

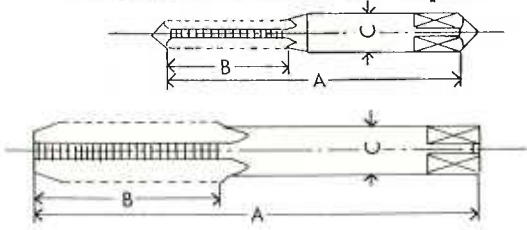
# HAND TAPS

HANDGEWINDEOHRER  
MACHOS DE ROSCAR A MANO  
TARAUDS

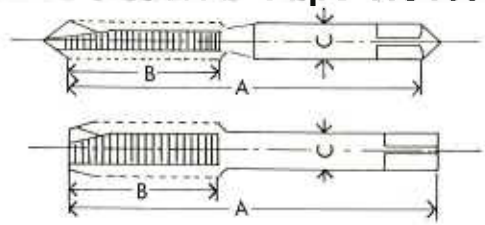
# METRIC STANDARD

ART NO.801

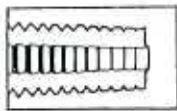
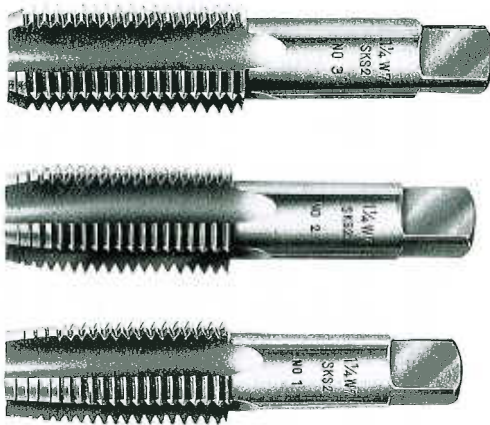
## Standard Hand Taps



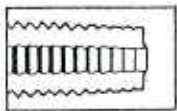
## Spiral Pointed Taps NO.803PO



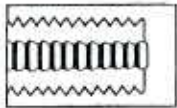
**High Speed Steel**  
**Tungsten Steel**  
**ALLOY Steel**



**TAPER**  
8 to 10 threads chamfered for easy thread starting in rough materials.



**PLUG**  
3 to 5 threads chamfered—general use when tapping to bottom of holes is not critical. (This is the most widely-used type of tap.)



**BOTTOMING**  
1, 1/2 threads chamfered—use after threads have been started for tapping to bottom of hole.

3 pc one set  
METRIC 1.0mm up to 12 mm in plastic case and 14mm and up in Printed box.

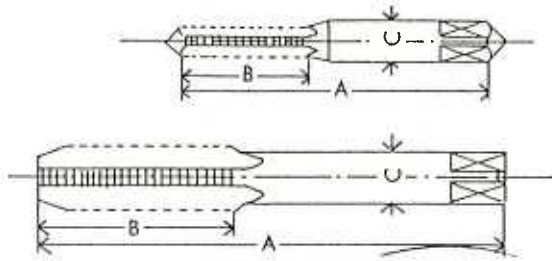
INCHI/16inch up to 1/2inch in plastic case and 9/16inch and up in Printed box.

Nominal Diameter (mm)	Pitch (mm)	Metric (COARSE)		Shank Dia C (mm)	Weight Per Set (g)
		Length			
		A (mm)	B (mm)		
1	0.25	30	8	3	8
1.2	0.25	32	9	3	10
1.4	0.3	34	11	3	10
1.7	0.35	36	13	3	10
2	0.4	40	15	3	12
2.3	0.4	42	15	3	12
2.6	0.45	44	16	3	12
3	0.6	46	18	4	15
3	0.5	46	18	4	18
3.5	0.6	48	18	4	18
4	0.75	52	20	5	20
4	0.7	52	20	5	20
4.5	0.75	55	20	5	25
5	0.9	60	22	5.5	30
5	0.8	60	22	5.5	30
5.5	0.9	60	22	5.5	35
6	1	62	24	6	40
7	1	65	26	6.2	50
8	1.25	70	30	6.2	70
9	1.25	72	30	7	75
10	1.5	75	32	7	80
11	1.5	80	38	8	110
12	1.75	82	38	8.5	135
14	2	88	42	10.5	185
16	2	95	45	12.5	250
18	2.5	100	48	14	360
20	2.5	105	50	15	400
22	2.5	115	55	17	650
24	3	120	58	19	850
27	3	130	62	20	1180
30	3.5	135	65	23	1500
33	3.5	145	70	25	1980
36	4	155	75	28	2640
39	4	165	80	30	2920
42	4.5	175	85	32	3520
45	4.5	180	85	35	4090
48	5	185	90	38	5480
52	5	195	90	42	5900
56	5.5	205	95	44	8300
60	5.5	215	100	46	9750
64	6	225	105	48	11250
68	6	235	110	52	12980

