Thank you

for sending for our catalogue. We have now added new sizes and materials. Any items not listed may be available, please ask. We operate, as a metal Stockholding Co. so we are able to offer a very wide range of metals and technical advice is available if required.

PRICES

All prices are in Pounds Sterling and include V.A.T. currently 20%. Occasionally prices may vary from those published. Items ordered that are not in the catalogue cannot be refunded.

PAYMENT

MasterCard, Visa, Delta, Maestro, Solo, Cheques, Postal Orders and cash are all welcome.

DELIVERY U.K.

Carrier delivers all orders. They can send lengths over 6ft. and heavier items. All goods are insured; contact us 3 weeks after placing your order if you have not received your goods. Taps, dies, drills, bolts, nuts and screws are sent by ordinary post and are not insured, delivery however is reduced by 50%.

ORDER VALUE	DELIVERY CHARGE	SCOTTISH ISLANDS AND HIGHLANDS
Up to £3.99	£4.00	£5.00
£4.00 - £7.99	£6.00	£7.00
£8.00 - £15.99	£8.00	£15.00
over £16.00	£10.00	£20.00

DELIVERY- Channel Islands, European and International orders

Zone 1 France, Germany, Benelux and Greenland

Zone 2 Spain, Italy, Scandinavia, E. Europe and Russia

Zone 3 U.S.A. and Canada

Zone 4 Far East and Australia

Zone 5 Rest of World

	Value of order up to £3.50	10	20	30	40	60
EIRE	4.95	16.87	23.62	24.75	27.75	34.75
CHANNEL ISLES	5.00	10.00	15.00	20.00	20.00	20.00
ZONE 1	4.50	30.15	30.80	34.30	37.30	43.30
ZONE 2	4.50	29.70	32.80	40.80	47.30	60.30
ZONE 3	4.50	33.60	35.80	55.90	67.90	91.90
ZONE 4	5.95	48.00	51.00	65.00	77.00	105.00
ZONE 5	5.95	36.60	43.40	55.90	67.90	91.90

(Over 30kg. Special shipping rates apply)

ROUNDS £/0.3m (ft)

Dia	Bright Steel	Brass	Stainless	Aluminium	Bronze	Copper
1/32	0.17	0.68	0.54	0.44	1.76	0.76
1/16	0.18	0.80	0.62	0.48	2.40	0.87
3/32	0.29	0.84	0.72	0.50	2.88	1.00
1/8	0.30	1.52	0.83	0.51	3.00	2.08
5/32	0.35	1.60	0.95	0.54		2.15
3/16	0.44	1.80	1.43	0.62	8.96	2.28
7/32	0.44	3.60				
1/4	0.50	2.80	2.07	0.83	11.56	2.80
9/32	0.75	4.72				
5/16	0.63	6.00	2.73	1.17	11.72	6.00
3/8	0.78	6.48	3.00	1.68	21.48	6.48
7/16	1.05	11.36	3.99	1.89		
1/2	1.25	9.56	5.16	2.72	23.76	9.56
9/16	1.77	14.56	6.16	2.97		
5/8	2.12	14.32	7.88	3.09	28.60	14.32
11/16	2.60	19.72	9.26	3.99		
3/4	3.11	17.72	10.34	4.44	64.48	17.20
13/16			1000			17.20
	3.56	19.72	10.25	7 01	52.52	21.40
7/8 15/16	3.89 6.20	31.40	12.35 13.86	5.91	53.72	31.40
15/10	0.20		13.00			
1	4.51	37.72	17.43	7.80		37.72
1.1/8	6.26	50.36	22.16	11.82	68.20	
1.1/4	6.36	59.08	37.26	13.30	76.36	59.08
1.3/8	10.20	68.04	58.57	14.79	104.96	
1.1/2	9.44	96.60	39.90	15.51		96.60
1.5/8	11.80	100.28		20.69	187.64	
1.3/4					107.04	114.60
1.7/8	13.07	114.60	55.36	23.64		127.08
	14.90	127.08		22.64	236	
2	17.25	184.88	93.34	25.41		184.88
2.1/4	40.92	190.68	117.87	38.13	287.44	190.68
2.1/2	49.71	254.24	96.94	52.42	341.16	254.24
2.3/4	46.88	447.76	117.16	48.09	401.16	447.76
3	92.35	401.72	159.34	66.72	429.44	401.72
4	141.33	737.40	295.53	142.99	511.04	737.40
5	179.41	1067.52		184.69	969.60	1067.52
6	182.65	1457.36	537.24	320.14	1249.6	
7	322.43	1983.64	759.27	435.75		
8	389.45	2590.84	991.71	569.15		l

9	412.50	3279.04	720.31	
10	659.64	4050.40	889.30	
11	674.48		1076.01	
12	743.77		1249.08	

Lengths shorter than 1 ft length available for Dia over 1" Price pro rata. Dia over 12" available Material below available in increments of 1/8" only: -

Nylon Same as Brass price		Prec Ground EN!A	3.5 xSteel price
PTFE	4 x Brass price	EN8DM	1.5x Steel Price
EN16T	3.5x Steel price	Heat treat to 45/55 tsi	"
EN24T	4x Steel price	heat treated to 55/65 TSI	"
EN36B	4.5X Steel Price		

HEXAGONS price per 0.3m (ft)

Size A/F in	Steel	Brass	Stainless	Bronze	Aluminium
0.152	0.47	3.04	3.80		
0.187	0.51	3.60	2.48	5.54	
0.248	0.52	6.00	2.51	7.54	1.94
0.312	0.78	6.04	3.63	9.60	4.92
0.375	1.19	8.24	4.88	16.30	4.12
0.437	1.25	10.44	7.77	21.96	
0.500	2.01	11.92	7.39	25.78	4.43
0.562	1.82	25.18	7.98		4.95
0.625	2.16	25.18	9.71	29.54	8.09
0.687	3.42	27.08			
0.710	3.81	43.32			
0.750	3.99	26.96	21.67	52.30	31.30
0.812	3.75	35.12			
0.875	4.17	39.40	26.88	79.14	20.63
1.000	5.55	59.60	55.41	86.08	21.45
1.125	7.08	80.04			22.28
1.250	8.63	92.44			

Any other sizes see Miscellaneous section or inquire

SOUARES

Size / in	Steel	Brass	Stainless	Bronze	Aluminium	Copper
1/16		2.20				
3/32						
1/8	0.35	1.48	6.93	5.64		4.72
5/32		2.48				
3/16	0.80	2.76	9.05	15.00	3.27	6.12
1/4	0.84	4.20	2.64	43.76		8.36
5/16	0.95	8.36		44.00	1.41	11.88
3/8	1.31	11.92	7.98	52.24	4.07	18.48
7/16	1.53	10.76				
1/2	1.55	13.72	13.29	75.92	2.91	29.82
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5/8	2.84	22.92	13.62		•	33.00
3/4	3.95	35.84	14.12	93.28	5.41	
7/8	7.35	36.32			8.58	
1	8.51	51.32	22.44		17.80	
1.1/4	13.05	95.72	38.50			218.54
1.1/2	14.52	155.44	63.88		17.61	
1.3/4	18.15	156.64			30.82	
2	39.60	198.44	227.70		52.13	323.08
2.1/2	47.46				73.88	
3	58.62	542.80				
4	115.56					
5					347.97	
			<u>l</u>	Į į		1

Other sizes see miscellaneous section. Over 1" can be cut under 1ft long

		Pric	e per 0.3	8m or foot	to you or I FLATS Method of manufacture may vary
Size	Steel	Brass	Bronze	Stainless	Aluminium
1/32X1/8	0.33	2.00	4.28	1.04	0.63
1/32x3/16	0.26	2.28	5.00	2.58	0.64
1/32x1/4	0.37	2.84	7.00	4.47	0.67
1/32x3/8	0.42	3.20	8.44	4.73	0.69
1/32x1/2	0.54	3.56	8.40	1.38	0.72
1/32x5/8	0.45	3.88	10.84	1.41	0.75
1/32x3/4	0.68	3.58	12.68	1.43	0.77
1/32x 1	1.10	5.16	18.40	1.86	0.79
1/32x1.1/4	1.37	7.24	19.80	2.99	0.90
1/32x1.1/2	1.64	10.24	27.96	4.19	1.43
1/32x1.3/4	1.92	10.44	28.36	4.29	1.54
1/32x2	2.18	11.32	30.84	4.65	1.65
1/16x 1/8	0.36	2.52	3.24	1.14	0.64
1/16x3/16	0.47	3.08	3.96	1.19	0.65
1/16x1/4	0.63	3.80	5.28	1.34	0.68
1/16x3/8	0.96	4.24	6.92	1.62	0.74
1/16x1/2	1.26	3.76	10.64	1.68	0.76
1/16x5/8	1.58	4.17	13.24	1.77	0.83
1/16x3/4	0.33	6.08	15.96	2.36	0.87
1/16x1	0.26	7.44	18.00	2.63	0.91
1/16x1.1/4	0.27	8.76	26.52	3.18	1.08
1/16x1.1/2	0.42	10.28	31.88	3.50	1.14
1/16x1.3/4	0.54	11.48	37.16	4.41	1.28
1/16x 2	0.68	12.68	42.48	5.12	1.35
1/16x2.1/2	1.10	16.96	53.12	6.96	1.61
1/16x 3	1.10	21.00	63.72	7.97	1.91
1/8x3/16	1.37	2.64			0.00
1/8x1/4	1.64	3.52	8.24	1.50	1.50
1/8x3/8	1.92	5.28	12.48	1.65	4.10

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1/8x1/2	2.18	7.08	13.16	2.96	0.99
1/8x5/8	0.35	8.36	16.00	3.50	1.05
1/8 x3/4	0.47	8.96	19.24	2.83	1.23
1/8x 1	0.63	10.12	27.52	4.64	1.38
1/8x1.1/4	0.96	13.08	47.52	6.59	1.46
1/8x1.1/2	1.26	19.80	48.00	6.96	1.56
1/8x1.3/4	1.58	21.80	59.40	12.49	2.00
1/8x2	0.33	22.28	60.64	12.50	2.26
1/8X2.1/2	0.26	35.84	71.28	12.49	2.40
1/8X2.3/4	0.27	29.84	81.36	12.30	2.74
1/8x3	0.42	31.92	84.40	13.16	3.00
1/8x4	0.54	46.20	114.48	15.96	3.55
1/8x5	0.68	62.20	143.12	18.42	6.36
1/8x6	0.83	69.32	171.72	31.13	6.92

FLATS £/0.3m(ft)

Size	Steel	Brass	Bronze	Stainless	Aluminium
3/16x1/4	0.30	2.42	17.76		
3/16x3/8	0.44	3.30	8.10		1.23
3/16x1/2	0.70	4.62	10.80		1.43
3/16x5/8	0.72	5.32	14.52		1.65
3/16x3/4	0.75	6.40	14.94	3.39	1.76
3/16x1	1.07	8.96	19.20	4.62	1.87
3/16x1.1/4	1.74	9.68	26.40	5.31	1.99
3/16x1.1/2	2.07	12.10	30.00	6.64	2.22
3/16x1.3/4	2.18	13.44	39.74	7.45	2.50
3/16x2	2.60	15.74	42.90	8.97	2.89
3/16x2.1/2	3.05	17.42	47.52	9.57	6.25
3/16x3	3.20	28.34	68.42	17.22	7.76
3/16x4	4.46	32.52	70.94	17.89	8.06
3/16x5	6.66	40.68	88.70	19.93	9.80
3/16x6	6.96	54.70	119.32	30.07	15.03
1/4x3/8	0.50	4.40		7.93	0.80
1/4x1/2	0.83	5.28	19.24	6.46	0.87
1/4x5/8	0.87	8.14	24.04	4.47	1.50
1/4x3/4	0.98	8.80	29.46	5.06	1.56
1/4x1	1.50	11.00	37.00	6.04	1.64
1/4x1.1/4	1.82	13.78	48.08	7.61	2.24
1/4x1.1/2	2.12	16.06	57.72	8.95	2.42
1/4x1.3/4	2.49	20.32	67.34	11.23	3.20
1/4x2	2.73	20.68	76.98	11.39	3.49
1/4x2.1/2	3.51	26.08	96.20	14.32	4.72
1/4x2.3/4		9.14			

