

# THREADING DIES

DIES & DIE NUT - HSS & CARBON STEEL



## ROUND SPLIT DIES (HSS & Carbon Steel Round Dies For External Threading Application)

Thread Form	M, MF, BSW, BA, BSB, ME, WF, BSP, BSPT, UNC, UNF, NPT
Range	M2 to M48
Standard	BS 1127

## HEXAGONAL DIES (HSS & Carbon Steel Hexagonal Dies For External Threading Application)

Thread Form	M, MF, BSW, BSF, BSP, BSPT, UNC, UNF, NPT
Range	M2 to M48
Standard	BS 1127
Across Flat	0.710" to 3.150"

## TAP AND DIE CASED SETS

We also offer Tap and Die cased sets with accessories Die holder and Tap wrench.



High Performance Cutting Tools

## PRODUCT PORTFOLIO



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# DEBURRING TOOLS

## TUNGSTEN CARBIDE ROTARY BURR

Series	Shape Description	Totem Reference
SA/ZYA	Cylindrical without end cut	C
SB/ZYAS	Cylindrical with end cut	CE
SC/WRC	Cylindrical with radius end	B
SD/KUD	Ball Shape	S
SE/TRE	Oval shape burr	O
SF/RBF	Tree shape with radius end	TB
SG/SPG	Tree shape with point end	T
SH	Flame shape	F
SL/KEL	Cone with radius burr	K
SM/SKM	Cone shaped burr	A
SN	Inverted cone shape burrs	N
RIM	Rim shape burrs	R

Type of cut	Standard Cut
	Supreme Cut (Double Cut/Cross Cut)
	Deluxe Cut (Diamond Cut)
	Chip Breaker
	Aluma Cut

Range	2.5mm to 25mm (Head Dia)
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Application	Steel & Steel Castings
	High - Grade Steel
	Non - Ferrous Metal Cast Iron
	Plastic / Other Material

\* Custom solution burrs available upto 200 mm overall length.

## BURR SETS

We also offer burr cased sets in 6 mm and 3 mm shank

- BS1 -** C8, B6, S4, TB3, T3, F4, K2, A3  
**BS2 -** C4, B3, S3, TB2, T2, F3, K6, A11  
**MINIBS1 -** MC1, MC5, MB0, MB1, MS0, M01, MTB2, MT5, MF1, MK3, MA5, MA3





## DRILLING TOOLS

### DRILL - SOLID CARBIDE & HSS

#### SOLID CARBIDE DRILL

Solid

Range	3mm to 20mm
Length*	3X, 5X
Point Angle	142°
Coating	TiAIN

#### Through Coolant

Range	3mm to 20mm
Length*	3X, 5X, 7X
Point Angle	142°
Coating	TiAIN

#### Jobber

Range	3mm to 20mm
Length	3X, 5X
Point Angle	118°
Coating	TiAIN

\*Step Drill and Custom Solution Tools Also Available Upto 20X

Note: Special Wear Resistance Coating Also Available.



