



®

PRESTO

QUALITY SINCE 1843

**ENGINEERS
CUTTING
TOOLS**

**PRODUCT
GUIDE**

presto-tools.com

WELCOME TO THE **PRESTO** PRODUCT GUIDE

This publication supersedes all previous editions and continues the PRESTO tradition of offering a complete range of High Quality cutting tools.

The name PRESTO has been synonymous with the provision of Cutting Tool Solutions for over 170 years, and is now acknowledged as a comprehensive supplier of cutting tool solutions across a wide range of industrial applications.

The PRESTO range has been expanded to include many new product types and sizes.

Our R&D department continuously strive to offer new solutions for the ever changing environment in which we operate.

We will continue to invest our resources in all areas which we can make improvements, our Technical Help Desk being a practical example of our acknowledgement of customer requirements.

We recognise that logistical solutions are also a vital component of any service. Our customer Service and Distribution Teams are ready to discuss and respond to our customers requirements in order that the PRESTO name can remain at the forefront in it's field.

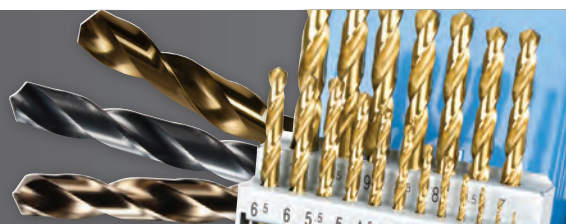
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DRILLING

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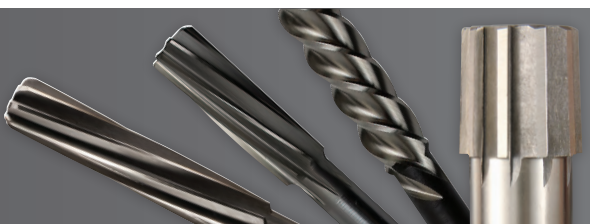
COUNTERSINKS

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REAMING

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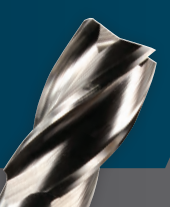
THREADING

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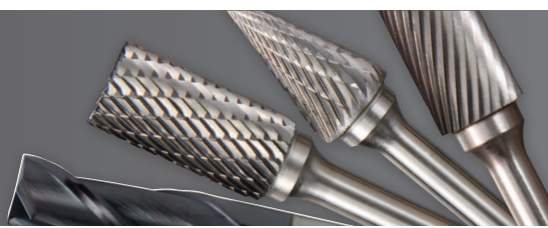
MILLING

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CARBIDE

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MISCELLANEOUS

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Straight Shank Jobber Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	01000	DIN 338 Jobber Length Drills	HSS	Std	0.3 - 20.0mm	1/64" - 3/4"	P1 Steam	118°
	01001			Std	1.0 - 16.0mm	3/64" - 1/2"	P0 Bright	118° Split
	01002			Elite	3.0 - 13.0mm	1/8" - 1/2"	P1 Steam	118° Split
	01010			Left Hand	3.0 - 13.0mm	1/8" - 1/2"	P1 Steam	118°
	01020			Number Drills		#1 - #60	P1 Steam	118°
	01040			Letter Drills		A - Z	P1 Steam	118°
	01065			Elite Plus	1.0 - 16.0mm	1/16" - 1/2"	P5 TiN	118° Split
	01150			Tri-Quad	1.0 - 13.0mm	1/16" - 1/2"	P1 / P2 Steam & Bronze	135° Split
	01200			Slow Spiral	3.0 - 13.0mm	1/8" - 1/2"	P0 Bright	118°
	01300			Quick Spiral	3.0 - 13.0mm	1/8" - 1/2"	P0 Bright	118°
	01320			Hi-Nox	3.0 - 13.0mm	1/8" - 1/2"	P1 Steam / Bright	130° Thin
	01900			Drill Blank	1.0 - 13.0mm	1/16" - 1/2"	P0 Bright	118°
	01111		HSCo	Heavy Duty	1.0 - 13.0mm	3/64" - 1/2"	P2 Bronze	135° Split
	01117			Super Elite	1.0 - 13.0mm	1/16" - 1/2"	P2 Bronze	135° Split
	01401			SM200	2.5 - 13.0mm	1/8" - 1/2"	P0 Bright	135° Split
	01405			SM200	2.5 - 13.0mm	1/8" - 1/2"	P5 TiN	135° Split
	01408			SM200	2.5 - 13.0mm	1/8" - 1/2"	P8 TiALN	135° Split
	01217		CARBIDE		3.0 - 20.0mm	3/32" - 1/4"	P0 Bright	120° Carbide Tip
	20100				1.0 - 13.0mm		P0 Bright	135° Solid Carbide

