAL L
1.25	3	35
1.6	4	50
2	5	50
2.5	6.3	60
3.15	8	60
4	10	65
5	12.5	70



SOLID CARBIDE 2 FLUTED BALL NOSE UNOCATED ENDMILL

DIA	FL	OAL
4	20	50
5	20	50
6	20	50
8	25	60



SOLID CARBIDE DRILLS

DIA	FL	OAL	DIA	FL	OAL	DIA	FL	OAL
0.8	12	34	4.3	40	75	7.5	60	100
0.9	12	34	4.4	40	75	7.6	60	100
1	12	34	4.5	40	75	7.7	60	100
1.1	18	40	4.6	40	75	7.8	60	100
1.2	18	40	4.7	40	75	7.9	60	100
1.3	18	40	4.8	40	75	8	60	110
1.4	18	40	4.9	40	75	8.1	60	110
1.5	18	40	5.0	40	75	8.2	60	110
1.6	18	40	5.1	40	75	8.3	60	110
1.8	18	40	5.2	40	75	8.4	60	110
2	24	49	5.3	40	75	8.5	60	110
2.1	30	57	5.4	40	75	8.6	60	110
2.2	30	57	5.5	40	75	8.7	60	110
2.3	30	57	5.6	40	75	8.8	60	110
2.4	30	57	5.7	40	75	8.9	60	110
2.5	30	57	5.8	40	75	9	60	110
2.6	35	65	5.9	40	75	9.5	60	110
2.7	35	65	6.0	40	75	10	65	110
2.8	35	65	6.1	60	100	10.2	65	110
2.9	35	65	6.2	60	100	10.5	65	110
3	35	65	6.3	60	100	10.8	65	110
3.1	35	65	6.4	60	100	11	65	110
3.2	35	65	6.5	60	100	11.5	65	110
3.3	35	65	6.6	60	100	12	65	110
3.4	35	65	6.7	60	100	12.5	65	110
3.5	35	65	6.8	60	100	13	65	110
3.6	35	65	6.9	60	100	14	65	110
3.7	35	65	7	60	100	15	65	110
3.8	35	65	7.1	60	100	16	65	110
4.0	35	65	7.2	60	100	18	65	110
4.1	40	75	7.3	60	100	20	65	110
4.2	40	75	7.4	60	100			



CUTTING TOOLS

U DRILLS (DX3) AND (DX4)

Cat no.	U DRILLS(D x 2) SIZE		
	D	L	d
SP10-C20	10	20	20.0
SP10.5-C20	10.5	21	
SP11.0-C20	11	22	
SP11.5-C20	11.5	23	
SP12.5-C20	12.5	25.0	
SP13.0-C20	13.0	26.0	
SP13.5-C20	13.5	27.0	
SP14.0-C25	14.0	28.0	25.0
SP14.5-C25	14.5	29.0	
SP15.0-C25	15.0	30.0	
SP15.5-C25	15.5	31.0	
SP16.0-C25	16.0	32.0	
SP16.5-C25	16.5	33.0	
SP17.0-C25	17.0	34.0	
SP17.5-C25	17.5	35.0	
SP18.0-C25	18.0	36.0	
SP18.5-C25	18.5	37.0	
SP19.0-C25	19.0	38.0	
SP19.5-C25	19.5	39.0	
SP20.0-C25	20.0	40.0	
SP20.5-C25	20.5	41.0	
SP21.0-C32	21.0	42.0	
SP21.5-C32	21.5	43.0	
SP22.0-C25	22.0	44.0	
SP22.5-C25	22.5	45.0	
SP23.0-C25	23.0	46.0	
SP23.5-C25	23.5	47.0	
SP24.0-C25	24.0	48.0	
SP24.5-C25	24.5	49.0	

