SOMTA

World Class Cutting Tools

THREADING TOOLS

Company Profile

Somta Tools was founded in 1954 by Samual Osborn Ltd of Sheffield, England, through its subsidiaries Osborn Steels and Osborn Mushet Tools. The name Somta was chosen as the acronym for these companies operating in Africa.
Still at its original site on Edendale Road in Pietermaritzburg, the Company's principle business is the
manufacture and distribution of engineering components and consumables.

Somta was established in 1954 with 20 employees and today has grown to be one of the largest cutting tool manufacturers in the southern hemisphere, operating from offices and modern manufacturing facilities with a complement of over 600 employees.
Somta manufactures 25 000 standard items and a further 6000 made-to-order items to serve local markets and export markets in 60 countries worldwide.
Somta specialises in the design and manufacture of threading tools ,drills, reamers, milling cutters, toolbits, and custom tools for the industrial and "do it yourself" markets.
A South African ISO 9001 company

Coatings

Bright Finish
A bright finish has no surface treatment and is suitable for general purpose use.

Blue Finish
A blue finish is achieved by steam tempering - a thermal process which imparts a non-metallic surface to the tool. This surface is porous and by absorbing lubricant, helps prevent rusting, reduces friction and cold welding, resulting in increased tool life.
Steam tempered products can successfully be used at slightly increased machining rates or on more difficult to machine materials.

Gold Oxide
This is a metallic brown coloured surface treatment achieved by a low temperature temper and is normally only used on cobalt products for identification purposes

Nitriding
Nitriding imparts a hard surface to the tool and is used for prolonging tool life and machining difficult to machine materials. Because nitriding makes the edge more brittle, care must be exercised in the type of application Nitrided tools are normally also steam tempered.

Titanium Nitride Coating (TiN)
TiN coating is a very hard, gold coloured surface coating a few microns thick which is applied by means of a complex process, called Physical Vapour Deposition (PVD), by advanced modern equipment. The coating is non-metallic and therefore reduces cold welding.
In certain applications increased speed and feed rates can be achieved because of:

a. The hardness of the coating.
b. The reduction in cutting force required due to a decrease in friction between the tool and the workpiece. Tool performance will deteriorate after re-sharpening.

Titanium Carbonitride(TiCN)
The addition of carbon to TiN results in a significant increase in the hardness of TiCN over TiN. TiCN also has a much lower coefficient of friction which enhances the surface finish of components machined with TiCN coated tools, higher productivity can be achieved on a wide range of materials but, in particular stainless steel, titanium and nickel based alloys.

Titanium Aluminium Nitride(TiALN)
In addition to a higher hardness than both TiN and TiCN the aluminium in the coating imparts a much greater oxidation stability. This is as a result of a very thin film of (Aluminium Oxide) being formed on the surface of the TiALN. The film is self repairing, leading to additional increased service life. These improvements allow the coating to withstand much higher temperatures which in turn allows increased cutting conditions, especially usefull when machining Cast Iron and tough steels.

Materials

Somta Tools are manufactured from the finest steel available. The heat treatment process is controlled by our Metallurgical laboratory using advanced computerised and electronic instrumentation.
High Speed Steel contains various elements such as Molybdenum,Tungsten, Cobalt and Vanadium and must be specially treated to produce the ideal combination of strength, toughness and wear resistance. Somta products are manufactured from one of the following High Speed Steels depending on the product and application.

	C	Cr	W	Mo	V	Co	Hardness (HRC)
M2	0.9	4	6	5	2	-	63 - 65
M35	0.9	4	6	5	2	5	64 - 66
M42	1.1	4	1.5	9.5	1	8	66 - 68.5(70)
M9V	1.25	4.2	3.5	8.5	3	-	64 - 66

M2 is the standard High Speed Steel and is used where toughness is important, together with a good standard of wear resistance and red hardness.
M35 is a development of M2 and contains 5% cobalt which gives improved hardness, wear resistance and red hardness. It may be used when cutting higher strength materials.
M42 can be heat treated to very high hardness levels of up to 70 HRC (1 000 HV) although normally a slightly lower figure will be employed to retain toughness. The steel is ideal for machining higher strength materials and work hardening alloys such as stainless steels, nimonic alloys etc. Despite its high hardness, M42 has good grindability characteristics due to a lower vanadium content.
M9V material is mainly used in the manufacture of machine taps because of its good wear resistance, good grinding capabilities, high hardness and excellant toughness.

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Note: Red denotes Somta Premium Products

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ICON LEGEND & DESCRIPTION

MATERIAL	HSS	High Speed Steel	HSS Co5	5% Cobalt High Speed Steel	HSS Co8	8% Cobalt High Speed Steel	HSSE V3	3% Vanadium High Speed Steel	
TYPE	TYPE N	Type N Standard	TYPE FS	Parabolic Flute Strong Core					
MILLING PROFILE		Staggered Teeth Side & Face Cutters		Straight Teeth Side & Face Cutters	HR	Fine Pitch Knuckle Type Roughing Profile	NR	Coarse Pitch Knuckle Type Roughing Profile	NF Flat Crest Rough Semi-finishing Proflie
STANDARD	M	Metric	ISO 529	ISO Standard 529	DIN 371	DIN Standard 371	RF	Refined Flute	QS Quick Spiral
SHANK	∅ h6	Flatted Shank h6 Tolerance	∅ h7	Plain Shank h7 Tolerance	∅ h8	Threaded Shank h8 Tolerance	MT 1 - 2	Morse Taper Shank	
POINT ANGLE	118°	Drill Point Angles	60° & 90°	Countersink Angles					
DRILL LENGTH		Stub Series		Jobber Series		Long Series		Extra Length Series	
END MILL LENGTH		Regular Series		Long Series					
FLUTE HELIX ANGLE	30°	Right hand helix 30°	10° LH	Left hand helix 10°					
COUNTERSINKING ANGLE	60°	Form A	60°	Form R	60° 120°	Form B			
INCLINATION	1:50	To Suit 1 in 50 Taper	1:48	To Suit 1 in 48 Taper					
THREADS	MF	Metric Fine	60°	Metric Thread Form - with 60° flank angle					
TOLERANCE	∅ r =H11 d1=js14	Corner Rounding Tolerance	∅ h8 (d)	Tolerance h8 on Diameter	∅ w=e8 d=h12	Woodruff Tolerance	∅ h8	Drill Diameter Tolerance	
APPLICATION		Taper, Through & Blind Hole		Through & Blind Hole		Blind Hole Tapping		Through Hole Tapping	Hand Taps
APPLICATION		One Way Cutting		Two Way Cutting		Three Way Cutting	LH	Left Hand Cutting	Z Number of Teeth

WORLD CLASS CUTTING TOOLS

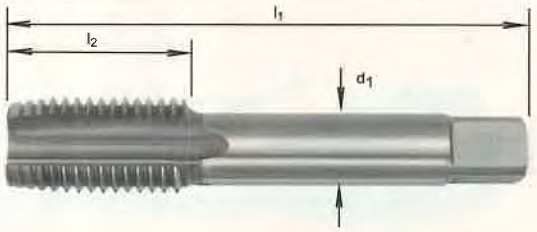
SOMTA World Class Cutting Tools

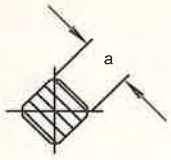
Code
501

THREADING TOOLS

Short Hand Taps

M | ISO 529 | 60° | HSS | ISO 2 6H | Straight Flute



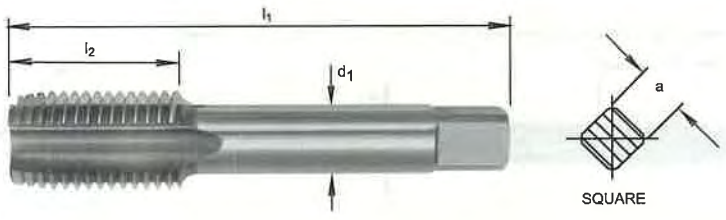


SQUARE

Size	Pitch	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOMING
M1	0.25	38.5	5.5	2.5	2	5010100	5010101	5010102	5010103
M1.1	0.25	38.5	5.5	2.5	2	5010110	5010111	5010112	5010113
M1.2	0.25	38.5	5.5	2.5	2	5010120	5010121	5010122	5010123
M1.4	0.3	40	7	2.5	2	5010140	5010141	5010142	5010143
M1.6	0.35	41	8	2.5	2	5010160	5010161	5010162	5010163
M1.8	0.35	41	8	2.5	2	5010180	5010181	5010182	5010183
M2	0.4	41	8	2.5	2	5010200	5010201	5010202	5010203
M2.2	0.45	44.5	9.5	2.8	2.24	5010220	5010221	5010222	5010223
M2.5	0.45	44.5	9.5	2.8	2.24	5010250	5010251	5010252	5010253
M3	0.5	48	11	3.15	2.5	5010300	5010301	5010302	5010303
M3.5	0.6	50	13	3.55	2.8	5010350	5010351	5010352	5010353
M4	0.7	53	13	4.0	3.15	5010400	5010401	5010402	5010403
M4.5	0.75	53	13	4.5	3.55	5010450	5010451	5010452	5010453
M5	0.8	58	16	5.0	4	5010500	5010501	5010502	5010503
M6	1.0	66	19	6.3	5	5010600	5010601	5010602	5010603
M7	1.0	66	19	7.1	5.6	5010700	5010701	5010702	5010703
M8	1.25	72	22	8.0	6.3	5010800	5010801	5010802	5010803
M9	1.25	72	22	9.0	7.1	5010900	5010901	5010902	5010903
M10	1.5	80	24	10.0	8	5011000	5011001	5011002	5011003
M11	1.5	85	25	8	6.3	5011100	5011101	5011102	5011103
M12	1.75	89	29	9.0	7.1	5011200	5011201	5011202	5011203
M14	2.0	95	30	11.2	9	5011400	5011401	5011402	5011403
M16	2.0	102	32	12.5	10	5011600	5011601	5011602	5011603
M18	2.5	112	37	14.0	11.2	5011800	5011801	5011802	5011803
M20	2.5	112	37	14	11.2	5012000	5012001	5012002	5012003
M22	2.5	118	38	16	12.5	5012200	5012201	5012202	5012203
M24	3.0	130	45	18	14	5012400	5012401	5012402	5012403
M27	3.0	135	45	20	16	5012700	5012701	5012702	5012703
M30	3.5	138	48	20	16	5013000	5013001	5013002	5013003
M33	3.5	151	51	22.4	18	5013300	5013301	5013302	5013303
M36	4.0	162	57	25	20	5013600	5013601	5013602	5013603
M39	4.0	170	60	28	22.4	5013900	5013901	5013902	5013903
M42	4.5	170	60	28	22.4	5014200	5014201	5014202	5014203
M45	4.5	187	67	31.5	25	5014500	5014501	5014502	5014503
M48	5.0	187	67	31.5	25	5014800	5014801	5014802	5014803
M52	5.0	200	70	35.5	28	5015200	5015201	5015202	5015203
M56	5.5	200	70	35.5	28	5015600	5015601	5015602	5015603
M60	5.5	221	76	40	31.5	5016000	5016001	5016002	5016003
M64	6.0	224	79	40	31.5	5016400	5016401	5016402	5016403
M68	6.0	234	79	45	35.5	5016800	5016801	5016802	5016803