Straight Shank Stub Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	02000	DIN 1897 Stub Length Drills	HSS	Std	1.0 - 30.0mm	3/64" - 1"	P1 Steam	118° Split
	02005			Std	3.0 - 20.0mm		P5 TiN	118° Split
	08100			Rivot Bit Drills	3.0 - 6.0mm	3/32" - 1/4"	P1 Steam	135° Split
	08150			Double Ended Drill	2.0 - 10.0mm	3/32" - 9/32"	P1 Steam	135° Split
	08300			Panel Drills		3/32" - 5/16"	P1 Steam	118°
	02111		HSCo	Heavy Duty	1.0 - 13.0mm	1/16" - 1/2"	P2 Bronze	135° Split
	02115			Heavy Duty	1.0 - 13.0mm	1/16" - 1/2"	P5 TiN	135° Split
	02401			SM200	3.0 - 13.0mm	1/8" - 1/2"	P0 Bright	135° Split
	02405			SM200	3.0 - 13.0mm	1/8" - 1/2"	P5 TiN	135° Split
	02408			SM200	3.0 - 13.0mm	1/8" - 1/2"	P8 TiALN	135° Split
	08050			Spotting Drill	3.0 - 16.0mm		P0 Bright	90°
	02181			Welda	6.0 - 10.0mm		P2 Bronze	Welda Form 'E'
	02188	Factory Std	CARBIDE	Boron Welda	8.0mm		P8 TiALN	Welda Form 'E'

Straight Shank Long Series Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	04000	DIN 340 Long Series Drills	HSS	Std	1.0 - 16.0mm	3/64" - 5/8"	P1 Steam	118°
	04111		HSCo	Heavy Duty	1.0 - 13.0mm		P2 Bronze	135° Split

Straight Shank Long Series Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	04161	DIN 340 Long Series Drills	HSCo	SM200	3.0 - 13.0mm	1/8" - 1/2"	P0 Bright	135° Split
	04165						P5 TiN	
	04168						P6 TiCN	

Straight Shank Extra Length Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	05000	BS 328	HSS	Std	1.5 - 14.0mm	1/16" - 1/2"	P1 Steam	118°

Centre Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	07000	DIN 333 / BS 328	HSS	Form 'A'	1.0 - 12.5mm	BS1 - BS7	P0 Bright	118° / 60°

Blacksmith's 1/2" Shank Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	08610	Factory Std	HSS	Std	13.0 - 32.0mm	17/32" - 1.1/2"	P1 Steam	118°

Morse Taper Shank & Core Drills

	Series #	Standard	Material	Type	Size Range		Surface	Point
	11000	DIN 345	HSS	Std	6.0 - 100.0mm	1/4" - 3"	P1 Steam	118°
	15000	BS 328			6.0 - 50.0mm	1/4" - 2"		118°
	17000	DIN 343		Std 3 Flute	10.0 - 40.0mm	1/4" - 1.1/2"		118° Truc.
	11111	DIN 345	HSCo	Heavy Duty	10.0 - 40.0mm	13/32" - 1"		118° Split
	11211	Factory Std		H/D Slow Spiral	10.0 - 40.0mm	7/16" - 1.1/4"		135° Split

Drill Sleeves

	Series #	Standard	Material	Type	Size Range		Surface	Point
	91030	Factory Std	#45	Hardened & Ground	MTS1	MTS6	P0 Bright	N/A

Annular Cutters

	Series #	Standard	Material	Type	Size Range		Surface	Shank
	49010	Factory Std	HSS	SHORT	12.0 - 52.0mm		P0 Bright	23mm x Ø19mm
	49020			LONG	12.0 - 63.0mm		P0 Bright	23mm x Ø19mm

