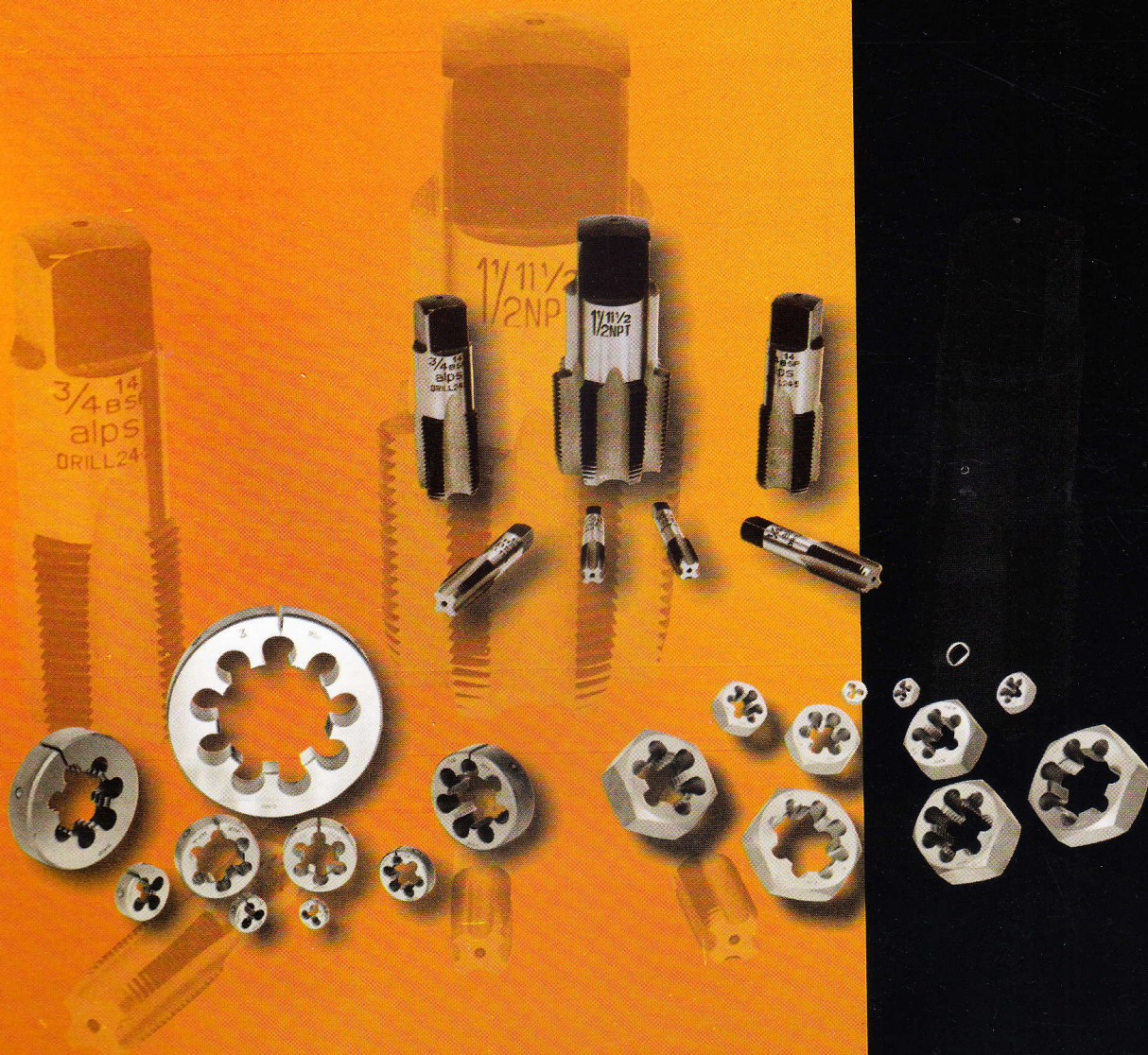


CATALOGUE

alps

TAPS & DIES





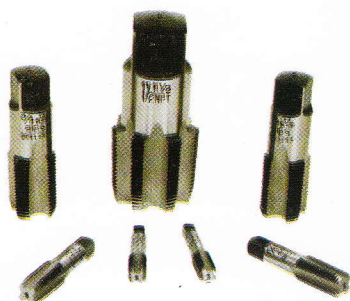
CARBON STEEL CUT THREAD HAND TAPS B.S.W., B.S.F., U.N.F., U.N.C.

Thread Angle BSW, BSF 55° UNC, UNF 60°



Size in Inches	Thread Per Inch				Standard Packing
	B.S.W.	B.S.F.	U.N.F.	U.N.C.	
1/16	60/ 1.2	-	-	-	Ten
3/32	48/ 1.7	-	-	-	-
1/8	40/ 2.55	-	-	-	-
5/32	32/ 3.2	-	-	-	-
3/16	24/ 3.7	32/ 3.95	-	-	-
7/32	24/ 4.4	28/ 4.65	-	-	-
1/4	20/ 5.1	26/ 5.3	28/ 5.5	20/ 5.2	-
9/32	20/ 5.85	26/ 6.1	-	-	-
5/16	18/ 6.5	22/ 6.75	24/ 6.9	18/ 6.6	-
3/8	16/ 7.9	20/ 8.2	24/ 8.5	16/ 8.0	-
7/16	14/ 9.2	18/ 9.7	20/ 9.9	14/ 9.5	-
1/2	12/ 10.5	16/ 11.1	20/ 11.4	13/ 10.8	-
9/16	12/ 12.1	16/ 12.5	18/ 12.9	12/ 12.2	Five
5/8	11/ 13.5	14/ 14.0	18/ 14.5	11/ 13.5	-
11/16	11/ 15.0	14/ 15.4	18/ 16.1	11/ 15.1	-
3/4	10/ 16.25	12/ 16.75	16/ 17.45	10/ 16.5	-
13/16	10/ 17.8	12/ 18.2	16/ 19.1	10/ 18.1	-
7/8	9/ 19.25	11/ 19.75	14/ 20.4	9/ 19.5	-
15/16	9/ 20.8	11/ 21.3	14/ 22	9/ 21.0	-
1.00	8/ 22.0	10/ 22.75	12/ 23.25	8/ 22.25	-
1.1/8	7/ 25.75	9/ 25.50	12/ 26.5	7/ 25.0	One
1.1/4	7/ 27.50	9/ 28.75	12/ 29.5	7/ 28.0	-
1.3/8	6/ 27.0	8/ 31.5	12/ 32.8	6/ 30.75	-
1.1/2	6/ 33.5	8/ 34.5	12/ 36.0	6/ 33.8	-
1.5/8	5/ 35.8	8/ 37.9	-	-	-
1.3/4	5/ 39.0	7/ 40.5	-	-	-
1.7/8	4.1/2/ 41.3	7/ 43.7	-	5/ 39.3	-
2.00	4.1/2/ 44.5	7/ 46.9	-	4.1/2/ 45.2	-