SP25.0-C32	25.0	50.0	32.0
SP25.5-C32	25.5	51.0	
SP26.0-C32	26.0	52.0	
SP26.5-C32	26.5	53.0	
SP27.0-C32	27.0	54.0	
SP27.5-C32	27.5	55.0	
SP28.0-C32	28.0	56.0	
SP28.5-C32	28.5	57.0	40.0
SP29.0-C32	29.0	58.0	
SP29.5-C32	29.5	59.0	
SP30.0-C32	30.0	60.0	
SP30.5-C32	30.5		
SP31.0-C32	31.0		
SP31.5-C32	31.5		
SP32.0-C32	32.0		
SP32.5-C32	32.5		
SP33.0-C32	33.0		
SP33.5-C32	33.5		
SP34.0-C32	34.0		
SP35.0-C32	35.0		
SP36.0-C32	36.0		40.0
SP37.0-C32	37.0		
SP38.0-C32	38.0		
SP39.0-C32	39.0		
SP40.0-C32	40.0		
SP41.0-C32	41.0		
SP42.0-C32	42.0		
SP43.0-C40	43.0		
SP44.0-C40	44.0		
SP45.0-C40	45.0		
SP46.0-C40	46.0		
SP47.0-C40	47.0		
SP48.0-C40	48.0		
SP49.0-C40	49.0		
SP50.0-C40	50.0		



U DRILLS(D x 3) SIZE	
D	L
30	20.0
31.5	
33	
34.5	
37.5	
39.0	
40.5	
42.0	
43.5	25.0
45.0	
46.5	
48.0	
49.0	
51.0	
52.5	
54.0	
55.5	
57.0	
58.5	
60.0	
61.5	
63.0	
64.5	
66.0	
67.0	
69.0	
70.5	
72.0	
73.5	

75.0	32.0
76.5	
78.0	
79.5	
81.0	
82.5	
84.0	
85.5	
87.0	
88.5	
90.0	
91.5	
93.0	
94.5	
96.0	
97.5	
99.0	40.0
100.5	
102.0	
105.0	
108.0	
111.0	
114.0	
117.0	
120.0	
123.0	
126.0	
129.0	
132.5	
135.0	
138.0	
141.0	
144.0	
147.0	
150.0	

U DRILLS(D x 3) SIZE	
D	L
50.0	20.0
52.0	
54.0	
56.0	
58.0	25.0
60.0	
62.0	
64.0	
66.0	
68.0	
70.0	
72.0	
74.0	
76.0	
78.0	
80.0	
82.0	
84.0	
86.0	
88.0	
90.0	
92.0	
94.0	
96.0	
98.0	
100.0	
102.0	
104.0	

106.0	32.0
108.0	
110.0	
112.0	
114.0	
116.0	
118.0	
120.0	
122.0	
124.0	
120.0	
128.0	
130.0	
132.0	
134.0	
136.0	
140.0	
144.0	
148.0	
152.0	
156.0	
160.0	
164.0	
168.0	
172.0	40.0
176.0	
180.0	
184.0	
188.0	
192.0	
196.0	
200.0	

CUTTING TOOLS

U DRILLS (DX3) AND (DX4)

INSERT	CLAM SCREW	WRENCH
SPMT 040204	M2.2	T6
SPMG 05 02 04	M2.5 X5.5	T6
SPMG 06 0204	M2.5 X5.5	T7
SPMG 07 T3 08	M2.5 X 8.0	T8
SPMG 09 04 08	M3.5 X 9.0	T15
SPMG 1104 08	M4.0 X 10.0	T15
SPMG 1405 12	M4.0 X 10.0	T20

INDEXABLE FACE MILL CUTTERS

DIA	BORE	Z	INSERT		KEY	SCREW
			APMT	RPMT		
			1604	1204	T-15	M4 X 10
52	22	4		1204	T-15	M4 X 10
63	22	5	1604	1204	T-15	M4 X 10
80	27	6	1604	1204	T-15	M4 X 10
100	32	6	1604	1204	T-15	M4 X 10
125	40	6	1604	1204	T-15	M4 X 10
160	40	1	1604	1204	T-15	M4 X 10
200	60	2	1604	1204	T-15	M4 X 10
250	60	2	1604	1204	T-15	M4 X 10