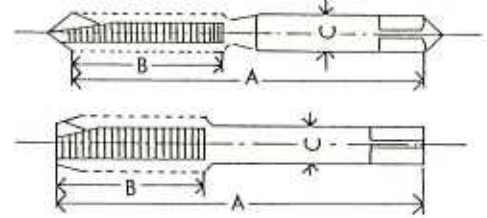
## INGREDIENT SPECIFICATION

Type of Steel	Elements	Chemical Composition										
		C % × 100	Si % × 100	Mn % × 100	P % × 1000	S % × 1000	Cu % × 100	Ni % × 100	Cr % × 100	Mo % × 100	W % × 100	V % × 100
SKH <sub>2</sub>		70~85	MAX 40	MAX 40	MAX 30	MAX 30			380~450		1700~1900	80~120
SKH <sub>3</sub>		80~90	MAX 40	MAX 40	MAX 30	MAX 30			380~450	450~550	550~670	160~220
SKS <sub>11</sub>		120~130	MAX 35	MAX 50	MAX 30	MAX 30			20~50		300~400	10~30
SKS <sub>2</sub>		100~110	MAX 35	MAX 80	MAX 30	MAX 30			50~100		100~150	
GSS <sub>2</sub>		97	MAX 18	MAX 97	MAX 24	MAX 17	9		48	21		
ALLOY		0.95~1.10	MAX 35	MAX 90	MAX 27	MAX 20			13~165			

## Standard Hand Taps



## Spiral Pointed Taps



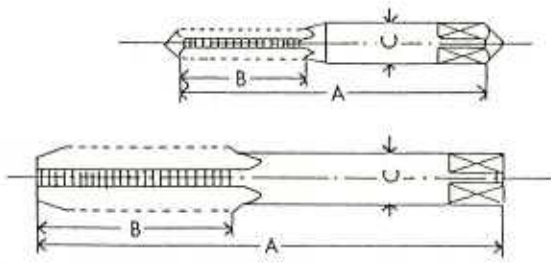
**High Speed Steel  
Tungsten Steel  
ALLOY Steel**

Nominal Diameter (mm)	Pitch (mm)	Length		Shank Dia C (mm)
		A (mm)	B (mm)	
1	0.2	30	8	3
1.2	0.2	32	9	3
1.4	0.2	34	11	3
1.7	0.25	36	13	3
2.0	0.25	40	15	3
2.3	0.25	42	15	3
2.6	0.35	44	16	3
3	0.35	46	18	4
3.5	0.35	48	18	4
4	0.5	52	20	5
4.5	0.5	55	20	5
5	0.5	60	22	5.5
5.5	0.5	60	22	5.5
6	0.5	62	24	6
7	0.5	65	26	6.2
8	0.5	70	30	6.2
9	0.5	72	30	7
10	0.5	75	32	7
11	0.5	80	38	8
12	0.5	82	38	8.5
13	0.5	85	40	9.5
14	0.5	88	42	10.5
15	0.5	90	42	10.5
16	0.5	95	42	12.5
18	0.5	100	48	14
20	0.5	105	50	15
22	0.5	115	55	17
24	0.5	120	58	19
25	0.5	135	60	19
26	0.5	125	60	20
28	0.5	130	62	21
30	0.5	135	65	23
32	0.5	140	68	24
34	0.5	150	73	26
36	0.5	155	75	28
38	0.5	160	78	28
6	0.75	62	24	6
7	0.75	65	26	6.2
8	0.75	70	30	6.2
9	0.75	72	30	7
10	0.75	75	32	7
11	0.75	80	38	8

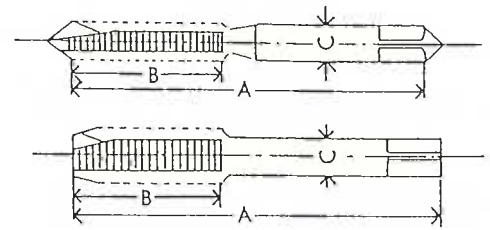
Nominal Diameter (mm)	Pitch (mm)	Length		Shank Dia C (mm)
		A (mm)	B (mm)	
8	1.0	70	30	6.2
9	1.0	72	30	7
10	1.0	75	32	7
11	1.0	80	38	8
12	1.0	82	38	8.5
13	1.0	85	40	9.5
14	1.0	88	42	10.5
15	1.0	90	42	10.5
16	1.0	95	42	12.5
17	1.0	100	45	13
18	1.0	100	48	14
20	1.0	105	50	15
22	1.0	115	55	17
24	1.0	120	58	19
25	1.0	125	60	19
26	1.0	125	60	20
27	1.0	130	62	20
28	1.0	130	62	21
30	1.0	135	65	23
32	1.0	140	68	24
34	1.0	150	73	26
36	1.0	155	75	28
38	1.0	160	78	28
40	1.0	170	83	30
42	1.0	175	85	32
45	1.0	180	85	35
48	1.0	185	90	38
50	1.0	190	90	40
10	1.25	75	32	7
11	1.25	80	38	8
12	1.25	82	38	8.5
14	1.25	88	38	10.5
12	1.5	82	38	8.5
13	1.5	85	40	9.5
14	1.5	88	42	10.5
15	1.5	90	42	10.5
16	1.5	95	45	12.5
17	1.5	100	45	13
18	1.5	100	48	14
20	1.5	105	50	15
22	1.5	115	55	17
24	1.5	120	58	19
25	1.5	125	60	19
26	1.5	125	60	20
27	1.5	130	62	20
28	1.5	130	62	21
30	1.5	135	65	23