HSS Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09500M25	0950013	13	1/64"	1/16" - 1/4"
	0950015	15	1/32"	1/16" - 1/2"
	0950021	21	1/64"	1/16" - 3/8"
 Set shown 09900M25	0950029	29	1/64"	1/16" - 1/2"
	0950060	60	#1	#1 - #60
	09500M19	19	0.5mm	1mm - 10mm
 Set shown 09500M170	09500M25	25	0.5mm	1mm - 13mm
	09500M41	41	0.1mm	6mm - 10mm
	09500M50	50	0.1mm	1mm - 5.9mm
	09510M19	19	0.5mm	1mm - 10mm
	09500M170	170	0.5mm	1mm - 10mm
	09500M240	240	0.5mm	1mm - 13mm
	09900M29	55	0.5mm	1mm - 13mm
	09540M29	435	0.5mm	1mm - 13mm

HSS Left Hand Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09520M15	09520M15	15	0.5mm	3mm - 10mm
	09520M21	21	0.5mm	3mm - 13mm

HSS Hi-Nox Drill Sets - DIN338~ Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09502M19	09502M19	19	0.5mm	1mm - 10mm
	09502M25	25	0.5mm	1mm - 13mm
	09902M25	55	0.5mm	1mm - 13mm

HSS Tri-Quad - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09503M19	09503M19	19	0.5mm	1mm - 10mm
	09503M25	25	0.5mm	1mm - 13mm

HSS Elite Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09522M19	09522M19	19	0.5mm	1mm - 10mm
	09522M25	25	0.5mm	1mm - 13mm
	09522M41	41	0.1mm	6mm - 10mm
	09522M50	50	0.1mm	1mm - 5.9mm
	09901M29	55	0.5mm	1mm - 13mm
	09522M170	170	0.5mm	1mm - 10mm

HSS Elite+ Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09565M19	09565M19	19	0.5mm	1mm - 10mm
	09565M25	25	0.5mm	1mm - 13mm
	09565M41	41	0.1mm	6mm - 10mm
	09565M50	50	0.1mm	1mm - 5.9mm
	09965M25	55	0.5mm	1mm - 13mm
	09565M170	170	0.5mm	1mm - 10mm
	09565M240	240	0.5mm	1mm - 13mm

HSCo Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09501M19	09501M19	19	0.5mm	1mm - 10mm
	09501M25	25	0.5mm	1mm - 13mm
	09501M41	41	0.1mm	6mm - 10mm
	09501M50	50	0.1mm	1mm - 5.9mm
	09911M25	55	0.5mm	1mm - 13mm
	09501M170	170	0.5mm	1mm - 10mm

HSCo Super Elite Drill Sets - DIN338 Jobber Drills

	Part No	No of Drills	Increments	Range
 Set shown 09507M19	09507M19	19	0.5mm	1mm - 10mm
	09507M25	25	0.5mm	1mm - 13mm

HSS Blacksmith Drill Set

	Part No	No of Drills	Increments	Range
	0869014-25	6		14,16,18, 20,22,25mm

HSS Annular Cutter Sets

	Part No	No of Drills	Increments	Range
 Set shown 0949010	0949010	6	2mm	14mm - 24mm SHORT
	0949020	6	2mm	14mm - 24mm LONG

Straight Shank Countersinks

	Series #	Standard	Material	Type	Small Ø	Large Ø	Surface	Form
	78011	DIN 334	HSS	60° 3 Flt	1.6 - 6.3mm	6.3 - 25.0mm	PO Bright	C
	78010	DIN 335		90° 3 Flt	1.3 - 4.2mm	4.3 - 31.0mm	PO Bright	C
	78015	DIN 335		90° 3 Flt	1.3 - 3.5mm	4.3 - 20.5mm	P5 TiN	C
	78012	Factory	HSCo	90° De Burr	2.0 - 5.0mm	5.0 - 10.0mm	PO Bright	

Morse Taper Shank Countersinks

	Series #	Standard	Material	Type	Small Ø	Large Ø	Surface	Form
	78020	DIN 335	HSS	90° 3 Flt	3.2 - 28.0mm	15.0 - 100.0mm	PO Bright	D

Straight Shank Countersinks Sets

	Series #	Material	Type	Size Range	Surface
	78091	HSS	90° Straight Shank - 3 Flute	6mm - 16mm	PO Bright
	78095				P5 TiN