CARBON STEEL CUT THREAD HAND TAPS BSP, BSC

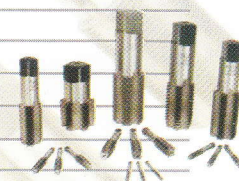


B.S.P. PARALLEL Thread Angle 55° B.S. CONDUIT ELECTRIC Thread Angle 55°						
Size in Inches	Thread Per Inch	Std. Packing	Size in Inches	T.P.I.		STD Packing
1/8	28/ 8.75	Ten	-	-		-
1/4	19/ 11.8	Ten	-	-		-
3/8	19/ 15.25	-	-	-		-
1/2	14/ 19.00	Five	1/2	18/ 11.10		Five
5/8	14/ 21.00	-	5/8	18/ 14.25		-
3/4	14/ 24.50	-	3/4	16/ 17.45		-
7/8	14/ 28.25	-	-	-		-
1	11/ 30.75	One	1	16/ 23.80		-
1.1/4	11/ 39.50	-	1.1/4	16/ 30.15		One
1.1/2	11/ 42.20	-	1.1/2	14/ 36.10		-
1.3/4	11/ 51.20	-	-	-		-
2	11/ 57.00	-	-	-		-

RED indicates drill size in mm

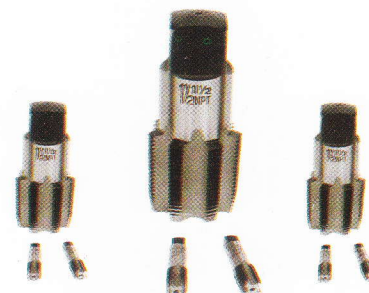
CARBON STEEL CUT THREAD HAND TAPS MILLIMETERS

Thread Angle 60°			SPECIAL PITCHES				
Size in MM	Pitch	Standard Packing	Size in MM	Size in MM		Size in MM	
2	0.4/1.6	Ten	2.5x.45/2.0	25x1.5/23.5		48x3.0/45.0	
3	0.5/2.5	-	2.6x.45/2.1	25x2.0/23.0		48x4.0/44.0	
4	0.7/3.3	-	3.5x.6/2.9	26x1.5/24.5		50x3.0/47.0	
5	0.8/4.2	-	4.5x.75/3.7	26x2.0/24.0		50x4.0/46.0	
6	1.0/5.0	-	5.5x.9/4.6	27x1.5/25.5			
7	1.0/6.0	-	6x.75/5.25	27x2.0/25.0			
8	1.25/6.75	-	7x.75/6.25	28x1.5/26.5			
9	1.25/7.75	-	8x.75/7.25	28x3.0/25.0			
10	1.5/8.5	-	8x1.0/7.0	30x1.5/28.5			
11	1.5/9.5	-	9x1.0/8.0	30x2.0/28.0			
12	1.75/10.25	-	10x1.0/9.0	30x3.0/27.0			
14	2.0/12.0	Five	10x1.25/8.75	33x1.5/31.5			
16	2.0/14.0	Five	11.x1.0/10.0	33x2.0/31.0			
18	2.5/15.5	-	12x1.0/11.0	33x3.0/30.0			
20	2.5/17.5	-	12x1.25/10.75	36x1.5/34.5			
22	2.5/19.5	-	12x1.5/10.5	36x2.0/34.0			
24	3.0/21.0	-	13x1.75/11.25	36x3.0/33.0			
25	3.0/22.0	-	14x1.0/13.0	39x1.5/37.5			
27	3.0/24.0	One	14x1.25/12.75	39x2.0/37.0			
30	3.5/26.5	-	14x1.50/12.5	39x3.0/36.0			
33	3.5/29.5	-	15x2.0/13.0	40x1.5/38.5			
36	4.0/32.0	-	16x1.25/14.75	40x2.0/38.0			
--	--	-	16x1.5/14.5	40x3.0/37.0			
39	4.0/35.0	-	18x1.50/16.5	42x1.5/40.5			
40	4.0/36.0	-	18x1.75/16.25	42x2.0/40.0			
--	--	-	18x2.0/16.0	42x3.0/39.0			
--	--	-	20x1.5/18.5	42x4.0/38.0			
42	4.5/37.5	-	20x2/18.0	45x1.5/43.5			
--	--	-	22x1.5/20.5	45x2.0/43.0			
45	4.5/40.5	-	22x2.0/20.0	45x3.0/42.0			
48	5.0/43	-	24x1.5/22.50	45x4.0/41.0			
50	5.0/45	-	24x2.0/22.0	48x2.0/46.0			



CARBON STEEL CUT THREAD HAND TAPS BSB, NPT, BSPT

HAND TAPS BRASS THREAD (BSB) Thread Angle 55°			HAND TAPS NPT/BSPT Thread Angle 60°				STD Packing
Size in Inches	TPI	STD PACKING	Size in Inches	NPT	BSPT		
7/32	26	Ten	1/8	27	28		Ten
1/4	26	Ten	1/4	18	19		Ten
9/32	26	Ten	3/8	18	19		Ten
5/16	26	Ten	1/2	14	14		Five
3/8	26	Ten	5/8	-	14		Five
7/16	26	Ten	3/4	14	14		Five
1/2	26	Ten	7/8	-	14		Five
9/16	26	Ten	1"	11 1/2	11		One
5/8	26	Ten	1. 1/4	11 1/2	11		One
3/4	26	Ten	1. 1/2"	11 1/2	11		One
7/8	26	Ten	2"	11 1/2	11		One
1"	26	Ten					
1"	24	Ten					