Left Hand - Short Hand Taps

M | ISO 529 | 60° | HSS | ISO 2 6H | Straight Flute | LH



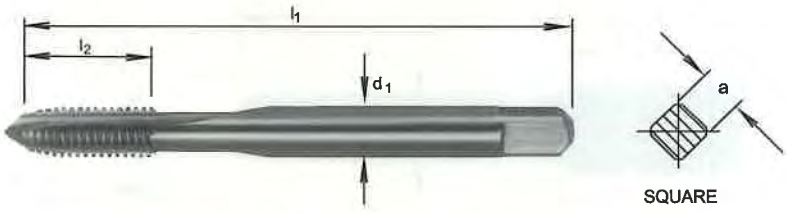
Size	Pitch	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOMING
M3	0.5	48	11	3.15	2.5	5190300	5190301	5190302	5190303
M4	0.7	53	13	4.0	3.15	5190400	5190401	5190402	5190403
M5	0.8	58	16	5.0	4	5190500	5190501	5190502	5190503
M6	1.0	66	19	6.3	5	5190600	5190601	5190602	5190603
M8	1.25	72	22	8.0	6.3	5190800	5190801	5190802	5190803
M10	1.5	80	24	10.0	8	5191000	5191001	5191002	5191003
M12	1.75	89	29	9.0	7.1	5191200	5191201	5191202	5191203
M14	2.0	95	30	11.2	9	5191400	5191401	5191402	5191403
M16	2.0	102	32	12.5	10	5191600	5191601	5191602	5191603
M18	2.5	112	37	14.0	11.2	5191800	5191801	5191802	5191803
M20	2.5	112	37	14.0	11.2	5192000	5192001	5192002	5192003
M22	2.5	118	38	16.0	12.5	5192200	5192201	5192202	5192203
M24	3.0	130	45	18.0	14	5192400	5192401	5192402	5192403
M27	3.0	135	45	20.0	16			5192702	
M30	3.5	138	48	20.0	16			5193002	
M33	3.5	151	51	22.4	18			5193302	
M36	4.0	162	57	25.0	20			5193602	

Code
508

THREADING TOOLS

STE Short Machine Taps

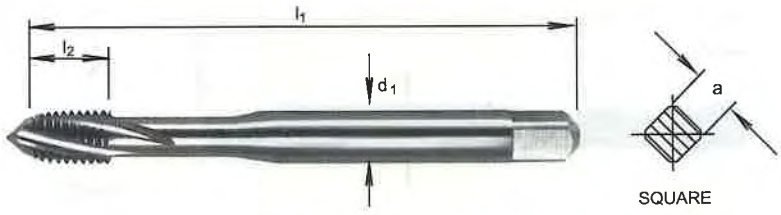
M | ISO 529 | HSSE V3 | 60° | ISO 2 6H | GUN NOSE (SPIRAL POINT)



Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M2	0.4	41	8	2.5	2	5080200
M3	0.5	48	11	3.15	2.5	5080300
M3.5	0.6	50	13	3.55	2.8	5080350
M4	0.7	53	13	4.0	3.15	5080400
M5	0.8	58	16	5.0	4	5080500
M6	1.0	66	19	6.3	5	5080600
M7	1.0	66	19	7.1	5.6	5080700
M8	1.25	72	22	8.0	6.3	5080800
M9	1.25	72	22	9.0	7.1	5080900
M10	1.5	80	24	10.0	8	5081000
M11	1.5	85	25	8.0	6.3	5081100
M12	1.75	89	29	9.0	7.1	5081200
M14	2.0	95	30	11.2	9	5081400
M16	2.0	102	32	12.5	10	5081600
M18	2.5	112	37	14.0	11.2	5081800
M20	2.5	112	37	14.0	11.2	5082000
M22	2.5	118	38	16.0	12.5	5082200
M24	3.0	130	45	18.0	14	5082400
M27	3.0	135	45	20.0	16	5082700
M30	3.5	138	48	20.0	16	5083000
M33	3.5	151	51	22.4	18	5083300
M36	4.0	162	57	25.0	20	5083600

STE Short Machine Taps

M | ISO 529 | HSSE V3 | 60° | ISO 2 6H | 15° | SQUARE



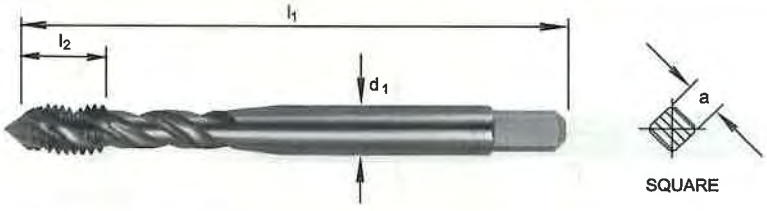
Size	Pitch	l1	l2	d1	a	SPIRAL FLUTE 15°
M3	0.5	48	11	3.15	2.5	5090300
M3.5	0.6	50	13	3.55	2.8	5090350
M4	0.7	53	13	4.0	3.15	5090400
M5	0.8	58	16	5.0	4	5090500
M6	1.0	66	19	6.3	5	5090600
M7	1.0	66	19	7.1	5.6	5090700
M8	1.25	72	22	8.0	6.3	5090800
M9	1.25	72	22	9.0	7.1	5090900
M10	1.5	80	24	10.0	8	5091000
M11	1.5	85	25	8.0	6.3	5091100
M12	1.75	89	29	9.0	7.1	5091200
M14	2.0	95	30	11.2	9	5091400
M16	2.0	102	32	12.5	10	5091600
M18	2.5	112	37	14.0	11.2	5091800
M20	2.5	112	37	14.0	11.2	5092000
M22	2.5	118	38	16.0	12.5	5092200
M24	3.0	130	45	18.0	14	5092400

Code
510

THREADING TOOLS

STE Short Machine Taps

M | ISO 529 | HSSE V3 | 60° | ISO 2 6H | 35°



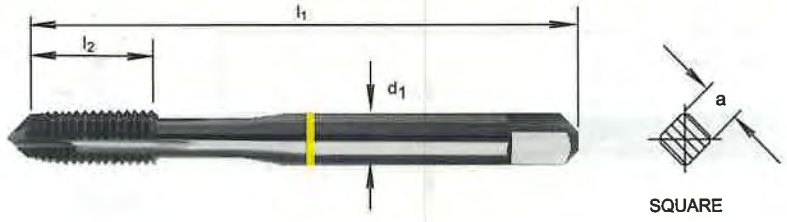
Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
M3	0.5	48	11	3.15	2.5	5100300
M3.5	0.6	50	13	3.55	2.8	5100350
M4	0.7	53	13	4.0	3.15	5100400
M5	0.8	58	16	5.0	4	5100500
M6	1.0	66	19	6.3	5	5100600
M7	1.0	66	19	7.1	5.6	5100700
M8	1.25	72	22	8.0	6.3	5100800
M9	1.25	72	22	9.0	7.1	5100900
M10	1.5	80	24	10.0	8	5101000
M11	1.5	85	25	8.0	6.3	5101100
M12	1.75	89	29	9.0	7.1	5101200
M14	2.0	95	30	11.2	9	5101400
M16	2.0	102	32	12.5	10	5101600
M18	2.5	112	37	14.0	11.2	5101800
M20	2.5	112	37	14.0	11.2	5102000
M22	2.5	118	38	16.0	12.5	5102200
M24	3.0	130	45	18.0	14	5102400

CBA - Yellow Band - Spiral Point Taps - For Tapping Aluminium

Code 538

THREADING TOOLS

M | DIN 371 | HSSE V3 | 60° | 6H | GUN NOSE | SPIRAL POINT

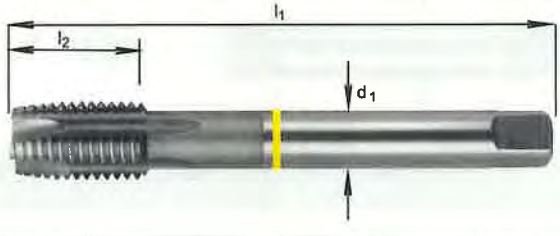


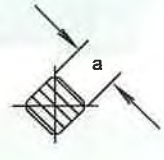
SQUARE

Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M3	0.5	56	5	3.5	2.7	5380300
M4	0.7	63	13	4.5	3.4	5380400
M5	0.8	70	16	6	4.9	5380500
M6	1.0	80	19	6	4.9	5380600
M8	1.25	90	22	8	6.2	5380800
M10	1.5	100	24	10	8	5381000

M | DIN 376 | HSSE V3 | 60° | 6H | GUN NOSE | SPIRAL POINT

Code 548





SQUARE

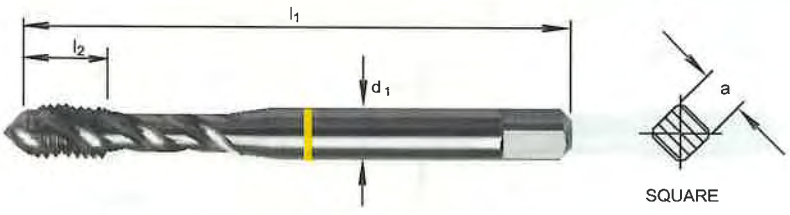
Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M12	1.75	110	29	9	7	5481200
M14	2	110	30	11	9	5481400
M16	2	110	32	12	9	5481600
M18	2.5	125	34	14	11	5481800
M20	2.5	140	34	16	12	5482000
M22	2.5	140	34	18	14.5	5482200
M24	3	160	38	18	14.5	5482400

Code
558

THREADING TOOLS

CBA - Yellow Band - Spiral Flute Taps - For Tapping Aluminium

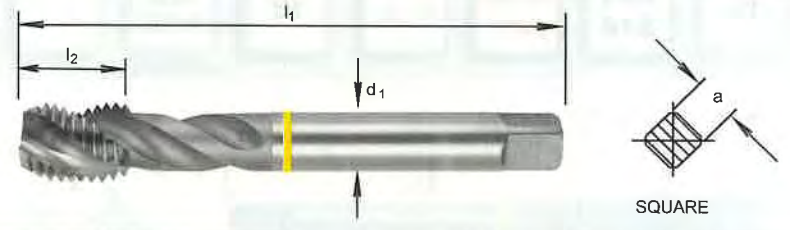
M | DIN 371 | HSSE V3 | 60° | 6H | 40° | SQUARE