INDEXABLE COUNTER SINK TOOL 90°

DIA	BORE	Z	INSERT
8-25mm	20mm	1	TCMT16
20-40mm	20mm	2	TCMT16



INDEXABLE ENDMILL R390

RANGE	SHANK	BORE
50mm	-	22
16mm	150mm	--
20mm	150mm	--
25mm	150mm	--

INDEXABLE ENDMILL JDMT-1003

DIA	LENGHT
16mm	150mm
20mm	150mm
25mm	150mm
25mm	150mm

INDEXABLE FACE MILL 3/4" TPKN

DIA	BORE	Z
63	22	4
80	27	5
100	32	5
125	40	6
160	40	7
200	60	9



INDEXABLE END MILL CUTTERS



DIA	BORE	SHANK	Z	INSERT				KEY
				APMT	SCREW	RPMT	SCREW	
10	120	10	1	1135	M-2.5x6			T-8
12	130	12	1	1135	M-2.5x6	0802	M-3x8	T-8
16	150	16	2	1135	M-2.5x6	0802	M-3x8	T-8
16	200	16	2	1135	M-2.5x6	0802	M-3x8	T-8
20	150	20	2	1135	M-2.5x6	0802	M-3x8	T-8
20	200	20	2	1135	M-2.5x6	0802	M-3x8	T-8
25	150	25	2	1604	M-4x10	1003	M-3.5x8	T-15
25	200	25	2	1604	M-4x10	1003	M-3.5x8	T-15
25	250	25	2	1604	M-4x10	1003	M-3.5x8	T-15
32	250	32	2	1604	M-4x10	1204	M-4x10	T-15
32	300	32	2	1604	M-4x10	1204	M-4x10	T-15
40	250	40	3	1604	M-4x10	1204	M-4x10	T-15
40	300	40	3	1604	M-4x10	1204	M-4x10	T-15

CUTTING TOOLS

HSS ENDMILL CUTTER (M2/M42)



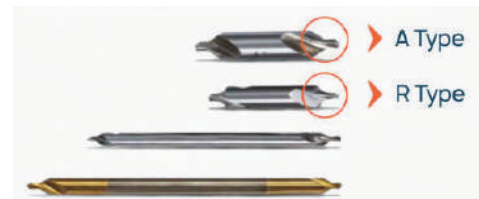
DIA	SHANK DIA	CUTTING LENGTH	TOTAL
2	4	7	52
2.5	4	7	52
3	4	8	52
4	4	8	52
5	5	13	57
6	6	13	57
7	8	19	63
8	8	19	63
9	10	22	72
10	10	22	72
11	12	26	83
12	12	26	83
13	12	26	83
14	12	26	83
15	12	26	83
16	16	32	92
17	16	32	92
18	16	32	92
19	16	32	92
20	20	38	104
21	20	38	104

22	20	38	104
23	20	38	104
24	20	45	121
25	25	45	121

DIMENSION IN (INCH)

DIA	SHANK DIA	CUTTING LENGTH	TOTAL LENGTH
1/8"	1/4"	5/16"	2"
5/32"	1/4"	3/8"	2"
3/16"	1/4"	1/2"	2.1/4"
7/32"	1/4"	1/2"	2.1/4"
1/4"	1/4"	1/2"	2.1/4"
5/16"	3/8"	3/4"	2.1/2"
7/16"	1/2"	1"	3.1/4"
1/2"	1/2"	1"	3.1/4"
5/8"	5/8"	1.1/4"	3.1/4"
3/4"	5/8"	1.1/2"	3.1/2"
1"	3/4"	1.3/4"	3.3/4"

HSS CENTRE DRILL (M2/M35)



DIMENSION IN (INCH)

SIZE	PILOT DIA	BODY DIA	STANDARD LENGTH	LONG LENGTH	EXTRA LONG LENGTH
BS-1	3/64"	1/8"	1.1/2"	100MM	
BS-2	1/16"	3/16"	1.3/4"	100MM	
BS-3	3/32"	1/4"	2"	100MM	
BS-4	1/8"	5/16"	2.1/4"	100MM	150MM
BS-5	3/16"	7/16"	2.1/2"	100MM	150MM
BS-6	1/14"	5/8"	3"	100MM	150MM

DIMENSION IN (INCH)

SIZE	PILOT DIA	BODY DIA	STANDARD LENGTH	LONG LENGTH	EXTRA LONG LENGTH
2x5	3/64"	2	42	100MM	
2.5x6.3	1/16"	2.5	47	100MM	
3.15x8	3/32"	3.15	52	100MM	
4x10	1/8"	4	59	100MM	150MM
5/12.5	3/16"	5	66	100MM	150MM
4x14B	1/14"	4	70		

HSS SINGLE FLUTED ENDMILL : M42 COBALT

DIA	FLUTE	TOTAL	SHANK
6	20	64	6
6	25	100	6
8	20	76	8
8	25	100	8
10	25	76	10
10	35	100	10



TAP DRILL COMBINED (1/4" HEX SHANK)