RED indicates drill size in mm



CARBON STEEL CUT THREAD HAND TAPS

HAND TAPS SEWING MACHINES STANDARD PACKING TEN		MODEL ENGINEERS'S M.E. STANDARD PACKING TEN Thread Angle 55°	
Size in Inches	TPI	Size in Inches	TPI
11/64	40	5/32	40
3/16	28	3/16	40
15/64/-	28	7/32	40
17/64	28	1/4	40
9/32	28	9/32	32
3/8	28	5/16	32
7/16	28	3/8	32
7/16	16	7/16	26
9/16	20	1/2	26

HAND TAPS B.S. CYCLE Thread Angle 60°

Size in Inches	Threads per Inch	Standard Packing
9/16 (Pedal)	20	Ten
1.370 (B.B. Shell)	24	One



HAND TAPS B.A. (BRITISH ASSOCIATION) (STANDARD PACKING TEN) Thread Angle 47.1/2°

Size/B.A.	0,1,2,3,4,5	6	7	8	9	10	11	12

HAND TAPS NC/NF NO. TAPS

Screw Gauge No.	0,1,2,3,4	5,6,8,10	12

SPECIAL SIZE THREADING TAPS

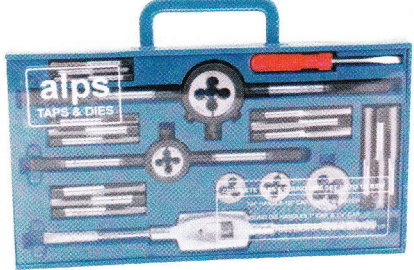
Size in Inches	TPI	Size in Inches	TPI	Size in Inches	TPI
9/64	40	9/32	24	5/8	20
11/64	48	9/32	36	11/16	20
3/16	48	5/16	30	11/16	16
13/64	24	5/16	36	3/4	20
7/32	32	3/8	40	13/16	20
15/64	40	7/16	32	7/8	18
1/4	24	7/16	40	7/8	20
17/64	26	1/2	24	1"	14
17/64	32	9/16	24	1"	20





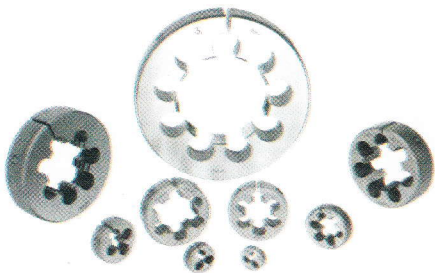
COMPLETE TAP AND ROUND DIE SETS CASED IN FINE FINISHED BOXES

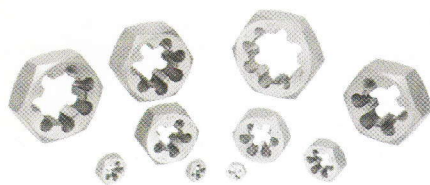
Each set contains Taps and round dies as listed with suitable
Round Die Handles Tap Wrenches and One Screw Driver

	No. of Sizes	Set No.		No. of Sizes	Set No.
1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, BSW	7	201	1/8, 1/4, 3/8, 1/2, 3/4, 1 BSP	6	236
1/8, 5/32, 3/16, 7/32, 1/4, BSW	5	203	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1.1/4 BSP	7	237
1/4, 5/16, 3/8, 7/16, 1/2, BSW	5	205	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1.1/4, 1.1/2 BSP	8	238
1/4, 5/16, 3/8, 7/16, 1/2, BSF	5	207	1/8, 1/4, 3/8, 1/2, 3/4, 1 NPT	6	239
1/4, 5/16, 3/8, 7/16, 1/2, UNF	5	209	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1.1/4 NPT	7	240
			1/8, 1/4, 3/8, 1/2, 3/4, 1, 1.1/4, 1.1/2 NPT	8	241
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, BSW	7	211			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, BSF	7	213			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, UNF	7	215			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1 BSW	9	217			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1 BSF	9	219			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1 UNF	9	221			
1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1.1/4, BSW	10	222			
2,3,4,5,6MM(DIN)	5	223			
2,3,4,5,6,7,8,9,10 MM (S.I.)	9	224			
3,4,5,6,7,8,9,10 MM (S.I.)	8	224A			
3,4,5,6,7,8,9,10,12 MM (S.I.)	9	226			
6,7,8,10,12 MM (S.I.)	5	225			
6,8,10,12,14,16,18 MM (S.I.)	7	227			
6,8,10,12,14,16,18,20 MM (S.I.)	8	228			
6,8,10,12,14,16,18,20,22,24 MM (S.I.)	10	229			
0,1,2,3,4,5,6 BA	7	231			
0,1,2,3,4,5,6,7,8 BA	9	233			
0,1,2,3,4,5,6,7,8,9,10 BA	11	235			