	0.00				ĺ
1/4x3	4.07	33.22	115.46	18.26	6.08
1/4x3.1/2	4.84	39.16	134.70	21.26	6.66
1/4x4	5.45	44.70	153.96	24.57	8.20
1/4x6	7.50	61.52	230.94	33.84	11.26
5/16x1/2	1.47	23.80			
5/16x5/8	1.80	29.72			
5/16x3/4	1.87	12.18	35.68	2.37	2.59
5/16x1	1.98	15.58	47.58	8.56	2.78
5/16x1.1/4	2.13	25.26	59.46	13.88	4.63
5/16x1.1/2	2.66	29.78	71.36	16.37	5.46
5/16x1.3/4	2.93	34.84	83.24	19.15	6.38
5/16x2	2.97	40.66	95.16	22.35	7.46
5/16x2.1/2	3.67	49.12	118.94	27.01	9.00
5/16x3	3.99	57.40	142.74	31.55	10.53
3/8x1/2	1.25	6.84	20.92	3.75	1.61
3/8x5/8	1.65	11.04	36.30	6.06	2.07
3/8x3/4	2.08	12.78	31.92	7.02	2.37
3/8x1	2.12	15.36	36.70	8.45	2.83

SIZE	STEEL	BRASS	BRONZE	STAINLESS	
					ALUMINIUM
3/8x 1.1/4	3.81	21.78	45.86	11.97	3.95
3/8X1.1/2	4.26	75.06	150.12	12.91	4.32
3/8X1.3/4	5.21	87.56	175.12	22.35	7.47
3/8X2	6.29	100.08	200.16	25.86	8.62
3/8X2.1/4	9.80	112.56	225.12	28.79	9.59
3/8X2.1/2	11.16	91.74	235.00	32.44	10.81
3/8X3	12.05	69.10	250.12	37.99	12.13
3/8X4	12.99	71.26	300.80	39.19	16.98
3/8X5	14.55	78.64	350.20	43.24	19.70
3/8X6	17.16				
1/2X5/8	2.16	17.72	41.26	9.41	
1/2X3/4	2.82	18.12	47.32	9.96	2.90
1/2X1	3.99	18.92	55.02	10.40	2.98
1/2X1.1/4	4.82	22.36	71.08	12.29	4.77
1/2x1.1/2	5.45	26.42	115.44	15.88	4.86
1/2x1.3/4	6.36	55.18	135.68	30.33	4.90
1/2x2	7.44	62.04	154.20	34.00	6.81
1/2x2.1/2	9.39	77.54	192.98	42.63	7.41
1/2x3	14.06	93.06	231.78	51.16	9.86
1/2x4	15.52	124.08	309.30	68.23	12.31
1/2x5	17.72	155.10	386.60	85.29	15.64
1/206	10 00	196 19	163 06	102 36	17 04

1/4XU	10.70	100.14	403.70	102.00	1/.V4
5/8x3/4	4.79	29.62	86.82	16.28	5.43
5/8x1	5.40	35.64	96.02	19.59	6.39
5/8x1.1/4	8.13	50.52	121.18	27.78	9.27
5/8x1.1/2	9.36	59.54	145.38	32.74	10.92
5/8x1.3/4	10.34	69.70	169.66	38.32	12.78
5/8x2	10.58	81.32	193.00	44.72	14.91
5/8x3	14.55	86.20	86.18	15.81	15.81
5/8x4	16.94	178.88	178.86	29.81	29.81
3/4x1	5.43	27.02	115.44	14.85	7.59
3/4x 1.1/4	6.72	35.78	139.38	19.67	8.77
3/4x1.1/2	8.18	48.08	174.48	26.43	13.10
3/4x1.3/4	9.44	56.08	56.06		15.46
3/4x2	10.71	64.08	64.06	60.37	17.45
3/4x3	15.52	96.12	96.12		26.17
1x1.1/4	10.35	80.20	80.18	87.47	14.69
1x1.1/2	10.89	96.26	96.24		17.63
1x1.3/4	13.25	112.28	112.26		20.57
1x2	13.43	128.12	128.10		23.51
1x2.1/2	14.88	160.16	160.14		29.39
1.1/2x2	17.61				

Larger sizes and blanks are available

Kasenit case hardening compound £13.00/500g

SILVER STEEL 13" Lengths

Square ground flat stock

Imperial 13"

Metric 330mm SQ/18"

Round/in	£	Round/mm	£	Round/mm	£	In	£
1/16	1.41	2.0	0.81	23.0	30.24	1/8	17.99
3/32	1.19	2.5	1.16	24.0	31.55	3/16	19.32
1/8	1.52	3.0	1.38	25.0	33.36	1/4	22.65
3/16	2.40	3.5	1.65	26.0	41.19	3/8	35.91
7/32	3.89	4.0	1.80	27.0	44.42	1/2	48.48
1/4	3.63	4.5	2.60	28.0	47.70	5/8	50.12
9/32	5.46	5.0	2.37	29.0	51.35	3/4	62.68
5/16	5.50	5.5	3.32	30.0	44.72	1	96.80
11/32	7.85	6.0	3.36	31.0	60.50	1.1/4	133.87
3/8	7.14	6.5	3.99	32.0	62.52	1.1/2	163.30
13/32	8.78	7.0	4.02	33.0	66.44	2	252.81
7/16	8.61	7.5	5.30	34.0	70.58	Metric	
15/32	11.67	8.0	4.47	35.0	74.48	4.0	29.90
- 12	^ ^=	I ^-	- ^ -	2 - 2		- ^	20.20

1/2	9.87	8.5	5.96	36.0	79.06	5.0	29.20
17/32	13.73	9.0	5.79	37.0	82.76	6.0	25.23
9/16	12.50	9.5	7.58	38.0	89.63	8.0	30.06
19/32	17.14	10.0	7.11	39.0	92.42	10.0	37.17
5/8	14.00	10.5	9.69	40.0	97.71	12.0	49.20
21/32	19.04	11.0	8.87	45.0	122.76	20.0	66.80
11/16	17.37	11.5	11.57	50.0	152.29	25.0	89.87
23/32	22.76	12.0	10.25			30.0	115.94
3/4		12.5		CAST		50.0	
	20.16		13.73	IRON			246.70
13/16	26.66	13.0	10.83	GRADE 17		FLATS	£/ 6"
7/8	26.16	14.0	12.59	DIA/MM	£	2X1/16	9.44
15/16	32.22	15.0	14.42	25.0	11.75	2X3/32	11.00
1	31.67	16.0	14.33	35.0	19.85	2X1/8	16.44
1.1/8	41.18	17.0	16.62	45.0	29.01	2X5/32	18.60
1.1/4	50.79	18.0	18.63	55.0	35.53	2X3/16	20.80
1.3/8	61.47	19.0	20.75	65.0	44.19	2X1/4	18.48
1.1/2	73.02	20.0	21.63	75.0	74.25	2X5/16	20.88
1.3/4	99.60	21.0	25.28			2X3/8	23.88
2	129.98	22.00	26.58				

Ground flat stock available in 18" (usual) and some in 36" lengths Harden at 790c for 30 minutes /in section, quench in oil for HRC 63/64 and temper for 1 hour at

150c 65HRC 200c 61HRC 250c 59HRC 300c 56HRC

HARD CHROMED BAR Round

10mm £7.32 12mm £9.46 16mm £14.08

BRIGHT STEEL ANGLE	£	BRASS ANGL	E €
16mm x 16mm x 3mm	2.04	1/4 x 1/4 x 1/16	2.44
20mm x 20mm x 3mm	2.09	3/8 x 3/8 x 1/16	2.92
25mm x 25mm x 3mm	2.54	1/2 x 1/2 x 1/16	4.86
25mm x 25mm x 5mm	4.36	1/2 x 1/2 x 1/8	6.16
32mm x 32mm x 4mm	3.94	3/4 x 3/4 x 1/10	6 5.60
32mm x 32mm x 5mm	3.99	3/4 x 3/4 x 1/8	3 11.64
40mm x 40mm x 6mm	5.32	1" x 1" x 1/16	5.86
50mm x 50mm x 6mm	6.78	1" x 1" x 1/8	11.90

ALUMINIUM ANGLI	E	BRASS CHANNEL	
3/8 x 3/8 x 1/16	1.57	1/2 x 1/2 x 1/16	8.70
1/2 x 1/2 x 1/16	1.76	3/4 x 3/4 x 1/8	17.92
5/8 x 5/8 x 1/16	1.82	1" x 1" x 1/8	22.04
3/4 x 3/4 x 1/16	1.93		
3/4 x 3/4 x 1/8	1.98	ALUMINIUM CHANNEI	_
1" x 1" x 1/16	2.04	Base and Side	
1" x 1" x 1/8	2.37	1/4 x 3/8 x 1/16	2.45
1" x 1" x 3/16	3.63	$3/8 \times 1/4 \times 1/16$	2.20
1.1/4 x 1.1/4 x 1/8	2.89	$3/8 \times 3/8 \times 1/16$	2.21
1.1/2 x 1.1/2 x 1/8	3.50	$1/2 \times 1/2 \times 1/16$	2.31
1.3/4 x 1.3/4 x 1/8	4.11	$5/8 \times 5/8 \times 1/16$	2.42
2" x 2" x 1/8	4.68		
2" x 2" x 3/16	6.79	h section	2.37
2" x 2" x 1/4	8.25	673 Section	2.75

STEEL CHAIN

Thicknes	ss links	/in £	Length of link	Thicknes s	£
0.092"	3 T	3.55	5/16"	17g	2.64
0.022"	15	1.58	3/8"	16g	3.55
0.028"	12	1.69			
0.032"	9	1.60			
0.032"	8	1.90			

 ${\bf STAINLESS~STEEL~SPONGE}\\ {\bf Very~hard~wearing~all~purpose~cleaning~pad~with~many~uses~around~the~home~and~workshop~£1.50~each.}$

TUBES Pri					
SIZE	STEEL	BRASS	COPPER	STAINLESS	ALUMINIUM
3/32 x 28g			1.00		
1/8 x 20g		3.08	3.68	8.20	
3/16 x 20g	1.91	2.44	2.18	7.76	2.38
1/4 x 20g	1.65	2.32	3.04	6.11	1.85
5/16 x 20g	1.34	2.94	3.10	6.96	1.64
3/8 x 16g	1.64	4.40	4.86	6.30	1.16
1/2 x 16g	2.00	7.36	6.42	5.52	1.99
5/8 x 16g	2.32	7.92	7.38	7.38	2.00
3/4 x 10g	6.49	22.10	22.00	16.28	2.56

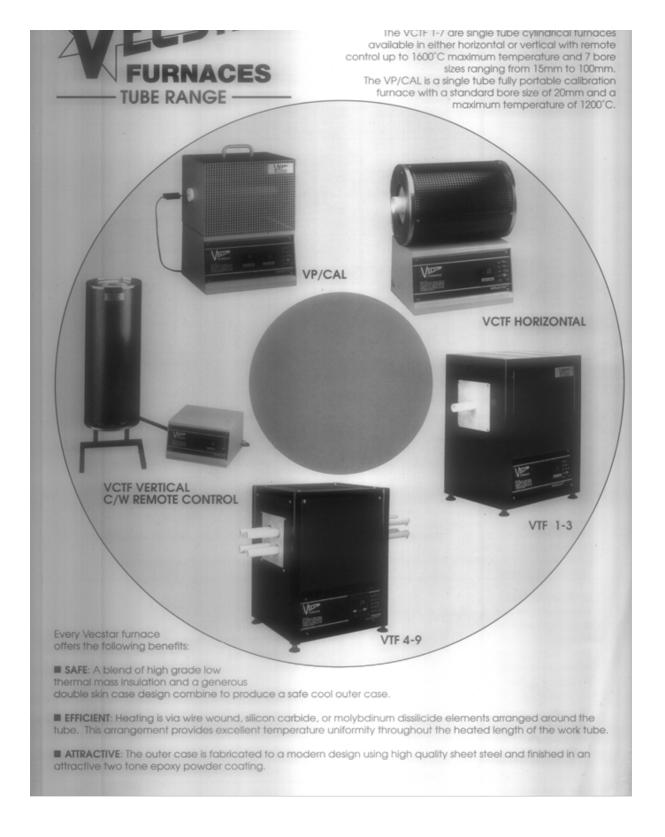
	~				
3/4 x 16g	2.18	16.16	16.50	6.66	2.34
7/8 x 16g	2.06	12.94	16.00	8.02	4.04
1 x 10g	4.91	23.28	29.28	16.87	8.66
1" x 16g	2.88	12.38	12.32	8.25	2.92
1.1/4 x		24.20	23.10		
16g	4.63			23.66	6.50
1.1/2 x		26.40	25.30		
16g	8.80			20.93	7.89
2" x 16g	18.39	28.34	27.50	18.15	12.87
3" x 20g	21.18	22.00	20.80	16.93	0.00
3" x 16g	27.08	51.98	42.90	27.23	16.13
3" x 10g	41.57	107.46	74.80	47.03	31.56