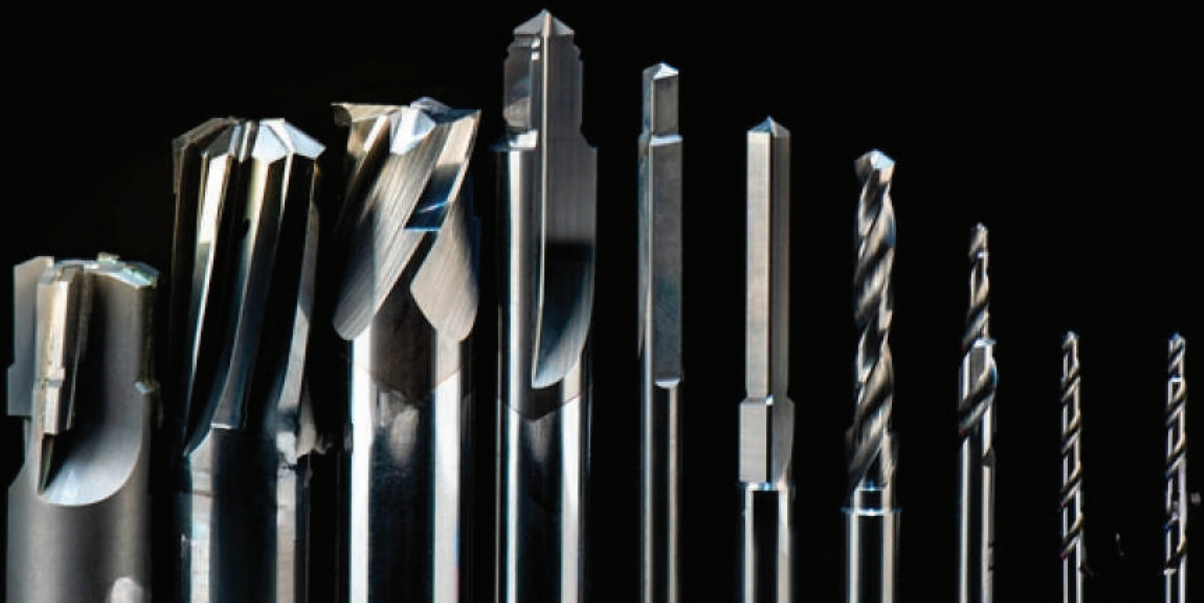
DIA
M3
M4
M5
M6
M8
M10



CUTTING TOOLS

HAND & SHORT MACHINE TAPS : HSS AND CARBIDE

Hand Taps- METRIC/INCHES: Coarse and fine pitch	Spiral Point (SPPT): M2/HSS-CO	Spiral Fluted-HSS-CO: METRIC/UNC/UNF/BSP/NPT	Roll Form Taps (For Aluminium)	Solid Carbide Taps
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HSS E COBALT HIGH PERFORMANCE DRILLS

JOBBER SERIES (HSS E) GROUND FINISH (IS: 5101/DIN : 338)

Dia in mm	Flute Length	Overall Length
1	12	34
1.5	18	40
1.60 (1/16")	20	43
1.8	22	46
2.00 (5/64")	24	49
2.1	24	49
2.2	27	53
2.3	27	53
2.4	30	57
2.5	30	57
2.6	30	57
2.7	33	61
2.78 (7/64")	33	61
2.8	33	61
2.9	33	61
3	33	61
3.1	36	65
3.20 (1/8")	36	65
3.3	36	65
3.4	39	70
3.5	39	70
3.60 (9/64")	39	70
3.7	39	70
3.8	43	75
3.9	43	75
4.00 (5/32")	43	75
4.1	43	75
4.2	43	75
4.3	47	80
4.37 (11/64")	47	80
4.4	47	80
4.5	47	80
4.6	47	80

Dia in mm	Flute Length	Overall Length
4.7	47	80
4.75 (3/16")	52	86
4.8	52	86
4.9	52	86
5	52	86
5.8	57	93
5.9	57	93
6.00 (15/64")	57	93
6.1	63	101
6.2	63	101
6.3	63	101
6.40 (1/4")	63	101
6.5	63	101
6.6	63	101
6.7	63	101
6.75 (17/64")	69	109
6.8	69	109
6.9	69	109
7	69	109
7.1	69	109
7.20 (9/32")	69	109
7.3	69	109
7.4	69	109
7.5	69	109
7.60 (19/64")	75	117
7.7	75	117
7.8	75	117
7.9	75	117
8.00 (5/16")	75	117
8.1	75	117
8.2	75	117
8.3	75	117
8.40 (21/64")	75	117