ROUND DIES

Size	Outer Dia (Inches)
1/16 BSW, 3/32 BSW, 6 BA, 7 BA, 8 BA, 9 BA, 10 BA, 2x0.4, 2X0.45, 2.5X0.45, 2.6X0.45, 0 UNF to 10 UNF, 0 UNC to 10 UNC	13/16
1/8, 5/32, 3/16, 7/32, 1/4, BSW/UNF/BSF/UNC, 3X0.5, 3X0.6, 3.5X0.6, 4X0.7, 5X0.8, 6X1.0, 0BA to 5 BA	13/16
1/4, 5/16, 3/8, BSW/BSF/UNF/UNC/SPECIAL, 6X1.0, 7X1.0, 8X1.25, 9X1.25, 10X1.5, 1/8 BSP, 18 NPT/BSPT	1
5/16, 3/8, 7/16, 1/2, 9/16, 5/8, BSW/BSF/UNF/UNC/SPECIAL, 10X1.5, 11X1.5, 12X1.75, 13X1.75, 14X2.0, 16X2.0, 1/4 BSP, 3/8 BSP, 1/2, 5/8, 3/4 CON. 9/16 BSCY, 1/8, 3/8 NPT/BSPT	1.1/2
11/16, 3/4, 7/8, 1, BSW/BSF/UNF/UNC/SPECIAL 18X2.5, 20X2.5, 22X2.5, 24X3.0, 1/2, 5/8, 3/4 BSP, 1" CON., 1/2, 5/8, 3/4 NPT/BSPT	2
1.1/8, 1.1/4, BSW/BSF/UNF/UNC, 20X2.5, 22X2.5, 24X3.0, 1/2, 5/8, 3/4, BSP/BSPT/NPT, 1" CONDUIT	2.1/4
1.1/8, 1.1/4, BSW/BSF/UNF/UNC, 27X3.0, 30X3.5, 1.370 BSCY, 1 BSP/BSPT/NPT	2.1/2
1.3/8, 1.1/2, BSW/BSF/UNF/UNC/SPECIAL, 33X3.5, 36X4.0, 1.1/4 BSP/NPT/BSPT	3
1.3/4, 2, BSW/BSF/SPECIAL, 40X4.0, 42X4.5, 45X4.5, 48X5.0, 50X5.0, 1.1/2 BSP/BSPT/NPT	4





HEXAGONAL DIES

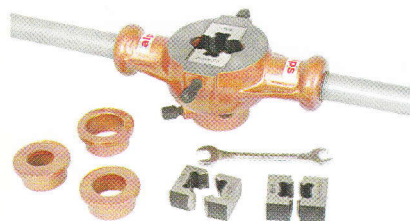
Size	D.A.F.
1/8, 5/32, 3/16, 7/32, 1/4, BSW/BSF, 0-10 BA, 1/4 UNC, 6MM	0.710
9/32, 5/16, BSW/BSF, 5/16 UNC/UNF, 7MM, 8MM	0.820
3/8 BSW/BSF/UNF/UNC, 1/8 BSP, 9MM, 10MM	0.920
7/16 BSW/BSF/UNC/UNF, 11MM	1.010
1/2 BSW/BSF/UNF/UNC, 1/4 BSP 12MM	1.100
5/8, 9/16, BSW/BSF/UNC/UNF, 3/8 BSP 14, 16MM, 5/8, 9/16 BSCY	1.300
3/4 BSW/BSF/UNC/UNF, 18MM, 20MM	1.480
7/8 BSW/BSF/UNC/UNF, 1/2, 5/8 BSP, 22MM	1.670
1" BSW/BSF/UNC/UNF, 3/4 BSP, 24MM	2.050
1.1/8, 1.1/4 BSW/BSF/UNC/UNF, 7/8 BSP, 27MM, 30MM	2.220
1.3/8 BSW/BSF, UNC/UNF, 1" BSP, 33MM	2.580
1.1/2 BSW/BSF/UNC/UNF, 1.7/8 BSW/BSF	2.760
1.3/4 BSW/BSF, 1.7/8 BSW/BSF. 1.1/2 BSP	3.150
2" BSW/BSF/UNC/UNF	3.330

NPT/BSPT SIZES ARE ALSO AVAILABLE AT 50% EXTRA COST

DRILL TAP COMBINED FOR WATER MAIN SUPPLY



Size/BSP	1/4"	3/8"	1/2"	3/4"	1"
Size/BSP	1.1/4"	1.1/2"	2"		



COMPLETE PIPE/CONDUIT DIE SET (HEAVY DUTY) (BSP OR BSC)

Size in Inches	1/2, 3/4, 1	1.1/4 or 1.1/2	1.1/4, 1.1/2, 2	2.1/2, 3	4	5, 6
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PIPE STOCK & DIES COMPLETE WITH STOCK, BUSHING, BUSHING HOLDER, TAP & TAP WRENCHES

Sizes in mm	6, 9, 12, 19, 25, 32, 38 & 50mm
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Contents: 1Pc. Handle for Dies 6,9,12,19,25mm, 1Pc. Handle for Dies 32,38,50mm.
8Pcs. Bushes for Dies 6,9,12,19,25,32,38,50, 8Pcs. Dies for Sizes 6,9,12,19,25,32,38,50mm
8Set of Taps (2 Pcs.Set) of 6,9,12,19,25,32,38,50mm. 1Pc. Tap Handle 1", 1Pc. Tap Handle 2.1/2"

STOCK & DIE SET FOR G.I. PIPE

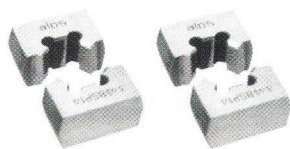
Sizes in mm	20mm to 50mm
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Contents: 1Pc. Handle for 20mm & 25mm Dies, 1Pc. Handle for 32,38,50mm Dies,
5 Pcs. Bushes for Dies 20,25,32,38 & 50mm 5Pcs. Dies of 20,25,32,38 & 50mm

ADJUSTABLE PIPE TAP SET BSP WITH DIE SET COVER PIPE

Sizes in mm	15,20,25,32,38,50mm
-------------	---------------------

Contents: 1 Pc. Handle for Dies 15,20,25mm, 1Pc. Handle for 32,38,50mm,
6 Pcs. Bushes for 15,20,25,32,38,50mm, 6Pcs. Dies of 15,20,25,32,38,50mm
Set of Taps (2Pcs.Each) of 15,20,25,32,38,50mm, 1Pc. Tap Handle 1.1/4" 1Pc. Tap Handle 2.1/2"



SPARE TWO PIECE DIE-BSP/CONDUIT (DIE STEEL)

Size in Inches	1/2, 3/4, 1	1.1/4, 1.1/2, 2	2.1/2, 3	3.1/2, 4	5, 6

SPARE GULLA DIE

46x2.0, 50x1.5, 50x2.0, 52x1.5, 56x1.5, 60x1.5, 58x16 TPI,
62x1.5, 62x1.75, 62x2.0, 62x2.5, 64x1.5, 64x1.75, 64x2.0,
66x2.5, 70x1.5, 70x2.0, 70x2.5, 72x2.5, 75x1.5, 75x2.0,
75x12 TPI, 80x2.5, 80x3.0