SHEET 300mm x 300mm (larger sizes available)

SIZE	mm	in	STEEL	BRASS	Engraving brass	COPPER	STAINLESS	ALUMINIUM
3/16	4.76			92.86	128.50			
10g	3.18	0.128"	6.77	62.04	84.44	58.76	45.23	8.87
12g	2.50	0.104"	6.05	50.50				
14g	2.00	0.080"	5.40	40.42		42.68	30.06	5.92
16g	1.60	0.063"	3.98	36.30		38.12	23.46	5.10
18g	1.20	0.048"	3.42	23.50		29.36	17.60	3.23
20g	0.90	0.036"	3.10	19.32		22.98	11.00	2.93
22g	0.80	0.028"	2.93	14.70		14.36	9.90	2.59
24g	0.60	0.022"	2.87	12.72		12.68	8.91	2.22
26g	0.55	0.018"		10.00		13.22		
28g	0.40	0.015"		20.00		13.68		
30g	0.30	0.012"		8.36		13.20		
	•		I				_	

	_	_	_	_	_	ST	UDDING
BA	STEEL	BRASS	STAINLESS	BSW/BSF	STEEL	BRASS	STAINLESS
10BA	25.77	32.94		3/16	1.57	6.60	13.60
8BA	13.66	14.22		1/4	1.96	6.68	8.18
6BA	5.62	12.40		5/16	2.40	8.46	12.22
4BA	1.57	6.40	8.62	3/8	2.90	11.44	19.04
2BA	1.74	5.76	7.14	7/16	3.69	18.10	
0BA	2.18	7.70		1/2	5.45	20.80	27.14





HEXAGON STEEL B.A. BOLTS £/10

SIZE	LENGTH OF BOLT	SPRING WASHERS
	1/4 3/8 1/2 3/4 1	
12BA	1.00 1.17	0.60
10BA	1.20 1.55 1.64 2.11	0.60

					l	
8BA	1.17 1.38	1.64		2.11		0.60
7BA	1.36	1.54	2.54			0.60
6BA	1.17 1.35	1.64	3.54	4.50		0.60
5BA		1.75	1.99			0.60
4BA		1.65	2.10	2.50		0.65
2BA		1.88		4.65		0.70
0BA		2.22		4.75		0.80

BRASS AND STEEL MACHINE SCREWS COUNTERSUNK, CHEESEHEAD, ROUNDHEAD, NUTS AND WASHERS

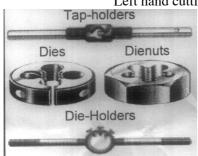
SIZE	LE	NGTH	OF SCR	EW	NU	TS	WASHERS
					STEEL	BRASS	
	1/4	3/8	1/2 3/4	1			
14BA	6.50 I	BRASS	8			2.40	1.20
12BA	1.17	1.45	1.67		0.70	1.20	0.70
10BA	1.17	1.44	1.67 1.99	9 2.11	0.60	1.00	0.60
8BA	1.17	1.35	1.67	2.11	0.60	1.00	0.60
7BA			3.20		0.60	1.00	0.60
6BA	0.40	0.45	0.50 1.01	1 1.16	0.60	1.00	0.60
5BA		2.00	2.25 2.50)	0.65	1.00	0.65
4BA	0.62	0.75	0.80 1.22	2 1.27	0.70	1.00	0.70
2BA	1.29	1.35	0.74 0.80	6 0.99	0.80	1.10	0.80
0BA			2.55	3.65	1.40	1.60	1.40
					l		

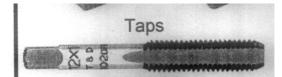
Taps and Dies (Right Hand Cutting)

BA	Tap	Die	METRIC	Tap	Die	ME	Tap	Die
0	3.29	6.58	0.8-1.9	Poa	Poa	1/8x40	3.29	6.58

					_			
1		0.50	2.0x0.4			5/32x32		6.58
2	3.29	6.58	2.5x0.45	4.94	8.22			6.58
3	3.29	6.58	3.0x0.5	3.29	6.58	3/16x32		6.58
4	3.29	6.58	3.5x0.6	3.29	6.58	3/16x40		6.58
5	3.29	6.58	4.0x0.7		6.58	7/32x32		6.58
6	3.29	6.58	5.0×0.8		6.58	7/32x40		6.58
7	4.95	9.51	6.0x1.0	3.29	6.58	1/4x32		6.58
8		9.51	7.0x1.0	4.94	8.23			6.58
9		13.16		4.94		9/32x32		11.51
10		13.16		4.94				11.51
11-16			10.0x1.0					11.51
12 BSB/BSCY		16.45		9.05	16.45			11.51
BSB/BSC I			10.0x1.5	4.94	8.22	3/8x32	6.58	11.51
1/4x26			1110.111		11.51			11.51
5/16x26		11.52		8.22				13.16
3/8x26			12.0x1.25		16.45			13.16
7/16x26			12.0x1.5					13.16
1/2x26		14.15		5.76			8.23	13.16
9/16x26	9.87	18.09	14.0x1.0	11.52	21.38	BSP		
5/8x26	11.52	18.09	14.0x1.25	11.52	21.38	1/8x28	4.94	9.21
3/4x26	15.79	21.38	14.0x1.5	11.52	16.45	1/4x19	6.58	13.16
BSW/BSF			14.0X2.0	8.22	16.45	3/8X19	8.22	16.45
1/16X60	9.87	14 80	16.0X1.5	13 16	21 38	1/2X14	9.54	22.37
3/32X48		11.51		9.05				22.37
1/8X40		6.58				3/4X14		27.96
5/32X32		6.58				UNC/UNF	10.45	21.50
							D	D
3/16x24/32						No0-3 No4x40/48		Poa
1/4x20/26								
3/8x16/20						No6x32/40 No8x32/36		6.58 6.58
$\frac{3}{8}$ $\frac{3}{8}$ $\frac{10}{20}$ $\frac{20}{16}$ $\frac{3}{8}$ $\frac{10}{20}$ $\frac{10}{20}$								6.58
			Dienuts			No10x24/32 No12x24/28		6.59
			1/8x40		руг	$1/4 \times 20 / 28$		6.58
			3/16x24/32			5/16x18/24		8.22
			1/4x20/26			3/8x16/24		8.22
Dienuts	Metric		5/16x18/22	11.07		7/16x14/20	6.58	9.87
3.0x0.5	13.32		3/8x16/20	12.71		1/2x13/20	6.58	9.87
4.0x0.7	13.32		7/16x14/18	17.48		9/16x12/18	9.87	16.45
5.0x0.8	11.85		1/2x12/16	15.39		5/8x11/18	9.87	16.45
6.0x1.0	8.13		9/16x12/16	18.96		3/4x10/16	11.51	16.45
8.0x1.25	11.06		5/8x11/14	18.96		7/8x9/11	13.16	23.03
10.0x1.5	11.06		3/4x10/12	23.29		1x9/12	14.80	23.03
12.0x1.75			Tapwrenches			Diestocks		
14.0x2.0			•			13/16	2-6mm	9 87
16.0x2.0						1"	7-12mm	
18.0x2.5	20.25		1/4-3/4		26.32	1.5/16	12-16mm	14.80

Left hand cutting and HSS 2 x right hand price Tap-holders





Taps and Dies in Boxed Sets

(Contents 1 taper+1Bottom +1Die+tapwrench and Diestock

		(Contents 1 taper+1Bottom +1Die+tapwrench and Diestock	
Set	Pieces	Contents	£
BSW1	24	1/8,3/16,1/4,5/16,3/8,7/16,1/2	105.84
BSW2	30	1/16,3/32,1/8,3/16,1/4,5/16,3/8,7/16,1/2	138.06
BSF1	21	3/16,1/4,5/16,3/8,7/16,1/2	105.84
UNC1	17	1/4,5/16,3/8,7/16,1/2	105.84
UNC2	33	No4,6.8.10,12,1/4,5/16,3/8,7/16,1/2	138.06
UNF1	17	1/4,5/16,3/8,7/16,1/2	105.84
UNF2	33	No4,6,8,10,12,1/4,5/16,3/8,7/16,1/2	138.06
BSCycle1	17	1/4,5/16,3/8,7/16,1/2	105.84
BSCycle2	23	1/4,5/16,3/8,7/16,1/2,6/16,5/8	147.26
BA1	23	2,4,5,6,7,8,10	73.63
BA2	30	2,4,5,6,7,8,10 (inc second taps)	87.43
BA3	35	0.1.2.3,4,5,6,7,8,,9,10	105.84
BA4	38	0,1,2.3,4,5,6,7,8,9,10,12	126.56
MMC1	23	2,2.5,3,3.5,4,5,6	85.14
MMC2	24	3,4,5,6,8,10,12	108.15
MMC3	33	2,2.5,3,3.5,4,,5,6,8,10,12	128.86
MMC4	36	2,3,4,5,6,7,8,9,10,11,12	135.76
MMF1	33	2.5x0.45,3.5x0.6,3.5x0.75,	167.97
		5x0.5,6x0.75,7.0x1.0,8.0x1.010.0x1.0,11.0x1.5,12.0x1.25	
ME1	21	1/8x40,5/32x40,3/16x40,7/32x40,1/4x40,5/16x32,3/8x32	87.44
ME2	21	1/8x40,5/32x32,3/16x32,7/32x32,1/4x32,5/16x32,3/8x40	87.44
ME3	30	1/8x40,5/32x40,3/16x40,7/32x40,1/4x40,9/32x32,5/16x32, 3/8x32,7/16x32,1/2x32	128.86
ME4	27	5/32x32,3/16x32,7/32x32,1/4x32,9/32x32,5/16x32,3/8x32,7/16x32,1/2x32	128.86
ME5	30	1/8x40,5/32x40,3/16x40.7/32x40,1/4x40,9/32x40,5/16x40, 3/8x40,7/16x40,1/2x40	128.86





TWIST DRILL SETS HSS

D1	No.1 - No.60	60pc	£44.06
D2	No.61 - No.80	20pc	12.33
D3	1/16 - 1/4 by 1/64 's	13pc	18.5
D4	1/16 - 1/2 by 1/32's	15pc	27.31
D5	1/16 - 1/2 by 1/64 's	29рс	42.30
D6	1.0mm - 10.0mm by 0.5mm	19pc	24.67
D7	1.0mm - 5.9mm by 0.1mm	50pc	33.48
D8	6.0mm - 10.0mm by 0.1mm	41pc	66.09

H S S GROUND TOOLBITS Square and round

Size	Length /	in		
2	2.1/2	3	4	6
3/16 £2.	12 2.65	3.84		
1/4 2.9	3.69	4.35	5.76	
5/16	4.89	5.76	7.80	
3/8		6.35	7.93	12.50

CENTRE DRILLS

Size Shank Dia Each Shank Dia Point Dia Each

	/ in		/ mm		
BS1	(1/8)	£2.81	3.15	1.0	£3.18
	(3/16)			1.6	3.18

BS3	(1/4)	4.13	5.00	2.0	3.31
			6.30		
BS5	(7/16)	7.43	8.00	3.15	5.11
BS6	(5/8)	20.13	10.00	4.00	6.89
BS7	(3/4)	29.15	12.50	5.00	10.73
		-			