Straight Shank Reamers								
	Series #	Standard	Material	Type	Size Range		Surface	Form
	73060	DIN 206	HSS	SS Hand	1.5 - 40.0mm	1/16" - 2"	P0 Bright	B
	73000	BS 328		SS Machine	1.5 - 16.0mm	1/16" - 1/2"	P0 Bright	B
	75040	DIN 9		1:50 Taper Pin	1.5 - 50.0mm		P0 Bright	A
	75020	BS 328		1:48 Taper Pin		1/16" - 7/8"	P0 Bright	A
	73200	ANSI		1:16 NPT		1/16" - 2"	P0 Bright	A

Straight Shank Adjustable Reamers								
	Series #	Standard	Material	Type	Size Range		Surface	Form
	75090	Factory	Special Steel	Straight	8.0 - 65.0mm		P0 Bright	
	75290				8.0 - 65.0mm		P0 Bright	
	75080	BS 3088			3/8" - 2.7/32"	H1 - H16	P0 Bright	

Morse Taper Shank Reamers								
	Series #	Standard	Material	Type	Size Range		Surface	Form
	72000	BS 328	HSS	MTS	3.0 - 40.0mm	1/8" - 1 1/2"	P0 Bright	B
	72050	DIN 311		Bridge	6.4 - 40.0mm		P0 Bright	

Chucking Reamers								
	Series #	Standard	Material	Type	Size Range		Surface	Form
	75201	DIN 212	HSCo	Straight	1.4 - 20.0mm		P0 Bright	A,C
	75211	DIN 212		Spiral	1.4 - 20.0mm		P0 Bright	B,D
	75221	DIN 212		Quick	2.0 - 20.0mm		P0 Bright	E
	75101	DIN 208		Straight	3.0 - 50.0mm		P0 Bright	A
	75111	DIN 208		Spiral	3.0 - 50.0mm		P0 Bright	B
	75121	DIN 208		Quick	5.0 - 32.0mm		P0 Bright	C

ISO Metric Coarse Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60000	ISO 529	HSS	Straight	M1.6 - M60	P0 Bright
	60005			Straight	M3 - M16	P5 TiN
	60010			Spiral Point	M1 - M30	P1 Steam
	60015			Spiral Point	M3 - M16	P5 TiN
	60020			Spiral Flute	M2 - M30	P0 Bright
	60025			Spiral Flute	M3 - M16	P5 TiN
	60027			Spiral Flute	M2 - M30	P1 Steam
	61117		HSCo	Spiral Point	M3 - M20	P6 TiCN
	61127			Spiral Flute	M3 - M20	P6 TiCN
	61000	ISO 2283	HSS	Straight	M3 - M24	P0 Bright

ISO Metric Fine Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60080	ISO 529	HSS	Straight	M3 - M40	P0 Bright
	60085			Straight	M3 - M16	P5 TiN
	62810			Spiral Point	M4 - M22	P1 Steam
	62820			Spiral Flute	M4 - M22	P0 Bright

ISO UNC Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60100	ISO 529	HSS	Straight	No.1 - 2"	P0 Bright
	60110			Spiral Point	No.1 - 1"	P1 Steam
	60120			Spiral Flute	No.4 - 1"	P0 Bright

ISO UNF Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60200	ISO 529	HSS	Straight	No.0 - 1.1/2"	P0 Bright
	60210			Spiral Point	No.4 - 1"	P1 Steam
	60220			Spiral Flute	No.10 - 1"	P0 Bright

ISO BSW Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60300	ISO 529	HSS	Straight	1/16" - 2.1/2"	P0 Bright
	60310			Spiral Point	1/8" - 1"	P1 Steam
	60320			Spiral Flute	1/8" - 1"	P0 Bright

ISO BSF Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60400	ISO 529	HSS	Straight	3/16" - 2.1/2"	P0 Bright
	60420			Spiral Flute	3/16" - 1"	P0 Bright

ISO BA Fine Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60500	ISO 529	HSS	Straight	No.12 - No.0	P0 Bright

ISO BSP Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60600	ISO 2284	HSS	Straight BSP	1/8" - 2.1/2"	P0 Bright
	60610			Spiral Point BSP	1/8" - 3/4"	P1 Steam
	60620			Spiral Flute BSP	1/8" - 3/4"	P0 Bright
	60680			Straight BSPT	1/8" - 2"	P0 Bright

ANSI NPT Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60750	ANSI 94.9	HSS	Straight NPT	1/16" - 2"	P0 Bright
	60760			Straight NPTF	1/8" - 1.1/4"	P0 Bright

