

Material	Tensile Strength	Hardness	Reamer Diameter	Depth of Cut		Surface Speed m/min		Feed mm/rev		Coolant
	N/mm ²	Brinell	mm	HSS/TiN	Carbide	HSS/TiN	Carbide	HSS/TiN	Carbide	
Steels	– 700		– 5	– 0.10					– 0.15	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	10	10	– 0.15	0.15 – 0.25	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.15 – 0.20	0.25 – 0.40	
			20 – 30	0.30 – 0.40	0.15 – 0.20	13	15	0.20 – 0.40	0.40 – 0.60	
Steels	700 – 1000		– 5	– 0.10					– 0.10	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	7	8	– 0.10	0.10 – 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.40	
			20 – 30	0.30 – 0.40	0.15 – 0.20	10	12	0.20 – 0.30	0.40 – 0.50	
Steels	1000		– 5	– 0.10					– 0.10	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	3	6	– 0.10	0.10 – 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.15	0.20 – 0.30	
			20 – 30	0.30 – 0.40	0.15 – 0.20	5	10	0.15 – 0.20	0.30 – 0.40	
Stainless steels			– 5	– 0.10					– 0.20	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	3	8	– 0.10	– 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.30	
			20 – 30	0.30 – 0.40	0.15 – 0.20	5	15	0.20 – 0.30	0.30 – 0.50	
Cast steel	400 – 500		– 5	– 0.10					– 0.20	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	6	8	– 0.10	– 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.30	
			20 – 30	0.30 – 0.40	0.15 – 0.20	10	12	0.20 – 0.30	0.30 – 0.50	
Cast steel	500 – 700		– 5	– 0.10					– 0.20	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	5	6	– 0.10	– 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.15	0.15 – 0.25	
			20 – 30	0.30 – 0.40	0.15 – 0.20	8	10	0.15 – 0.20	0.25 – 0.35	
Cast iron		– 220 HB	– 5	– 0.10					– 0.20	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	7	8	0.20 – 0.30	0.20 – 0.30	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.30 – 0.40	0.30 – 0.40	
			20 – 30	0.30 – 0.40	0.15 – 0.20	10	12	0.40 – 0.50	0.40 – 0.60	
Cast iron		220 HB +	– 5	– 0.10					– 0.20	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	4	6	– 0.10	– 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.35	
			20 – 30	0.30 – 0.40	0.15 – 0.20	6	10	0.20 – 0.30	0.35 – 0.50	
SG cast iron			– 5	– 0.10					– 0.20	Soluble or cutting oil or dry
			5 – 10	0.10 – 0.20	– 0.10	7	8	– 0.10	– 0.20	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.30	
			20 – 30	0.30 – 0.40	0.15 – 0.20	10	12	0.20 – 0.30	0.30 – 0.50	
Copper			– 5	0.10 – 0.20					– 0.15	Soluble or cutting oil
			5 – 10	0.20 – 0.30	– 0.10	8	20	0.15 – 0.20	0.20 – 0.50	
			10 – 20	0.20 – 0.40	0.10 – 0.15	–	–	0.20 – 0.30	0.50 – 0.80	
			20 – 30	0.30 – 0.50	0.15 – 0.20	16	30	0.30 – 0.60	0.80 – 1.00	
Brass			– 5	– 0.10					– 0.15	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	10	10	0.15 – 0.25	0.20 – 0.30	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.25 – 0.30	0.30 – 0.50	
			20 – 30	0.30 – 0.40	0.15 – 0.20	20	20	0.30 – 0.40	0.50 – 0.70	
Cast bronze			– 5	– 0.10					– 0.15	Soluble or cutting oil
			5 – 10	0.10 – 0.20	– 0.10	10	12	0.20 – 0.30	0.15 – 0.30	
			10 – 20	0.20 – 0.30	0.10 – 0.15	–	–	0.30 – 0.40	0.30 – 0.40	
			20 – 30	0.30 – 0.40	0.15 – 0.20	20	25	0.40 – 0.50	0.40 – 0.60	
Aluminium alloys			– 5	0.10 – 0.20					– 0.15	Soluble oil or Paraffin
			5 – 10	0.20 – 0.30	– 0.10	15	15	– 0.10	0.15 – 0.20	
			10 – 20	0.20 – 0.40	0.10 – 0.15	–	–	0.10 – 0.20	0.20 – 0.40	
			20 – 30	0.30 – 0.50	0.15 – 0.20	30	30	0.20 – 0.30	0.40 – 0.60	
Plastics			– 5	0.10 – 0.20					– 0.20	Dry or air cooled
			5 – 10	0.20 – 0.30	– 0.10	4	10	0.20 – 0.30	0.30 – 0.50	
			10 – 20	0.20 – 0.40	0.10 – 0.15	–	–	0.30 – 0.40	0.50 – 0.80	
			20 – 30	0.30 – 0.50	0.15 – 0.20	10	30	0.40 – 0.50	0.60 – 1.00	

AcuRea = Multi-layer Chrome Nano coating

AcuRea reamers with high pressure coolant – increase surface speed by 100%

Floating Reamer Holder
(Linear bearings parallel to the axis)
(Supplied by RE-AL)



for Quality & Service

www.toolex.co.uk

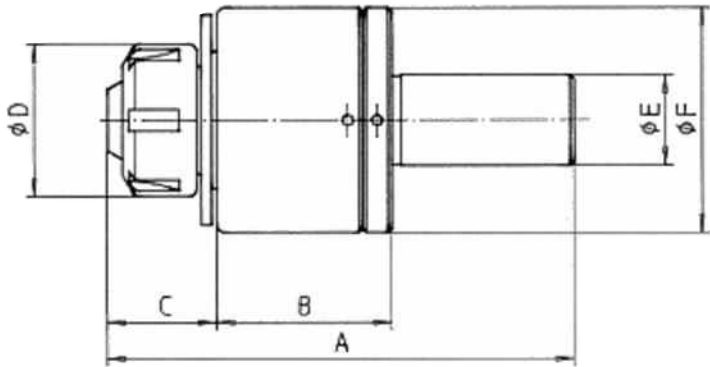
The ideal tool to increase productivity
and improve reamer life

Model	A	B	C	D	E	F	Price £
PHA-E9	90	34	16	13.5	10	19.05	594.00
MINI 9	50	34	16	13.5	-	19.05	594.00
PHA-E 12	97	32	20	19	12	31	594.00
PHA-E 12	100	32	20	19	16	31	594.00
PHA-E 12	102	32	20	19	20	31	594.00
PHA-E 16	85	35	20	35	16	50	594.00
PHA-E 16	85	35	20	35	20	50	594.00
PHA-E 16	105	35	20	35	25	50	594.00
PHA-E 20	85	35	20	35	16	50	594.00
PHA-E 20	85	35	20	35	20	50	594.00
PHA-E 20	105	35	20	35	25	50	594.00
PHA-E 20	105	35	20	35	1"	50	594.00
PHA-E 20	122	35	20	35	TS 1	50	594.00
PHA-E 20	137	35	20	35	TS 2	50	594.00
PHA-E 25	128	48	30	42	20	62	746.00
PHA-E 25	128	48	30	42	25	62	746.00
PHA-E 25	128	48	30	42	1"	62	746.00
PHA-E 25	160	48	30	42	TS 2	62	746.00
PHA-E 25	179	48	30	42	TS 3	62	746.00
PHA-E 32	143	55	38	50	20	78	983.00
PHA-E 32	173	55	38	50	40	78	983.00
PHA-E 32	173	55	38	50	1¼"	78	983.00
PHA-E 32	195	55	38	50	TS 3	78	983.00