Dia/in S	Stub Drill	s Reamers	End Mills	Slot Drills	Morse Taper drills	
1/16	1.18	24.12	9.41	9.41	1MT	
5/64	1.00	20.4		9.41	(1/8)	£9.45
3/32	1.00	16.22	9.41	10.07	(3/16)	9.60
7/64	1.00	16.96		10.6	(1/4)	9.50
1/8	1.05	12.46	7.28	8.61	(3/8)	12.40
9/64	1.16	12.18		7.55	(1/2)	17.75
5/32	1.26	12.98	7.28	7.42	2MT	
11/64	1.44	13.25		7.42	(5/8)	24.00
3/16	1.64	13.51	7.28	7.81	(3/4)	31.50
13/64	1.83	13.78		8.08	(7/8)	42.25
7/32	2.03	14.31	7.28	8.08	3MT	
1/4	2.49	15.1	7.28	9.13	1	55.5
17/64	2.84	15.38		11.8	1.1/8	70.75
9/32	3.02	15.63	9.01	11.8	1.1/4	88.75
5/16	3.63	16.7	9.54	11.92	4MT	
21.64	3.85	17.22		12.32	1.3/8	110.25
11/32	4.25	19.88	9.68	12.46	1.1/2	130.00
23/64	4.47	20.67		12.85	1.5/8	188.25
3/8	4.83	20.67	9.68	12.07	1.3/4	192.50
13/32	6.04	21.72	10.88	13.11	1.7/8	220.50
27/64	6.55	25.17		15.37	2	300.00
7/16	7.34	23.32	11.53	13.51	5MT	
29/64	8.13	25.43		15.37	2.1/8	320.00
15/32	8.80	23.58	12.06	13.25	2.1/4	375.00
1/2	10.6	23.32	12.32	13.11	2.3/8	415.00
Metric					2.1/2	460.00
1.5	1.18	24.11		9.47	2.5/8	545.00
2.0	0.98	20.40		9.47	2.3/4	612.00
2.5	0.99	18.28	9.81	9.47	2.7/8	685.00
3.0	1.01	16.16	7.28	8.48		
3.5	1.14	12.43	7.15	7.55		
4.0	1.28	12.99	7.15	7.28		
4.5	1.51	13.25	7.15	7.55		
5.0	1.78	13.51	7.28	7.55		
5.5	2.01	14.31	7.28	7.81		

6.0	2.28	14.83	7.15	9.01
6.5	2.63	15.1	9.14	11.92
7.0	2.89	15.38	9.41	11.92
7.5	3.39	15.64	9.68	12.06
8.0	3.64	16.7	9.81	12.06
8.5	4.00	17.23	9.81	12.46
9.0	4.38	19.88	9.81	12.58
9.5	4.83	20.68	10.07	12.58
10.0	5.40	20.68	9.81	12.32
10.5	6.31	21.68	11.00	13.11
11.0	7.00	22.00	11.26	13.25
11.5	7.76	23.32	11.8	13.11
12.0	8.85	23.58	12.46	12.46
13.0	11.31	24.11	12.85	13.78

Other sizes please ask

CUTTERS.

HSS STRAIGHT SHANK JOBBER DRILLS BLACKSMITHS

IMPERIAL SIZES		WII	RE GA	AUG	E SIZE	1/2" SHANK	
Dia	Each	Dia	Each	Dia	Each	Dia	Each
(1/64)	1.96	1	2.03	41	1.26	17/32	19.00
(1/32)	1.40	2	2.42	42	1.26	(9/16)	20.62
(3/64)	1.06	3	2.30	43	1.26	19/32	22.25
(1/16)	0.90	4	2.22	44	1.26	(5/8)	24.12
(5/64)	0.83	5	2.16	45	1.26	21/32	26.00
(3/32)	0.80	6	2.16	46	1.26	(11/16)	28.12
(7/64)	0.83	7	2.11	47	1.28	23/32	29.37
(1/8)	0.84	8	2.09	48	1.28	(3/4)	31.88
(9/64)	0.85	9	2.04	49	1.29	25/32	34.24
(5/32)	0.99	10	2.00	50	1.31	13/16	35.00
(11/64)	1.11	11	1.98	51	1.35	27/32	35.84
(3/16)	1.24	12	1.95	52	1.38	(7/8)	36.25
13/64	1.39	13	1.90	53	1.43	29/32	36.87
(7/32)	1.51	14	1.85	54	1.50	15/16	37.5
15/64	1.69	15	1.83	55	1.55	31/32	38.75

(1/4)	1.89	16	1.80	56	1.68	1	40.00
17/64	2.09	17	1.74	57	1.76		
(9/32)	2.33	18	1.71	58	1.80		
19/64	2.59	19	1.63	59	1.83		
(5/16)	2.85	20	1.63	60	1.86		
21/64	3.13	21	1.61	61	1.90	DRILL I	BLANKS
(11/32)	3.43	22	1.58	62	1.93		
23/64	3.79	23	1.55	63	1.96	Dia	Each
(3/8)	4.16	24	1.54	64	2		
25/64	4.53	25	1.53	65	2.04	(1/16)	1.19
13/32	4.96	26	1.5	66	2.12	(3/32)	1.11
27/64	5.42	27	1.46	67	2.16	(1/8)	1.19
(7/16)	5.86	28	1.45	68	2.21	(5/32)	1.37
29/64	6.54	29	1.43	69	2.3	(3/16)	1.67
15/32	6.92	30	1.36	70	2.35	(7/32)	2.08
31/64	7.66	31	1.31	71	2.43	(1/4)	2.61
(1/2)	8.11	32	1.3	72	2.49		
		33	1.28	73	2.54		
		34	1.28	74	2.63		
		35	1.28	75	2.69		
		36	1.26	76	2.74		
		37	1.26	77	2.86		
		38	1.24	78	3.01		
		39	1.24	79	3.13		
		40	1.24	80	3.28		
		I					

Other sizes are available. Please ask

Hss straight shank jobber Drills metric

Size £/each	Size £/each	Size £/each	Size	£/each	Size	£/each
0.30 2.35	1.80 0.85	4.00 1.03	7.90	2.80	11.75	12.55
0.32 3.37	1.85 1.28	4.10 1.05	8.00	2.89	11.80	10.36
0.35 2.10	1.90 0.80	4.20 1.08	8.10	3.03	11.90	12.88
0.38 3.02	1.95 1.25	4.25 1.66	8.20	3.01	12.00	7.05
0.40 1.96	2.00 0.83	4.30 1.11	8.30	3.18	12.10	11.04
0.42 2.89	2.05 1.22	4.40 1.14	8.40	3.23	12.20	11.30
0.45 1.88	2.10 0.81	4.50 1.16	8.50	3.23	12.25	11.37
0.48 2.75	2.15 1.22	4.60 1.20	8.60	3.41	12.30	11.46
0 50 1 76	2 20 0 01	4 70 1 24	Q 7A	2 40	12 40	11 71

U.3U 1./U	4.4U U.01	4./U 1. 4 4	0./U 3.47	14.40 11./1
0.52 2.68	2.25 0.81	4.75 1.86	8.75 5.31	12.50 7.76
0.55 1.73	2.30 0.81	4.80 1.28	3.58	12.60 12.22
0.58 2.55	2.35 0.89	4.90 1.30	8.80 3.66	12.70 12.39
0.60 1.68	2.40 0.81	5.00 1.32	9.00 3.69	12.75 12.55
0.62 2.46	2.45 1.22	5.10 1.88	9.10 3.84	12.80 12.74
0.65 1.61	2.50 0.81	5.20 1.41	9.20 3.93	12.90 12.88
0.68 2.35	2.55 1.22	5.30 1.46	9.30 4.01	13.00 8.59
0.70 1.54	2.60 0.81	5.40 1.49	9.40 4.11	13.10 13.32
0.72 2.29	2.65 1.24	5.50 1.53	9.50 4.12	13.20 13.66
0.75 1.49	2.70 0.76	5.60 1.58	9.60 4.30	13.25 13.83
0.78 2.17	2.75 1.24	5.70 1.61	9.70 4.41	13.30 13.99
0.80 1.43	2.80 0.81	5.75 2.46	9.75 6.70	13.40 14.61
0.82 2.11	2.85 0.81	5.80 1.66	9.80 4.51	13.50 14.49
0.85 1.36	2.90 0.84	5.90 1.71	9.90 4.61	13.60 14.68
0.88 2.01	2.95 1.28	6.00 1.69	10.00 4.61	13.70 14.99
0.90 1.32	3.00 0.84	6.10 1.86	10.10 6.93	13.80 15.36
0.92 1.94	3.05 1.28	6.20 1.84	10.20 7.41	13.90 15.51
0.95 1.28	3.10 0.87	6.30 1.90	10.25 7.49	14.00 15.86
0.98 1.86	3.15 1.30	6.40 1.94	10.30 7.40	14.25 16.70
1.00 1.20	3.20 0.89	6.50 1.95	10.40 7.76	14.50 17.36
1.05 1.80	3.25 1.34	6.60 2.86	10.50 5.29	14.75 18.21
1.10 1.14	3.30 0.89	6.70 2.11	10.60 8.10	15.00 19.06
1.15 1.69	3.35 1.61	6.75 3.21	10.70 8.28	15.50 20.73
1.20 1.06	3.40 0.89	6.80 2.11	10.75 8.36	15.75 21.68
1.25 1.55	3.45 1.34	6.90 2.24	10.80 8.43	16.00 22.61
1.30 1.01	3.50 0.89	7.00 2.25	10.90 8.59	16.50 26.82
1.35 1.51	3.55 1.34	7.10 2.35	11.00 6.99	17.00 26.92
1.40 0.99	3.60 0.84	7.20 2.40	11.10 9.06	17.50 29.36
1.45 1.44	3.65 1.34	7.25 3.66	11.20 9.10	18.00 31.72
1.50 0.94	3.70 0.96	7.30 2.40	11.25 9.20	18.50 34.56
1.55 1.39	3.75 1.48	7.40 2.49	11.30 9.35	19.00 36.56
1.60 0.90	3.80 0.99	7.50 2.56	11.40 9.61	19.50 40.81
1.65 1.34	3.85 1.48	7.60 2.68	11.50 6.38	20.00 44.00
1.70 0.89	3.90 2.26	7.70 2.73	11.60 9.98	
1.75 1.30	3.95 1.48	7.75 4.15	11.70 10.20	

High Quality White metal for casting figures etc

Pewter 92(lead free)

A very high grade alloy ,lead free and rich in tin. Manufactured to BS5140 . Suitable for all highly detailed castings where good flow properties and a polished finish is required Melting point 245 c, Operating temp 285 c, Density 7.27

KAX Alloy

Tin rich alloy widely used in the jewellery trade for fine, delicate castings where good flow properties and detail are required. Has a good shiny surface finish and is very malleable. Also particularly suitable for hand cast model figures. Melting point 185 c, Operating temperature 245 c, Density 8.99

Prepared especially for figure casters. Its flow characteristics are superior to Grade 34% but the alloy is harder. Particularly suitable for small very detailed figures. Melting point 225 c, Operating temperature 290 c, Density 9.70

Grade 34%

A very popular alloy for the manufacture of model kits (Cars ,Locos and Trams) .has a good surface finish on flat surfaces and excellent reproduction of detail . Good flow properties but not very malleable.

Melting point 225 c, Operating temperature 295 c, Density 9.55

Grade D

Suitable for figures and jewellery components which gives clear reproduction of detail and maximum malleability. This alloy is popular with manufacturers of wargame pieces and is more economical than Grade L Melting Point 248 c, Operating temperature 313 c, Density 10.06

				25Kg	
PEWTER 92					
KAX	5.52	11.03	49.64	220.60	386.05
37/3/60	5.22	10.43	46.94	208.60	365.05
GRADE 34%	4.98	9.40	42.30	188.00	329.00
GRADE D	4.46	6.93	31.18	138.60	242.55

LOW MELTING POINT SOLDER 73 C M.P.

£3.67 / 100g

(Woods Metal or Cerro bend)

LR9 FLUX £3.00/ 125ml Bottle

A low residue soldering flux for use with Lead / Tin Solders LR9 is acidic but on heating and residues are non-corrosive, eliminating any washing operation. Apply by emersion or brush. Dilute 1:1 to 1:10. LR9 is corrosive and care should be taken on handling. Use rubber gloves and goggles should be worn. A ventilated area of operation is recommended.