ISO Fluteless Roll Taps

	Series #	Standard	Material	Type	Size Range	Surface
	69000	ISO 529	HSS	Metric ROLL	M2 - M12	P0 Bright
	69010			UNC ROLL	No.2 - 1/2"	P0 Bright
	69030			BSW ROLL	1/4" - 3/8"	P0 Bright

Circular Split Dies

	Series #	Standard	Material	Type	Size Range	Surface
	64100	BS 1127	HSS	Metric (M)	M1.2 - M36	P0 Bright
	64110			Metric Fine (MF)	M3 - M32	P0 Bright
	64120			UNC	No.1 - 1.1/2"	P0 Bright
	64130			UNF	No.0 - 1.1/2"	P0 Bright
	64140			BSW	1/16" - 1.1/2"	P0 Bright
	64150			BSF	3/16" - 1.1/2"	P0 Bright
	64160			G(BSPF)	1/8" - 2"	P0 Bright
	64170			BA	No.14 - No.0	P0 Bright
	64190	ANSI-B1.20.1		NPT	1/8" - 2"	P0 Bright

Circular Solid Dies

	Series #	Standard	Material	Type	Size Range	Surface
	64000	DIN 223	HSS	Metric (M)	M3 - M24	P0 Bright
	64010			Metric Fine (MF)	M5 - M30	P0 Bright

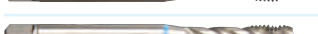
Dienuts

	Series #	Standard	Material	Type	Size Range	Surface
	64400	BS 1127	HSS	Metric (M)	M3 - M42	P0 Bright
	64410			Metric Fine (MF)	M3 - M42	P0 Bright
	64420			UNC	No.8 - 2"	P0 Bright
	64430			UNF	No.8 - 1.1/2"	P0 Bright
	64440			BSW	1/8" - 2"	P0 Bright
	64450			BSF	3/16" - 1.3/4"	P0 Bright
	64460			G(BSPF)	1/8" - 1.1/2"	P0 Bright
	64490			NPT	1/8" - 2"	P0 Bright

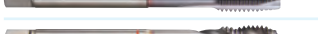
DIN 352 Metric Coarse Taps

	Series #	Standard	Material	Type	Size Range	Surface
	60702	N	HSS	Straight	M3 - M24	P0 Bright

DIN 371 Metric Coarse Taps

	Series #	Standard	Material	Type	Size Range	Surface
	631305	N	HSSE	Straight	M3 - M10	P0 Bright
	631313	GG	HSSE PM	Straight		P6 TiCN
	631319	RH15	HSSE PM	Spiral Flute		P6 TiCN
	631332	BN	HSS	Spiral Point		P0 Bright or P5 TiN
	631334	BVA	HSS	Spiral Point		P0 Bright
	631363	R40N	HSS	Spiral Flute		P0 Bright or P5 TiN
	631370	R40VAT	HSS	Spiral Flute		P0 Bright
	631377	FCS	HSSE PM	Fluteless Roll		P5 TiN
	651346	BVAX	HSSE PM	Spiral Point		P6 TiCN
	651386	R40VAX	HSSE PM	Spiral Flute		P6 TiCN

DIN 376 Metric Coarse Taps

	Series #	Standard	Material	Type	Size Range	Surface
	631405	N	HSSE	Straight	M6 - M36	P0 Bright
	631413	GG	HSSE PM	Straight	M8 - M16	P6 TiCN
	631419	RH15	HSSE PM	Spiral Flute	M8 - M24	P6 TiCN
	631432	BN	HSSE	Spiral Point	M8 - M42	P0 Bright or P5 TiN
	631434	BVA	HSSE	Spiral Point	M8 - M24	P0 Bright
	631463	R40N	HSSE	Spiral Flute	M6 - M42	P0 Bright or P5 TiN
	631470	R40VAT	HSSE	Spiral Flute	M8 - M24	P0 Bright
	651446	BVAX	HSSE PM	Spiral Point	M12 - M20	P6 TiCN
	651486	R40VAX	HSSE PM	Spiral Flute	M8 - M24	P6 TiCN