Part number PHA-E *

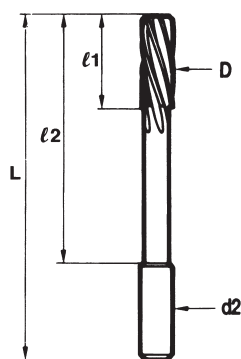
* = ER collet size

Supplied with Collet wrench and Collet nut



HSS E M35 Tolerance H4 0.01mm increments

HSS E M35 AcuRea Tolerance ± 0.0015



D	D"	L	ℓ1	ℓ2	d2	Z	HSS E Price £	AcuRea Price £
0.60 - 0.79		40	15		1.2	4	16.35	22.05
0.80 - 0.85		40	15		1.2	4	16.35	22.05
0.86 - 1.05	1/32	40	15		1.2	4	15.25	20.60
1.06 - 1.32		40	15		1.2	4	14.35	19.60
1.33 - 1.50		40	15		1.5	4	14.35	19.60
1.51 - 1.70	1/16	50	20		2	4	14.35	19.60
1.71 - 2.05	5/64	50	20		2	4	14.35	19.60
2.06 - 2.12		50	20		2	4	13.05	18.35
2.13 - 2.65	3/32	50	20		2.5	4	13.05	18.35
2.66 - 2.90	7/64	61	20		2.5	6	13.05	18.35
2.91 - 3.05		61	20		3	6	13.05	18.35
3.06 - 3.35	1/8	65	20		3	6	13.05	20.30
3.36 - 3.55		70	25		3	6	13.05	20.30
3.56 - 3.75	9/64	70	25		4	6	13.05	20.30
3.76 - 4.05	5/32	75	25	43	4	6	13.05	20.30
4.06 - 4.25		75	25	43	4	6	13.60	23.45
4.26 - 4.55		80	28	48	4.5	6	13.60	23.45
4.56 - 4.75		80	28	48	4.5	6	13.60	23.45
4.76 - 5.05	3/16	86	28	52	5	6	13.60	23.45
5.06 - 5.30		86	28	52	5	6	14.20	23.90
5.31 - 5.55	7/32	93	32	57	5.5	6	14.20	23.90
5.56 - 6.05		93	32	57	5.5	6	14.20	23.90
6.06 - 6.70	1/4	101	32	63	6	6	16.25	27.65
6.71 - 7.05		109	32	69	7	6	16.25	27.65
7.06 - 7.55	9/32	109	32	69	7	6	17.80	29.50
7.56 - 8.05	5/16	117	33	75	8	6	17.80	29.50
8.06 - 8.50		117	33	75	8	6	18.40	31.70
8.51 - 9.05		125	36	83	9	6	18.40	31.70
9.06 - 9.50		125	36	83	9	6	20.40	33.65
9.51 - 10.05	3/8	133	38	89	10	6	20.40	33.65
10.06 - 10.60		133	38	89	10	6	22.35	37.65
10.61 - 11.05	7/16	142	41	98	10	6	22.35	37.65
11.06 - 11.80		142	44	98	10	6	23.75	39.05
11.81 - 12.05		151	44	107	10	6	23.75	39.05
12.06 - 13.20	1/2	151	44	107	10	6	27.20	44.25

AcuRea = Multi-layer Chrome Nano coating

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Straight Shank Reamers
DIN 212-B (Supplied by Magafor)

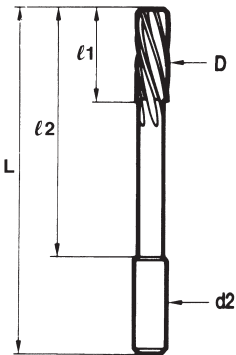
Tolerance H4 0.01mm increments
HSS E M35 (5%) Cob



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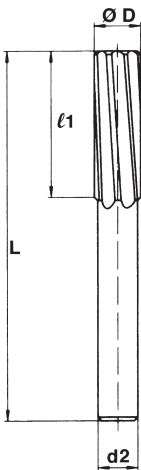
Reamers

D	L	ℓ1	ℓ2	d2	Z	Price £
0.70 - 0.79	33	7	10	D	4	23.10
0.80 - 1.05	33	12	14	D	4	20.00
1.06 - 1.44	40	15	24	D	6	19.40
1.45 - 1.79	43	18	26	D	6	18.60
1.80 - 2.36	49	19	31	D	6	16.80
2.37 - 3.75	57	20	38	D	6	15.55
3.76 - 4.25	75	24	51	4	6	15.95
4.26 - 4.75	80	25	55	4.5	6	16.65
4.76 - 5.30	86	26	60	5	6	17.10
5.31 - 5.80	93	27	66	5.5	6	18.25
5.81 - 6.70	101	28	73	6	6	18.60
6.71 - 7.55	109	31	80	7	6	20.90
7.56 - 8.55	117	33	86	8	6	21.65
8.56 - 9.55	125	36	91	9	6	22.05
9.56 - 11.30	133	38	99	10	6	26.60
11.31 - 12.50	151	44	106	12	6	34.75
12.51 - 13.20	151	44	106	12	6	34.75



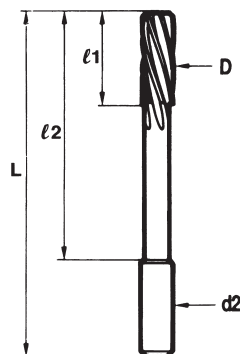
Straight Shank Stub Reamers
DIN 8089 (Manufactured by Toolex)
Tolerance H4 0.01mm increments
HSS E M35 (5%) Cob

D	L	ℓ1	d2	Z	Price £
3.76 - 4.25	56	20	3	6	15.00
4.26 - 5.20	63	22	4	6	16.05
5.21 - 5.30	63	22	4	6	18.70
5.31 - 6.70	63	22	5	6	18.70
6.71 - 7.25	71	25	6	6	19.40
7.26 - 8.20	71	25	6	6	20.50
8.21 - 8.50	71	25	6	6	22.10
8.51 - 9.25	71	25	8	6	23.50
9.26 - 10.20	71	25	8	6	26.00
10.21 - 10.60	71	25	8	6	29.20
10.61 - 11.25	80	28	10	6	29.75
11.26 - 12.05	80	28	10	6	32.60
12.06 - 13.20	80	28	10	6	34.00
13.21 - 14.05	90	32	12	6	37.80
14.06 - 15.05	90	32	12	6	38.45
15.06 - 16.05	90	32	12	6	40.40
16.06 - 17.05	90	32	12	6	48.20
17.06 - 18.05	100	36	16	6	49.65
18.06 - 19.05	100	36	16	6	51.25
19.06 - 20.05	100	36	16	6	52.65



Dimensions in mm unless stated.
Specifications subject to change without notice.
Prices exclusive of V.A.T. Correct as at January 2009

Tolerance H7
HSS E M35 (5%) Cob



D	L	ℓ1	ℓ2	d2	Z	Price £
1.00	40	8	10	1.0	4	13.85
1.50	40	8	15	1.5	4	11.45
2.00	49	11	20	2.0	4	11.45
2.50	57	14	25	2.5	4	11.60
3.00	61	15	25	3.0	4	10.45
3.50	70	18	30	3.5	4	11.80
4.00	75	19	40	4.0	6	11.25
4.50	80	21	45	4.5	6	11.95
5.00	86	23	50	5.0	6	11.45
5.50	93	26	55	6.0	6	12.95
6.00	93	26	55	6.0	6	12.50
7.00	109	31	65	7.0	6	14.55
8.00	117	33	70	8.0	6	15.55
9.00	125	36	80	9.0	6	18.40
10.00	133	38	85	10.0	6	20.30
11.00	142	41	95	10.0	6	22.30
12.00	151	44	100	12.0	6	23.70
14.00	160	47	110	12.0	8	30.95
16.00	170	52	120	12.0	8	34.90
18.00	182	56	130	14.0	8	40.85
20.00	195	60	135	16.0	8	44.75