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 40°
M3	0.5	56	5	3.5	2.7	5580300
M4	0.7	63	7	4.5	3.4	5580400
M5	0.8	70	8	6	4.9	5580500
M6	1.0	80	10	6	4.9	5580600
M8	1.25	90	12.5	8	6.2	5580800
M10	1.5	100	15	10	8	5581000

Code
569

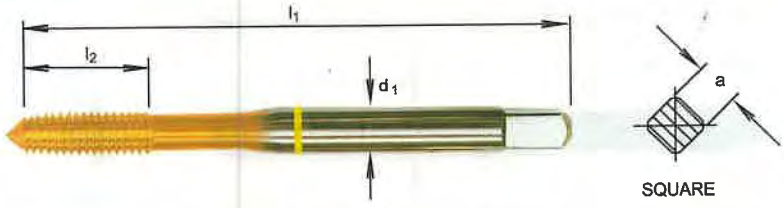
M | DIN 376 | HSSE V3 | 60° | 6H | 40° | SQUARE



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 40°
M12	1.75	110	17.5	9	7	5691200
M14	2	110	20	11	9	5691400
M16	2	110	20	12	9	5691600
M18	2.5	125	25	14	11	5691800
M20	2.5	140	25	16	12	5692000
M22	2.5	140	25	18	14.5	5692200
M24	3	160	30	18	14.5	5692400

CBA - Yellow Band - Fluteless Taps - For Threading Aluminium

M | DIN 371 | HSSE V3 | 60° | 6H | FLUTE-LESS | TIN



Size	Pitch	l_1	l_2	d_1	a	FLUTELESS
M3	0.5	56	5	3.5	2.7	5120300
M4	0.7	63	7	4.5	3.4	5120400
M5	0.8	70	8	6.0	4.9	5120500
M6	1.0	80	10	6.0	4.9	5120600
M8	1.25	80	10	7.0	5.5	5120800
M10	1.5	90	12.5	8.0	6.2	5121000
***M12**	1.75	110	17.5	9.0	7	5121200

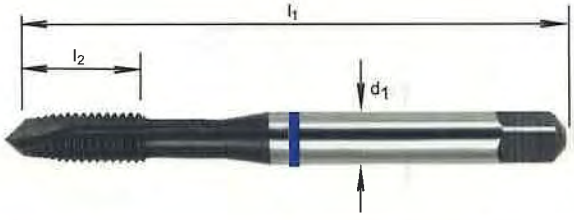
*DIN 376

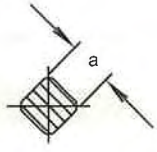
Code
539

THREADING TOOLS

CBA - Blue Band - Spiral Point Taps - For Tapping Stainless Steel

M | DIN 371 | HSSE V3 | 60° | 6H | GUN NOSE (SPIRAL POINT) | TiAlN



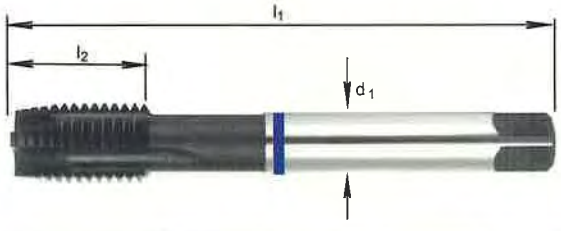


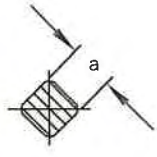
SQUARE

Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M3	0.5	56	5	3.5	2.7	5390500
M4	0.7	63	13	4.5	3.4	5390400
M5	0.8	70	16	6	4.9	5390500
M6	1.0	80	19	6	4.9	5390600
M8	1.25	90	22	8	6.2	5390800
M10	1.5	100	24	10	8	5391000

Code
549

M | DIN 376 | HSSE V3 | 60° | 6H | GUN NOSE (SPIRAL POINT) | TiAlN





SQUARE

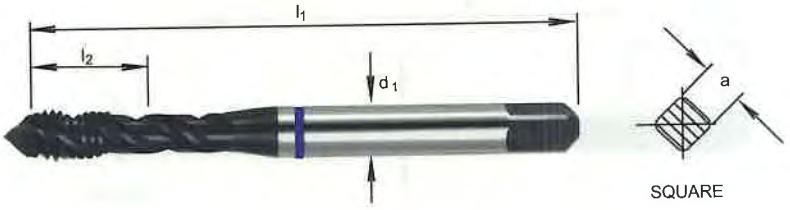
Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M12	1.75	110	29	9	7	5491200
M14	2	110	30	11	9	5491400
M16	2	110	32	12	9	5491600
M18	2.5	125	34	14	11	5491800
M20	2.5	140	34	16	12	5492000
M22	2.5	140	34	18	14.5	5492200
M24	3	160	38	18	14.5	5492400

CBA - Blue Band - Spiral Flute Taps - For Tapping Stainless Steel

Code 559

THREADING TOOLS

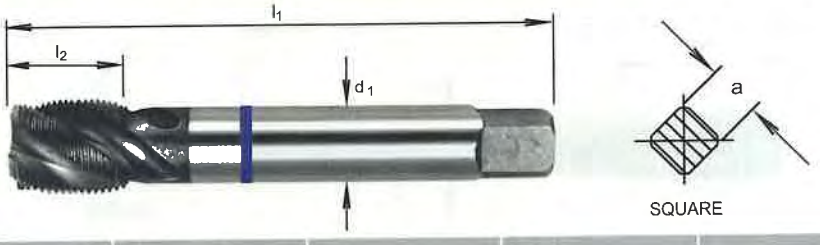
M | DIN 371 | HSSE V3 | 60° | 6H | 40° | TiAlN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 40°
M3	0.5	56	5	3.5	2.7	5590300
M4	0.7	63	7	4.5	3.4	5590400
M5	0.8	70	8	6	4.9	5590500
M6	1.0	80	10	6	4.9	5590600
M8	1.25	90	12.5	8	6.2	5590800
M10	1.5	100	15	10	8	5591000

M | DIN 376 | HSSE V3 | 60° | 6H | 40° | TiAlN

Code 570



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 40°
M12	1.75	110	17.5	9	7	5701200
M14	2	110	20	11	9	5701400
M16	2	110	20	12	9	5701600
M18	2.5	125	25	14	11	5701800
M20	2.5	140	25	16	12	5702000
M22	2.5	140	25	18	14.5	5702200
M24	3	160	30	18	14.5	5702400

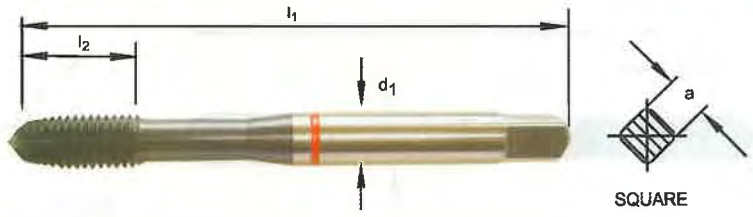
Code
540

THREADING TOOLS

CBA - Red Band - Spiral Point Taps - For Tapping Tough Treatable Steels

M | DIN 371 | HSSE V3 | 60° | 6H | GUN NOSE | TiAlN

SPIRAL POINT

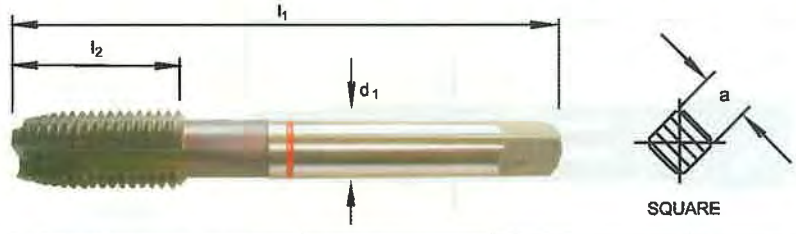


Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M3	0.5	56	11	3.5	2.7	5400300
M4	0.7	63	13	4.5	3.4	5400400
M5	0.8	70	16	6	4.9	5400500
M6	1.0	80	19	6	4.9	5400600
M8	1.25	90	22	8	6.2	5400800
M10	1.5	100	24	10	8	5401000

Code
550

M | DIN 376 | HSSE V3 | 60° | 6H | GUN NOSE | TiAlN

SPIRAL POINT



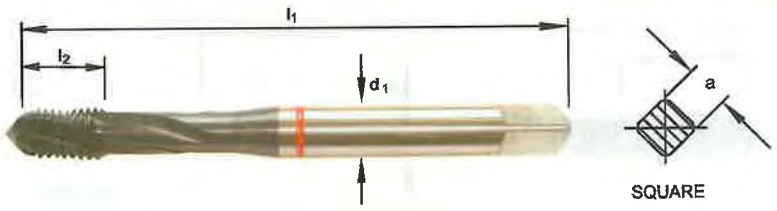
Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M12	1.75	110	29	9	7	5501200
M14	2	110	30	11	9	5501400
M16	2	110	32	12	9	5501600
M18	2.5	125	34	14	11	5501800
M20	2.5	140	34	16	12	5502000
M22	2.5	140	34	18	14.5	5502200
M24	3	160	38	18	14.5	5502400

CBA - Red Band - Spiral Flute Taps - For Tapping Tough Treatable Steels

Code 564

THREADING TOOLS

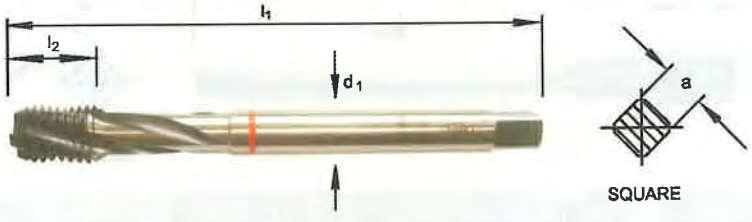
M | DIN 371 | HSSE V3 | 60° | 6H | 15° | TiAlN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M3	0.5	56	5	3.5	2.7	5640300
M4	0.7	63	7	4.5	3.4	5640400
M5	0.8	70	8	6	4.9	5640500
M6	1.0	80	10	6	4.9	5640600
M8	1.25	90	12.5	8	6.2	5640800
M10	1.5	100	15	10	8	5641000