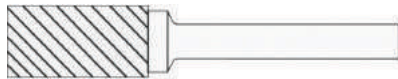
Dia in mm	Flute Length	Overall Length
8.5	75	117
8.6	81	125
8.7	81	125
8.75 (11/32")	81	125
8.8	81	125
8.9	81	125
9	81	125
9.10 (23/64")	81	125
9.2	81	125
9.3	81	125
9.3	81	125
9.4	81	125
9.5	81	125
9.60 (3/8")	87	133
9.7	87	133
9.8	87	133
9.9	87	133
10.00 (25/64")	87	133
10.2	87	133
10.25 (13/32")	87	133
10.5	87	133
10.8	94	142
7.4	94	142
11.10 (7/16")	94	142
11.50 (29/64")	94	142
12	101	151
12.5	101	151
12.70 (1/2")	101	151
13	101	151

CUTTING TOOLS

TUNGSTEN CARBIDE ROTARY BURRS



CYLINDRICAL



STANDARD CUT	CROSS/DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
C-1	C-1 D	4	14	6
C-2	C-2 D	6	15	6
C-3	C-3 D	8	19	6
C-4	C-4 D	10	20	6
C-5	C-5 D	12	20	6
C-6	C-6 D	16	25	6
MC-1		3	15	6

TREE RADIUS



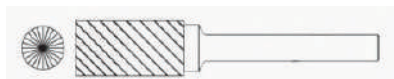
STANDARD CUT	CROSS/DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
C-1	C-1 D	4	14	6
C-2	C-2 D	6	15	6
C-3	C-3 D	8	19	6

CONICAL



STANDARD CUT	CROSS/DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
A-1	A-1 D	6	20	6
A-2	A-2 D	10	20	6
A-3	A-3 D	12	25	6
MA-1		3	10	3

CYLINDRICAL END CUT



STANDARD CUT	CROSS/DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
C-3	C-3 D	8	19	6
C-4	C-4 D	10	20	6
C-5	C-5 D	12	20	6

CONE SHAPE RADIUS



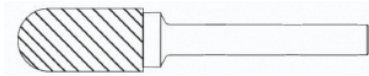
STANDARD CUT	CROSS/ DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
K-1	K-1 D	10	20	6
K-2	K-2 D	12	20	6
MK-1		3	20	3

BALL



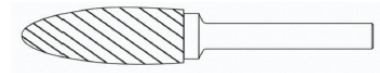
STANDARD CUT	CROSS/DIA-MOND CUT	HEAD DIA	SHANK DIA
S-1	S-1 D	6	6
S-2	S-2 D	8	6
S-3	S-3 D	10	6
S-4	S-4 D	12	6

CYLINDRICAL BALL



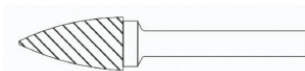
STANDARD CUT	CROSS/ DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
B-1	B-1 D	6	15	6
B-2	B-2 D	8	20	6
B-3	B-3 D	10	20	6
B-4	B-4 D	12	20	6
B-5	B-5 D	16	25	6
MB-1		3	15	3

FLAME



STANDARD CUT	CROSS/ DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
F-4	F-4D	12	24	6

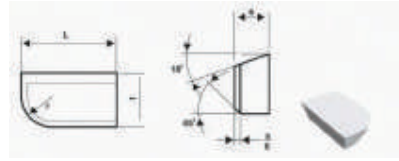
TREE POINTED



STANDARD CUT	CROSS/ DIA-MOND CUT	HEAD DIA	EDGE LENGTH	SHANK DIA
T-1	T-1 D	6	20	6
T-2	T-2 D	10	20	6
T-3	T-3 D	12	25	6
T-4	T-4 D	16	30	6
MT-1			15	3
MB-1		3	15	3