(Manufactured by Toolex) Tolerance H5
HSS M2 Standard sizes

D	D"	L	ℓ1	ℓ2	d2	Price £
13.50, 14.00	17/32, 35/64	160	47	110	14.00	28.25
14.50, 15.00	9/16, 37/64	162	50	115	14.00	30.45
15.50, 16.00	19/32, 39/64, 5/8	170	52	115	16.00	30.45
16.50, 17.00	41/64, 21/32	175	54	120	16.00	30.70
17.50, 18.00	43/64, 11/16, 45/64	182	56	130	16.00	32.95
18.50, 19.00	23/32, 47/64	189	58	130	16.00	39.35
19.50, 20.00	3/4, 49/64, 25/32	195	60	150	16.00	40.70
21.00	51/64, 13/16	220	67	160	20.00	78.55
22.00	53/64, 27/32, 55/64	220	67	160	20.00	78.90
23.00	7/8, 57/64, 29/32	220	67	160	20.00	79.35
24.00	59/64, 15/16	220	67	160	20.00	79.75
25.00	61/64, 31/32, 63/64	260	75	180	25.00	80.60
26.00	1	260	77	180	25.00	85.00
27.00		260	77	180	25.00	86.00
28.00		260	77	190	25.00	90.60
29.00		260	77	190	25.00	91.85
30.00		260	77	190	25.00	93.35

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Straight Shank Reamers

DIN 212-B (Manufactured by Toolex)



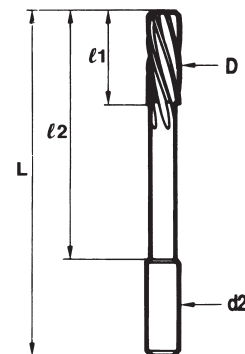
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Tolerance H5 0.01mm increments

HSS M2 Intermediate sizes

D	L	ℓ1	ℓ2	d2	Price £ 1	Price £ 2	Price £ 3+
13.21 - 13.99	160	47	110	14	42.65	38.90	34.00
14.01 - 14.25	160	47	110	14	45.95	41.85	36.60
14.26 - 14.99	162	50	115	14	45.95	41.85	36.60
15.01 - 15.25	162	50	115	14	49.65	45.25	39.60
15.26 - 15.99	170	52	115	16	49.65	45.25	39.60
16.01 - 16.25	170	52	115	16	50.90	46.40	40.55
16.26 - 16.99	175	54	120	16	50.90	46.40	40.55
17.01 - 17.25	175	54	120	16	53.30	48.60	41.90
17.26 - 17.99	182	56	130	16	53.30	48.60	41.90
18.01 - 18.25	182	56	130	16	57.25	52.10	45.55
18.26 - 18.99	189	58	130	16	57.25	52.10	45.55
19.01 - 19.25	189	58	130	16	59.35	54.10	48.60
19.26 - 19.99	195	60	150	16	59.35	54.10	48.60
20.01 - 20.25	195	60	150	16	86.60	78.90	-
20.26 - 21.99	220	67	160	20	86.60	78.90	-
22.01 - 23.99	220	67	160	20	87.10	79.30	-
24.01 - 24.25	220	67	160	20	88.50	80.60	-
24.26 - 24.99	260	77	180	25	88.50	80.60	-
25.01 - 25.99	260	77	180	25	93.00	85.00	-
26.01 - 26.99	260	77	180	25	94.10	86.00	-
27.01 - 27.99	260	77	180	25	99.15	90.60	-
28.01 - 28.99	260	77	190	25	100.60	91.90	-
29.01 - 29.99	260	77	190	25	102.15	93.35	-

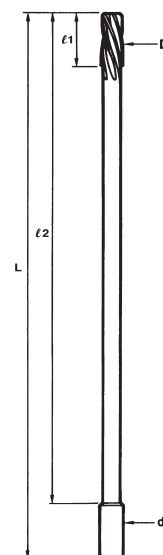


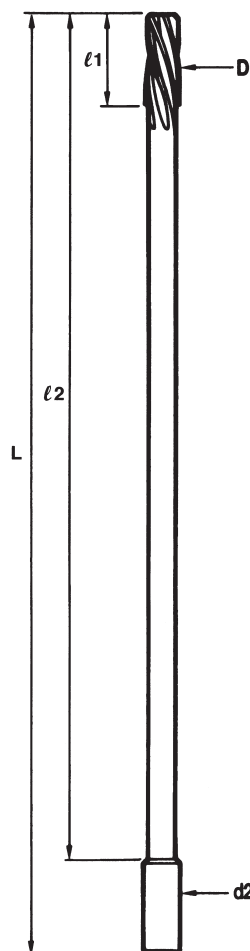
Straight Shank Reamers

Super Long (Supplied by Magafor)

Tolerance H7 HSS M42 (8%) Cob

D	L	ℓ1	ℓ2	d2	Z	Price £
1.50	65	15	45	1.5	6	80.00
2.00	80	25	60	2.0	6	80.00
2.50	100	25	80	2.5	6	82.45
3.00	120	30	100	3.0	6	84.10
3.50	140	30	120	3.5	6	102.95
4.00	160	30	135	4.0	6	84.95
4.50	180	30	155	4.5	6	107.85
5.00	200	30	175	5.0	6	90.65
5.50	220	30	195	5.5	6	108.70
6.00	250	35	220	6.0	6	92.30
7.00	250	35	220	7.0	6	110.30
8.00	250	35	220	8.0	6	94.75
9.00	250	35	220	10.0	6	113.60
10.00	250	35	220	10.0	6	97.20





REAMERS

Straight Shank Reamers
Extra Long (Supplied by Magafor)

1.7

Tolerance H7

HSS M42 (8%) Cob and Carbide K15

D	L	ℓ1	ℓ2	d2	Z	Price £
1.50	55	12	35	1.5	6	57.10
2.00	65	14	45	2.0	6	51.35
2.50	75	14	55	2.5	6	51.35
3.00	90	14	70	3.0	6	39.90
3.50	90	14	70	3.5	6	58.30
4.00	105	16	80	4.0	6	39.90
4.50	105	16	80	4.5	6	60.35
5.00	115	16	90	5.0	6	41.95
5.50	115	16	90	5.5	6	64.05
6.00	130	16	100	6.0	6	43.55
6.35	130	16	100	6.0	6	66.50
6.50	130	16	100	6.0	6	66.50
7.00	140	18	110	7.0	6	46.85
7.50	140	18	110	7.0	6	68.15
8.00	160	18	130	8.0	6	45.20
8.50	160	18	130	8.0	6	68.95
9.00	175	18	140	9.0	6	51.35
9.50	175	18	140	9.0	6	71.40
10.00	190	20	150	10.0	6	51.35
11.00	200	20	160	10.0	6	58.70
12.00	210	20	160	12.0	6	56.25
Carbide Long Series K15						
D	L	ℓ1	ℓ2	d2	Z	Price £
3.00	90	14	70	D	6	48.50
3.50	90	14	70	D	6	64.45
4.00	105	16	80	4.0	6	48.50
4.50	105	16	80	4.5	6	64.45
5.00	115	16	90	5.0	6	52.15
5.50	115	16	90	5.5	6	66.50
6.00	130	16	100	6.0	6	59.95
7.00	140	18	110	7.0	6	85.75
8.00	160	18	130	8.0	6	93.95
9.00	175	18	140	9.0	6	98.85
10.00	190	20	150	10.0	6	102.15
11.00	190	20	150	10.0	6	122.60
12.00	220	22	170	12.0	6	126.70
13.00	220	22	170	12.0	8	156.20
14.00	220	22	170	12.0	8	160.30
15.00	220	22	170	12.0	8	191.40
16.00	230	25	180	16.0	8	194.65
18.00	230	25	180	16.0	8	214.35
20.00	230	25	180	16.0	8	242.15