M | DIN 376 | HSSE V3 | 60° | 6H | 15° | TiAlN

Code 576



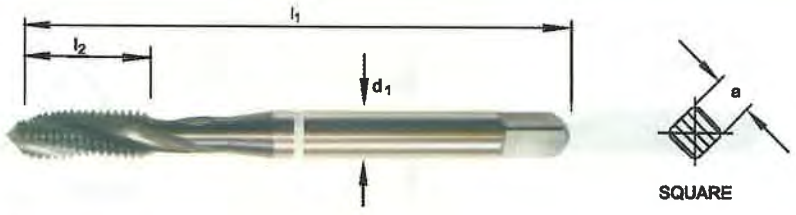
Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M12	1.75	110	17.5	9	7	5761200
M14	2	110	20	11	9	5761400
M16	2	110	20	12	9	5761600
M18	2.5	125	25	14	11	5761800
M20	2.5	140	25	16	12	5762000
M22	2.5	140	25	18	14.5	5762200
M24	3	160	30	18	14.5	5762400

Code 578

THREADING TOOLS

CBA - White Band - Spiral Flute Taps - For Tapping Cast Iron

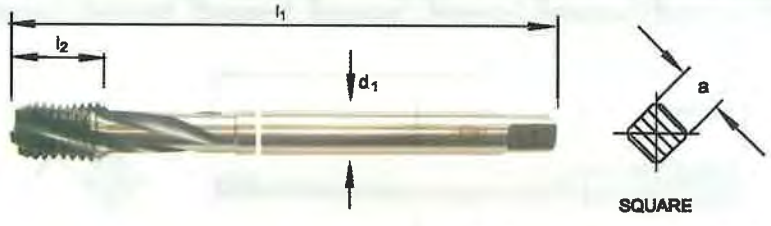
M | DIN 371 | HSSE V3 | 60° | 6H | 15° | TiAlN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M3	0.5	56	11	3.5	2.7	5780300
M4	0.7	63	13	4.5	3.4	5780400
M5	0.8	70	16	6.0	4.9	5780500
M6	1.0	80	19	6.0	4.9	5780600
M8	1.25	90	22	8.0	6.2	5780800
M10	1.5	100	24	10.0	8	5781000

Code 579

M | DIN 376 | HSSE V3 | 60° | 6H | 15° | TiAlN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M12	1.75	110	29	9	7	5791200
M14	2	110	30	11	9	5791400
M16	2	110	32	12	9	5791600
M18	2.5	125	34	14	11	5791800
M20	2.5	140	34	16	12	5792000
M22	2.5	140	34	18	14.5	5792200
M24	3	160	38	18	14.5	5792400

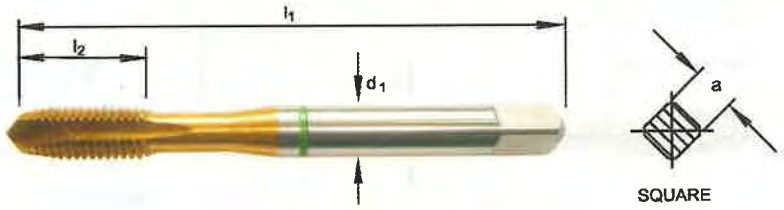
CBA - Green Band Spiral Point Taps - For Tapping Carbon Steels

Code 561

THREADING TOOLS

M | DIN 371 | HSSE V3 | 60° | 6H | GUN NOSE | TiN

SPIRAL POINT

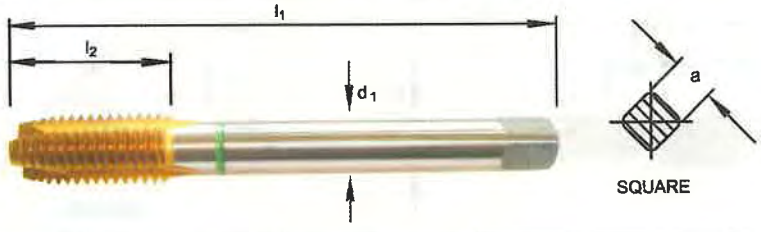


Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M3	0.5	56	11	3.5	2.7	5610300
M4	0.7	63	13	4.5	3.4	5610400
M5	0.8	70	16	6.0	4.9	5610500
M6	1.0	80	19	6.0	4.9	5610600
M7	1.0	80	19	7.0	5.5	5610700
M8	1.25	90	22	8.0	6.2	5610800
M10	1.5	100	24	10.0	8	5611000

Code 566

M | DIN 376 | HSSE V3 | 60° | 6H | GUN NOSE | TiN

SPIRAL POINT



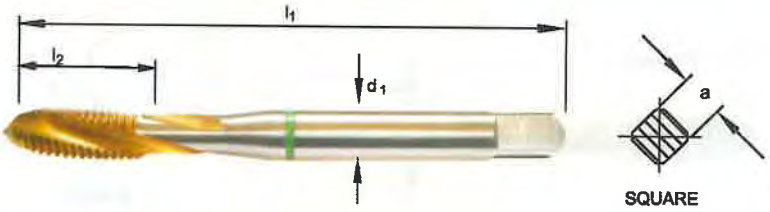
Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M3.5	0.6	56	13	2.5	2.1	5660350
M4	0.7	63	13	2.8	2.1	5660400
M5	0.8	70	16	3.5	2.7	5660500
M6	1.0	80	19	4.5	3.4	5660600
M8	1.25	90	22	6.0	4.9	5660800
M10	1.5	100	24	7.0	5.5	5661000
M12	1.75	110	29	9.0	7	5661200
M14	2.0	110	30	11.0	9	5661400
M16	2.0	110	32	12.0	9	5661600
M18	2.5	125	34	14.0	11	5661800
M20	2.5	140	34	16.0	12	5662000
M22	2.5	140	34	18.0	14.5	5662200
M24	3.0	160	38	18.0	14.5	5662400

Code
562

THREADING TOOLS

CBA - Green Band Spiral Flute Taps - For Tapping Carbon Steels

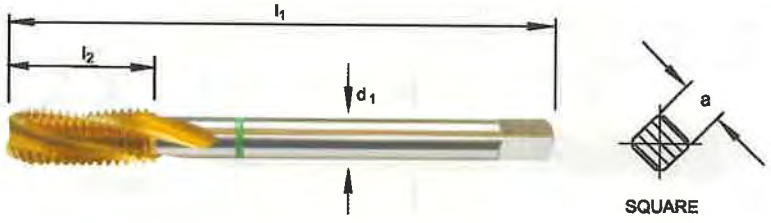
M | DIN 371 | HSSE V3 | 60° | 6H | 15° | TiN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M3	0.5	56	11	3.5	2.7	5620300
M4	0.7	63	13	4.5	3.4	5620400
M5	0.8	70	16	6.0	4.9	5620500
M6	1.0	80	19	6.0	4.9	5620600
M7	1.0	80	19	7.0	5.5	5620700
M8	1.25	90	22	8.0	6.2	5620800
M10	1.5	100	24	10.0	8	5621000

Code
567

M | DIN 376 | HSSE V3 | 60° | 6H | 15° | TiN



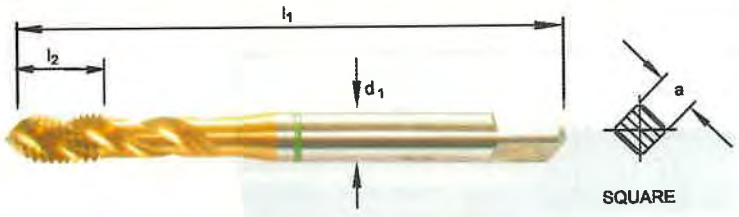
Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 15°
M3.5	0.6	56	13	2.5	2.1	5670350
M4	0.7	63	13	2.8	2.1	5670400
M5	0.8	70	16	3.5	2.7	5670500
M6	1.0	80	19	4.5	3.4	5670600
M8	1.25	90	22	6.0	4.9	5670800
M10	1.5	100	24	7.0	5.5	5671000
M12	1.75	110	29	9.0	7	5671200
M14	2.0	110	30	11.0	9	5671400
M16	2.0	110	32	12.0	9	5671600
M18	2.5	125	34	14.0	11	5671800
M20	2.5	140	34	16.0	12	5672000
M22	2.5	140	34	18.0	14.5	5672200
M24	3.0	160	38	18.0	14.5	5672400

CBA - Green Band Spiral Flute Taps - For Tapping Carbon Steels

Code 563

THREADING TOOLS

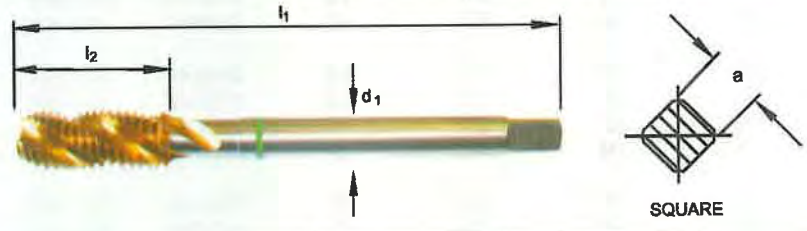
M | DIN 371 | HSSE V3 | 60° | 6H | 35° | TiN



Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
M3	0.5	56	5	3.5	2.7	5630300
M4	0.7	63	7	4.5	3.4	5630400
M5	0.8	70	8	6.0	4.9	5630500
M6	1.0	80	10	6.0	4.9	5630600
M7	1.0	80	10	7.0	5.5	5630700
M8	1.25	90	12.5	8.0	6.2	5630800
M10	1.5	100	15	10.0	8	5631000

M | DIN 376 | HSSE V3 | 60° | 6H | 35° | TiN

Code 568



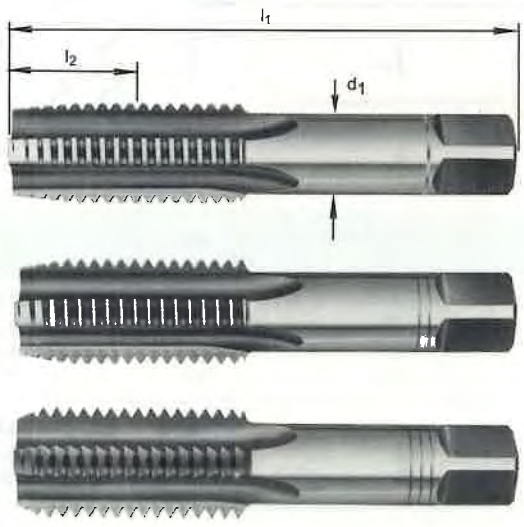
Size	Pitch	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
M3.5	0.6	56	6	2.5	2.1	5680350
M4	0.7	63	7	2.8	2.1	5680400
M5	0.8	70	8	3.5	2.7	5680500
M6	1.0	80	10	4.5	3.4	5680600
M8	1.25	90	12.5	6.0	4.9	5680800
M10	1.5	100	15	7.0	5.5	5681000
M12	1.75	110	17.5	9.0	7	5681200
M14	2.0	110	20	11.0	9	5681400
M16	2.0	110	20	12.0	9	5681600
M18	2.5	125	25	14.0	11	5681800
M20	2.5	140	25	16.0	12	5682000
M22	2.5	140	25	18.0	14.5	5682200
M24	3.0	160	30	18.0	14.5	5682400