SILICONE RUBBER

RTV101 £53.60 /Kg

SOLDERS

Tinmans Soft Solder 60/40 Melting Range 185- 240 c Use LR9 Flux £3.98 / 250g

Easyflo 2 Cadmium bearing Silver Solder which offers best combination of melting point, Flow characteristics and mechanical properties. Use Easyflo Flux. Melting range 608 - 617 c 45%AgCuZnCd 1.5mm X 600mm long £4.29 /Stick

Silverflo 24 Cadmium free Silver Solder with similar properties to Easyflo. Melting range 740 - 800 c 24%AgCuZn 1.5mm x 600mm long £2.25 / Stick

Silverflo 16 Cadmium free Silver Solder useful in step brazing with Silver flo 24. Melting range 790 - 830 c 16% AgCuZn 1.5mm x 600mm long £2.12 / Stick

Plumbsol - Alloy of Silver/Tin used where protection from attack by soft water . Excellent fluidity and behaves like Lead Tin solders .Use LR9 flux Melting Range 221 - 225 c 3mm DIA x 600mm long ± 4.42 / Stick

Easyflo Flux.A general purpose flux for brazing Silver bearing alloys. Working range 550 - 800 c 250g Pot £17.63

OTHER SIZES AND QUALITIES AVAILABLE

PRICES	POT	Spare element	1 2	Internal Dia mm		Nom.Rating Watts	Net Weight Kg
TDD 1	620.4		_		•		
TPB1	£304	45.98	0.5	37.5	50	200	2.75
TPB6	£319	65.38	2.25	95	37.5	300	2.75
TPB62	£490	72.26	8.0	150	50	600	7.25
TPB93	£730	105.75	22.5	215	75	1200	14.0
EMP50	£555	71.38	22.5	133	133	2000	14.0
EMP100	£708	128.66	34.0	185	160	3000	21.5
ST9	£393.03	81.95	4.5	177X76	38	500	6.5

CASTING MACHINES

CM 018 18" Capacity X 4" Thick £7363.72
CM 015 15" Capacity X 4" Thick £6138.78
CM 012 12" Capacity X 4" Thick £5883.22
CM 012/2 12" Capacity X 2" Thick £4742.88
CM 009 9" Capacity X 2" Thick £4318.12
CM 006 6" Capacity X 1" Thick £1850.00

VULCANISERS

VP 10018g 100 Tonne X 18" capacity with gauge £9129.75
VP 10015g 30 Tonne X 15" Capacity with gauge £6838.50
VP 10012g 20 Tonne X 12" Capacity with gauge £3187.06
LDVP 509 15 Tonne X 9" Capacity £2755.66
LDVP 508 5 Tonne X 6" Capacity £ 1254.90

Vulcanisers are complete with mould frame and sprue former

ACCESSORIES

6MF	6" Moi	uld f	rame co	mplete	with s	prue f	orme	r £237.49
7MF	7"	"	"	"	"	"	"	£290.37
9MF	9"	"	"	"	"	"	"	£483.80
12MF	12"	"	"	"	"	"	"	£563.23
18MF	18"	"	"	"	"	"	"	£931.48

Prices quoted are for frames to produce 1" Thick moulds - Thicker moulds POA

Ingot mould makes $4 \times 1/2 \text{kg}$ £27.61

Ingot mould (Makes $4 \times 2 \text{Kg ingots}$) £ 71.40

3CU Ft Compressor £ 443.16

Large Gate former £ 15.00

Small Gate former £ 10.00

KM350 Digital Thermometer £90.63 T1000c Dial pocket dial Thermometer 100-500c £18.94

SAFETY EQUIPMENT

Dust Mask £6.60
Panoramette Chemical Goggles £15.00
Spectorama Overspec Eyeshields £7.50

ELECTRIC SOLDER & METAL POTS

All units are built to 'B-W' high quality standards to ensure sustained efficiency over a long period. Crucibles and baths are high grade castings or of heavy fabricated steel and the conservatively rated metal sheathed elements are enclosed in strong lagged steel casings. The thermostat controls are normally set to average working temperature but can be adjusted to special settings if required. Optional features include a Potentiometric Electronic Controller.

EMP 50 and EMP 100 WHITE METAL POTS are allpurpose units with heavier ratings for fast heating and can be adjusted to operate up to 500°C. Typical applications include hot tinning and soldering, small castings, babbit metalling, cable jointing, annealing in moulton lead.

For pouring operations, a tilting stand can be supplied as inset illustration to figure 4. Add T to catalogue number when this is required (e.g. EMP 50T or EMP 100T).

ST 20, and ST 40 MODELS are special shallow models for printed circuit soldering and similar applications. Temperature range to 300°C.

TB 200 TINNING BATH. This rectangular bath is sometimes more convenient than the circular crucibles and can be used as a feeder for special soldering machines.



4: Type EMP 100 Pot. Also available with a strong tilting stand (see inset).

CAT. NO.	CAPACITY Solder, Kg.	INTERNAL SIZE (mm)	NOM. RATING Watts	NET. WEIGHT Kg
EMP 50	22.5	133 diam × 133 deep	2000	14
EMP 100	34	185 diam × 160 deep	3000	21.5
ST 9	4.5	177 × 76 × 38 deep	500	6.5
ST 20	11	305 × 125 × 38 deep	1000	14.5
ST 40	36	330 × 205 × 75 deep	2000	20.75
TB 200	100	380 × 205 × 160 deep	3500	87.0

Barlow-Whitney have designed their ST solder baths to meet printed circuit production requirements and offer several useful sizes.

LARGER pots and baths are also available — see separate leaflet.



5: 'B-W' Type TB100 Tinning Bath



'B-W' ELECTRIC SOLDER & METAL POTS

750°C.

Features:

AUTOMATIC CONTROL

LONG-LIFE ELEMENTS

HEAVY CAST CRUCIBLES

ROBUST CONSTRUCTION

CLEAN AND EFFICIENT

RELIABLE AND ECONOMICAL



1: Types TPB1 and TPB6 Solder Pots

'B-W' thermostatically controlled Solder Pots are widely used in industry for many hot dip tinning and soldering operations up to 300°C. Type MP/HT1 (figure 2) is a specially designed high temperature model for stripping and tinning enamelled wire ends in silver solder. Its low voltage element is fed from a variable transformer in liquid of a thermostatic

is fed from a variable transformer in lieu of a thermostat which permits temperature adjustment between 500°C and



2: Type MP/HT1 high temperature model

CAT. No.	CAPACITY Solder, Kg.	INTERNAL Dia.	SIZE (mm) Depth	NOM.RATING Watts	NET WEIGHT Kg	
TPB1	0.5	37.5	50	200	2.75	
TPB6	2.25	95	37.5	300	2.75	
TPB62	8.0	150	50	600	7.25	
TPB93	22.5	215	75	1200	14	
MP/HT1	0.25	25	75	400	16	

*Weight of MP/HT1 includes transformer

Standard voltage 220-250 volts single phase A.C. Also supplied for 100-110 volts to special order.



3: Type TPB62 and TPB93 Solder Pots

Fine Materials

telesc	telescopic		Gauged						Gauged		
OD	Wall	£/ft	Bore	Wall	£/ft	OD	Wall	£/ft	Bore	Wall	£/ft
.062	.013	1.08	6g	.016	1.52	.062	.013	1.28	6g	.016	1.52
.094	.013	1.78	8g	.016	1.46	.094	.013	1.38	8g	.016	1.46
.125	.013	1.28	10g	.013	1.34	.125	.013	1.48	10g	.013	1.36
.156	.013	1.38	12g	.013	1.30			1.78	12g	.013	1.30
.187	.013	1.48	14g	.013		.187	.013	1.98	14g	.013	1.30
.219	.013	1.58	16g	.013	1.30	.219		2.18	16g	.013	1.30
.250	.013	1.78	18g	.013	1.30	.250		2.38	18g	.013	1.30
.281	.013	1.88	20g	.013	1.30	.281		2.58	20g	.013	1.30
			22g	.013	1.30	.312	.013	2.78	22g	.013	1.30
Coppe	er Tub	e 				.344	.013	2.78			
.062	.013	1.08	Square	e brass	tube	.375	.013	3.68	Sheet n	netal	
.094	.013	1.18	.062	.013	2.72	.416	.013	3.88	10" x 4	."	
.125	.013	1.30	.094	.013	3.06	.438	.013	4.18	.005 br	ass	3.78
.156	.013	1.38	.125	.013	3.38	.469	.013	4.58	.010	"	4.40
			.156	.013	3.58	.500	.013	7.40	.015		5.98
Rect I	Brass T	ube				.531	.013	5.92	.025		7.78
3/32x	3/16	5.50	Brass	Angle		.563	.013	6.36	.032	7.68	
1/8x1		5.70	1/8x	1/8	2.18		.013	4.64	.012 Tonpla		3.20
5/32x	5/16	6.20	5/32	5/32	2.38	.625	.013	4.86	.018 Ali		3.28
3/16x	3/8	6.60	3/16	3/16	2.58	.656	.013	5.10	.028		3.78
			7/32	7/32	2.88				.064		4.38
Spring	g wire		1/4	1/4	3.08				.025 Cı	.1	4.38
.032	0.38						Piano v	wire 3ft	Brass r	od £/ ft	
.048	0.38	Brass	s Chanı	nel		24g	0.84		0.42		
.056	0.44	1/8x1	1/8x1/8	x.012	2.58	22g	0.76		0.52		
.064	0.52	5/325	x1/8x1/	8	2.78	20g	0.76		0.58		
		3/162	x1/8x1/	8	3.08	18g	0.96		0.64		
		7/325	x1/8x1/	8	3.38	16g	1.40		0.92		
		1/4x1	1/8x1/8		3.48	14g	1.72		1.76		
Brass	Strip	<u> </u>			1	13g			1.82		
Thick			Width			12g	1.72		2.04		
	1/4	1/2	3/4	1	2	11g			1.76		
.016	1.12	1.44	1.92	2.40	4.32	10g	2.00		1.90		
.025	1.28	1.90	2.54	3.20	6.22	8g	2.44		2.54		
						6g	2.64		3.34		
	I	<u> </u>			<u> </u>	l .	<u> </u>	<u> </u>			

5/8 x 5/8 x 1 £0.93 3/4 x 3/8 x 1/16 £0.97 3 x 1 x 1/8 £4.43 1.1/4 x 3/4 x 1/8 £1.86 1.1/2x1/2 x 3/16 £1.98 2.1/2 x 2.1/2 x 1/8 £4.03 2.1/2 x 2.1/2 x ½ £8.96 3 x 3 x ¼ £6.46
BLACK STEEL ANGLE 30X30X3 £0.29 50X50X3 £1.59 100X100X8 £6.80 20X20X3 £0.31 25X25X3 £0.40 25X25X6 £0.61 40X40X3 £0.63 40X40X6 £1.29 75X75X6 £2.93 80X80X10 £4.78 80X80X6 £1.87 40X40X4 £0.32 BRIGHT STEEL ANGLE
32X32X6 £8.41 40X40X3 £3.20 40X40X5 £3.50
BRASS ANGLE 3/4X1.1/4 X1/8 £4.35
STAINLESS ANGLE 1 X 1 X ½ £7.75 1.1/4 X 1.1/4 X 1/8 £5.26
ALUMINIUM CHANNEL 1X1/2 X1/8 £0.91
BLACK STEEL CHANNEL 178X88 £11.87 20X40 £1.13 25X51 £2.19 76X38 £3.41
FREECUTTING EN1APB BRIGHT ROUNDS METRIC 14MM £0.85 8MM £0.27 10MM £0.80 12MM £1.20 15MM £1.26 2MM £0.36 20MM £1.81 32MM £3.72 4MM £0.25 ALLOY STEEL ROUNDS 63MM EN16T £9.83 30MM EN16 £10.98 82MM EN31 £870.56
1" DIA EN351 £14.76 55MM SAE8620 £16.76
EN8DM FREECUTTING ROUND 10MM £0.53 9/16" £1.28 13/16" £2.21 30MM £3.30 BRASS ROUNDS
10MM £4.34 4.1/4" £244.09 12MM £2.00 2MM £0.24 5MM £0.39 6MM £0.64 8MM £2.95
75MM CAST IRON £34.76 16G NICHROME WIRE £0.41 12G NICHROME WIRE £0.61 1.3/4 " DIA D3 £23.02 32MM BERYLIUM COPPER £191.64 8MM NYLATRON £0.89 30MM DIA PREC GROUND EN1A £10.63 1.1/2" CARP TUFNOL £50.00 NICKEL SILVER ROUNDS 1/32" £0.12 1/16 £0.38 5/8 £11.07 5/16" £11.47 SPRING STEEL ROUNDS 3MM £.054 ½" £1.56 4.06MM £0.72 4.88M £1.30 5/16" £1.50 STAINLESS ROUNDS 10mm £2.00 12mm £2.51 16mm £6.00 20mm £5.42 24mm £9.65 1" 416 £12.04 3mm £0.45 5mm £0.78 2.1/8"3161 £41.94 2.1/4 £43.44 316L 2.1/4" 416 12.04 6mm £1.45 5/16 416 £3.00 9mm £5.40