Nominal Diameter (mm)	Pitch (mm)	Length		Shank Dia C (mm)
		A (mm)	B (mm)	
32	1.5	140	68	24
33	1.5	145	70	25
34	1.5	150	73	26
35	1.5	150	73	26
36	1.5	155	75	28
38	1.5	160	78	28
39	1.5	165	80	30
40	1.5	170	83	30
42	1.5	175	85	32
45	1.5	180	85	35
48	1.5	185	90	38
50	1.5	190	90	40
52	1.5	195	90	42
55	1.5	205	95	44
56	1.5	205	95	44
58	1.5	215	100	46
60	1.5	215	100	46
62	1.5	225	105	48
64	1.5	225	105	48
65	1.5	225	105	50
68	1.5	235	110	52
70	1.5	240	115	55
72	1.5	245	115	55
75	1.5	245	115	58
76	1.5	245	115	58
78	1.5	245	115	58
80	1.5	245	115	58
82	1.5	245	115	60
85	1.5	245	115	60
88	1.5	245	115	60
90	1.5	250	120	60
92	1.5	250	120	60
95	1.5	250	120	65
98	1.5	250	120	60
100	1.5	250	120	65
18	2	100	48	14
20	2	105	50	15
22	2	115	55	17
24	2	120	58	19
25	2	125	60	19
26	2	125	60	20
27	2	130	62	20
28	2	130	62	21
30	2	135	65	23
32	2	140	68	24
33	2	145	70	25
34	2	150	73	26
36	2	155	75	28
38	2	160	78	28
39	2	165	80	30

## Standard Hand Taps



## Spiral Pointed Taps



**High Speed Steel  
Tungsten Steel  
ALLOY Steel**

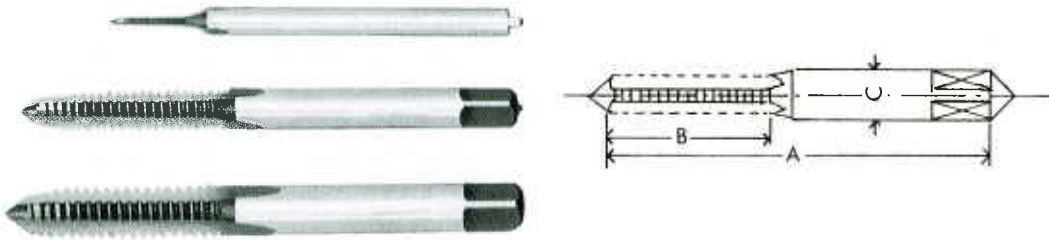
Nominal Diameter inch	Thread per inch					Length		Shank Dia C(mm)	Weight per set(g)
	(u)NC	(u)NF	(u)NS	BSW	BSF	A(mm)	B(mm)		
1/16	60		64.72	60		36	13	3	12
3/32	48		56	48		42	16	3	12
1/8	40	44	40.44	40	44	46	18	4	15
5/32	32	36	32.36	32	36	52	20	5	20
3/16	24	32	24.32	24	32	60	22	5.5	30
7/32	24	32	24.32	24		60	22	5.5	35
1/4	20	28	24.32	20	26	62	24	6	40
9/32	20		28.32	20		62	24	6	60
5/16	18	24	32	18	22	70	30	6.1	70
3/8	16	24	32	16	20	75	35	7	75
7/16	14	20	28	14	18	80	38	8	110
1/2	13	20	32.28	12	16	85	42	9	135
9/16	12	18	27	12	16	90	42	10.5	185
5/8	11	18	32	11	14	95	45	12	250
11/16	11	16	11.16	11	14	95	45	12	350
3/4	10	16	32	10	12	105	50	14	380
7/8	9	14	12.18	9	11	115	55	17	600
1	8	12	14.20	8	10	125	60	20	830
1 1/8	7	12	18	7	9	135	65	22	1270
1 1/4	7	12	18	7	9	145	70	24	1610
1 3/8	6	12	18	6	8	155	75	26	1980
1 1/2	6	12	18	6	8	160	78	30	2740
1 5/8	5	12	5 1/2	5	8	170	82	32	3560
1 3/4	5	12	6	5	7	175	85	35	4080
1 7/8	4 1/2	12	5	4 1/2	7	185	90	38	4690
2	4 1/2	12	4	4 1/2	7	195	92	40	6130
2 1/4	4 1/2	12	4 1/2	4	6	210	100	45	8500
2 1/2	4		4	4	6	225	105	48	11100
2 3/4	4			3 1/2	6	235	110	55	13500
3	4			3 1/2	5	250	115	58	14500
3 1/4	3 1/2			3 1/4		260	120	60	21500
3 1/2	3 1/4			3 1/4		270	124	62	25200
3 3/4	3			3		280	128	65	29000
4	3			3		295	132	72	33700
4 1/4				2 7/8		300	134	76	40700
4 1/2				2 7/8		310	136	80	46500
4 3/4				2 3/4		325	138	84	53000
5				2 3/4		335	140	88	63000
5 1/4				2 5/8		350	142	92	71500
5 1/2				2 5/8		360	144	95	79400
5 3/4				2 1/2		370	146	98	92500
6				2 1/2		380	150	100	104000
Angel of Thread	60°	60°	60°	55°	55°				