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Taper Shank Reamers
BS 328/4 (Manufactured by Toolex)



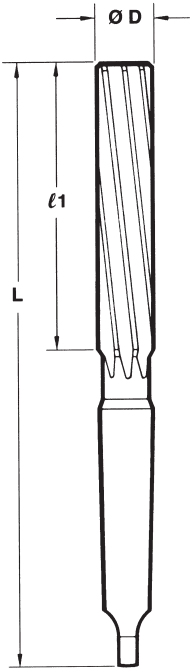
for Quality & Service

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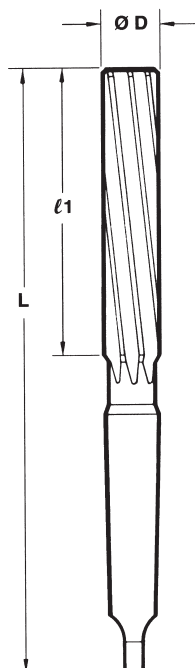
Tolerance H5
HSS M2 Standard sizes

Reamers

D	D"	L	ℓ1	MTS	Price £
5.00		125	42	1	19.50
5.50		128	45	1	19.50
6.00	1/4	128	45	1	19.50
6.50	17/64	130	47	1	20.80
7.00	9/32	134	51	1	20.80
7.50	19/64	134	51	1	20.95
8.00	5/16	138	55	1	20.35
8.50	21/64	138	55	1	21.35
9.00	11/32	142	59	1	20.60
9.50	23/64, 3/8	146	63	1	22.00
10.00		146	63	1	20.95
10.50	25/64, 13/32, 27/64	146	63	1	23.40
11.00	7/16	151	68	1	22.60
11.50	29/64, 15/32	151	68	1	23.95
12.00		156	73	1	23.40
12.50	31/64	156	73	1	24.15
13.00	1/2	156	73	1	23.40
13.50	33/64, 17/32, 35/64	161	78	1	29.95
14.00	9/16	161	78	1	26.25
14.50	37/64	181	80	2	32.95
15.00	19/32	181	80	2	28.80
15.50	39/64	187	86	2	36.25
16.00	5/8	187	86	2	31.70
16.50	41/64, 21/32	187	86	2	39.50
17.00		187	86	2	34.75
17.50	43/64, 11/16, 45/64	193	92	2	41.10
18.00		193	92	2	36.00
18.50	23/32, 47/64	193	92	2	45.50
19.00	3/4	193	92	2	39.75
19.50	49/64, 25/32	200	99	2	50.35
20.00		200	99	2	44.00
20.50	51/64, 13/16	207	106	2	51.15
21.00		207	106	2	46.65
21.50	53/64, 27/32, 55/64	207	106	2	53.80
22.00	7/8	207	106	2	49.10
22.50	57/64	207	106	2	54.95
23.00		207	106	2	50.10
23.50	29/32, 59/64, 15/16	242	113	3	79.80
24.00		242	113	3	72.70



**Tolerance H5
HSS M2 Standard sizes**



D	D''	L	ℓ1	MTS	Price £
24.50	61/64, 31/32, 63/64	242	113	3	79.70
25.00	1	242	113	3	72.55
25.50		242	113	3	84.75
26.00		242	113	3	77.50
26.50		251	122	3	88.20
27.00		251	122	3	85.15
27.50		251	122	3	90.60
28.00		251	122	3	88.65
28.50		251	122	3	101.15
29.00		251	122	3	92.45
29.50		251	122	3	103.25
30.00		251	122	3	113.60
31.00		260	131	4	124.20
32.00		293	134	4	125.25
33.00		293	134	4	135.35
34.00		302	143	4	144.40
35.00		302	143	4	147.50
36.00		302	143	4	165.70
37.00		302	143	4	174.70
38.00		312	153	4	178.75
39.00		312	153	4	193.95
40.00		312	153	4	196.95
41.00		312	153	4	211.05
42.00		312	153	4	219.20
43.00		312	164	4	265.70
44.00		323	164	4	267.65
45.00		323	164	4	268.80
46.00		323	164	4	281.55
47.00		323	164	4	294.30
48.00		334	175	4	302.85
49.00		334	175	4	307.05
50.00		334	175	4	311.35

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Taper Shank Reamers

BS 328/4 (Manufactured by Toolex)

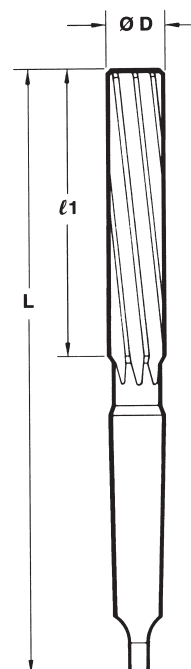
Tolerance H5 0.01mm increments

HSS M2 Intermediate sizes



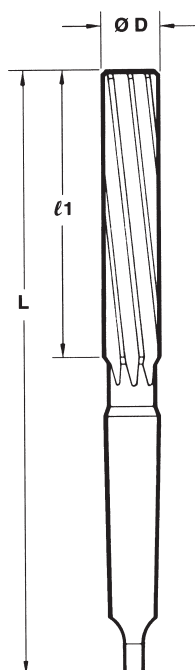
for Quality & Service

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D	L	l1	l2	MTS	Z	Price £ 1	Price £ 2,3	Price £ 4+
4.75 - 5.25	125	42	60	1	6	41.60	33.50	29.30
5.26 - 6.25	128	45	63	1	6	41.60	33.50	29.30
6.26 - 6.75	130	47	65	1	6	41.60	33.50	29.30
6.76 - 6.99	134	51	69	1	6	41.60	33.50	29.30
7.26 - 7.75	134	51	69	1	6	43.00	34.50	30.30
7.76 - 7.99	138	55	73	1	6	43.00	34.50	30.30
8.01 - 8.75	138	55	73	1	6	43.40	34.50	30.30
8.76 - 8.99	142	59	77	1	6	43.40	34.85	30.55
9.01 - 9.25	142	59	77	1	6	43.90	35.25	30.85
9.26 - 9.99	146	63	81	1	6	43.90	35.25	30.85
10.01 - 10.75	146	63	81	1	6	45.80	36.95	32.55
10.76 - 10.99	151	68	86	1	6	45.80	36.95	32.55
11.01 - 11.75	151	68	86	1	6	47.10	38.00	33.40
11.76 - 11.99	156	73	91	1	6	47.10	38.00	33.40
12.01 - 12.99	156	73	91	1	6	48.85	39.35	34.70
13.01 - 13.25	156	73	91	1	6	49.70	40.15	35.30
13.26 - 14.25	161	78	96	1	8	49.70	40.15	35.30
14.26 - 14.99	181	80	100	2	8	54.10	44.00	38.70
15.01 - 15.25	181	80	100	2	8	54.10	44.00	38.70
15.26 - 15.99	187	86	106	2	8	54.10	44.00	38.70
16.01 - 16.99	187	86	106	2	8	59.35	47.80	42.00
17.01 - 17.25	187	86	106	2	8	61.50	49.50	43.55
17.26 - 17.99	193	92	112	2	8	61.50	49.50	43.55
18.01 - 18.99	193	92	112	2	8	68.15	54.85	48.20
19.01 - 19.25	193	92	112	2	8	75.55	60.85	53.40
19.26 - 19.99	200	99	119	2	8	75.55	60.85	53.40
20.01 - 20.99	200	99	119	2	8	80.20	60.95	-
21.01 - 21.99	207	106	126	2	8	84.35	63.60	-
22.01 - 22.99	207	106	126	2	8	86.10	65.00	-
23.01 - 23.25	207	106	126	2	8	101.55	88.45	-
23.26 - 23.99	242	113	143	3	8	101.55	88.45	-
24.01 - 24.99	242	113	143	3	8	101.60	88.30	-
25.01 - 25.99	242	113	143	3	8	106.90	93.50	-
26.01 - 26.25	242	113	143	3	10	117.70	93.80	-