						BRIG	HT STE	EL FL	ATS					
10X 125	£8.12	10X40	£2.48	12X50	£4.13	5/8X5	£12.82	5/8X6	£13.50					
5/8X 8	£19.80	5/8X10	£23.97	5/8X 2.1/2	£5.64	16X90	£8.98	1X9	£50.69					
1X3	£9.96	1X 3.1/2	£12.95	30X45	£10.15	1.1/4X1.1 2	/ £6.04	1.1/4X3	3 £17.09					
1.1/2X ²	£21.99	1.1/2X1.3/ 4	£9.07	40X45	£18.45	40X80	£20.57	2X 2.1/2	£16.05					
2X3	£26.21	5X30	£1.45	5X50	£1.78	1/4X 5/16	£0.40	1/4X 3.1/2	£4.04					
2.1/2X ²	£31.89	2.1/2X5	£54.55	6X30	£1.51	6X50	£2.11	6X70	£3.41					
6X80	£4.01	6X90		5/16X6		5/16X8	£8.88		£13.87					
8X35	£5.45	3/8X6	£9.20		'	•	•							
							BL	ACK FI	LATS					
5X100	£1.69	5X150 £2.	49 6X25	5 £0.47	6X50 £1	0.76 10X	50 £1.11							
12X100	£4.24 2	0X100 £4.	45 3X20	£0.15	3X25 £	0.22 3X3	0 £0.30							
3X50	£0.53	5X20 £0.	60 5X25	5 £0.45	8X50 £	1.22								
							BR	ASS FL	AT					
5/32X7	/16 £5.24	4												
1 /03/2 /		/03/1 02 2	C 1 /0371	/4 00 5 7	01/4371	04.54		PPER I	FLATS					
1/8X3/4	t £1.22 1	/8X1 £2.20	5 1/8X1/	4 ±0.5 /	£1/4X1	£4.54 3/8	X1 £6./	/						
	I		1			I	GA	LICE D	LATE 01 TOOL STEEL					
1X25	£4 79	1/8X4 £8.	15 5/323	74 f8 79	1/4X4	f31 91 3/8			LATE OF TOOL STEEL					
		170214 20.	15 5/521	1 ∓ ≈ 0.7 ∕	177287	251.51	<i>57</i> 1 5/10 ≈ 1	J. <u>2</u> 1						
1, 10110					1/16X3/4 £2.19									
MISC FLATS														
		ı					MI	SC FLA	TS					
1/32X1	IRON £	£1.00					MI	SC FLA	TS					
1/32X1	IRON £	£1.00			SPRI	NG STEE			TS					
		E1.00 2.94 0.01	5"X1/4 :	£3.40 28			L H ANI) T	TS					
	60MM £				3GX3/8	£2.32 26	L H ANI 6GX3/16	D T £0.98	TS					
0.006X 26GX3, 24GX5,	60MM £ /8 £ /8 £	2.94 0.01 2.45 0.02 4.07 22G	2"X1/2 : X3/4 :	£2.50 23 £4.62 20	3GX3/8 3GX1/4 0GX1.1/	£2.32 26 £2.69 23 /4 £1.82 20	L H ANI 6GX3/16 8GX3/8 0GX5/16	D T £0.98 £7.46 £4.11	TS					
0.006X 26GX3, 24GX5, 20GX3,	60MM £ /8 £ /8 £	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G	2"X1/2 : X3/4 : X5/16 :	£2.50 23 £4.62 20 £4.11 18	3GX3/8 3GX1/4 3GX1.1/ 3GX9/1	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/	L H ANI 6GX3/16 8GX3/8 0GX5/16	£0.98 £7.46 £4.11 £3.60	TS					
0.006X 26GX3, 24GX5,	60MM £ /8 £ /8 £	2.94 0.01 2.45 0.02 4.07 22G	2"X1/2 : X3/4 : X5/16 :	£2.50 23 £4.62 20	3GX3/8 3GX1/4 3GX1.1/ 3GX9/1	£2.32 26 £2.69 23 /4 £1.82 20	L H ANI 6GX3/16 8GX3/8 0GX5/16	D T £0.98 £7.46 £4.11	TS					
0.006X 26GX3, 24GX5, 20GX3, 1/16X6	60MM £ /8 £ /8 £ /8 £	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16	2"X1/2 : X3/4 : X5/16 : X1 :	£2.50 23 £4.62 20 £4.11 18 £7.21 10	8GX3/8 8GX1/4 9GX1.1/ 8GX9/10 9X50 EN1A	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/	L H ANI 6GX3/16 8GX3/8 0GX5/16 16X1/2 8X1 HT STE	£0.98 £7.46 £4.11 £3.60 £4.57						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6	60MM £ £/8 £ £	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16	2"X1/2 : X3/4 : X5/16 : X1 :	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71	3GX3/8 3GX1/4 3GX1.1/ 3GX9/10 3X50 EN1A 13mn	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI	L H ANI 6GX3/16 8GX3/8 0GX5/16 16X1/2 8X1 HT STEI .600" £1	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX						
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0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200"	60MM £ £/8 £ £ £0.51 0 £2.20 2 £4.61 3	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 2.445" £0.7 22mm £2.2	2"X1/2 : X3/4 : X5/16 : X5/16 : X1 : 20	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67	8GX3/8 8GX1/4 9GX1.1/ 8GX9/10 9X50 EN1A 1.3mn 1.100 36mn	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI n £1.01 0 " £3.81 3 n £7.93 1	L H ANI 6GX3/16 8GX3/8 0GX5/16 16X1/2 8X1 HT STE .600" £1 0mm £4 .480" £8	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200"	60MM £ £ /8 £ £ £ £ .51 0 £ 2.20 2 £ 4.61 3	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.9	2"X1/2 : X3/4 : X5/16 : X5/16 : X5/16 : 20	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67	3GX3/8 3GX1/4 0GX1.1/3 8GX9/10 0X50 EN1A 1.100 36mm 4 6mm	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI n £1.01 0 " £3.81 3 n £7.93 1 £0.33 7	L H ANI 6GX3/16 8GX5/16 16X1/2 8X1 HT STEI .600" £1 0mm £4 .480" £8	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200"	60MM £ £ /8 £ £ £ £ .51 0 £ 2.20 2 £ 4.61 3	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 2.445" £0.7 22mm £2.2	2"X1/2 : X3/4 : X5/16 : X5/16 : X5/16 : 20	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67	3GX3/8 3GX1/4 0GX1.1/3 8GX9/10 0X50 EN1A 1.100 36mm 4 6mm	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI n £1.01 0 " £3.81 3 n £7.93 1 £0.33 7	L H ANI 6GX3/16 8GX5/16 16X1/2 8X1 HT STEI .600" £1 0mm £4 .480" £8	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26						
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0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200"	60MM £ £/8 £ £/8 £ £ £0.51 0 £2.20 2 £4.61 3 £14.67 1	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.9	2"X1/2 : X3/4 : X5/16 : X5/16 : X5/16 : 20	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67	8GX3/8 8GX1/4 9GX1.1/8 8GX9/10 9X50 EN1A 1.100 36mm 4 6mm 3.150 ALUM	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI 1 £1.01 0 1 £3.81 3 1 £7.93 1 2 £0.33 3 1 £38.98 9 MINIUM E	L H ANI 6GX3/16 8GX3/8 9GX5/16 16X1/2 8X1 HT STEI .600" £1 0mm £4 .480" £8 7mm £0 9mm £0	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26 .37						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200" 1.750 :	60MM £ £ /8 £ £ £ £ .51 0 £ 2.20 £ 4.61 3 £ 14.67 1 £ 13.57	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.8 8mm £0.4	2"X1/2 : X3/4 : X5/16	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67)" £16.54	3GX3/8 3GX1/4 0GX1.1/3 8GX9/10 0X50 EN1A 1.100 36mm 4 6mm 3.150 ALUM HALF	£2.32 26 £2.69 23 6 £7.22 1/ £5.37 1/ PB BRIGI 1 £1.01 0 1 £7.93 1 2 £0.33 1 3 £0.33 1 6 £7.93 1 7 £38.98 9 6 FOUND	L H ANI 6GX3/16 8GX3/8 9GX5/16 16X1/2 8X1 HT STEI .600" £1 .480" £8 7mm £0 9mm £0 HEXAGO ALUMI	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26 .37						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200" 1.750 : 34" £1.1	60MM £ £ /8 £ £ /8 £ £ £ £ .51 0 £ 2.20 2 £ 4.61 3 £ 14.67 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.8 8mm £0.4	2"X1/2 : X3/4 : X5/16 : X5/16 : X1 : X5/16 : X1 : X5/16 : X1 : X1 : X5/16 : X5/1	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67)" £16.54 #" £0.33	8GX3/8 8GX1/4 9GX1.1/8 8GX9/10 9X50 EN1A 1.100 36mm 4 3.150 ALUM HALF BRAS 9.920" £	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI 1 £1.01 0 10 £3.81 3 10 £7.93 1 10 £0.33 3 10 £38.98 9 MINIUM H 10 ROUND S HEXAG 27.13 0.338	L H ANI 6GX3/16 8GX3/8 9GX5/16 16X1/2 8X1 HT STEI .600" £1 .480" £8 7mm £0 9mm £0 HEXAGO ALUMI	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26 .37						
0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200" 1.750 : 34" £1.1	60MM £ £ /8 £ £ /8 £ £ £ £ .51 0 £ 2.20 2 £ 4.61 3 £ 14.67 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.8 8mm £0.4	2"X1/2 : X3/4 : X5/16 : X5/16 : X1 : X5/16 : X1 : X5/16 : X1 : X1 : X5/16 : X5/1	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51)" £6.67)" £16.54 #" £0.33	3GX3/8 3GX1/4 0GX1.1/3 8GX9/10 0X50 EN1A 1.100 36mm 4 6mm 3.150 ALUM HALF BRAS 0.920" £	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI 1 £1.01 0 1 £3.81 3 1 £7.93 1 2 £0.33 7 1 £38.98 9 MINIUM H PROUND S HEXAG (7.13 0.338	L H ANI 6GX3/16 8GX3/8 9GX5/16 16X1/2 8X1 HT STEI .600" £1 .480" £8 7mm £0 9mm £0 HEXAGO ALUMI GONS 8" £9.00	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26 .37 .75 DNS	KAGONS					
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0.006X 26GX3, 24GX5, 20GX3, 1/16X6 10mm 0.820" 1.200" 1.750 : 34" £1.1 0.445" : 4mm :	60MM £ £ 8 £ £ 10.51 0 £ 2.20 £ 4.61 3 £ 14.67 1 £ 13.57 2 £ 4.35 0.88 5 6	2.94 0.01 2.45 0.02 4.07 22G 2.06 18G 23.19 1/16 0.445" £0.7 22mm £2.2 32mm £4.7 .860" £15.8 8mm £0.4 525" £5.80 mm £1.12	2"X1/2 : X3/4 : X5/16 : X5/16 : X5/16 : X1 : X5/16 :	£2.50 23 £4.62 20 £4.11 18 £7.21 10 m £0.71 2" £3.51 0" £6.67 0" £16.54 4" £0.33	3GX3/8 3GX1/4 0GX1.1/3 3GX9/10 0X50 EN1A 1.100 36mm 4 6mm 3.150 ALUM HALF BRAS 0.920" £	£2.32 26 £2.69 23 /4 £1.82 20 6 £7.22 1/ £5.37 1/ PB BRIGI 1 £1.01 0 1 £3.81 3 1 £7.93 1 2 £0.33 3 1 £38.98 9 MINIUM H CROUND S HEXAG (7.13 0.338	L H ANI 6GX3/16 8GX3/8 9GX5/16 16X1/2 8X1 HT STEI .600" £1 .480" £8 7mm £0 9mm £0 HEXAGO ALUMI GONS 8" £9.00	£0.98 £7.46 £4.11 £3.60 £4.57 EL HEX .20 .32 .26 .37 .75 DNS	KAGONS					
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JIAIIILEOO IILAAUUIIO