# HAND TAPS

HANDGEWINDEOHRER  
MACHOS DE ROSCAR A MANO  
TARAUDS

ART NO.802

## Machine Screw Taps



**High Speed Steel  
Tungsten Steel  
ALLOY Steel**

Size No.	Nominal Diameter		Thread Per inch			Length		Shank Dia	Weight
	inch	mm	(u)NC	(u)NF	(u)NS	A(mm)	B(mm)	C(mm)	per pc(g)
0	0.060	1.524		80		34	11	3	4
1	0.073	1.854	64	72	56	36	13	3	4
2	0.086	2.184	56	64		40	15	3	4
3	0.099	2.515	48	56		44	16	3	5
4	0.112	2.845	40	48	32-36	44	16	4	5
5	0.125	3.175	40	44		46	18	4	5
6	0.138	3.505	32	40	36	48	18	4	6
8	0.164	4.166	32	36	40	52	20	5	6
10	0.190	4.826	24	32	30	60	22	5.5	10
12	0.216	5.486	24	28	32	60	22	5.5	14
14	0.242	6.147	20	24		62	24	6	15

# SEWING MACHINE TAPS

ART NO.818



**High Speed Steel  
Tungsten Steel  
ALLOY Steel**

Nominal Diameter inch	Thread per inch	Length A(mm)	Length B(mm)	Shank Dia C(mm)
SM 1/16	80	36	13	3
SM 5/64	64	40	15	3
SM 3/32	100	42	15	3
SM 3/32	56	42	15	3
SM 1/8	48	46	18	4
SM 1/8	44	46	18	4
SM 1/8	40	46	18	4
SM 9/64	40	48	18	4
SM 11/64	40	55	20	5
SM 11/64	32	55	20	5
SM 3/16	40	60	22	5.5
SM 3/16	32	60	22	5.5
SM 3/16	28	60	22	5.5
SM 3/16	24	60	22	5.5
SM 13/64	32	60	22	5.5
SM 7/32	32	60	22	5.5
SM 15/64	28	62	24	6
SM 1/4	40	62	24	6
SM 1/4	28	62	24	6
SM 1/4	24	62	24	6

Nominal Diameter (mm)	Thread per inch	Length A(mm)	Length B(mm)	Shank Dia C(mm)
SM 9/32	28	65	26	6.5
SM 9/32	20	65	26	6.5
SM 5/16	28	70	30	6.1
SM 5/16	24	70	30	6.1
SM 5/16	18	70	30	6.1
SM 11/32	28	70	30	7
SM 3/8	28	70	30	7
SM 3/8	18	75	35	7
SM 7/16	28	70	30	8
SM 7/16	16	80	38	8
SM 1/2	28	70	30	9
SM 1/2	20	85	42	9
SM 1/2	12	85	42	9
SM 9/16	20	90	42	10.5
SM 1 3/16	24	105	35	23

# COMBINED TAPS and DRILLS

ART NO.811PD

HIGH SPEED STEEL GROUND THREAD

## Combined Taper Pipe Taps and Drills



**High Speed Steel  
Ground Thread**

Size	Pitch	Number of Flutes	Overall Length	Drill Length	Drill		D Thread Length	E Square Length	F Diameter Shank	G Square
					C Size	I Decimal				
1/16	27	4	2 <sup>13</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	D	0.2460	1 <sup>11</sup> / <sub>16</sub>	3/8	0.312	0.234
1/8	27	4	2 7/8	3/4	R	0.3390	3/4	3/8	0.437	0.328
1/4	18	4	3 5/16	7/8	7/16	0.4375	1 1/16	7/16	0.562	0.421
3/8	18	4	3 1/2	15/16	37/64	0.5781	1 1/16	1/2	0.700	0.531
1/2	14	4	4 3/8	1 1/4	45/64	0.7031	1 3/8	5/8	0.687	0.515
3/4	14	4	4 9/16	1 5/16	59/64	0.9219	1 3/8	11/16	0.906	0.679
1	11 1/2	4	5 3/8	1 5/8	1 5/32	1.1563	1 3/4	15/16	1.125	0.843