DIN 374 Metric Coarse & MF Taps

	Series #	Standard	Material	Type	Size Range	Surface
	632505	N	HSSE	Straight	M8 - M27	P0 Bright
	632532	BN		Spiral Point	M8 - M16	P0 Bright
	632563	R40N		Spiral Flute	M8 - M24	P0 Bright or P5 TiN
	652546	BVAX		Spiral Point	MF8 - MF16	P0 Bright

DIN 5156 BSPF (G) Taps

	Series #	Standard	Material	Type	Size Range	Surface
	635705	N	HSSE	Straight	1/8" - 1"	P0 Bright
	635732	BN		Spiral Point		
	635763	R40N		Spiral Flute		

Tap Wrenches

	Series #	Type	Size Range	Surface
	69823	Letter Size	M2 - M12 (1/16 - 1/2)	Grey
	69833	T Type	M2 - M12 (1/8 - 1/2)	Chrome
	69843	American Bar Type	M3 - M60 (1/8 - 2.1/2)	Grey

Diestocks

	Series #	Type	Size Range	Surface
	69403	Circular Split	13/16 x 1/4 - 4 x 1	General
	69413	Circular Solid	M20 x 5 - M55 x 22	General

HSS Tap & Die Sets

	Part No	Type	Size Range	No of Pcs
 Set shown 6960009	6960009	BSW	1/4" - 1"	32
	6960014	BSF	1/4" - 1"	32
	6960023	UNC	1/4" - 1"	32
	6960026	UNF	1/4" - 1"	32
	6960038	Metric	M3 - M12	26
	6960042	Metric	M6 - M24	36

HSS Tap & Drill Sets

	Part No	Drill Type	Range	Tap Type
 Set shown 6950060010	6950060000	HSS DIN338	M3-M12	Straight Flute
	6950060010			Spiral Point
	6950060020			Spiral Flute
	6950060027			Spiral Flute (P1)

HSS Tap & Drill Sets

	Part No	Drill Type	Range	Tap Type
 Set shown 6955560027	6955560000	HSS DIN338 TiN Tipped	M3-M12	Straight Flute
	6955560010			Spiral Point
	6955560020			Spiral Flute
	6955560027			Spiral Flute (P1)

HSS Tap & Drill Sets

	Part No	Drill Type	Range	Tap Type
 Set shown 6956560010	6956560000	HSS DIN338 Elite +	M3-M12	Straight Flute
	6956560010			Spiral Point
	6956560020			Spiral Flute
	6956560027			Spiral Flute (P1)

Normal Series Slot Drills

	Series #	Standard	Material	Shank Type	Size Range	Surface
	30131	BS 122/4	HSS	Screw	1.5mm - 50.0mm 1/16" - 2"	P0 Bright
	30201		HSCo	Plain	1.5mm - 40.0mm 1/16" - 1.1/2"	
	30206					
	30221			Screw		P0 Bright
	30226					

Long Series Slot Drills

	Series #	Standard	Material	Shank Type	Size Range	Surface	
	31131	BS 122/4	HSS	Screw	2.0mm - 50.0mm 1/16" - 2"	PO Bright	
	31301		HSCo	Plain	2.0mm - 32.0mm 1/16" - 1.1/4"		
	31321			Screw			

Ball Nose Cutters Normal Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48131	BS 122/4	HSS	Plain	2.0mm - 25.0mm 1/16" - 1"	P0 Bright
	48151			Screw	2.0mm - 25.0mm 1/16" - 1.1/2"	

Ball Nose Cutters Long Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48191	BS 122/4	HSS	Screw	3.0mm - 20.0mm 1/16" - 1.1/2"	P0 Bright

Short Series Tricutters

	Series #	Standard	Material	Shank Type	Size Range	Surface
	35131	Factory Std	HSCo	Screw	3/8" - 1"	P0 Bright

Throwaway Tri-Cutters Short Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	33011	DIN 6527	HSCo	Flatted	1.0mm - 6.0mm 1/16" - 1/4"	P0 Bright
	33016					P6 TiCN

Throwaway Tri-Cutters Long Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	33111	DIN 6527	HSCo	Flatted	1.5mm - 6.0mm 1/16" - 1/4"	P0 Bright
	33116					P6 TiCN

Normal Series Endmills

	Series #	Standard	Material	Shank Type	Size Range	Surface
	40131	BS 122/4	HSS	Screw	2.0mm - 50.0mm 1/16" - 2"	P0 Bright
	40221		HSCo		2.0mm - 40.0mm 1/16" - 1.1/2"	
	40226				P6 TiCN	