0.525" £4,68 | 0.600" £5.22 | 16MM £6.03 | 1.300" £20.09 | 5MM £0.90

BRASS MESH 300MM SQ

BRASS 30MESH X 32G £16.54 40MESHX34G £17.27 80MESHX39G £15.01

STAINLESS ANGLE

25X25X3 £9.91

STEEL NUTS / 10

M 4 £0.71 M6 £0.85 M10 £0.56 1/2" BSF £5.58 M2 £0.60 M8 £0.60 1/2" BSW £2.35 1/4BSF £0.36 4BA NYLOC £1.00 1.1/4BSW £11.75 3/16BSW £0.24 1/4" BSW £0.60

PLATE 300MM SQ

ALUMINIUM 1"	£51.81	1/4"	£18.56	8MM	£25.51			
1/2"	£30.50	25MM BACK	£41.86					
2MM THICKX 4MM STAINLESS PERFERATED SHEET								

RIVETS/10

ALUMINIUM	1/8 X 1/2`	£0.35	3/32 X 1/4 CUP	£1.47	3/32 X 3/8 CSK £1.4
BRASS	3/32X 3/8 RD	£0.53	1/16 X 1/8	£0.56	
COPPER	1/16X1/2	£0.18	1/16X1/4	£0.49	
STEEL	1/8X 1/2 CSK	£0.74	1/8 X 3/8	£0.60	
STAINLESS	1/8 X1	£1.42			•

SHEET

5 THOU BRASS	£2.35	2MM POLISHED BRASS		£30	00.0	
1.2MM GALVANISED	£2.50	NICKEL SILVER	24G	£10	20G	£25
10 THOU STEEL SHIM	£11.04					

SCREWS/10

M5X20 STAINLESS CSK ALLEN	£1.50	1/4 BSF CAP HD STEEL	£1.29
2BAX 1/2 CAP	£2.23	2BAX 1/2 SOCKET	£1.74
M2X 4 CSK ST LESS	£1.92	M4 X 30 CSK ST ' LESS	£1.96
STEEL NO.8 X 1.1/4 CSK	£2.94	8BA X3/16 SOC GRUB	£8.00
M10 X 25 HEX STEEL	£1.26	M10X 75 HT BOLTS	£2.60
M4 X25 HEX	£1.76	M6X20	£2.50
M8X75 HT BOLTS	£1.54	M6X30 STAINLESS BOLTS	£2.94
1/2 X 2" BSW HT BOLTS	£3.88	M4 X30 RD HD	£1.96
M8X 50 SOC CAP	£2.24	M8X25 SOC CAP	£1.08
3/16X 1/2 SOC CAP	£1.03	M4 X 16 SOC CAP	£1.76
3/8 X 2 "T" BOLTS	£13.80		

BRIGHT STEEL SQUARES

10MM	£0.95	12MM	£1.25	30MM	£4.64	35MM	£6.03	40MM	£8.04
6MM	£0.24	8MM	£0.80						
1/2"	D2 TO	OL STI	EEL	£20.66	3/8"	HSS TO	OOL S	TEEL	£7.83

BRASS STUDDING

M12 £11.56 M6 £3.50 M8 £6.28 No.10 X32 UNF £3.47

STEEL STUDDING

M10 £2.41 7/16UNF £2.67 M12 £4.52 M8 £2.60

STAINLESS STUDDING

2BA £5.67 4BA £5.57 M6 £3.00

ALUMINIUM TUBES

1.1/2 OD X10G #				70			
5/16X16G ±							
7/16X22G £1.59	1/2X20G £2.6	8 9/16	X22G £3.41	3/4X20	BRASS TU G £2.56	BES	
1"X20G £5.66							
1.5/8X16G £5.99	1.3/4X16G £8.4	3 5/16	X22G £1.23 3	.1/2X1	6G £13.69		
3/8X18G £1.81							
41137.0 1/01/01/01/00		ر مام د	4371 074 070 00		CORED BI	RONZE	
4"X2.1/2" £198.00 COLD DRAWN			4X1.3/4 £72.29	,			
10X1MM £2.76			9/16X16G	£1.81	14X2	£1.94	
5/8X18G £1.65	7"X £ 1/4WALL	60.46	7/8X3/16W	£4.52	1.1/8ODX6G	£2.09	
30X1.5 £2.67	30X5 £	£5.91	1.1/4ODX10G	£8.21	2"ODX10G	£10.29	
500DX5 £4.43	1/4ODX 18G £	£0.96	2.1/2ODX10G	£13.49	3.1/2ODX 1/4	£212.40	
			COPPER T	гиве	I		
7/16X20G £2.21	9/16X20G £2.9	4 9/16			G £3.01		
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1/2X16G £0.54 3/4X16G £1.00 2.1/2X10G £9.90

BRASS TUBE

3/4X16G £5.40 1"X16G £23.60

STAINLESS ROUND TUBE

4" X 16G £36.72 7/16X16G £3.21 7/8X16G £6.66 5X1 316 £7.18 3/16X0.010" £4.86 1/4X0.010 £6.17 6X1 £2.36 3/8X22G £4.28 3/4X18G £3.93

UNIVERSAL BEAMS

203X102X23 £8.28 254X146X31 £13.95

COILWASHERS STEEL

8BA £0.60 10BA £0.60 2BA £0.72 6BA £0.60

WASHERS STEEL

M10 £0.60 | M6 £0.60 | 1/4 "REPAIR(2.1/2 OD)

STAINLESS WASHERS

M4 £0.60 M5 £0.60 M6 £0.60

ALUMINIUM Z

1/2X 3/4X 1/16 £1.33

LUBRICANTS

DROMUS SOLUBLE CUTTING OIL	£20.00/5L	£6.50/L
LOCTITE 601	£10.	00
TELUS32 LUBRICATING OIL	£6.00)/L
TONNA 68 HYDRAULIC OIL	£6.20)/L
ROCOL MOLYTONE GREASE	£6.00/T	UBE
LITHIUM GREASE	£5.00/T	UBE

MISCELLANEOUS

ZEUS CHART	£5.00	SOLDER PAINT	£17.50 / 500G
WHITE MET	AL FO	OR BEARINGS	£25.00/KG

WE SUPPLY NEW MACHINES AND SPARE PARTS FOR MYFORD, EMCO, HOBBYMAT, RISTON, RECORD POWER AND SEALEY.

Lathe Dogs

Made of robust and rigid construction for maximum strength and durability

Size Bent Straight

1/2in £3.93 £4.45

3/4in £4.63 £5.25

1in £5.18 £5.93

Cut Off Tool Holder

These toolholders are machined to precise tolerances and are heat treated. They are designed to support the blade over a wide area to prevent breakage c/w blade.

Size Blade Size Prices



9/16x5/15x3 1/2 5/16x1/16 £27.92

5/16x3/4x4 1/2 1/2x3/32 £29.99

Knurling Tool Holder

These knurling tool holders come complete with two medium high speed steel knurls and have self adjusting pivot heads.

	g prvot ficaus.				
Size of Holder	Knurl Dimensions				
	Dia	Face	Hole	Price	
5/15x3/4x5	5/8in	3/16in	7/32in	£27.75	
3/8x7/8x5 1/2	5/8in	3/16in	7/32in	£27.75	
1/2x1/2x4/2in	3/4in	3/8in	1/4in	£18.06	

Multi Head Knurling Tool

These knurling multi head knurling tool has a revolving head and a locknut for adjustment size of holder 5/16x3/4x3in and knurl dimensions 5/8x3/16x7/32, £42.00



Knurl

Made of high speed steel individually cut to obtain sharp perfectly formed teeth, tempered and tested. Finished in pairs to fit all standard makes of knurling tool. Available in 5/8 or 3/4 dia daimon or straight pattern with coarse, medium of fine pitch. Please specify, £5.95 per pair.



Double Ended Boring Set

Broached holes to accept standard HHS bits Black Oxide finish. Comes complete with 4 boring wallet. HHS bits not included, £20.75



Boring Bar with Holder

Double ended one piece boring bar 90' & 45' sq ends. Toolbit not included.

Dia/Bar Holder Bits Price



9.5mm 14mm 1/8in £3.25

11mm 16mm 3/16in £9.75

14mm 19mm 1/4in £12.75

Machine Die Holder

Ideal for short or medium run shaft threading. Can be used on lathes milling machines and tapping heads. Main body dia 1 1/2in + length 1in, Total Length 3in, Shank portion 1/2in dia + Length 2in. One piece construction.

MDH 411 13/16in £6.32



MDH 412 1in £6.60

MDH 413 1.1/2in £8.18

Spindle Tap Holder

This 1/4in capacity tap holder come complete with replaceable jaws and is suitable for mounting in the tailstock of your lathe etc, £41.74.

Spindle Type Die Holders

These die holders are available to suit either 13/16 or 1 in dies and are ideal for mounting in the tailstock of your lathe etc, 13/16 in £12.75, 1 in £11.25.



Slitting Saw Arbor

This is a versatile arbor offers flexibility in saving operations. The spring loaded head readily accepts saw blades with hole dia from 1/2-1in. The blades are firmly secured in position with a hex headed screw. Rust resistant black oxide finish. Shank 1/2 dia, £14.63.



Flycutter Toolholder

Counter balance to give a smoother finish. Made of hardened steel, Machines up to 6in wide, Shiny black finish. 1/2 in shank c/w flat for grubscrew. Set of three in wooden stand c/w HHS toolbits, Price £28.42.



Slotted Machine Angle Plates

These angle plates are made of high quality seasoned castings and are accurately machined

square.			
Size	Cat No	Price	ATE!
3.5x3x2.5	MAP 742	£29.95 (webbed)	
6x5x4.5	MAP 744	£44.92 (webbed)	
6x5x4.5	MAP 764	£43.42 (open)	
	•	-	

Machinists Jacks

The machinists jack is a workshops tool that has many uses. It is made of heavy cast and has an adjustable screw with a tilting swivel head which has a one inch adjustment, Price £4.50



Wiggler & Centre Finder Set

This superb kit is for accurately locating working points on a drill press lathe, miling ect. It consists of snap holder needle point attachment, ball contact attachment disc contact attachment and an offset indicator holder, prize £14.92



Endmill holders

Ideal for efficient holding of endmills etc in lathes and miling machines. Available to take 1/4,3/8 & 5/8 tools. Shank tapers 1 or 2mt available please specify.

1 mt tapped 6mm,2mt tapped 3/8 whit.

1mtx1/4 £16.50	2mtx1/4 £18.00	3mtx1/4 £21.75	
1mtx3/8 £16.50	2mtx3/8 £18.00	3mtx3/8 £21.75	
1mtx1/2 £19.50		3mtx1/2 £28.42	

Blank End Arbors

These extremely useful arbors have ground taper shanks with soft ends which are easily machined for the user's own purpose. Ideal for mounting cutters, making fly cutters etc. Available with 1,2,3 mt.

 1mt Tapped 6mm £6.45
 1mt Untapped 6mm
 £4.05

 2mt Tapped 3/8w £7.20
 2mt Untapped 3/8w
 £5.55

 3mt Tapped 3/8w £9.38
 3mt Untapped 3/8w
 £7.43

Morse Taper Sleeves

Inside Taper	Outside Taper	Price	
Mt1	Mt2	£7.42	
Mt1	Mt3	£8.93	
Mt2	Mt3	£8.93	
Mt1	Mt4	£11.93	

Lathe Centres

Included angle is 60° precision made hardened and ground to closet tolerances, available full or half centre 1mt, 2mt or 3mt.