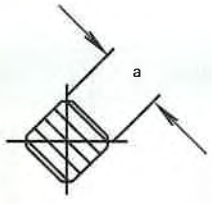
Code
518

THREADING TOOLS

Serial Hand Taps

M | DIN 352 | HSSE V3 | 60° | 6H | Straight Flute



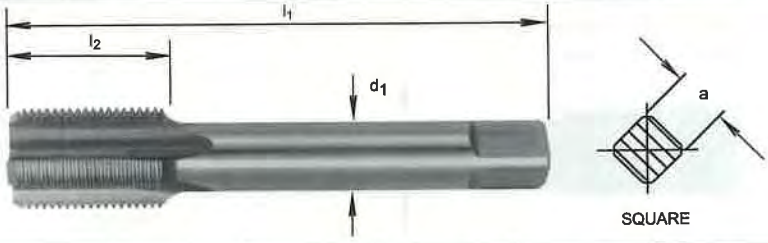


SQUARE

SIZE	Pitch	l_1	l_2	d_1	a	SET	ROUGHER	INTERMEDIATE	FINISHER
M3	0.5	40	11	3.5	2.7	5180300	5180301	5180302	5180303
M3.5	0.6	45	13	4.0	3	5180350	5180351	5180352	5180353
M4	0.7	45	13	4.5	3.4	5180400	5180401	5180402	5180403
M4.5	0.75	50	16	6.0	4.9	5180450	5180451	5180452	5180453
M5	0.8	50	16	6.0	4.9	5180500	5180501	5180502	5180503
M6	1.0	50	19	6.0	4.9	5180600	5180601	5180602	5180603
M7	1.0	50	19	6.0	4.9	5180700	5180701	5180702	5180703
M8	1.25	56	22	6.0	4.9	5180800	5180801	5180802	5180803
M9	1.25	63	22	7.0	5.5	5180900	5180901	5180902	5180903
M10	1.5	70	24	7.0	5.5	5181000	5181001	5181002	5181003
M12	1.75	75	29	9.0	7	5181200	5181201	5181202	5181203
M14	2.0	80	30	11.0	9	5181400	5181401	5181402	5181403
M16	2.0	80	32	12.0	9	5181600	5181601	5181602	5181603
M18	2.5	95	40	14.0	11	5181800	5181801	5181802	5181803
M20	2.5	95	40	16.0	12	5182000	5182001	5182002	5182003
M22	2.5	100	40	18.0	14.5	5182200	5182201	5182202	5182203
M24	3.0	110	50	18.0	14.5	5182400	5182401	5182402	5182403

Short Hand Taps

M | DIN 376 | 60° | HSS | ISO 2 6H | Straight Flute



SIZE	Pitch	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
M3.5	0.6	56	13	2.5	2.1	5650350	5650351	5650352	5650353
M4	0.7	63	13	2.8	2.1	5650400	5650401	5650402	5650403
M4.5	0.75	70	16	3.5	2.7	5650450	5650451	5650452	5650453
M5	0.8	70	16	3.5	2.7	5650500	5650501	5650502	5650503
M6	1.0	80	19	4.5	3.4	5650600	5650601	5650602	5650603
M8	1.25	90	22	6.0	4.9	5650800	5650801	5650802	5650803
M10	1.5	100	24	7.0	5.5	5651000	5651001	5651002	5651003
M12	1.75	110	29	9.0	7	5651200	5651201	5651202	5651203
M14	2.0	110	30	11.0	9	5651400	5651401	5651402	5651403
M16	2.0	110	32	12.0	9	5651600	5651601	5651602	5651603
M18	2.5	125	34	14.0	11	5651800	5651801	5651802	5651803
M20	2.5	140	34	16.0	12	5652000	5652001	5652002	5652003
M22	2.5	140	34	18.0	14.5	5652200	5652201	5652202	5652203
M24	3.0	160	38	18.0	14.5	5652400	5652401	5652402	5652403

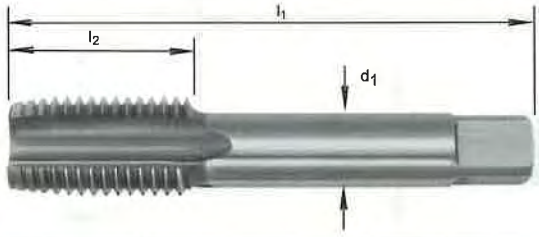
Code
511

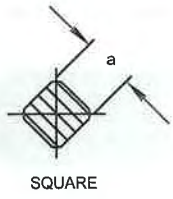
THREADING TOOLS

Short Hand Taps

MF | ISO 529 | HSS | 60° | ISO 2 6H | Straight Flute

ISO 529





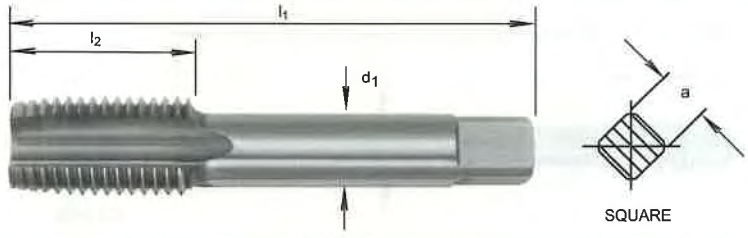
SQUARE

SIZE	Pitch	l_1	l_2	d_1	a	SET	TAPER	BOTTOMING
M2	0.25	41	8	2.5	2	5110200	5110201	5110203
M2.2	0.25	44.5	9.5	2.8	2.24	5110220	5110221	5110223
M2.5	0.35	44.5	9.5	2.8	2.24	5110250	5110251	5110253
M3	0.35	48	11	3.15	2.5	5110300	5110301	5110303
M4	0.5	53	13	4.0	3.15	5110400	5110401	5110403
M4.5	0.5	53	13	4.5	3.55	5110450	5110451	5110453
M5	0.5	58	16	5.0	4	5110500	5110501	5110502
M5	0.75	58	16	5.0	4	5110510	5110511	5110513
M5.5	0.5	62	17	5.6	4.5	5110550	5110551	5110553
M6	0.75	66	19	6.3	5	5110600	5110601	5110603
M7	0.75	66	19	7.1	5.6	5110700	5110701	5110703
M8	0.75	69	19	8.0	6.3	5110790	5110791	5110793
M8	1.0	69	19	8.0	6.3	5110800	5110801	5110803
M9	0.75	69	19	9.0	7.1	5110890	5110891	5110893
M9	1.0	69	19	9.0	7.1	5110900	5110901	5110903
M10	0.75	76	20	10.0	8	5110990	5110991	5110993
M10#	1.0	76	20	10.0	8	5111000	5111001	5111003
M10	1.25	76	20	10.0	8	5111010	5111011	5111013
M11	1.0	82	22	8.0	6.3	5111110	5111111	5111113
M11	1.25	82	22	8.0	6.3	5111120	5111121	5111123
M12	1.0	84	24	9.0	7.1	5111190	5111191	5111193
M12*	1.25	84	24	9.0	7.1	5111200	5111201	5111203
M12	1.5	89	29	9.0	7.1	5111210	5111211	5111213
M14	1.0	90	25	11.2	9	5111390	5111391	5111393
M14*	1.25	90	25	11.2	9	5111400	5111401	5111403
M14	1.5	95	30	11.2	9	5111410	5111411	5111413
M15	1.0	95	30	11.2	9	5111490	5111491	5111493
M15	1.5	95	30	11.2	9	5111500	5111501	5111503
M16	1.0	95	25	12.5	10	5111590	5111591	5111593
M16#	1.5	102	32	12.5	10	5111600	5111601	5111603
M17	1.5	102	32	12.5	10	5111700	5111701	5111703
M18	1.0	104	29	14.0	11.2	5111780	5111781	5111783
M18	1.25	104	29	14	11.2	5111790	5111791	5111793
M18*	1.5	104	29	14	11.2	5111800	5111801	5111803
M18	2.0	112	37	14	11.2	5111810	5111811	5111813
M20	1.0	104	29	14	11.2	5111990	5111991	5111993
M20#	1.5	104	29	14	11.2	5112000	5112001	5112003
M20	2.0	112	37	14	11.2	5112010	5112011	5112013
M22	1.0	113	33	16	12.5	5112190	5112191	5112193
M22	1.5	113	33	16	12.5	5112200	5112201	5112203
M22	2.0	118	38	16	12.5	5112210	5112211	5112213
M24	1.0	120	35	18	14	5112390	5112391	5112393
M24	1.5	120	35	18	14	5112400	5112401	5112403