Long Series Endmills

	Series #	Standard	Material	Shank Type	Size Range	Surface
	41131	BS 122/4	HSS	Screw	3.0mm - 50.0mm 3/32" - 2"	P0 Bright
	41221		HSCo		3mm - 40mm 1/16" - 1.1/2"	

Woodruff Cutters

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48231	Factory Std	HSS	Screw	10.5mm - 45.5mm 1/2" - 1.1/2" #204 - #1212	P0 Bright

T-Slot Cutters

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48331	Factory Std	HSS	Screw	6.0mm - 22.0mm 1/4" - 1"	P0 Bright

Dovetail Cutters

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48431	Factory Std	HSS	Screw	1/2" - 1.1/2" 45°, 55°, 60°	P0 Bright

Normal Series Endmills

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48711	Factory Std	HSS	Flatted	R1 - R16	P0 Bright
	48721			Screw		

HSS Screw Shank Cutter Sets

	Series #	Material	Shank Type	Size Range	Surface
	30191	HSS	Screw	6mm - 16mm	P0 Bright
	40191				

Slot Drills Short Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	30011	DIN 327	HSCo	Flatted	2mm - 40mm	P0 Bright
	30016					P6 TiCN

Slot Drills Long Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	31211	DIN 327	HSCo	Flatted	3mm - 25mm	P0 Bright
	31216					P6 TiCN

Ball Nose Slot Drills Short Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48011	DIN 327	HSCo	Flatted	3mm - 25mm	P0 Bright
	48016					P6 TiCN

Ball Nose Slot Drills Long Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	48021	DIN 327	HSCo	Screw	3mm - 20mm	P0 Bright
	48026					P6 TiCN

Tri-Cutters Short Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	36011	DIN 844	HSCo	Flatted	3mm - 25mm	P0 Bright
	36016					P6 TiCN

Endmills Short Series

	Series #	Standard	Material	Shank Type	Size Range	Surface
	40011	DIN 844	HSCo	Flatted	2mm - 40mm	P0 Bright
	40016					P6 TiCN
	40021			Screw	2mm - 36mm	P0 Bright
	40026					P6 TiCN

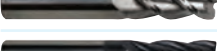
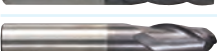
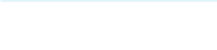
Endmills Long Series

	Series #	Standard	Material	Shank Type	Size Range	Surface	
	41011	DIN 844	HSCo	Flatted	3mm - 40mm	P0 Bright	
	41016					P6 TiCN	
	41021			Screw		P0 Bright	
	41026					P6 TiCN	

Ripping Cutters Short Series

							Series #	Standard	Material	Shank Type	Size Range	Surface
		46081	DIN 844	HSCo	Flatted	6mm - 40mm Coarse Pitch	P0 Bright					
		46088					P6 TiCN					
		46091			Screw		P0 Bright					
		46098					P6 TiCN					
		46481			Flatted	6mm - 25mm Fine Pitch	P0 Bright					
		46488					P6 TiCN					

Carbide Cutters

	Series #	Standard	Material	Shank Type	Size Range	Surface
	31908	Factory Standard	HRC55	Plain	1mm - 20mm	P8 TiALN
	31991					P0 Bright
	40848					P8 TiALN
	48908				3mm - 20mm	P8 TiALN