SPARE BUSH

Size in Inches	1/2, 3/4, 1	1.1/4, 1.1/2, 2	2.1/2, 3	3.1/2, 4	5, 6

BOLT DIE SET-BSW (BUSH TYPE)

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COLLET AND COLLET HANDLE

Bolt Die Collet	2.3/4"	6 to 24 MM, 1/4" to 1"	
Collet Handle/			
Bolt Die Handle		Capacity 2.3/4	

SPARE TWO PIECE DIE-BSW/BSF/UNF/MM (DIE STEEL)

Size BSW/BSF/UNF	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1

Size in MM	6	8	10	12	14	16	18	20	22	24

RATCHET PIPE THREADER (STEEL BOX PACKING)

Available: Complete Set Single Collet with chaser Spare Handle

Size	1/2, 3/4, 1" BSP	1.1/4, 1.1/2, 2" BSP	2/12", 3"

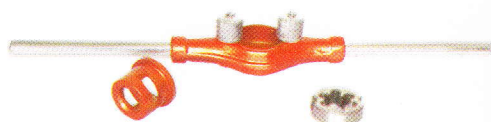
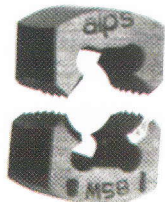
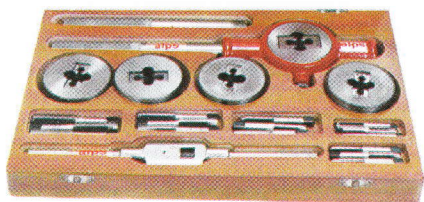
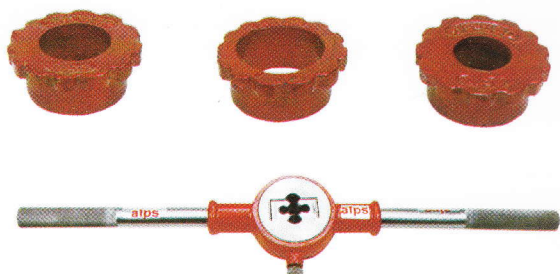
ELECTRICIAN STOCK & DIE SET

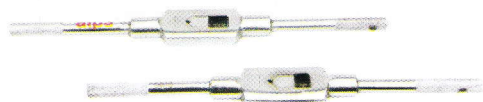
Consist of Square Dies of Size	PG11	PG13.5	PG16	PG21

DIE STOCK

For Electric Conduit Solid Circular Dies

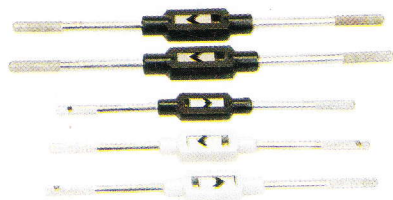
Size Dies	20X1.5mm	25x1.5mm





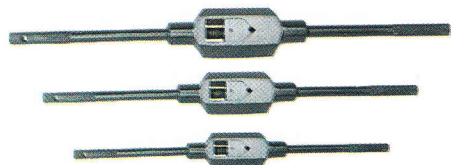
TAP HANDLES

Size	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2	2.1/2



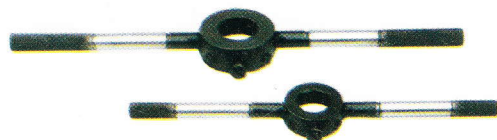
TAP HANDLE (EXPORT QUALITY)

Size in Inches	1/4	3/8	1/2	3/4	1"



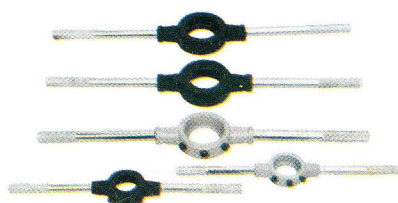
TAP HANDLE (Drop Forged)

Size in Inches	1/4	3/8	1/2	3/4	1"



ROUND DIE HANDLE

Capacity	13/16	1	1.5/16	1.1/2	2	2.1/4	2.1/2	3	4



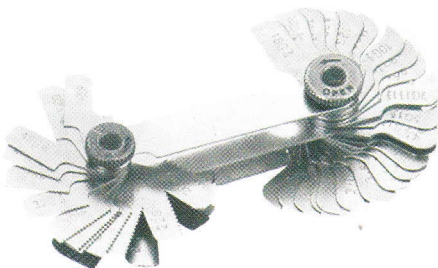
ROUND DIE HANDLE (EXPORT QUALITY)

Size in Inches	13/16	1	15/16	1.1/2	2



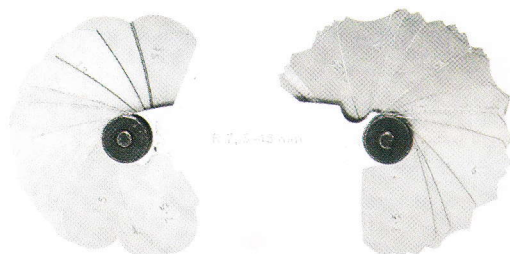
T. HANDLE TAP WRENCH (Solid Jaws)

Size in Inches	1/16-3/16	1/8-1/4	3/16-5/16	1/4-1/2



Code 173:
THREAD GAUGE (Export Quality)

Code No.	
173-1	mm or inches Single
173-2	mm & inches Double



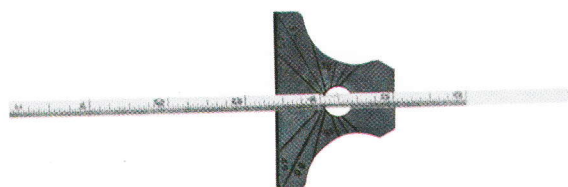
Code 174:
RADIUS GAUGE

Code No.	Size (in inches)	No. of Leafs
174-1	1-7	34
174-2	7.5-15	32
174-3	15.5-25	30