# SPIRAL DRILL TAPS

ART NO.811



**High Speed Steel  
Ground Thread  
Cut Thread**

Size	Thread Per Inch	Overall Length	Thread Length	Drill Length	Drill Size	Number of Flutes
4	40—NC	1 7/8	9/16	1/4	0.89	2
4	48—NF	1 7/8	9/16	1/4	0.93	2
5	40—NC	1 <sup>15</sup> / <sub>16</sub>	5/8	9/32	0.1015	2
5	44—NF	1 <sup>15</sup> / <sub>16</sub>	5/8	9/32	0.104	2
6	32—NC	2	11/16	5/16	0.1095	2
6	40—NF	2	11/16	5/16	0.115	2
8	32—NC	2 1/8	3/4	3/8	0.136	2
8	36—NF	2 1/8	3/4	3/8	0.1385	2
10	24—NC	2 3/8	7/8	13/32	0.152	2
10	32—NF	2 3/8	7/8	13/32	0.161	2
12	24—NC	2 3/8	7/8	15/32	0.177	2
12	28—NF	2 3/8	7/8	15/32	0.1835	2
1/4	20—NC	2 1/2	15/16	17/32	0.201	2
1/4	28—NF	2 1/2	15/16	17/32	0.2175	2
5/16	18—NC	3	1 1/8	11/16	0.257	2
5/16	24—NF	3	1 1/8	11/16	0.272	2
3/8	16—NC	3 1/2	1 1/4	13/16	0.3125	2
3/8	24—NF	3 1/2	1 1/4	13/16	0.3345	2
7/16	14—NC	3 7/8	1 7/16	1	0.368	2
7/16	20—NF	3 7/8	1 7/16	1	0.389	2
1/2	13—NC	4 1/4	1 <sup>21</sup> / <sub>32</sub>	1 1/8	0.425	2
1/2	20—NF	4 1/4	1 <sup>21</sup> / <sub>32</sub>	1 1/8	0.451	2

# HAND TAPS SPECIAL SERIES

ART NO.902

## Sparking Plug

Taper  
Plug(intermediate)  
Bottoming

60°thread form

SIZE (mm)	Pitch (mm)	Overall Length (mm)	Thread Length (mm)	Shank Diameter (mm)	No. of Flutes
10.0	1.00	70.0	30.0	7.0	4
12.0	1.25	80.0	38.0	8.5	4
14.0	1.25	80.0	38.0	10.5	4
18.0	1.5	95.0	45.0	14.0	4

## BRITISH STANDARD BRASS

ART NO.903

Taper  
Plug(intermediate)  
Bottoming

55°thread form

**High Speed Steel**  
**Tungsten Steel**  
**ALLOY Steel**

SIZE INCH	Thread per INCH	Shank Diameter INCH	Thread Length INCH	Overall Length INCH	Size of Square INCH	No. of Flutes
1/4	26	0.255	1	2 1/2	0.191	4
5/16	26	0.318	1 1/8	2 23/32	0.238	4
3/8	26	0.381	1 1/4	2 15/16	0.286	4
7/16	26	0.323	1 1/4	3	0.242	4
1/2	26	0.367	1 1/4	3	0.275	4
9/16	26	0.429	1 1/4	3	0.322	4
5/8	26	0.480	1 1/4	3	0.360	4
3/4	26	0.590	1 1/2	3 1/4	0.442	4
7/8	26	0.697	1 1/2	3 1/4	0.523	4
1	26	0.800	1 1/2	3 1/4	0.600	4

## BRITISH STANDARD CONDUIT

ART NO.904

Taper  
Plug(intermediate)  
Bottoming

55°thread form

SIZE INCH	Thread per INCH	Shank Diameter INCH	Thread Length INCH	Overall Length INCH	Size of Square INCH	No. of Flutes
5/8	18	0.480	1 1/4	3	0.360	4
3/4	16	0.590	1 1/2	3 1/4	0.442	4
1	16	0.800	1 1/2	3 1/4	0.600	4
1 1/4	16	1.021	1 1/2	4	0.766	4
1 1/2	14	1.233	1 1/2	4	0.925	4
2	14	1.644	2	5	1.233	6

## METRIC CONDUIT

ART NO.905

Taper  
Plug(intermediate)  
Bottoming

60°thread form

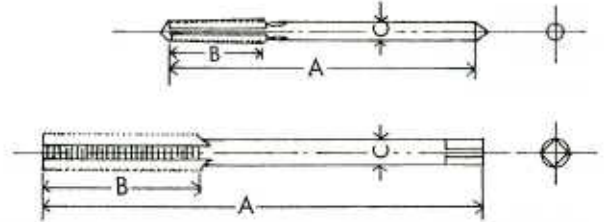
SIZE mm	Pitch mm	Shank Diameter mm	Thread Length mm	Overall Length mm	Size of Square mm	No. of Flutes
16	1.5	12.20	32	76	9.15	4
20	1.5	15.00	38	83	11.25	4
25	1.5	20.40	38	83	15.30	4
32	1.5	26.00	38	102	19.50	4
40	1.5	31.40	38	102	23.55	4
50	1.5	41.90	51	127	31.40	6