* Spark Plug
# Conduit

Short Hand Taps

MF | ISO 529 | HSS | 60° | ISO 2 6H | Straight Flute

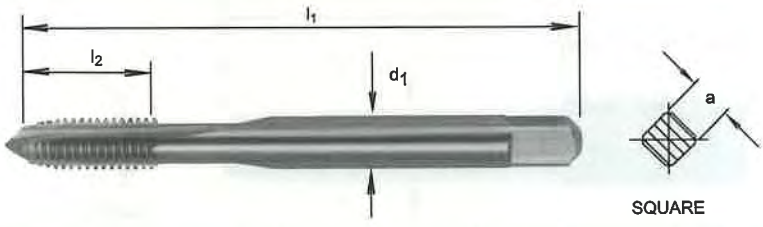


SIZE	Pitch	l_1	l_2	d_1	a	SET	TAPER	BOTTOMING
M24	2.0	120	35	18	14	5112410	5112411	5112413
M25	1.0	120	35	18	14	5112490	5111491	5111493
M25#	1.5	120	35	18	14	5112500	5112501	5112503
M25	2.0	120	35	18	14	5112510	5112511	5112513
M27	1.5	127	37	20	16	5112700	5112701	5112703
M27	2.0	127	37	20	16	5112710	5112711	5112713
M28	1.5	127	37	20	16	5112800	5112801	5112803
M28	2.0	127	37	20	16	5112820	5112821	5112823
M30	1.0	127	37	20	16	5112990	5112991	5112993
M30	1.5	127	37	20	16	5113000	5113001	5113003
M30	2.0	127	37	20	16	5113010	5113011	5113013
M30	3.0	138	48	20	16	5113020	5113021	5113023
M32#	1.5	137	37	22.4	18	5113200	5113201	5113203
M32	2.0	137	37	22.4	18	5113210	5113211	5113213
M33	1.5	137	37	22.4	18	5113300	5113301	5113303
M33	2.0	137	37	22.4	18	5113310	5113311	5113313
M33	3.0	151	51	22.4	18	5113320	5113321	5113323
M35	1.5	144	39	25.0	20	5113500	5113501	5113503
M36	1.5	144	39	25.0	20	5113600	5113601	5113603
M36	2.0	144	39	25.0	20	5113610	5113611	5113613
M36	3.0	162	57	25.0	20	5113620	5113621	5113623
M38	1.5	149	39	28	22.4	5113810	5113811	5113813
M38	2.0	149	39	28	22.4	5113820	5113821	5113823
M39	1.5	149	39	28	22.4	5113900	5113901	5113903
M39	2.0	149	39	28	22.4	5113910	5113911	5113913
M39	3.0	170	60	28	22.4	5113920	5113921	5113923
M40	2.0	149	39	28	22.4	5114010	5114011	5114013
M40	3.0	170	60	28	22.4	5114020	5114021	5114023
M42	1.5	149	39	28	22.4	5114200	5114201	5114203
M42	2.0	149	39	28	22.4	5114210	5114211	5114213
M42	3.0	170	60	28	22.4	5114220	5114221	5114223
M42	4.0	170	60	28	22.4	5114230	5114231	5114233
M45	1.5	165	45	31.5	25	5114500	5114501	5114503
M45	2.0	165	45	31.5	25	5114510	5114511	5114513
M45	3.0	187	67	31.5	25	5114520	5114521	5114523
M48	1.5	165	45	31.5	25	5114800	5114801	5114803
M48	2.0	165	45	31.5	25	5114810	5114811	5114813
M48	3.0	187	67	31.5	25	5114820	5114821	5114823
M48	4.0	187	67	31.5	25	5114830	5114831	5114833
M50	3.0	187	67	31.5	25	5115020	5115021	5115023
M52	2.0	175	45	35.5	28	5115210	5115211	5115213
M52	3.0	200	70	35.5	28	5115220	5115221	5115223
M52	4.0	200	70	35.5	28	5115230	5115231	5115233

* Spark Plug
# Conduit

STE Short Machine Taps

MF | ISO 529 | HSSE V3 | 60° | ISO 2 6H | GUN NOSE (SPIRAL POINT)



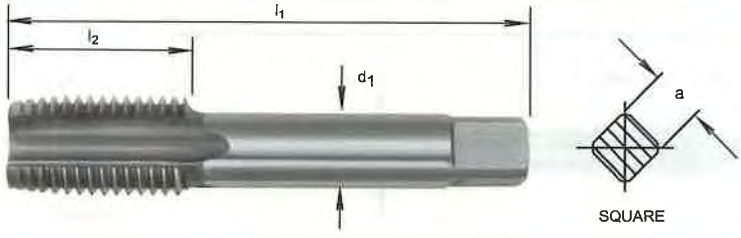
Size	Pitch	l_1	l_2	d_1	a	GUN NOSE
M4	0.5	53	13	4	3.15	5150400
M5	0.75	58	16	5	4	5150500
M6	0.75	66	19	6.3	5	5150600
M8	1.0	69	19	8	6.3	5150800
M9	1.0	69	19	9	7.1	5150900
M10	1.0	76	20	10	8	5151000
M10	1.25	76	20	10	8	5151010
M12	1.0	84	24	9	7.1	5151190
M12	1.25	84	24	9	7.1	5151200
M12	1.5	89	29	9	7.1	5151210
M14	1.0	90	25	11.2	9	5151390
M14	1.25	90	25	11.2	9	5151400
M14	1.5	95	30	11.2	9	5151410
M16	1.5	102	32	12.5	10	5151600
M18	1.5	104	29	14	11.2	5151800
M20	1.5	104	29	14	11.2	5152000
M22	1.5	113	33	16	12.5	5152200
M24	1.5	120	35	18	14	5152400

Short Hand Taps

Code 521

THREADING TOOLS

BSW | ISO 529 | HSS | 55° | CLASS 2 | Straight Flute



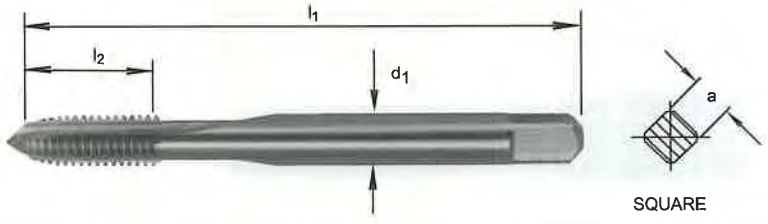
SIZE	TPI	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
1/16	60	41	8	2.5	2	5210160	5210161	5210162	5210163
3/32	48	44.5	9.5	2.8	2.24	5210240	5210241	5210242	5210243
1/8	40	48	11	3.15	2.5	5210320	5210321	5210322	5210323
5/32	32	53	13	4	3.15	5210400	5210401	5210402	5210403
3/16	24	58	16	5	4	5210480	5210481	5210482	5210483
1/4	20	66	19	6.3	5	5210640	5210641	5210642	5210643
5/16	18	72	22	8	6.3	5210790	5210791	5210792	5210793
3/8	16	80	24	10	8	5210950	5210951	5210952	5210953
7/16	14	85	25	8	6.3	5211110	5211111	5211112	5211113
1/2	12	89	29	9	7.1	5211270	5211271	5211272	5211273
9/16	12	95	30	11.2	9	5211430	5211431	5211432	5211433
5/8	11	102	32	12.5	10	5211590	5211591	5211592	5211593
3/4	10	112	37	14	11.2	5211910	5211911	5211912	5211913
7/8	9	118	38	16	12.5	5212220	5212221	5212222	5212223
1"	8	130	45	18	14	5212540	5212541	5212542	5212543
1-1/8	7	138	48	20	16	5212860	5212861	5212862	5212863
1-1/4	7	151	51	22.4	18	5213170	5213171	5213172	5213173
1-1/2	6	170	60	28	22.4	5213810	5213811	5213812	5213813
1-3/4	5	187	67	31.5	25	5214450	5214451	5214452	5214453
2"	4.5	200	70	35.5	28	5215080	5215081	5215082	5215083

Code 526

THREADING TOOLS

Short Machine Taps

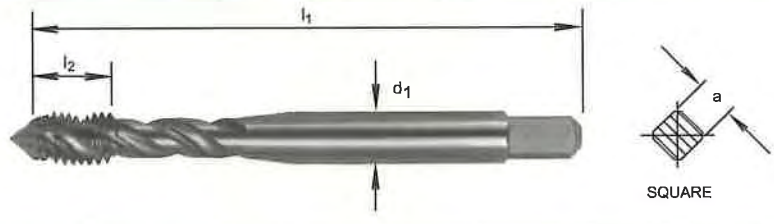
BSW | ISO 529 | HSSE V3 | 55° | CLASS 2 | GUN NOSE | SPIRAL POINT



Size	TPI	l_1	l_2	d_1	a	GUN NOSE
1/8	40	48	11	3.15	2.5	5260320
5/32	32	53	13	4	3.15	5260400
3/16	24	58	16	5	4	5260480
1/4	20	66	19	6.3	5	5260640
5/16	18	72	22	8	6.3	5260790
3/8	16	80	24	10	8	5260950
7/16	14	85	25	8	6.3	5261110
1/2	12	89	29	9	7.1	5261270
9/16	12	95	30	11.2	9	5261430
5/8	11	102	32	12.5	10	5261590
3/4	10	112	37	14	11.2	5261910
7/8	9	118	38	16	12.5	5262220
1"	8	130	45	18	14	5262540

Code 528

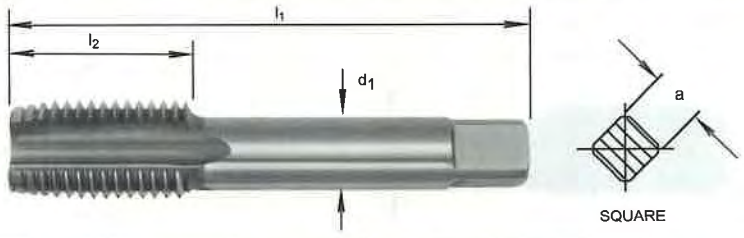
BSW | ISO 529 | HSSE V3 | 55° | CLASS 2 | 35°



Size	TPI	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
1/8	40	48	11	3.15	2.5	5280320
5/32	32	53	13	4	3.15	5280400
3/16	24	58	16	5	4	5280480
1/4	20	66	19	6.3	5	5280640
5/16	18	72	22	8	6.3	5280790
3/8	16	80	24	10	8	5280950
7/16	14	85	25	8	6.3	5281110
1/2	12	89	29	9	7.1	5281270
9/16	12	95	30	11.2	9	5281430
5/8	11	102	32	12.5	10	5281590
3/4	10	112	37	14	11.2	5281910
7/8	9	118	38	16	12.5	5282220
1"	8	130	45	18	14	5282540

Short Hand Taps

BSF | ISO 529 | HSS | 55° | CLASS 2 | Straight Flute



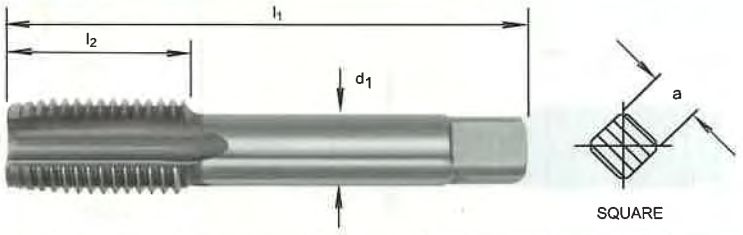
SIZE	TPI	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
3/16	32	58	16	5	4	5310480	5310481	5310482	5310483
1/4	26	66	19	6.3	5	5310640	5310641	5310642	5310643
5/16	22	72	22	8	6.3	5310790	5310791	5310792	5310793
3/8	20	80	24	10	8	5310950	5310951	5310952	5310953
7/16	18	85	25	8	6.3	5311110	5311111	5311112	5311113
1/2	16	89	29	9	7.1	5311270	5311271	5311272	5311273
9/16	16	95	30	11.2	9	5311430	5311431	5311432	5311433
5/8	14	102	32	12.5	10	5311590	5311591	5311592	5311593
3/4	12	112	37	14	11.2	5311910	5311911	5311912	5311913
7/8	11	118	38	16	12.5	5312220	5312221	5312222	5312223
1"	10	130	45	18	14	5312540	5312541	5312542	5312543
1-1/8	9	138	48	20	16	5312860	5312861	5312862	5312863
1-1/4	9	151	51	22.4	18	5313180	5313181	5313182	5313183
1-3/8	8	162	57	25	20	5313490	5313491	5313492	5313493
1-1/2	8	170	60	28	22.4	5313810	5313811	5313812	5313813
1-5/8	8	170	60	28	22.4	5314120	5314121	5314122	5314123
1-3/4	7	187	67	31.5	25	5314450	5314451	5314452	5314453
2"	7	200	70	35.5	28	5315080	5315081	5315082	5315083