Tolerance H5 0.01mm increments
HSS M2 Intermediate sizes



D	L	ℓ1	ℓ2	MTS	Z	Price £ 1	Price £ 2,3
26.26 - 26.99	251	122	152	3	10	117.70	93.80
27.01 - 27.99	251	122	152	3	10	122.60	98.85
28.01 - 28.99	251	122	152	3	10	127.95	111.75
29.01 - 29.99	251	122	152	3	10	130.50	114.00
30.01 - 30.25	251	122	152	3	10	143.60	-
30.26 - 30.99	260	131	161	3	10	143.60	-
31.01 - 31.99	260	131	161	3	10	144.75	-
32.01 - 32.99	293	134	169	4	10	156.50	-
33.01 - 33.25	293	134	169	4	10	167.00	-
33.26 - 33.99	302	143	178	4	10	167.00	-
34.01 - 34.99	302	143	178	4	10	170.60	-
35.01 - 35.99	302	143	178	4	10	191.80	-
36.01 - 36.99	302	143	178	4	10	202.35	-
37.01 - 37.25	302	143	178	4	10	207.00	-
37.26 - 37.99	312	153	188	4	10	207.00	-
38.01 - 38.99	312	153	188	4	10	212.70	-
39.01 - 39.99	312	153	188	4	10	215.95	-
40.01 - 40.99	312	153	188	4	10	231.55	-
41.01 - 41.99	312	153	188	4	10	240.40	-
42.01 - 42.25	312	153	188	4	10	291.45	-
42.26 - 42.99	312	164	199	4	10	291.45	-
43.01 - 43.99	312	164	199	4	10	293.65	-
44.01 - 44.99	323	164	199	4	10	294.85	-
45.01 - 45.99	323	164	199	4	10	315.20	-
46.01 - 46.99	323	164	199	4	12	315.20	-
47.01 - 47.25	323	164	199	4	12	326.40	-
47.26 - 48.25	334	175	210	4	12	326.40	-
48.26 - 50.25	334	175	210	4	12	333.20	-

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

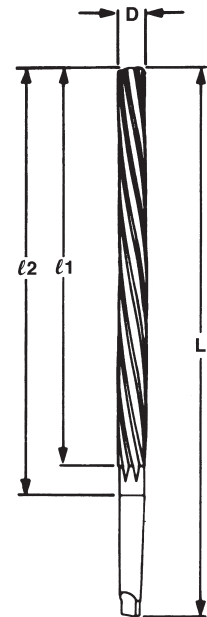
Taps
Dies

TUSA
Carbide Tooling

Tolerance H5 0.01mm increments

HSS M2

Size range D	ℓ1	ℓ2	MTS	Z	Price £
Overall length L = 200mm					
5.26 - 6.25	110	135	1	6	60.50
6.26 - 7.25	110	135	1	6	61.20
7.26 - 8.25	110	135	1	6	61.70
Overall length L = 250mm					
7.26 - 8.25	160	185	1	6	78.95
8.26 - 9.25	160	185	1	6	80.20
9.26 - 10.25	160	185	1	6	81.15
10.26 - 11.25	160	185	1	6	82.30
11.26 - 12.25	160	185	1	6	83.45
12.26 - 13.25	160	185	1	6	84.65
13.26 - 14.25	160	185	1	6	86.55
14.26 - 15.25	150	175	2	8	89.55
15.26 - 16.25	150	175	2	8	90.95
Overall length L = 300mm					
14.26 - 15.25	195	220	2	8	96.25
15.26 - 16.25	195	220	2	8	97.85
16.26 - 17.25	195	220	2	8	99.70
17.26 - 18.25	195	220	2	8	101.00
18.26 - 19.25	195	220	2	8	105.10
19.26 - 20.25	195	220	2	8	112.90
Overall length L = 380mm					
20.26 - 21.25	251	281	2	8	146.95
21.26 - 22.25	251	281	2	8	150.25
22.26 - 23.25	251	281	2	8	152.70
23.26 - 24.25	251	281	3	8	185.60
24.26 - 25.25	251	281	3	8	187.75
25.26 - 26.25	251	281	3	10	196.15
26.26 - 27.25	251	281	3	10	201.85
27.26 - 28.25	251	281	3	10	204.85
28.26 - 29.25	251	281	3	10	214.10
29.26 - 30.25	251	281	3	10	217.40
30.26 - 31.25	251	281	3	10	228.30
31.26 - 32.25	251	281	3	10	265.15



0.200mm - 0.595mm available in
.005mm increments

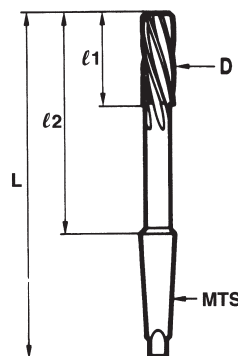
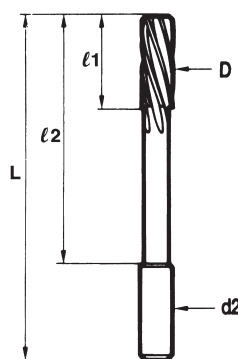
Tolerance $\pm .001$ mm

0.6mm - 4.75mm available in
.01mm increments

Tolerance H4

4.75mm - 32.25mm available in
.01mm increments

Tolerance H5



REAMERS

Carbide Reamers
Straight Shank/Taper Shank
(Supplied by Magafor Manufactured by Toolex)

1.13

D	L	ℓ1	ℓ2	d2	Z	Price £
0.20 - 0.245	39	0.9	2	3	4	87.35
0.25 - 0.295	39	1.1	2.5	3	4	82.45
0.30 - 0.345	39	1.4	3	3	4	82.05
0.35 - 0.395	39	1.7	3.5	3	4	81.25
0.40 - 0.495	39	2	4	3	4	80.45
0.50 - 0.595	39	2.3	5	3	4	79.60
0.60 - 0.69	33	7	10	D	4	46.55
0.70 - 0.79	33	7	10	D	4	32.05
0.80 - 1.05	33	7	10	D	4	31.25
1.06 - 1.55	40	10	24	D	4	31.25
1.56 - 2.36	50	11	31	D	4	30.10
2.37 - 3.75	57	15	38	D	6	34.30
3.76 - 4.25	75	19	49	4	6	42.75
4.26 - 4.75	80	21	51	4.5	6	49.90
4.76 - 5.30	86	23	59	5	6	49.90
5.31 - 5.80	93	26	65	5.5	6	50.05
5.81 - 6.70	101	28	71	6	6	54.78
6.71 - 7.55	109	31	78	7	6	70.68
7.56 - 8.55	117	33	84	8	6	76.65
8.56 - 9.55	125	36	88	9	6	83.95
9.56 - 10.05	133	38	97	10	6	84.05
10.06 - 11.05	133	38	97	10	6	103.35
11.06 - 12.05	151	44	110	12	6	111.35
12.06 - 13.25	151	44	110	12	6	126.05
D	L	ℓ1	ℓ2	d2	Z	Price £
9.26 - 10.25	168	19	100	1	6	102.80
10.26 - 11.25	175	19	107	1	6	112.90
11.26 - 13.25	182	19	114	1	6	117.25
13.26 - 14.25	189	19	121	1	6	121.55
14.26 - 15.25	204	19	124	2	6	123.00
15.26 - 16.25	210	22	130	2	6	124.45
16.26 - 17.25	214	22	134	2	6	130.25
17.26 - 18.25	219	22	139	2	6	131.70
18.26 - 19.25	223	22	143	2	6	134.55
19.26 - 20.25	228	22	148	2	6	138.90
20.26 - 21.25	232	25	148	2	6	149.00
21.26 - 22.25	237	25	157	2	6	150.45
22.26 - 23.25	241	25	157	2	6	167.80
23.26 - 25.25	268	25	169	3	8	183.70
25.26 - 26.25	273	25	174	3	8	188.05
26.26 - 28.25	277	30	174	3	8	193.80
28.26 - 29.25	281	30	178	3	8	193.80
29.26 - 30.25	281	30	182	3	8	196.70
30.26 - 32.25	290	30	182	3	8	209.70