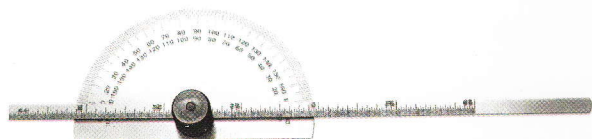
Code 175:
FILLER GAUGE Length 4" (Export Quality)

Code No.	No. of Leafs
175-1	8
175-2	9
175-3	10
175-4	13
175-5	15
175-6	20
175-7	26
175-8	0.5 to 1mm 26



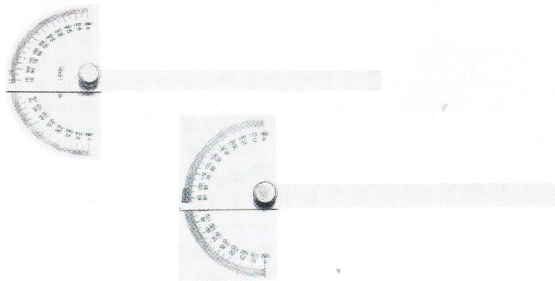
Code 163:
DEPTH GAUGE (Export Quality)

Code No.	SIZE (in Inches)
163-1	6
163-2	12



Code 164 :
DEPTH GAUGE WITH PROTACTOR (Export Quality)
Graduated from 0 to 180 in both Directions the rule is adjustable through out the length

Code No.	LENGTH (in Inches)
164-1	6 Round
164-1R	6 Rectangular



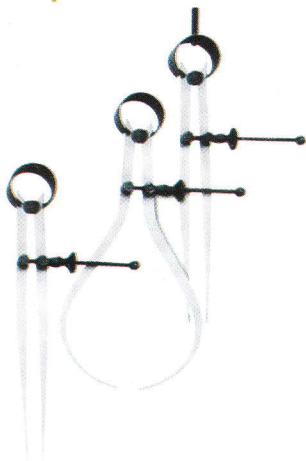
Code 165 :
PROTACTOR WITH GRADUATED STEEL RULE (Export Quality)

Code No.	LENGTH (in Inches)
165-1	6
165-2	8



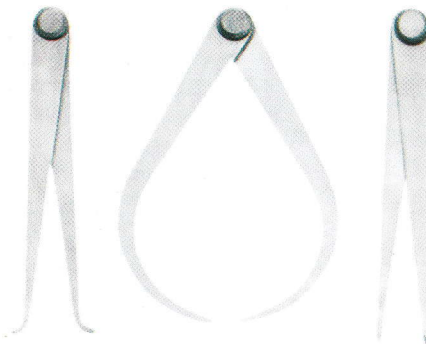
Code 162:
SLIDING CALLIPER 4" (BRASS) (Export Quality)

Code No.	Size (in inches)
162-3	4



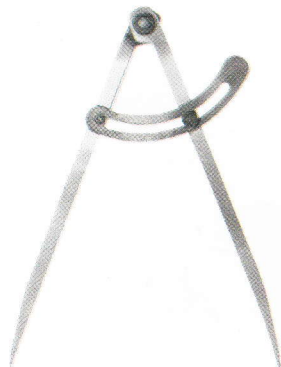
Code 156 :
SPRING CALLIPERS & DIVIDERS (FLAT)

Series :- IS : INSIDE, OS : OUT SIDE, D : DIVIDER (EXPORT QUALITY)	
Code No.	Length (in Inches)
156-1	3
156-2	4
156-3	6
156-4	8
156-5	10
156-6	12
156-7	14
156-8	18
156-9	24



Code 157 :
FIRM JOINT CALLIPERS DIVIDERS

Series :- IS : INSIDE, OS : OUT SIDE, D : DIVIDER (Export Quality)	
Code No.	SIZE (in Inches)
157-1	3
157-2	4
157-3	5
157-4	6
157-5	8
157-6	10
157-7	12
157-8	18
157-9	24



Code 159 :
WING COMPASS

(Export Quality)	
Code No.	SIZE (in Inches)
159-1	6
159-2	8
159-3	10
159-4	12
159-5	18
159-6	24



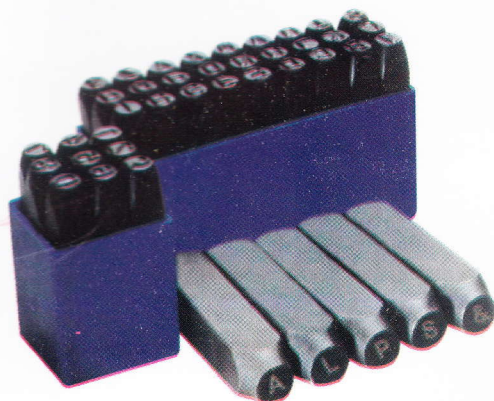
Code 191: DIAMOND DRESSER (Shank 1/2"x 6")

Code No.	Carat Weight
191-1	0.16
191-2	0.25
191-3	0.35
191-4	0.50
191-5	0.75
191-6	1.00
191-7	1.25
191-8	1.50
191-9	2.00
191-10	2.50
191-11	3.00
191-12	3.50
191-13	4.00
191-14	5.00



Code 126 : FIGURE SETS (BLACK FINISH)

Code No.	(Hardened)	(EXPORT QUALITY)
	Size (in mm)	Size (in Inches)
126-1	1.0	1/64
126-2	1.5	1/16
126-2A	2.0	5/64
126-3	2.5	3/32
126-4	3.0	1/8
126-5	4.0	5/32
126-6	5.0	3/16
126-7	6.0	1/4
126-8	8.0	5/16
126-9	10.0	3/8
126-10	12.0	1/2



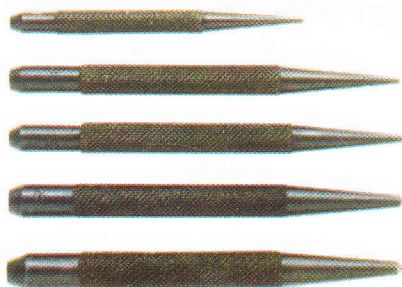
Code 126A : LETTER SETS (BLACK FINISH) (EXPORT QUALITY)