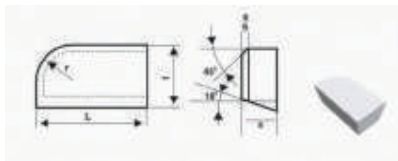
CUTTING TOOLS

A TYPE



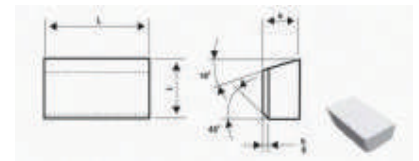
TYPE	L	t	s	r
A12	12	8	5	5
A16	16	10	6	6
A20	20	12	7	7
A25	25	14	8	8
A32	32	18	10	10

B TYPE



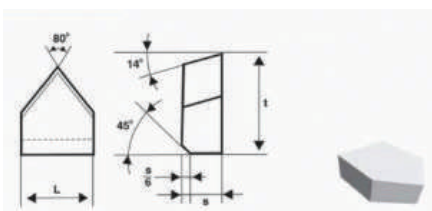
TYPE	L	t	s	r
B12	12	8	5	5
B16	16	10	6	6
B20	20	12	7	7
B25	25	14	8	8
B32	32	18	10	10

C TYPE



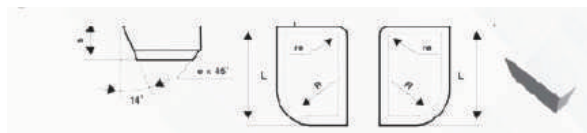
TYPE	L	t	s	r
C12	12	8	5	5
C16	16	10	6	6
C20	20	12	7	7
C25	25	14	8	8
C32	32	18	10	10

E TYPE



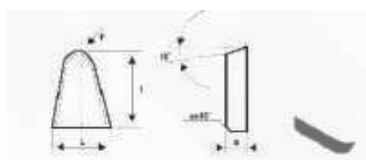
TYPE	L	t	s
E10	10	18	5
E12	12	20	6
E16	16	22	7
E20	20	25	8
E25	25	28	9

A4 TYPE



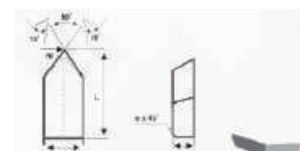
TYPE	L	t	s	R	e	re	PROFILE
A409	16	10	5.5	10	0.8	1	X
A410	16	10	5.5	10	0.8	1	Y
A411	20	12	7	12.5	0.8	1	X
A412	20	12	7	12.5	0.8	1	Y
A413	25	15	8.5	16	0.8	1	X
A414	25	15	8.5	16	0.8	1	Y

G TYPE



TYPE	L	t	s	r
G12	12	17	5	2.5
G16	16	20	6	3.5
G20	20	24	6	4.5
G25	25	28	8	6
G30	30	34	10	8

C1 TYPE



TYPE	L	t	s	r
G12	12	17	5	2.5
G16	16	20	6	3.5
G20	20	24	6	4.5
G25	25	28	8	6
G30	30	34	10	8

TOLERANCE FOR RELATED DIMENSION

(L,t,s,R,e,re)	tol. mm
<6 >	+ 0.2
6~12	+0.3
> 12~ 25	+0.4
> 25 ~ 40	+0.60
> 40~55	+ 0.70
>55	+1.00

CUTTING TOOLS

ANNUAL CORE CUTTER



HSS E COBALT
CUTTING DEPTH
50 MM

CARBIDE TIPPED
CUTTING DEPTH
50 MM

ONE TOUCH SHANK
ADAPTOR
MT-3 (14-60 MM)

CONVERSION
SHANK WELDON
TO ONE TOUCH

COUNTER SINK (3 FLUTED) 90° STRAIGHT SHANK

DIA	SHANK DIA	TOTAL LENGTH
8	6	50
10	6	50
12	8	56
16	10	60
20	10	65
25	10	70
31	12	70
40	16	80



HSS COUNTER BORE PARELLEL SHANK

SIZE	PILOT DIA	CUTTER DIA	SHANK DIA	LENGTH
5	5.2	8.9	6	80
6	6.2	10.4	8	80
8	8.2	13.4	10	100
10	10.3	16.8	12	100
12	12.3	18.8	12	100



SHANK TYPE RADIUS CUTTER

RADIUS	DIA	SHANK DIA	TOTAL LENGTH
R-2	10	10	60
R-3	12	12	60
R-4	14	12	65
R-5	16	12	65
R-6	20	16	70
R-8	24	20	80
R-10	28	25	85



STEP DRILL

SIZE
20MM
4-20MM
4-32MM

STRAIGHT / SPIRAL



thank you



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