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Hand Reamers

DIN 206-B (Manufactured by Toolex)



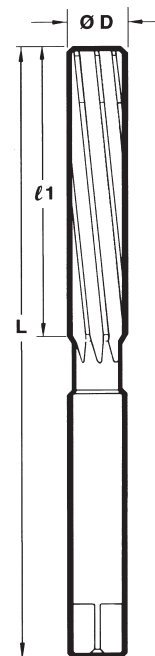
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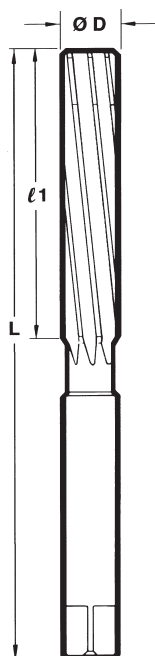
Tolerance H7

HSS M2 Standard sizes

D	L	ℓ1	Price £
1.00	38	14	23.75
1.50	44	21	21.60
2.00	50	25	17.65
2.50	57	29	17.55
3.00	57	31	17.40
3.50	71	35	17.65
4.00	76	38	18.10
4.50	81	41	18.95
5.00	87	44	18.60
5.50 & 6.00	93	47	20.35
6.50	100	50	21.90
7.00 & 7.50	107	54	21.90
8.00 & 8.50	115	58	21.90
9.00 & 9.50	124	62	25.50
10.00 & 10.50	133	66	26.40
11.00 & 11.50	142	71	31.70
12.00	152	76	31.70
12.50 & 13.00	152	76	38.80
13.50 & 14.00	163	81	38.80
14.50 & 15.00	163	81	45.85
15.50 & 16.00	175	87	46.75
16.50 & 17.00	175	87	55.95
17.50 & 18.00	188	93	55.95
18.50 & 19.00	188	93	65.35
19.50 & 20.00	201	100	65.35
21 & 22 & 23	215	107	72.45
24 & 25 & 26	231	115	90.15
27 & 28	247	124	118.45
29 & 30	247	124	130.90
31 & 32	265	133	153.90



Tolerance H5 0.01mm increments
HSS M2 Intermediate sizes



D	L	l1	Price £
4.25 - 4.49	81	41	22.20
4.50 - 4.99	87	44	22.20
5.00 - 5.49	93	47	22.20
5.50 - 5.99	93	47	22.20
6.00 - 6.49	93	50	25.00
6.50 - 6.99	107	54	25.00
7.00 - 7.49	107	54	25.00
7.50 - 7.99	115	58	25.00
8.00 - 8.49	115	58	25.00
8.50 - 8.99	124	62	29.10
9.00 - 9.49	124	62	29.10
9.50 - 9.99	133	66	29.10
10.00 - 10.49	133	66	30.00
10.50 - 10.99	142	71	35.40
11.00 - 11.49	142	71	35.40
11.50 - 11.99	152	76	35.40
12.00 - 12.49	152	76	41.45
12.50 - 12.99	152	76	41.45
13.00 - 13.49	163	81	41.45
13.50 - 13.99	163	81	41.45
14.00 - 14.49	163	81	49.75
14.50 - 14.99	163	81	49.75
15.00 - 15.49	175	87	51.15
15.50 - 15.99	175	87	51.15
16.00 - 16.49	175	87	58.15
16.50 - 16.99	175	87	58.15
17.00 - 17.49	188	93	58.15
17.50 - 17.99	188	93	58.15
18.00 - 18.49	188	93	69.25
18.50 - 18.99	188	93	69.25
19.00 - 19.99	201	100	69.25
20.00 - 20.99	215	107	78.95
21.00 - 22.99	215	107	78.95
23.00 - 25.99	231	115	97.60
26.00 - 27.99	247	124	126.80
28.00 - 29.99	247	124	139.05
30.00 - 32.00	265	133	165.95

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

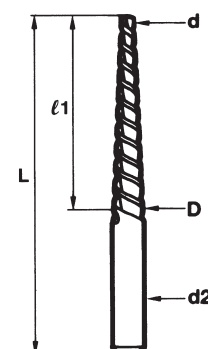
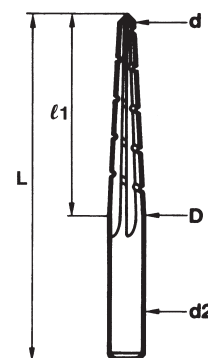
Taps
Dies

TUSA
Carbide Tooling

Straight flute and spiral flute

HSS M35 (5%) Cob

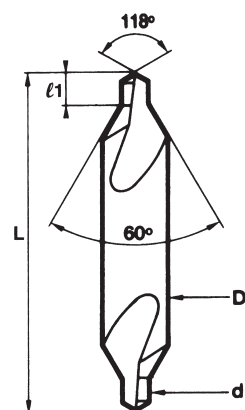
D	d	L	ℓ1	d2	Price £	Price £
Taper 5% - 2° 52'					Straight Flute	Spiral Flute
2	1	50	20	2	80.05	-
4	2	80	40	4	90.65	-
6	3	110	60	6	100.50	55.45
8	4	130	80	8	135.70	75.50
10	5	155	100	10	164.35	89.85
12	6	180	120	12	194.65	110.30
14	7	200	140	14	245.45	139.80
Morse No					-	-
16	8	260	160	2	-	206.95
18	9	278	180	2	-	224.15
20	10	300	200	2	-	280.65
Taper 8% - 4° 34'					Straight Flute	Spiral Flute
6	2	100	50	6	82.45	45.20
8	3	110	62	8	100.50	55.45
10	4	130	75	10	125.90	64.05
12	5	150	90	12	148.80	83.30
14	6	160	100	14	223.35	120.95
Morse No					-	-
16	7	210	112	2	-	181.55
18	8	223	125	2	-	206.95
20	9	236	137	2	-	265.90
Taper 10% - 5° 42'					Straight Flute	Spiral Flute
4	1.5	65	25	4	-	55.45
6	2	90	40	6	74.70	43.55
8	3	100	50	8	92.30	52.15
10	4	115	60	10	100.50	55.45
12	5	130	70	12	120.15	68.15
14	6	140	80	14	204.50	118.50
Morse No					-	-
16	7	190	90	2	-	148.80
18	8	200	100	2	-	166.85
20	9	210	110	2	-	224.15
25	12	250	130	3	-	322.45
30	14	280	160	3	-	537.00



Form A (60°)