Code
541

THREADING TOOLS

Short Hand Taps

UNC | ISO 529 | HSS | 60° | 2B | Straight Flute



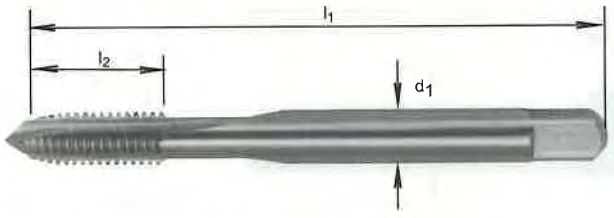
SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
No.4	2.84	40	48	11	3.15	2.5	5410280	5410281	5410282	5410283
No.5	3.18	40	48	11	3.15	2.5	5410320	5410321	5410322	5410323
No.6	3.51	32	50	13	3.55	2.8	5410350	5410351	5410352	5410353
No.8	4.17	32	53	13	4.5	3.55	5410420	5410421	5410422	5410423
No.10	4.83	24	58	16	5	4	5410480	5410481	5410482	5410483
No.12	5.49	24	62	17	5.6	4.5	5410550	5410551	5410552	5410553
1/4		20	66	19	6.3	5	5410640	5410641	5410642	5410643
5/16		18	72	22	8	6.3	5410790	5410791	5410792	5410793
3/8		16	80	24	10	8	5410950	5410951	5410952	5410953
7/16		14	85	25	8	6.3	5411110	5411111	5411112	5411113
1/2		13	89	29	9	7.1	5411270	5411271	5411272	5411273
9/16		12	95	30	11.2	9	5411430	5411431	5411432	5411433
5/8		11	102	32	12.5	10	5411590	5411591	5411592	5411593
3/4		10	112	37	14	11.2	5411910	5411911	5411912	5411913
7/8		9	118	38	16	12.5	5412220	5412221	5412222	5412223
1"		8	130	45	18	14	5412540	5412541	5412542	5412543
1-1/8		7	138	48	20	16	5412860	5412861	5412862	5412863
1-1/4		7	151	51	22.4	18	5413180	5413181	5413182	5413183
1-3/8		6	162	57	25	20	5413490	5413491	5413492	5413493
1-1/2		6	170	60	28	22.4	5413810	5413811	5413812	5413813
1-3/4		5	187	67	31.5	25	5414450	5414451	5414452	5414453
2"		4-1/2	200	70	35.5	28	5415080	5415081	5415082	5415083

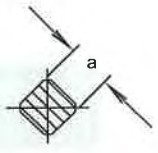
Short Machine Taps

Code 545

THREADING TOOLS

UNC | ISO 529 | HSSE V3 | 60° | 2B | GUN NOSE (SPIRAL POINT)



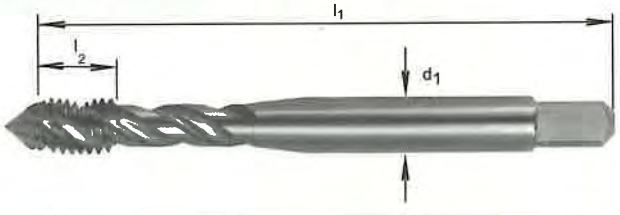


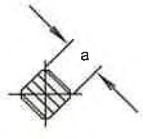
SQUARE

SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	GUN NOSE
No.6	3.51	32	50	13	3.55	2.8	5450350
No.8	4.17	32	53	13	4.5	3.55	5450420
No.10	4.83	24	58	16	5	4	5450480
No.12	5.49	24	62	17	5.6	4.5	5450550
1/4		20	66	19	6.3	5	5450640
5/16		18	72	22	8	6.3	5450790
3/8		16	80	24	10	8	5450950
7/16		14	85	25	8	6.3	5451110
1/2		13	89	29	9	7.1	5451270
9/16		12	95	30	11.2	9	5451430
5/8		11	102	32	12.5	10	5451590
3/4		10	112	37	14	11.2	5451910
7/8		9	118	38	16	12.5	5452220
1"		8	130	45	18	14	5452540

Code 546

UNC | ISO 529 | HSSE V3 | 60° | 2B | 35°





SQUARE

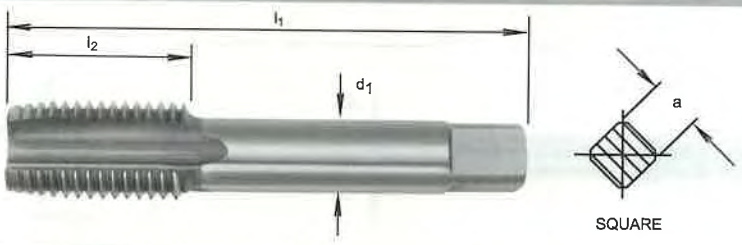
Size	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
No.6	3.51	32	50	13	3.55	2.8	5460350
No.8	4.17	32	53	13	4.5	3.55	5460420
No.10	4.83	24	58	16	5	4	5460480
No.12	5.49	24	62	17	5.6	4.5	5460550
1/4		20	66	19	6.3	5	5460640
5/16		18	72	22	8	6.3	5460790
3/8		16	80	24	10	8	5460950
7/16		14	85	25	8	6.3	5461110
1/2		13	89	29	9	7.1	5461270
9/16		12	95	30	11.2	9	5461430
5/8		11	102	32	12.5	10	5461590
3/4		10	112	37	14	11.2	5461910
7/8		9	118	38	16	12.5	5462220
1"		8	130	45	18	14	5462540

Code
551

THREADING TOOLS

Short Hand Taps

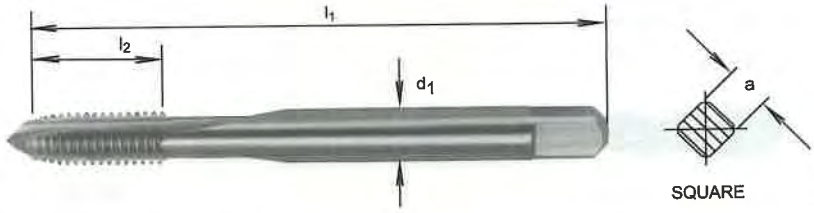
UNC | ISO 529 | HSS | 60° | ISO 2 2B | Straight Flute



SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
No.4	2.85	48	48	11	3.15	2.5	5510280	5510281	5510282	5510283
No.5	3.18	44	48	11	3.15	2.5	5510320	5510321	5510322	5510323
No.6	3.51	40	50	13	3.55	2.8	5510350	5510351	5510352	5510353
No.8	4.17	36	53	13	4.5	3.55	5510420	5510421	5510422	5510423
No.10	4.83	32	58	16	5	4	5510480	5510481	5510482	5510483
No.12	5.49	28	62	17	5.6	4.5	5510550	5510551	5510552	5510553
1/4		28	66	19	6.3	5	5510640	5510641	5510642	5510643
5/16		24	69	19	8	6.3	5510790	5510791	5510792	5510793
3/8		24	76	20	10	8	5510950	5510951	5510952	5510953
7/16		20	82	22	8	6.3	5511110	5511111	5511112	5511113
1/2		20	84	24	9	7.1	5511270	5511271	5511272	5511273
9/16		18	90	25	11.2	9	5511430	5511431	5511432	5511433
5/8		18	95	25	12.5	10	5511590	5511591	5511592	5511593
3/4		16	104	29	14	11.2	5511910	5511911	5511912	5511913
7/8		14	113	33	16	12.5	5512220	5512221	5512222	5512223
1"		12	120	35	18	14	5512540	5512541	5512542	5512543
1-1/8		12	127	37	20	16	5512860	5512861	5512862	5512863
1-1/4		12	137	37	22.4	18	5513180	5513181	5513182	5513183
1-3/8		12	144	39	25	20	5513490	5513491	5513492	5513493
1-1/2		12	149	39	28	22.4	5513810	5513811	5513812	5513813

Short Machine Taps

UNF | ISO 529 | HSSE V3 | 60° | 2B | GUN NOSE | SPIRAL POINT



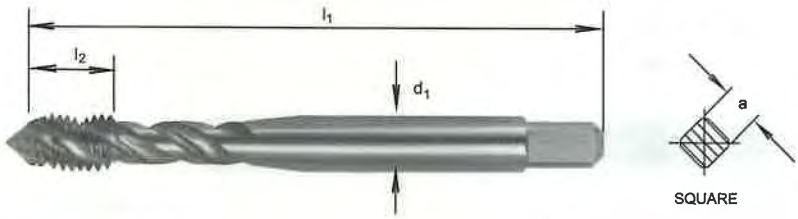
SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	GUN NOSE
No.4	2.85	48	48	11	3.15	2.5	5550280
No.5	3.18	44	48	11	3.15	2.5	5550320
No.6	3.51	40	50	13	3.55	2.8	5550350
No.8	4.17	36	53	13	4.5	3.55	5550420
No.10	4.83	32	58	16	5	4	5550480
No.12	5.49	28	62	17	5.6	4.5	5550550
1/4		28	66	19	6.3	5	5550640
5/16		24	69	19	8	6.3	5550790
3/8		24	76	20	10	8	5550950
7/16		20	82	22	8	6.3	5551110
1/2		20	84	24	9	7.1	5551270
9/16		18	90	25	11.2	9	5551430
5/8		18	95	25	12..5	10	5551590
3/4		16	104	29	14	11.2	5551910
7/8		14	113	33	16	12.5	5552220
1"		12	120	35	18	14	5552540

Code
556

THREADING TOOLS

Short Machine Taps

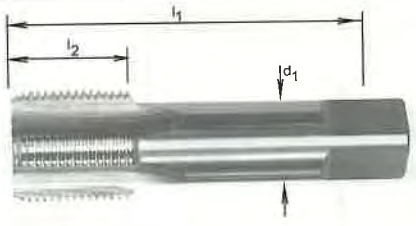
UNF | ISO 529 | HSSE V3 | 60° | 2B | 35°

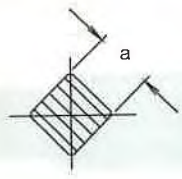


SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SPIRAL FLUTE 35°
No.4	2.85	48	48	11	3.15	2.5	5560280
No.5	3.18	44	48	11	3.15	2.5	5560320
No.6	3.51	40	50	13	3.55	2.8	5560350
No.8	4.17	36	53	13	4.5	3.55	5560420
No.10	4.83	32	58	16	5	4	5560480
No.12	5.49	28	62	17	5.6	4.5	5560550
1/4		28	66	19	6.3	5	5560640
5/16		24	69	19	8	6.3	5560790
3/8		24	76	20	10	8	5560950
7/16		20	82	22	8	6.3	5561110
1/2		20	84	24	9	7.1	5561270
9/16		18	90	25	11.2	9	5561430
5/8		18	95	25	12..5	10	5561590
3/4		16	104	29	14	11.2	5561910
7/8		14	113	33	16	12.5	5562220
1"		12	120	35	18	14	5562540