# MACHINE NUT TAPS

# METRIC BSW. UNC. UNF

ART NO.807

**High Speed Steel  
Tungsten Steel**



Nominal size (mm)	Pitch (mm)	A(mm)		B (mm)	C (mm)	W/T PC (g)	Nominal size (mm)	Pitch (mm)	A(mm)		B (mm)	Nominal Size (mm)	Thread per inch			A(mm)		B (mm)	C (mm)	
		LONG TAP	SHORT TAP						LONG TAP	SHORT TAP			BSW	NC	NF	LONG TAP	SHORT TAP			
2.6	0.45	85	50	15	2	3	2.6	0.35	85	50	15	NO. 2		56	64	80	48	15	1.5	
3	0.6	90	55	20	2.1	4	3	0.35	90	55	15	NO. 3		48	56	85	50	18	1.7	
3	0.5	90	55	20	2.1	4	3.5	0.35	95	55	15	NO. 4		40	48	90	55	22	1.8	
3.5	0.6	95	55	20	2.6	4.2	4	0.5	100	60	18	NO. 5		40	44	90	55	22	2.1	
4	0.75	100	60	25	2.8	4.3	4.5	0.5	105	60	18	NO. 6		32	40	95	58	28	2.2	
4	0.7	100	60	25	2.8	4.3	5	0	110	70	20	NO. 8		32	36	105	60	28	2.9	
4.5	0.75	105	60	25	3.3	4.5	5.5	0.5	115	70	20	NO.10		24	32	110	70	35	3.3	
5	0.9	110	70	30	3.6	11	6	0.75	120	75	28	NO.12		24	28	115	75	35	3.8	
5	0.8	110	70	30	3.6	11	7	0.75	120	75	30	1/8	40	40	44	90	55	22	2.2	
5.5	0.9	115	70	30	4.1	13	8	0.75	120	75	30	5/32	32	32	36	100	60	28	2.8	
6	1	120	75	35	4.5	15	9	0.75	125	75	30	3/16	24	24	32	110	70	35	3.3	
7	1	130	75	35	5.5	21	10	0.75	130	80	30	1/32	24	24	32	115	75	35	4	
8	1.25	140	85	40	6.2	29	11	0.75	130	80	30	1/4	20	20	28	125	85	42	4.5	
9	1.25	150	90	45	7.2	41	8	1.0	140	85	38	3/16	18	18	24	140	95	50	5.9	
10	1.5	160	100	50	7.8	53	9	1.0	140	90	38	3/8	16	16	24	155	100	55	7.3	
11	1.5	165	110	55	8.8	72	10	1.0	140	90	38	1/16	14	14	20	165	110	60	8.5	
12	1.75	170	115	60	9	118	11	1.0	140	90	40	1/2	12	13	20	180	120	65	9.5	
14	2	190	125	65	11	165	12	1.0	140	95	40	3/16	12	12	18	190	130	70	11	
16	2	200	135	70	13	185	14	1.0	150	100	40	1/8	11	11	18	200	140	75	12.5	
18	2.5	220	145	80	14	235	15	1.0	160	105	42	3/4	10	10	16	230	150	85	15	
20	2.5	230	155	85	16	285	16	1.0	160	105	42	7/8	9	9	14	250	165	95	18	
22	2.5	250	165	90	18	425	17	1.0	170	105	42	1	8	8	14	270	180	105	20.5	
24	3	260	175	100	19	610	18	1.0	170	105	42	1 1/4	7	7	12	290	200	120	23	
27	3	280	190	110	22	750	20	1.0	175	115	45	1 1/4	7	7	12	300	215	125	26	
30	3.5	300	200	120	24	910	22	1.0	190	120	45	1 1/4	6	6	12	320	230	135	28	
33	4	310	210	130	27	1210	24	1.0	190	120	45	1 1/2	6	6	12	330	240	140	31	
36	4	330	220	140	29	1610	25	1.0	190	125	45	1 1/4	5	5	12	370	270	170	33	
39	4	340	230	145	32	2110	27	1.0	200	135	48	1 1/4	5	5	12	390	280	175	36	
42	4.5	370	250	155	34	2330	28	1.0	210	135	48	1 7/8	4 1/2	4 1/4	12	410	300	190	39	
45	5	390	260	160	37	2560	30	1.0	210	140	48	2	4 1/2	4 1/4	12	420	310	195	42	
48	5	410	270	170	40	3150	10	1.25	160	100	48	2 1/4	4	4 1/4		440	330	210	47	
52	5.5	420	290	180	44		12	1.25	170	115	48	2 1/2	4	4		460	350	220	53	
56	5.5	440	300	190	47		14	1.25	190	125	48	2 3/4	3 1/2	4		480	380	240	58	
60	6	450	320	200	51		12	1.5	190	115	58	3	3 1/2	4		500	400	250	65	
64	6	460	330	210	54		14	1.5	200	125	58	3 1/4	3 1/4	4		510	420	260	70	
68	6	470	340	215	58		15	1.5	210	130	58	3 1/2	3 1/4	4		520	440	270	76	
							16	1.5	220	135	58									
							17	1.5	230	140	58									
							18	1.5	250	145	60									
							20	1.5	260	155	60									
							22	1.5	260	165	60									
							24	1.5		175	60									
							25	1.5		180	62									

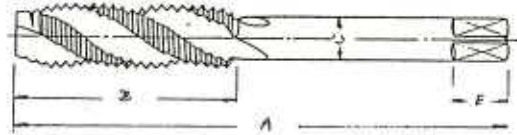
# SPIRAL FLUTED TAPS

ART NO.812

SPIRAL GROOVES MAKE IT EASY TO OUST METAL WASTE WHEN THREADED

**BSW NF N.C  
METRIC**

Spiral grooves make it easy to oust metal waste when threaded.