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Prices	Full	Half					
1mt	£4.42	£6.15					
2mt	£4.96	£7.13					
3mt	£6.25	£10.12					

Economy Machine Vices

High tensile casting accurately machine and assembled.

Jaw Width	Jaw Opening	Jaw Depth	Length	Price
1 1/2in	1 1/2in	7/8in	5in	£22.50



Toolmakers Clamps

2in £5.77 2 1/2in £6.60 3in £8.25 4in £9.25



Jewellers Anvil

Anvil 2x1 1/4 chrome finish, price

£11.92.



Iron Doming Block

Heavy duty iron doming block with 6 sides providing 17 different size of dome, price



Drilling and Tapping

Drill Gauge

Made of heavy ground carbon steel. Holes sizes and decimal equivalents permanently etched. $1/16 \ 1/2 \times 1/64 \ \pounds 4.50$ No Drills $1 - 60 \ \pounds 4.50$



Archimedian Drill Stock

Spiral type drill with brass handle and steel chuck(0-1mm) spring action for ease of use. Drill turns by pushing centre piece up and down. A superb precision tool, price £9.50.



Small Milling Table

Width 3" ength 4.3/4" £61.00

T Handle Tap Wrenches

Standard type with solid jaws. Used in hand tapping. Heavy knurled cap for better grip. Ideal tool for general tapping applications.

Code	Capacity	Price Price
Mt050	1/16-5/32	£3.90
Mt051	5/32-1/5	£4.28
Mt052	1/4-1/2	£4.65

Precision type replaceable jaws

Jaws are hardened and tempered. Jaws are replaceable. Shiny ground finish. Used in hand tapping. Can also be used with drills and reamers. Available in plain and ratchet type.

Code	Capacity	Price	sea with arm
Mt 065	1/16 - 5/32	£4.65	
Mt 056	5/32 – 1/4	£5.93	
Mt 057	1/4 - 1/2	£7.48	
Mt 060	1/16 - 5/32 (rcht)	£7.45	
Mt 061	5/32 – 1/4 (rcht)	£8.25	
Mt 062	1/4 - 1/2 (rcht)	£10.43	
	-	-	

Watchmakers Eyeglasses

All our eyeglasses have GLASS lenses and are available with a choice of the following magnifications:- 1.5x, 2x, 3x, 3.5x, 4x and 4.5x, Price £2.25.



New High Precision

Toolmaker Vice

Made of hardened, precision ground, V grooved jaws for round work, Width of jaw – 2 3/8, Height – 1 3/4", Depth 15/16, Opening 2 3/16", Price £74.46.

New Pin Type Precision Vice

Made of hardened steel, Precision ground, 3" Jaw width, A superb tool, Price £97.50

Adjustable Scraper & deburring tool

This excellent tool has an adjustable blade for best suited working length. The bull nosed collect face serves as a non marking edge guide. Overall length 4 1/2, Price £7.49, blade £1.88.



Triangular Scraper

All purpose triangle scraper with wooden handle. Price £4.43.



Set of Four Pin Vices

Ideal for holding small tools, rods wires and tape etc. Collets grip firmly when screw chuck is tightened. Heavy knurling body, shiny finish, Complete Set In Plastic Wallet, Price £11.25.



Economy Pin Vice

Complete with two double ended collets covering sizes 0-3mm. Overall length is 4ins, chrome finish, Price £3.58.



Sliding Pin Vice Price £2.25 Swivel Head Pin Vice

Also has two double ended collets covering 0 - 3.2 mm. Swivel head feature makes using more comfortable. Bright nickel plate finish, Price £4.43



Adjustable Pin Vice

Includes a 3 jaw steel screw chuck and an unbreakable plastic handle. Capacity is 0-1/4 in. Ideal for small drills, Price £21.15

Pin Tongs

Chromed steel body with wingnut adj. Ideal for holding long thin objects, Price £5.93.



Pocket Gem Holder

Ideal for picking up very small components. Superb spring action grip, Price £5.25.



Hand Vice

Malleable iron jaws have serrations wing nuts adjustment. Very useful for model markes etc, Price £5.93.



Hand Clamp

Spring tube. Body is made of high grade cast iron and can be firmly tightenend by hand with the fitted screw. Ideal for holding small jobs, 1/4 in jaw widrh, Price £5.40.



Repairman's taper reamer

Ideal for removing burrs from small holes and engaging countersink holes in soft metals. Suitable for holes 1/8in to 1/2in, Price £4.43.



Lathe Chucks? Adjustment Piercing saw

This lightweight fret saw is often known as a jewellers saw and users extremely fine blades – up to 80 TPI to cut almost all common thin sheet metals. It has the ability to accommodate broken blades making a longer blade life possible, Price £13.88, Blades £11.25.



Adjustable Coping Saw

The coping saw is designed to make curved cuts in wood and plastic. Coping saw blades are very narrow with pinned ends and fine teeth set at 14 tpi. The high quality steel blade is accuratley heat treated to give the correct combination of hardness and toughness., Price £11.93, blades £5.25.



20c Hacksaw

The 20t hacksaw has a strong comfortable die-cast handle and rigid tubular bow of oval cross section which can be used to hold spare blades, Price £13.49.



Price £7.00, Spare wheel £1.50



8ingle point diamond dresser 1/2 carat Price £11.93

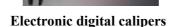


Jewellers Screwdrivers Sets £4.00



Measuring & Marking – All products fully guaranteed Dial Caliper

This beautifully engineered stainless steel caliper is provided with hardened jaws and can be used for internal, external, depth and step measurements. The adjustable dial is graduated in 0.001 divs reads 0-1in per rev over the range 0-6in. A metric version is also available 0-150mm. The moving head is fitted with a lock enabling a fixed setting to be selected and held. These calipers are shockproof, Price £29.37 please state Met of Imp).



These latest digital verniers are the ultimate in easy to read precision measuring in the workshop. The 0-6in/150mm range is accurate to within .01mm/.0005in. These verniers now have the facility for ins/mm conversion. All electronics are totally protected from shavings, filings and dusts etc. These verniers now come with auto off feature, Price £102.00.



Dial Gauage With Mounting Lug These standard type dial gauge are ideal for both testroom and workshop. Clear graduations and shockproof mechanism. Range 0-10mm graduated 0.01mm. Imperial version also available. Please specify, Price £21.75.



Dial Test Indicator

These dial test indicators are ideal foe measuring small lenghts on awkward positions, for centering work piece according to dia or bore and checking axial or radial run out machine tools. Graduated 0.01mm c/w lined wooden storage case, Price £44.92.



STD Mag Base

C/w on/off switch and a powerful magnetic base – size 2 x 1 3/4 1 15/16. Ideal for DTI's etc, Price £29.25.

Minormag Base

Compact universal magnetic stand high power magnet affords maximum rigidity. Height of base 1in. Dia base 1in, Height of rod 3 1/2in, Dia of rod 1/4in. New model with fine adjustment, Price £19.42.



Toolmakers surface gauges

Base and scriber hardened. Bottom grooved for cylindrical work, c/w fine adjustment. Base gas two restractable gauge pins to set against edge of surface plate.

Surface gauge with 4 & 7ib spindles - £19.38. Surface gauge with 9 & 12in spindles - £28.68.



Micrometer Stand

Essential for more precise and stable measurements allows for use of both hands. Quality manufacture, Price £23.68.

Engineers Squares

Made of finest steel. Hardened blade. Accuracy to workshop grade. These squares are accurate both inside and outside.

2in £ each 3in £ each



4in £ each 6in £ each

9in £ each

Precision V BlocksPrecision ground matched and numbered in pairs matched accuracy 0.0002in. Complete with two clamps. Accurate enough for use in layouts or surface plate work. All sides are ground square and are parallel to each other. Sturdy enough to be used in machining operations.

CAT No Capacity

Size

Price



CHV 01 1in 1 3/8x1 5/8x1 3/4 £38.33

CHV 02 1 1/2in 1 5/8x1 3/4x2 3/4 £44.75

CHV 03 1 1/2in 1 3/4x2 1/2x2 3/4 £56.25

Pocket Rule

Length 6in stainless steel, clear reading metric and imperial c/w pocket clip, Price £1.88.



Protractors

Made of stainless steel complete with locknut measures angles from 0-180 deg,

MP965 – Round head type £4.43

MP966 - Rectangular head type £7.58

Depth Gauges

6in Stainless steel rule with hardened and ground steel base. Spring tension nut for easy depth measurement. Graduated in ins & mm, Price £7.43.





Combined depth gauge/Protractor

Stainless steel construction graduated metric and imperial. Complete with storage wallet, Price

£15.38.

Calipers & Dividers

Hardened and tempered spring. Legs are machined to a right length balance. Adjusting washer and nut allow fast and positive adjustment. Polished finish.

Dividers	3in £2.63	4in £2.93	6in £3.30	9 9
				0
Inside Calipers	3in £2.93	4in £2.93	6in £3.30	
Outside Calipers	3in £2.93	4in £2.93	6in £3.30	
Jenny Calipers	4in £2.93	6in £3.30		

Automatic Centre Punch

The automatic centre punch gives a clear indent without hammering. Just press down and a sharp blow results. The depth of impression is variable by turning the top cap, Price \pounds ?

5 Piece centre punch set size 1/16 - 5/32, Price £7.43



These punches are made from hardened and tempered tool steel and are centrels ground. They are 4in long with a heavy knurling body with provides a better grip.

4 Pc set pp1

Set of four sizes in storage wallet 1/16, 3/32, 1/8, 5/16in, Price £6.93.

4 Pc set pp2

Set of four sizes in storage wallet 3/16, 7/32, 1/4, 5/16, Price £6.93.

8 Pc set pp3



Long Drive Pin Punch Sets

Centreless ground hardened & tempered 4 1/2in long drive pin section – 3 1/2in 5pc set in plastic wallet,



Price £16.49

Letter & Number punch sets

These puches are hand cut and hardened with a black shiny finish and come complete with storage box.

Code	Size/Type	Price	5 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
MLS 200	1/16 number	£7.86	
MLS 202	1/8 number	£9.18	
MLS 204	1/4 number	£11.81	
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A BRIEF INTRODUCTION TO VULCANISED MOULD MAKING







about 1.5 minutes, the mould box is then removed and the blank rubber discs are placed into the vulcaniser to be pre-warmed to soften them making them easier to use. One of the rubber discs is then placed into the assembled mould box and after giving a light spray with silicone the masters to be moulded are simply laid around the mould and lightly pressed into the rubber. No cutting or bedding of the figures is required unless they are a really awkward shape. Next the mould locators are laid around the outside and the sprue former placed in the middle hole as in picture 2. Now place the other half of the rubber, after lightly spraying with silicone, on top and place the top plate of the mould box on top of that, picture 3. Now simply place the assembled box into the vulcaniser, picture 4, and bring the whole unit up to 150°C. At this point the rubber becomes very soft and takes on a liquorice like quality and flows into every small detail. The hydraulic pick is purpoed up, picture 5, further pressurising the rubber into the master and the vulcanising process has begun to one the rubber into the

tuding high definition rubber moulds at a fraction of the cost of versions. Picture 1 shows all the equipment needed to produce mould i.e. vulcaniser, mould box, silicone spray, tak, sprue former,

Making a vulcanised mould is a guick, clean and ecor





its hard working condition. After 40 minutes turn the unit off and allow to cool for approximately 1 hour. Although a mould can be removed straight away masters such as white metal, pewter, milliput, some plaster and resin, can be somewhat brittle. After the mould has cooled the box is removed and the mould taken out. Gates are then out in the normal way using a scalpel, picture 6. Then after dusting with talc, a test cast can be carried out, picture 7. Good regults are quickly achieved. These moulds can be used on either our own centrifugal casting machine, Tiranti versions or even for hand pouring. Vulcanised moulds have an extremely long life and will not split or rip from deep undercuts.

This leaflet is designed only to give a brief outline as to the vulcanising process. However, all our machines complete with a comprehensive instruction sheet.









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TOOLS WITH CHARACTER!

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NOTES

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