Code 114: BS, HSS M2

Code 115: ASA, HSS M2



BS	ASA	D x d mm (")	L	ℓ1	Price £
	000	3.17 x 0.51 (1/8 x .020)	31	0.6 - 0.8	4.00
	00	3.17 x 0.63 (1/8 x .025)	31	0.8 - 1.0	3.45
	0	3.17 x 0.79 (1/8 x 1/32)	31	1.1 - 1.3	3.15
1	1	3.17 x 1.19 (1/8 x 3/64)	31	1.5 - 1.7	2.00
2		4.76 x 1.58 (3/16 x 1/16)	47	2.0 - 2.4	2.30
	2	4.76 x 1.98 (3/16 x 5/64)	47	2.5 - 2.9	2.30
3		6.35 x 2.38 (1/4 x 3/32)	50	2.9 - 3.4	2.70
	3	6.35 x 2.77 (1/4 x 7/64)	50	3.5 - 4.0	2.70
4	4	7.93 x 3.17 (5/16 x 1/8)	54	3.9 - 4.4	3.50
5	5	11.11 x 4.76 (7/16 x 3/16)	70	6.1 - 6.6	5.85
	6	12.70 x 5.55 (1/2 x 7/32)	76	7.2 - 7.8	7.00
6	7	15.87 x 6.35 (5/8 x 1/4)	82	8.0 - 8.6	13.10
7	8	19.05 x 7.93 (3/4 x 5/16)	89	10.1 - 10.8	20.10
	9	22.22 x 8.73 (7/8 x 11/32)	92	11.2 - 11.9	36.10
	10	25.40 x 9.52 (1 x 3/8)	95	12.2 - 12.9	40.10

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Form A (60°)

Code 011: HSS M2

Code 010: HSS M35 (5%) Cob

Code 105: HSS M42 (8%) Cob

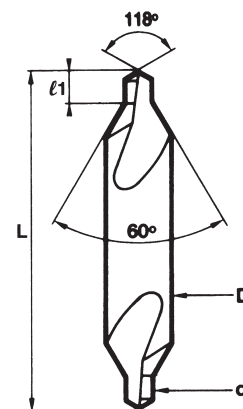
Code 811: HSS M35 (5%) Cob TiN coated

Code 910: HSS M42 (8%) Cob TiCN coated

Code 8100: Carbide K15 micrograin

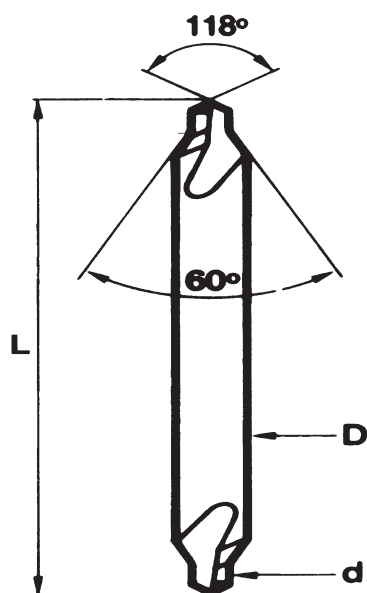
D x d	L	ℓ1	M2 Price £	M35 Price £	M42 Price £	TiN Price £	TiCN Price £	CBD Price £
3.15 x 0.5*	25	0.6 - 0.8	2.20	-	-	8.65	-	30.75
3.15 x 0.63*	25	0.7 - 0.9	2.20	-	-	-	-	-
3.15 x 0.8*	25	1.0 - 1.2	2.20	-	-	8.65	-	30.75
3.15 x 1.0	31	1.3 - 1.6	2.20	5.10	8.35	8.65	16.10	33.25
3.15 x 1.25	31	1.6 - 1.9	2.40	5.10	8.35	8.65	16.10	33.25
3.5 x 0.75	35	1.0 - 1.2	-	5.55	-	-	-	-
4.0 x 1.0	35	1.3 - 1.6	-	5.15	-	8.75	-	33.25
4.0 x 1.6	35	2.0 - 2.4	2.25	5.15	8.40	8.75	16.20	33.25
5.0 x 1.5	40	2.0 - 2.4	-	5.65	-	9.25	-	40.65
5.0 x 2.0	40	2.5 - 2.9	2.40	5.65	8.80	9.25	16.70	40.65
6.0 x 2.0	45	2.5 - 2.9	-	6.45	-	10.55	-	48.50
6.3 x 2.5	45	3.1 - 3.6	2.70	6.45	10.45	10.55	18.35	48.50
8.0 x 2.5	50	3.1 - 3.6	-	7.40	-	11.95	-	59.30
8.0 x 3.0	50	3.9 - 4.4	-	7.40	-	11.95	-	59.30
8.0 x 3.15	50	3.9 - 4.4	3.40	7.40	11.95	11.95	22.30	59.30
10.0 x 3.0	55	3.9 - 4.4	-	9.35	-	15.75	-	78.20
10.0 x 4.0	55	5.0 - 5.6	4.40	9.35	15.65	15.75	28.35	78.20
12.0 x 4.0	63	5.0 - 5.6	-	15.30	-	26.85	-	-
12.0 x 5.0	63	6.3 - 6.9	-	15.30	-	26.85	-	127.60
12.5 x 5.0	63	6.3 - 6.9	6.60	15.30	25.95	26.85	45.90	127.60
14.0 x 5.0	69	6.3 - 7.2	13.20	-	-	-	-	-
16.0 x 6.3	71	8.0 - 8.6	13.05	20.60	-	38.55	-	198.65
20.0 x 8.0	80	10.1 - 10.8	20.10	-	-	71.90	-	-
25.0 x 10.0	100	12.8 - 13.5	39.30	-	-	-	-	-
31.5 x 12.5	125	15.5 - 16.5	100.30	-	-	-	-	-

* Single end



Form A (60°)

Code 185: HSS M2



A S A	D x d mm (")	L	Price £
1 x 3		76	6.70
1 x 4	3.17 x 1.19	102	11.15
1 x 5	(1/8 x 3/64)	127	16.90
1 x 6		152	18.75
2 x 3		76	7.00
2 x 4	4.76 x 1.98	102	10.80
2 x 5	(3/16 x 5/64)	127	16.05
2 x 6		152	17.85
3 x 3		76	7.00
3 x 4	6.35 x 2.77	102	10.80
3 x 5	(1/4 x 7/64)	127	16.05
3 x 6		152	17.85
4 x 3		76	7.20
4 x 4	7.93 x 3.17	100	10.80
4 x 5	(5/16 x 1/8)	125	18.45
4 x 6		150	20.10
4.5 x 4	9.52 x 3.57	100	11.20
4.5 x 5	(3/8 x 9/64)	125	21.25
4.5 x 6		150	22.85
5 x 4	11.11 x 4.76	100	14.40
5 x 5	(7/16 x 9/64)	125	25.25
5 x 6		150	27.65
6 x 4	12.70 x 5.55	100	15.65
6 x 5	(1/2 x 7/32)	125	25.25
6 x 6		150	27.65
7 x 5	15.87 x 6.35	125	30.05
7 x 6	(5/8 x 6.35)	150	35.70
8 x 6	19.05 x 7.93	150	41.75
	(3/4 x 5/16)		-

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Centre Drills
Metric Long Series

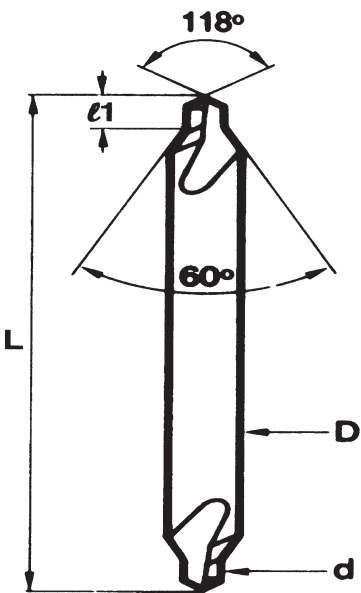


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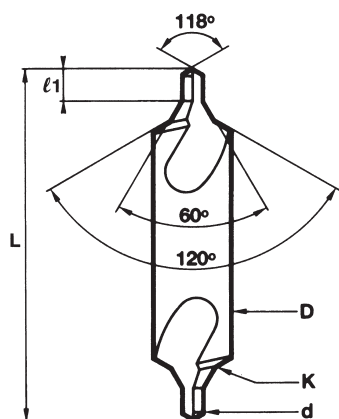
Form A (60°)
Code 018: HSS M2