**High Speed Steel  
Ground Thread**

DIA	THREAD PER INCH			OVERALL LENGTH	THREAD LENGTH	SHANK	SQUARE 3 LENGTH	SQUARE 4 LENGTH
	BSW	NF	NC					
3/16"	24	32	24	60	22	5.5	7	4.5
1/4"	20	28	20	62	24	6	7	4.5
5/16"	18	24	18	70	30	6.1	8	5
3/8"	16	24	16	75	35	7	9	5.5
7/16"	14	20	14	80	38	8	10	6
1/2"	12	20	13	85	42	9	11	7
9/16"	12	18	12	90	42	10.5	12	8
5/8"	11	18	11	95	45	12	14	9
3/4"	10	16	10	105	50	14	16	11
7/8"	9	14	9	115	55	17	18	13
1"	8	14	8	125	60	20	20	15
1 1/8"	7	12	7	135	65	22	22	17
1 1/4"	7	12	7	145	70	24	24	19
1 3/8"	6	12	6	155	75	26	26	21
1 1/2"	6	12	6	160	78	30	30	23
3M	0.6	0.35	0.50	46	18	4	6	3.2
4M	0.75	0.50	0.70	52	20	5	7	4
5M	0.90	0.50	0.80	60	22	5.5	7	4.5
6M	1.0	0.75	0.50	62	24	6	7	4.5
7M	1.0	0.75	0.50	65	26	6.2	8	5
8M	1.25	1.0	0.75	70	30	6.5	8	5
10M	1.50	1.25	1.0	75	32	7	8	5.5
12M	1.75	1.50	1.0	82	38	8.5	9	6.5
14M	2.0	1.50	1.0	88	42	10.5	11	8
16M	2.0	1.50	1.0	95	45	12.5	13	10
18M	2.5	1.50	1.0	100	48	14	14	11
20M	2.5	1.50	1.0	105	50	15	15	12

# BURRING REAMERS

ONE PC. A CARTON BOX

ART NO.848

**High Speed Steel  
Tungsten Steel**



#	Point Dia.	Pipe Dia.	Blade Length	Pipes Applicable	Weight (approx.)
#0	6.0 <sup>m</sup> / <sub>m</sub>	27 <sup>m</sup> / <sub>m</sub>	43 <sup>m</sup> / <sub>m</sub>	1/8"~1"	100g
1	7.0	36	46	1/4~1 1/4	210
1 1/2	7.0	46	60	1/4~1 1/2	410
2	8.0	53	95	1/4~2	800

# TAPER REAMER

ONE SET IN A VINYL KIT

ART NO.750

**High Speed Steel  
Tungsten Steel**



	HANDLE	DIMENSIONS--INCH & M/M					ONE PC. WT	
		CAPA-CITY	DIA LARGE END	DIA POINT	PER CASE	G.W.		MEAS' T
NO.1	1/8"~1/2"	1/2"	1/8"	5DOZ	4K200	1.1CFT	CARTON	70g
NO.2	M3~M16	M16	M3	5DOZ	6K200	1.1CFT	CARTON	100
NO.3	4~22	22	4	5DOZ	11K100	1.3CFT	CARTON	185
NO.4	4~32	32	4	5DOZ	23K100	1.3CFT	CARTON	385



# HAND TAPS BA.

ART NO.809

BA(British Association Thread)

**High Speed Steel  
ALLOY STEEL**



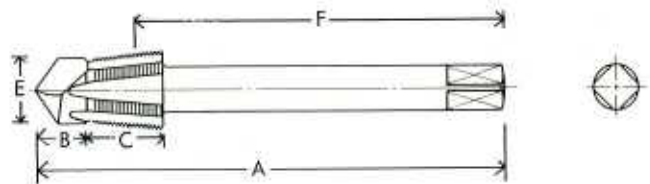
47.5° thread form

- Taper
- Plug(Second)
- Bottoming
- Sets(3per set)

Nominal BA Size	Basic Major Diameter	Pitch mm	Thread Length mm	Overall Length mm	Shank Diameter mm	Weight Per Set(g)
BA NO.14	1.0	0.23	8	32	3	8
BA NO.13	1.2	0.25	8	32	3	10
BA NO.12	1.3	0.28	8	40	3	10
BA NO.11	1.5	0.31	8	40	3	10
BA NO.10	1.7	0.35	8	40	3	11
BA NO. 9	1.9	0.39	10	42	3	11
BA NO. 8	2.2	0.43	11	44	3	12
BA NO. 7	2.5	0.48	13	46	3	13
BA NO. 6	2.8	0.53	15	48	4	15
BA NO. 5	3.2	0.59	16	50	4	17
BA NO. 4	3.6	0.66	18	50	4	20
BA NO. 3	4.1	0.73	20	52	5	20
BA NO. 2	4.7	0.81	22	60	5.5	23
BA NO. 1	5.3	0.90	22	60	5.5	30
BA NO. 0	6.0	1.00	24	62	6	35