#### HSS DRILL

##### HSS Straight Shank Jobber Drill

Range	1mm to 13mm, 1/16" to 1/2"
Length	5X
Standard	DIN 338

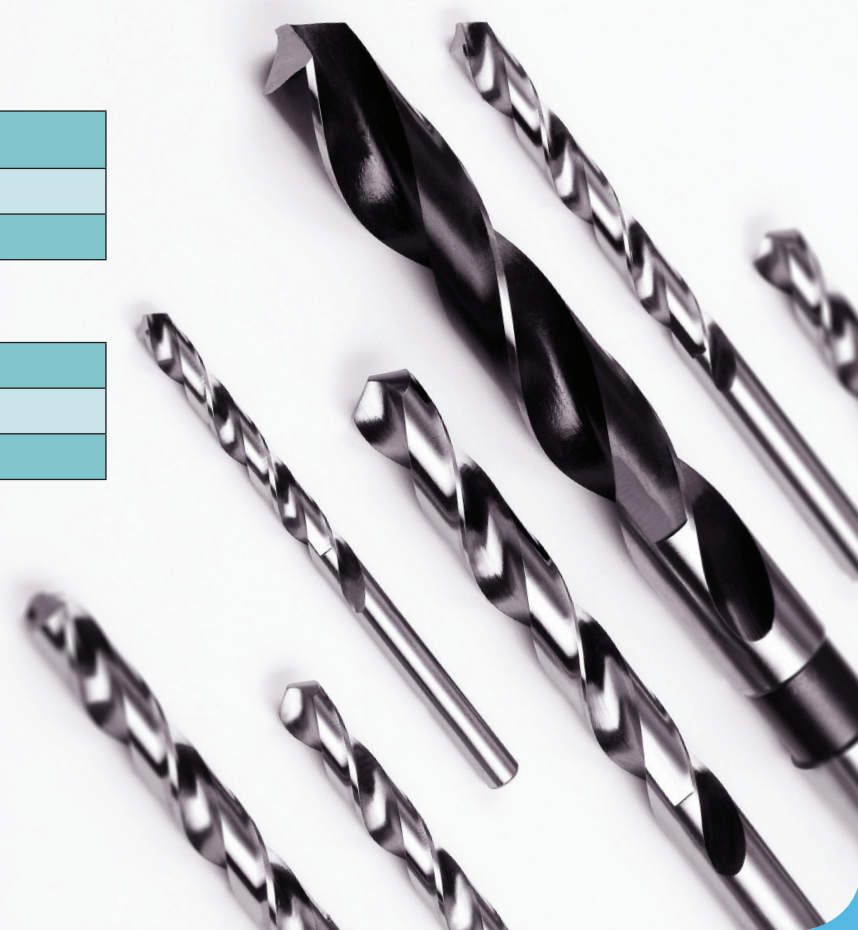
##### HSS Morse Taper Shank Drill

Range	8mm to 50mm, 3/8" to 1.1/8"
Length	5X
Standard	DIN 345

#### HSS DRILL CASED SETS

**HSS M2 Drill set 1 mm to 13 mm x 0.5 mm - 25 pcs**

**HSS M2 Drill set 2 mm to 8 mm x 0.5 mm - 13 pcs**



## THREADING TAPS

### HIGH SPEED STEEL MACHINE TAP

#### SPIRAL POINT TAP - SA SERIES (HSS-E Machine Tap Through Hole Application)

Range	3mm to 20mm
Thread Form	Metric Coarse, Metric Fine, UNC, UNF
Work Material	General Steel, Forged Steel
Standard	ISO, DIN 371/DIN 374/DIN 376, ISO Long Shank
Coating	TiN, TiAIN, TiCN



#### SPIRAL FLUTE TAP- SB SERIES (HSS-E Machine Tap Blind Hole Application)

Range	3mm to 24mm
Thread Form	Metric Coarse, Metric Fine, UNC, UNF
Work Material	General Steel, Forged Steel, Aluminium
Standard	ISO, DIN 371/DIN 374/DIN 376
Coating	TiN, TiAIN, TiCN



#### HSS STRAIGHT FLUTE TAPS - SC SERIES (HSS-E Machine Tap Through Hole & Blind Hole Application)

Range	3mm to 24mm
Thread Form	Metric Coarse, Metric Fine, UNC, UNF
Work Material	Cast Iron, SG Iron
Standard	ISO, DIN 371/DIN 374/DIN376
Coating	TiN, TiAIN, TiCN



#### HSS FORMING TAP - SD SERIES (HSS-E Machine Tap Cold Forming Application)

Range	3mm to 16mm
Thread Form	Metric Coarse, Metric Fine
Work Material	Aluminium, General & Forged Steel
Standard	ISO, DIN 371/DIN 374/DIN 376
Coating	TiN, TiAIN, TiCN



## THREADING TAPS

### HSS SHORT MACHINE & HAND TAP / CARBON STEEL HAND TAP

#### HSS HAND TAP For General Purpose

Range	M 1.6 - M 120 / 1/16" - 4"
Thread Form	M, MF, BSW, BSF, BA, BSP, BSPT, UNC, UNF, NPT, NPS
Standard	ISO, ISO Long Shank, ANSI, BS 949



#### CARBON STEEL TAP For General Purpose

Range	M2 to M50, 1/16" - 2"
Tolerance	7H / Zone 5
Thread Forms	M, MF, BSW, BSF, BSB, BA, BSP, UNF, UNC, NPT, ME, BSCY, WF, BSPT
Standard	BS 949, BS 1951, ANSI B 949, ANSI B 1971



## MILLING TOOLS

### SOLID CARBIDE END MILL

#### PROTON PLUS SERIES

(Solid Carbide End Mill and Ball End Mill for 45-58 HRC)

Range	3mm to 15mm
Flute	2, 4
Length	Regular, Long, Long Reach
Corner Style	Square End, Ball Corner Radius
Coating	Proton+

#### HSM SERIES

(Solid Carbide End Mill and Ball End Mill for 30 to 45 HRC for Die & Mould Industry)

Range	1mm to 20mm
Flute	2, 4
Length	Regular, Long, Rib Cutter
Corner Style	Square End, Ball
Coating	TiAIN

#### TR SERIES

(Solid Carbide End mill and Ball End mill for Stainless Steel, Titanium & High Temperature Alloys)

Range	4mm to 20mm
Flute	4, 5
Length	Regular
Corner Style	Square End, Ball, Corner Radius
Coating	Cr Base

#### HP SERIES

(Solid Carbide End Mill for Aluminium Application)

Range	4mm to 20mm
Flute	2
Length	Regular
Corner Style	Square End
Coating	TiAIN

#### GP SERIES

(Solid Carbide End Mill and Ball End Mill for General Purpose Application)

Range	1mm to 25mm
Flute	2, 3, 4
Length	Regular, Stub, Long, Extra Long, Long Reach
Corner Style	Square End, Ball, Chip Breaker
Coating	TiN, TiAIN