Code No.	(Hardened)	(EXPORT QUALITY)
	Size (in mm)	Size (in Inches)
126A-1	1.0	1/64
126A-2	1.5	1/16
126-2A	2.0	5/64
126A-3	2.5	3/32
126A-4	3.0	1/8
126A-5	4.0	5/32
126A-6	5.0	3/16
126A-7	6.0	1/4
126A-8	8.0	5/16
126A-9	10.0	3/8
126A-10	12.0	1/2

Code 111: ENGINEER'S STEEL SQUARE (EXPORT QUALITY)

Code No.	Size (In Inches)
111-1	2
111-2	3
111-3	4
111-4	6
111-5	8
111-6	9
111-7	10
111-8	12
111-9	18
111-10	24
111-11	36
111-12	42
111-13	48

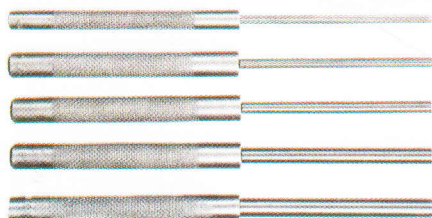




Code 127: CENTRE PUNCHES

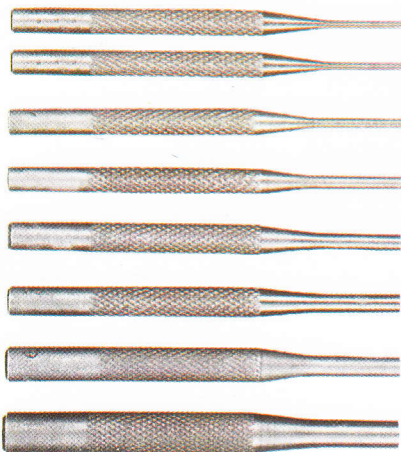
(BLACK NITRATE FINISH) (EXPORT QUALITY)	
Code No.	Size (Dia x Length x Body) (Inches)
127-1	1/16x4
127-2	3/32x4
127-3	1/8x4
127-4	5/32x4
127-5	3/16x4
127-6 Set of 5 Pcs.	1/16, 3/32, 1/8, 5/32, 3/16x4

Code 133: LONG DRIVE PIN PUNCHES (EXPORT QUALITY)



Code No.	Size of Tip (in Inches)	Body Dia (in Inches)
133-1	1/8	7/16
133-2	3/16	7/16
133-3	1/4	7/16
133-4	5/16	1/2
133-5	3/8	1/2
133-6	Set of 5 Pcs.	-

Code 134: DRIVE PIN PUNCHES 4"



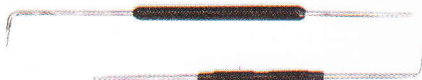
(BLACK NITRATE FINISH) (EXPORT QUALITY)	
Code No.	Size of Tip (in Inches)
134-1	1/16
134-2	3/32
134-3	1/8
134-4	5/32
134-5	3/16
134-6	7/32
134-7	1/4
134-8	5/16
134-9 Set of 4 Pcs.	1/16, 3/32, 1/8, 5/32
134-10 Set of 4 Pcs.	3/16, 7/32, 1/4, 5/16
134-11 Set of 8 Pcs.	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16

Code 149: SCRIBER CARBIDE TIP

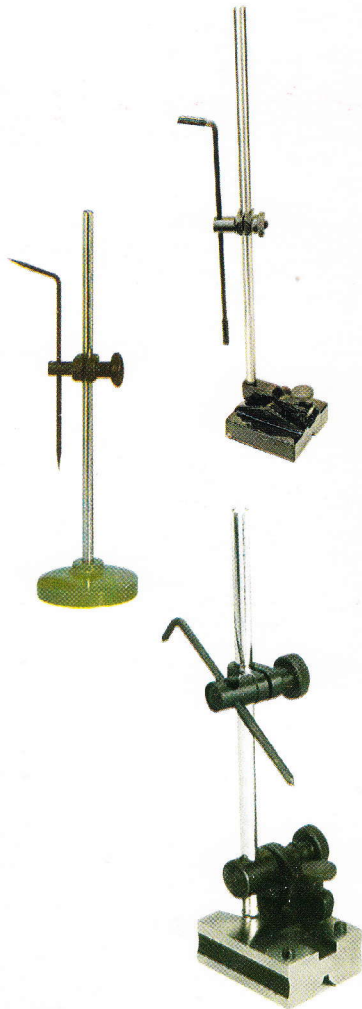


(EXPORT QUALITY)	
Code No.	Size (in inches)
149	6

Code 150: ENGINEER'S SCRIBER



Available Length 4", 7", 8.1/2" & 9"	
Code No.	Type
150-2	FIX TYPE



Code 188: ADJUSTABLE SURFACE GAUGE (Export Quality)

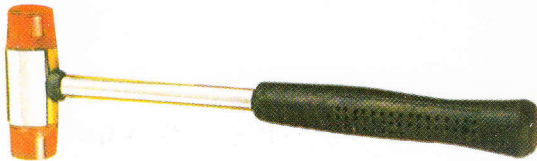
Code No.	Size (Inches) (With Spindle)
188-1	6
188-2	9
188-3	12
188-4	18
188-5	24
188-6	36

Code 189: FIXED SURFACE GAUGE (Export Quality)

Code No.	Size (Inches) (With Spindle)
189-1	6
189-2	9
189-3	12
189-4	18
189-5	20
189-6	24
189-7	36

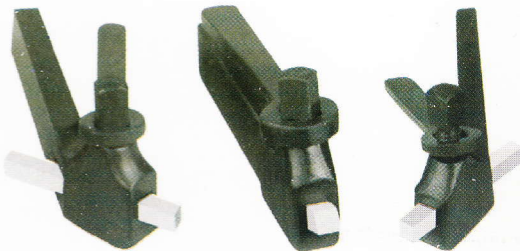
Code 187: TOOL MAKER'S SURFACE GAUGES (EXPORT QUALITY)