# COMBINED PIPE TAPS and DRILLS

ART NO.817



**High Speed Steel** { Ground Thread  
**Tungsten Steel** { Cut Thread

Nominal Size Inches	Basic Major Diameter(mm)	Thread Per Inch	A mm	B mm	C mm	E mm	F mm
3/4	26.441	14	290	28	42	23.134	232
1	33.249	11	290	27	43	29.183	232
1 1/4	41.910	11	305	40	45	37.954	232
1 1/2	47.803	11	305	40	45	43.847	232
2	59.614	11	320	55	45	55.534	232
2 1/2	75.184	11	340	55	45	70.855	252

# PULLEY TAPS

ART NO.810  
ART NO.810PO

ART NO.810 Pulley Taps

ART NO.810PO Spiral Point Pulley Taps



**PLUG CHAMFER ONLY**

**High Speed Steel**

SIZE	Thread Per INCH	Overall Length INCH	Overall Length INCH	Over Length INCH	
NO. 6	32	6			
NO. 8	32	6			
NO. 10	24	6			
3/16	24	6			
1/4	20	6	8	10	12
5/16	18	6	8	10	12
3/8	16	6	8	10	12
7/16	14	6	8	10	12
1/2	13	6	8	10	12
9/16	12	6	8	10	12
5/8	11	6	8	10	12
3/4	10	6	8	10	12
7/8	9	6	8	10	12
1	8	6	8	10	12
1 1/8	7	6	8	10	12
1 1/4	7	6	8	10	12
1 3/8	6	6	8	10	12
1 1/2	6	6	8	10	12

# LONG TAPER PIPE TAPS

ART NO.814



**High Speed Steel**

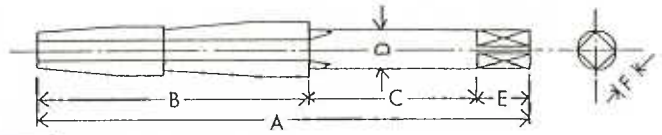
Nominal Diameter INCH	Thread Per INCH	Overall Length INCH	Overall Length INCH	Overall Length INCH	Overall Length INCH	Overall Length INCH
1/16	27	4	6	8	10	12
1/8	27	4	6	8	10	12
1/4	18	4	6	8	10	12
3/8	18		6	8	10	12
1/2	14		6	8	10	12
5/8	14		6	8	10	12
3/4	14		6	8	10	12
7/8	14		6	8	10	12
1	11 1/2		6	8	10	12
1 1/4	11 1/2		6	8	10	12
1 1/2	11 1/2		6	8	10	12

# “ACME” THREAD TAPS

ART NO.898

## Acme Taps High Speed Steel

Tandem



A INCH	B INCH	C INCH	D INCH	E INCH	F INCH	
1/2 - 10	5	2 9/16	2	.367	7/16	.275
5/8 - 8	6 1/4	3 3/16	2 1/2	.480	9/16	.360
3/4 - 6	7 15/16	4 3/16	3	.573	5/8	.430
7/8 - 6	8 5/8	4 3/8	3 1/2	.697	3/4	.524
1 - 5	10 1/4	5 1/4	4	.730	7/8	.547
1 1/8 - 5	10 3/4	5 1/4	4 1/2	.862	1	.646
1 1/4 - 5	11 1/4	5 1/4	4 3/4	.959	1 1/8	.719
1 3/8 - 4	12 1/4	5 3/8	5 1/8	1.108	1 1/4	.831
1 1/2 - 4	12 3/8	5 7/8	5 1/2	1.233	1 1/4	.925

Roughing

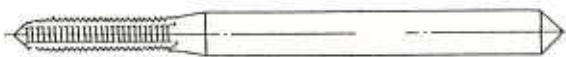


Finishing



# SPECIALITY TAPS

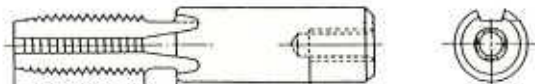
### MICRO PLUG TAPS



### LONG TAPS



### PEARL TAPPER TAPS



### SERIAL MACHINE TAPS



### DRILL TAPS



### SPIRAL FLUTED TAPS



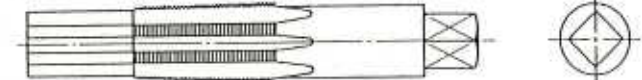
### STAY BOLT TAPS



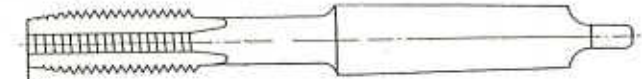
### GUIDE TAPS



### REAMER SECTION TAPS



### MORSE TAPER SHANK TAPS



### MULTI-DIAMETER TAPS