Carbide Burrs						
	Series #	Cut	Style		Size Range	Surface
	27400	EXP (Double)	Shape 'A'	Cylindrical	2.38mm (3/32") - 15.88mm (5/8")	P0 Bright
	27401	SGL (Single)				
	27403	ALU (Aluminium)				
	27410	EXP (Double)	Shape 'B'	Cylindrical With End Cut	2.38mm (3/32") - 15.88mm (5/8")	P0 Bright
	27411	SGL (Single)				
	27420	EXP (Double)	Shape 'C'	Ball Nosed Cylinder	2.38mm (3/32") - 15.88mm (5/8")	P0 Bright
	27421	SGL (Single)				
	27423	ALU (Aluminium)				
	27430	EXP (Double)	Shape 'D'	Ball	3.00mm (3/16") - 16.00mm (5/8")	P0 Bright
	27431	SGL (Single)				
	27433	ALU (Aluminium)				
	27440	EXP (Double)	Shape 'E'	Oval	3.00mm (1/4") - 16.00mm (5/8")	P0 Bright
	27441	SGL (Single)				
	27450	EXP (Double)	Shape 'F'	Ball Nosed Tree	3.00mm (1/4") - 15.88mm (5/8")	P0 Bright
	27451	SGL (Single)				
	27453	ALU (Aluminium)				
	27460	EXP (Double)	Shape 'G'	Tree Pointed Nose	3.00mm (1/4") - 15.88mm (5/8")	P0 Bright
	27461	SGL (Single)				
	27470	EXP (Double)	Shape 'H'	Flame	3.00mm (5/16") - 15.88mm (5/8")	P0 Bright
	27471	SGL (Single)				
	27990	EXP (Double)	Shape 'J'	60° Countersink	12.70mm (1/2") - 15.88mm (5/8")	P0 Bright
		SGL (Single)				
	27980	EXP (Double)	Shape 'K'	90° Countersink	6.00mm (1/4") - 15.88mm (5/8")	P0 Bright
		SGL (Single)				

Carbide Burrs

	Series #	Cut	Style		Size Range	Surface
	27500	EXP (Double)	Shape 'L'	Ball Nosed Cone	3.00mm (1/4") - 15.88mm (5/8")	P0 Bright
	27501	SGL (Single)				
	27510	EXP (Double)	Shape 'M'	Pointed Cone	3.00mm (1/4") - 12.70mm (1/2")	P0 Bright
	27511	SGL (Single)				
	27520	EXP (Double)	Shape 'N'	Inverted Cone	6.00mm (1/4") - 15.88mm (5/8")	P0 Bright
	27521	SGL (Single)				

Carbide Burr Sets

	Part No	No of Pcs	Contents
 Set shown 27600-10PC6	27600-4PC6	4	3/8" Shapes E,F - Double Cut 1/2" Shapes C,B - Single Cut
	27600-12ACFGM	5	1/2" Shapes A,C,F,G,M - Double Cut
	27600-12ACFLM	5	1/2" Shapes A,C,F,L,M - Double Cut
	27600-12BCFGM	5	1/2" Shapes B,C,F,G,M - Double Cut
	27600-8PC6M	8	3/8" Shapes E,F - Double Cut 3/8" Shapes C,L - Single Cut 1/2" Shapes A,C,D,G - Single Cut
	27600-8PC6S	8	3/8" Shapes A,B,C,D - Single Cut 1/2" Shapes E,F,G,M - Single Cut
	27600-10PC3	10	3mm Shapes A,C,D,F,J - Fine Cut 3mm Shapes F,G,M - Double Cut 3mm Shape B - Chip Breaker Cut 3mm Shape D - Single Cut
	27600-10PC6	10	3/8" Shapes A,C,F,G - Double Cut 1/2" Shapes A,C,D,F,G,M - Double Cut
	27600-20PC3	20	3mm Shapes B,C,D,D (Double Ended),E,F,G,J,L,N - Fine Cut 3mm Shapes A,D,E,F,L,M 3mm - Double Cut 3mm Shapes A,C - Chip Breaker Cut 3mm Shape D - Single Cut 4mm Shape D - Single Cut 4mm Shape D - Double Cut

Toolbits						
	Series #	Standard	Type	Material	Size Range	Surface
	70000	DIN 4964	Square	HSS	4mm - 20mm (3/16" - 1")	P0 Bright
	70001			HSCo8	4mm - 25mm (3/16" - 1")	
	70020		Round	HSS	4mm - 12mm (3/16" - 1")	
	70021			HSCo8	4mm - 20mm (1/8" - 1")	
	70040		Flat	HSS	(1/4" x 1/2" - 3/4" x 1")	
	70041			HSCo8	4 x 6mm - 6 x 12mm (1/4 x 1/2" - 3/4" x 1")	

Repair Tools				
	Series #	Material	Size Range	Surface
	09010	AISI 1095	No.1 - No.9	Grey
	09600		Set 1 1 No.1 - No.5 Set 2 1 No.1 - No.6	Grey
	96000	HSS	No.1 - No.4	P0 Bright
	09017		1/8" - 5/8" M2.5 - M16 #3 - #14	P2 Bronze
	09607			Multi
	09040	CARBIDE	M3 - M12	P0 Bright
	09040SET			P0 Bright

NOTES



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