Parallel Pipe Taps

BSP | ISO 2284 | HSS | 55° | BS 949 1982 PART 3 | Straight Flute





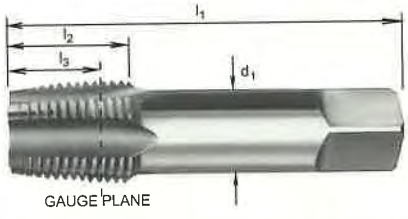
SQUARE

SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SET	TAPER	BOTTOM
1/8	9.728	28	59	15	8	6.3	5710320	5710321	5710323
1/4	13.157	19	67	19	10	8	5710640	5710641	5710643
3/8	16.662	19	75	21	12.5	10	5710950	5710951	5710953
1/2	20.955	14	87	26	16	12.5	5711270	5711271	5711273
5/8	22.911	14	91	26	18	14	5711590	5711591	5711593
3/4	26.441	14	96	28	20	16	5711910	5711911	5711913
7/8	30.201	14	102	29	22.4	18	5712220	5712221	5712223
1"	33.249	11	109	33	25	20	5712540	5712541	5712543
1-1/4	41.910	11	119	36	31.5	25	5713170	5713171	5713173
1-1/2	47.803	11	125	37	35.5	28	5713810	5713811	5713813
1-3/4	53.746	11	132	39	35.5	28	5714450	5714451	5714453
2"	59.614	11	140	41	40	31.5	5715080	5715081	5715083
2-1/4	65.710	11	142	42	40	31.5	5715720	5715721	5715723
2-1/2	75.184	11	153	45	45	35.5	5716350	5716351	5716353
3"	87.884	11	164	48	50	40	5717620	5717621	5717623

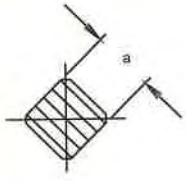
Taper Pipe Hand Taps

Code 575

BSPT | ISO 2284 | HSS | 55° | BS 949 1982 PART 3 | Straight Flute



GAUGE PLANE



SQUARE

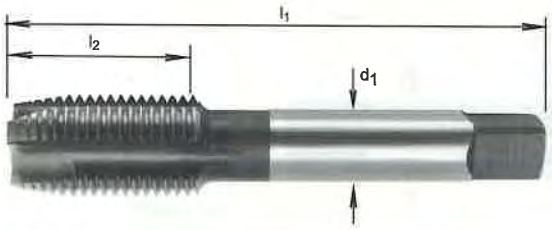
Size	NOM. DIA. AT GAUGE PLANE	TPI	l_1	l_2	l_3	d_1	a	SET	TAPER	BOTTOM
1/8	9.728	28	59	15	10.1	8	6.3	5750320	5750321	5750323
1/4	13.157	19	67	19	15	10	8	5750640	5750641	5750643
3/8	16.662	19	75	21	15.4	12.5	10	5750950	5750951	5750953
1/2	20.955	14	87	26	20.5	16	12.5	5751270	5751271	5751273
3/4	26.441	14	96	28	21.8	20	16	5751910	5751911	5751913
1"	33.249	11	109	33	26	25	20	5752540	5752541	5752543
1-1/4	41.910	11	119	36	28.3	31.5	25	5753170	5753171	5753173
1-1/2	47.803	11	125	37	28.3	35.5	28	5753810	5753811	5753813
2"	59.614	11	140	41	32.7	40	31.5	5755080	5755081	5755083

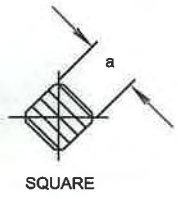
Code
573

THREADING TOOLS

Short Machine Taps

BSP | ISO 2284 | HSSE V3 | 55° | BS 949 1982 PART 3 | GUN NOSE (SPIRAL POINT)



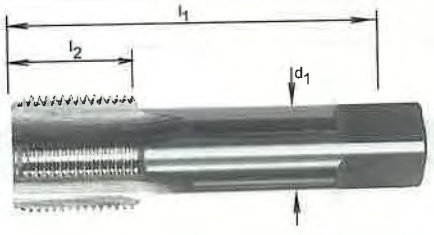


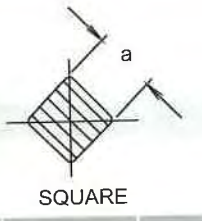
SQUARE

SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	GUN NOSE
1/8	9.728	28	59	15	8	6.3	5730320
1/4	13.157	19	67	19	10	8	5730640
3/8	16.662	19	75	21	12.5	10	5730950
1/2	20.955	14	87	26	16	12.5	5731270
3/4	26.441	14	96	28	20	16	5731910

Parallel Pipe Taps

NPS | ISO 2284 | HSS | 60° | ANSI B94.9 1979 | Straight Flute

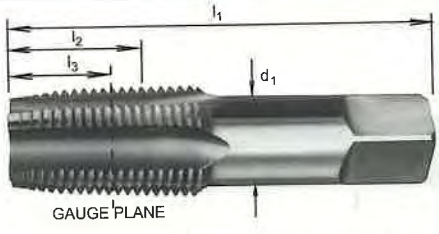


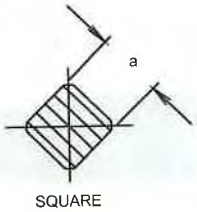


SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SET	TAPER	BOTTOM
1/8	10.272	27	59	15	8.0	6.3	5810320	5810321	5810323
1/4	13.571	18	67	19	10	8.0	5810640	5810641	5810643
3/8	17.054	18	75	21	12.5	10	5810950	5810951	5810953
1/2	21.224	14	87	26	16	12.5	5811270	5811271	5811273
3/4	26.568	14	96	28	20	16	5811910	5811911	5811913
1"	33.228	11-1/2	109	33	25	20	5812540	5812541	5812543
1-1/4	41.986	11-1/2	119	36	31.5	25	5813170	5813171	5813173
1-1/2	48.054	11-1/2	125	37	35.5	28	5813810	5813811	5813813
2"	60.091	11-1/2	140	41	40	31.5	5815080	5815081	5815083

Taper Pipe Taps

NPT | ISO 2284 | HSS | 60° | ANSI B94.9 1979 | Straight Flute





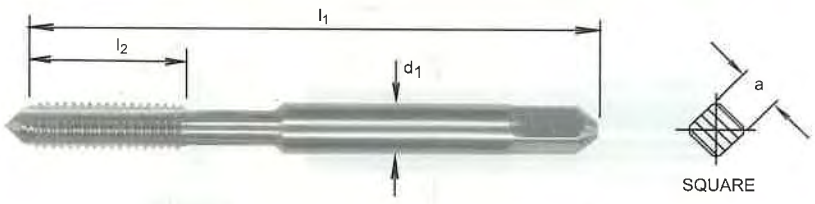
Size	NOM. DIA. AT GAUGE PLANE	TPI	l_1	l_2	l_3	d_1	a	SET	TAPER	BOTTOM
1/8	10.272	27	59	15	7.9	8.0	6.3	5850320	5850321	5850323
1/4	13.571	18	67	19	11.7	10	8.0	5850640	5850641	5850643
3/8	17.054	18	75	21	11.5	12.5	10	5850950	5850951	5850953
1/2	21.224	14	87	26	14.7	16	12.5	5851270	5851271	5851273
3/4	26.568	14	96	28	14.4	20	16	5851910	5851911	5851913
1"	33.228	11-1/2	109	33	17.2	25	20	5852540	5852541	5852543
1-1/4	41.986	11-1/2	119	36	17.4	31.5	25	5853170	5853171	5853173
1-1/2	48.054	11-1/2	125	37	17.8	35.5	28	5853810	5853811	5853813
2"	60.091	11-1/2	140	41	16.9	40	31.5	5855080	5855081	5855083

Code
591

THREADING TOOLS

Short Hand Taps

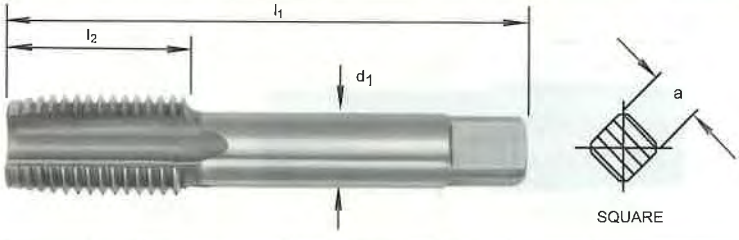
BA | ISO 529 | HSS | 47½° | MED | Straight Flute



SIZE	NOMINAL DIA.	TPI	l_1	l_2	d_1	a	SET	TAPER	SECOND	BOTTOM
No.12	1.3	0.28	40	7	2.5	2	5910130	5910131	5910132	5910133
No.10	1.7	0.35	41	8	2.5	2	5910170	5910171	5910172	5910173
No.9	1.9	0.39	41	8	2.5	2	5910190	5910191	5910192	5910193
No.8	2.2	0.43	44.5	9.5	2.8	2.24	5910220	5910221	5910222	5910223
No.7	2.5	0.48	44.5	9.5	2.8	2.24	5910250	5910251	5910252	5910253
No.6	2.8	0.53	44.5	9.5	2.8	2.24	5910280	5910281	5910282	5910283
No.5	3.2	0.59	48	11	3.15	2.5	5910320	5910321	5910322	5910323
No.4	3.6	0.66	50	13	3.55	2.8	5910360	5910361	5910362	5910363
No.3	4.1	0.73	53	13	4.5	3.55	5910410	5910411	5910412	5910413
No.2	4.7	0.81	58	16	5	4	5910470	5910471	5910472	5910473
No.1	5.3	0.9	62	17	5.6	4.5	5910530	5910531	5910532	5910533
No.0	6.0	1	66	19	6.3	5	5910600	5910601	5910602	5910603

Code
595

BSB | ISO 529 | HSS | 55° | Straight Flute



Size	TPI	l_1	l_2	d_1	a	SET	TAPER	BOTTOM
1/4	26	66	19	6.3	5	5950640	5950641	5950643
5/16	26	72	22	8	6.3	5950790	5950791	5950793
3/8	26	80	24	10	8	5950950	5950951	5950953
7/16	26	85	25	8	6.3	5951110	5951111	5951113
1/2	26	89	29	9	7.1	5951270	5951271	5951273
5/8	26	102	32	12.5	10	5951590	5951591	5951593
3/4	26	112	37	14	11.2	5951910	5951911	5951913
1"	26	130	45	18	14	5952540	5952541	5952543

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