Code No.	Size (With Spindles) (in Inches)
187-1	4 & 7
187-2	9 & 12
187-3	12 & 18



Code 233: MALLET PLASTIC FACE (EXPORT QUALITY)

Code No.	Size in mm
233-1	20
233-2	25
233-3	30
233-4	40
233-5	50



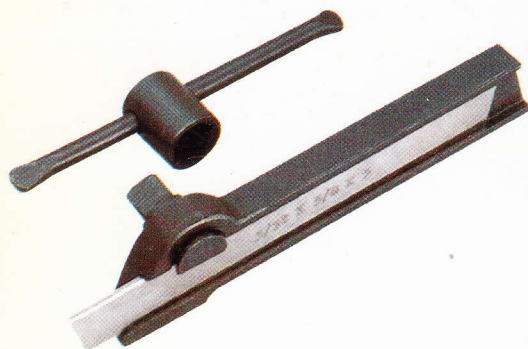
Code 102 : TURNING TOOL HOLDER

(American Pattern)

(EXPORT QUALITY)

Code No.	Size of Holder (in Inches)	Size of Tool Bit (in Inches)
U102-1	5/16 x1/2x4	1/8
U102-2	5/16x3/4x4.1/4	3/16
U102-3	3/8x7/8x5	1/4
U102-4	1/2x1.1/8x6	5/8
U102-5	5/8x1.1.3/8x7	3/8
U102-6	3/4x1.5/8x8	7/16
U102-7	7/8x1.3/4x9	1/2
U102-8	1x2x11	5/8
U102-9	1.1/4x2.1/4x13	3/4
U102-10	1.1/2x2.1/2x16	7/8

Supplied Without Tool Bits
Left & Rights Shapes Are Also Available



Code 105: CUTTING OFF & SIDE TOOL HOLDERS

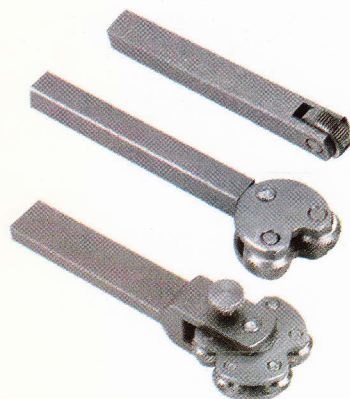
(J & S Pattern)

(EXPORT QUALITY)

Code No.	Size of Holder (in Inches)	Cut of Blade (in Inches)
U105-1	5/16X9/16X3.1/2	1/16x5/16
U105-2	5/16X3/4X4 1/2	3/32x1/2
U105-3	3/8X7/8X5	3/32x5/8
U105-4	1/2X1.1/8X6	1/8x3/4
U105-5	5/8X1.3/8X7	1/8x7/8
U105-6	3/4X1.5/8X8	3/16x1
U105-7	7/8X1.3/4X9	3/16x1.1/8
U105-8	1x2x10	1/4x1.1/4
U105-9	1.1/4x2.1/4x11	1/4x1.3/8

Supplied Without Blades

Left & Rights Shapes Are Also Available



CODE 108:KNURLING TOOL HOLDERS

WITH HIGH SPEED STEEL KNURLS (EXPORT QUALITY)

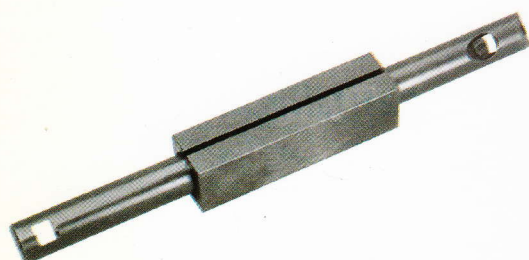
Code No.	Size Of Holder (in Inches)	Knurls Dia (in Inches)	No. of Knurls
U108-1	1/2X1/2X4	3/8x1/4x1/4 (1019)	1
U108-2	5/16x3/4x5	5/8x3/16x7/32 (1755)	2
U108-3	3/8x7/8x5.1/2	5/8x3/16x7/32 (1756)	2
U108-4	1/2x1.1/8x6.1/2	3/4x3/8x1/4 (1757)	2
U108-5	5/8x1.3/8x7.1/2	3/4x3/8x1/4 (1758)	2
U108-6	5/16x3/4x5	5/8x5/16x7/32x(1112)	6
U108-7	3/8x7/8x5.1/2	5/8x5/16x7/32x(1113)	6
U108-8	1/2x1.1/8x6.1/2	3/4x3/8x1/4 (1114)	6
U108-9	5/8x1.3/8x7.1/2	3/4x3/8x1/4 (1115)	6
U108-10	1/2x7/8x6.1/2	3/4x3/8x1/4 (1116)	6
U108-11	1/2x1/2x4.1/2	3/4x3/8x1/4 (1117)	2



CODE 109: KNURLS SPARES (H.S.S.)

Code No.	Dia (in Inches)	Width (in Inches)	Bore (in Inches)
U109-1	5/8	5/16	7/32
U109-2	3/4	3/8	1/4
U109-3	1	3/8	5/16

All Shapes & Style Available



CODE 110: DOUBLE ENDED ONE PIECE BORING BAR WITH HOLDER (EXPORT QUALITY)

Code No.	Size of Bar (in Inches)	Size of Block (in Inches)	Suitable for Sq. Bit Size (Inches)
U110-1	3/8x4.1/2	1/2x2.1/4	1/8
U110-2	7/16x5.1/2	1/2x2.1/2	3/16
U110-3	9/16x6.3/4	5/8x3	1/4
U110-4	3/4x9	7/8x3.3/4	5/16
U110-5	1.5/16x11.1/4	1.1/4x4.1/2	3/8
U110-6	1.1/8X12.3/4	1.3/8X4.1/2	7/16
U110-7	1.5/16x15.3/4	1.5/8x5	1/2

Supplied Without Tool Bit

Manufacturers

APEX STEELS

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Ph. 0181-2600251, 2600252 Fax. 0181-2600253

E-mail: apexsteels@vsnl.net