D x d	L	ℓ1	Price £
3.5 x 0.75	60	1.0 - 1.2	7.65
4.0 x 1.0	60	1.3 - 1.6	7.60
5.0 x 1.5	60	2.0 - 2.4	7.40
6.0 x 2.0	80	2.5 - 2.9	7.95
8.0 x 2.5	80	3.1 - 3.6	9.95
8.0 x 3.0	80	3.9 - 4.4	9.95
4.0 x 1.0	100	1.3 - 1.6	13.40
5.0 x 1.5	100	2.0 - 2.4	13.15
6.0 x 2.0	100	2.5 - 2.9	13.15
8.0 x 2.5	100	3.1 - 3.6	13.15
8.0 x 3.0	100	3.9 - 4.4	13.15
10.0 x 3.0	100	3.9 - 4.4	13.15
10.0 x 4.0	100	5.0 - 5.6	13.15
12.0 x 4.0	100	5.0 - 5.6	17.40
12.0 x 5.0	100	6.3 - 6.9	17.40
3.5 x 0.75	120	1.0 - 1.2	24.90
4.0 x 1.0	120	1.3 - 1.6	17.85
5.0 x 1.5	120	2.0 - 2.4	17.55
5.0 x 1.6	120	2.0 - 2.6	17.55
6.0 x 2.0	120	2.5 - 2.9	17.55
8.0 x 2.5	120	3.1 - 3.6	20.15
8.0 x 3.0	120	3.9 - 4.4	20.15
10.0 x 3.0	120	3.9 - 4.4	23.35
10.0 x 3.15	120	3.9 - 4.6	23.35
10.0 x 4.0	120	5.0 - 5.6	23.35
12.0 x 4.0	120	5.0 - 5.6	28.55
14.0 x 5.0	120	6.3 - 6.9	35.05
4.0 x 1.0	150	1.3 - 1.6	21.45
5.0 x 1.5	150	2.0 - 2.4	21.20
6.0 x 2.0	150	2.5 - 2.9	21.20
8.0 x 2.5	150	3.1 - 3.6	24.00
8.0 x 3.0	150	3.9 - 4.4	24.00
10.0 x 3.0	150	3.9 - 4.4	27.70
10.0 x 4.0	150	5.0 - 5.6	27.70
12.0 x 4.0	150	5.0 - 5.6	33.55
16.0 x 6.3	150	8.0 - 8.9	49.80
5.0 x 2.0	200	2.5 - 2.9	44.60
6.3 x 2.5	200	3.1 - 3.6	43.75
8.0 x 3.15	200	3.9 - 4.4	41.35
10.0 x 4.0	200	5.0 - 5.6	45.05



Form B (Bell type 60°/120°)

Code 135: HSS M2



ASA	D x d	L	K	l1	Price £
11	3.17 x 1.19	31	2.5	1.5 - 1.7	2.85
12	4.76 x 1.58	47	3.8	2.0 - 2.4	3.10
13	6.35 x 2.38	50	5.1	2.9 - 3.4	3.75
14	7.93 x 2.77	54	6.3	3.1 - 3.6	4.85
15	11.11 x 3.96	70	8.9	5.0 - 5.6	7.90
16	12.70 x 4.76	76	10.1	6.1 - 6.6	9.40
17	15.87 x 5.55	82	12.7	7.1 - 7.7	16.85
18	19.05 x 6.35	89	15.2	8.0 - 8.6	24.85
19	22.22 x 7.93	92	17.8	11.2 - 11.9	44.10
20	25.4 x 9.52	95	20.3	12.2 - 12.9	52.15

Code 134: HSS M2

BS	D x d	L	K	l1	Price £
1-B	3.17 x 1.19	38	1.9	1.6 - 2.0	7.10
2-B	4.76 x 1.58	45	2.8	2.0 - 2.4	7.10
3-B	6.35 x 2.38	50	3.8	3.3 - 3.9	7.10
4-B	7.93 x 2.77	56	4.8	4.1 - 4.7	8.10
5-B	11.11 x 3.96	64	6.6	5.7 - 6.3	13.65
6-B	15.87 x 5.55	76	9.5	7.7 - 8.3	22.05
7-B	19.05 x 6.35	88	11.4	9.2 - 10.0	39.40

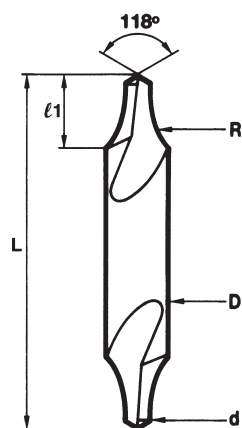
Centre Drills

DIN 333-R

Form R (Radius point)

Code 012: HSS M2

Code 8112: Carbide K15 micrograin



D x d	L	l1	R	HSS Price £	CBD Price £
3.15 x 0.5*	25	0.6 - 0.8	2	3.65	41.55
3.15 x 0.8*	25	1.0 - 1.2	2.5	3.65	-
3.15 x 1.0	31	1.3 - 1.6	2.9	3.65	43.10
3.15 x 1.25	31	1.6 - 1.9	3.15	3.65	43.10
4.0 x 1.6	35	2.0 - 2.4	4	3.70	43.10
5.0 x 2.0	40	2.5 - 2.9	5	3.95	53.45
6.3 x 2.5	45	3.1 - 3.6	6.3	4.75	63.80
8.0 x 3.15	50	3.9 - 4.4	8	5.20	75.50
10.0 x 4.0	55	5.0 - 5.6	10	6.60	100.65
12.5 x 5.0	63	12.5 - 13.1	12.5	11.35	-

* Single end

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

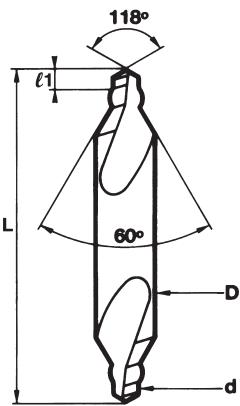
Taps
Dies

TUSA
Carbide Tooling

Code 014: Form W (Reinforced point)
HSS M2

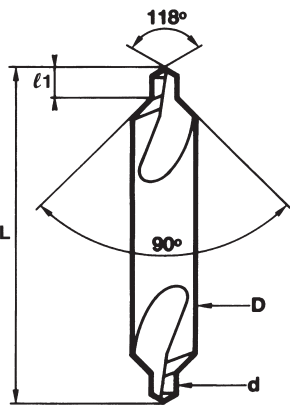
D x d	L	ℓ1	Price £
3.15 x 0.5*	25	0.6 - 0.8	3.85
3.15 x 0.8*	25	1.0 - 1.2	3.85
3.15 x 1.0	31	1.3 - 1.6	3.85
3.15 x 1.25	31	1.6 - 1.9	3.85
4.0 x 1.6	35	2.0 - 2.4	4.10
5.0 x 2.0	40	2.5 - 2.9	4.50
6.3 x 2.5	45	3.1 - 3.6	4.95
8.0 x 3.15	50	3.9 - 4.4	5.50
10.0 x 4.0	55	5.0 - 5.6	7.10

* Single end



Centre Drills 90°
Code 015: HSS M2

D x d	L	ℓ1	Price £
3.5 x 0.75	35	1.0 - 1.2	8.80
4.0 x 1.0	35	1.3 - 1.6	8.15
5.0 x 1.5	40	2.0 - 2.4	8.35
6.0 x 2.0	15	2.5 - 2.9	10.10
8.0 x 2.5	50	3.1 - 3.6	11.65
8.0 x 3.0	50	3.9 - 4.4	11.65
10.0 x 3.0	55	3.9 - 4.4	15.30
10.0 x 4.0	55	5.0 - 5.6	15.30
12.0 x 4.0	63	5.0 - 5.6	22.95
12.0 x 5.0	63	6.3 - 6.9	22.95
14.0 x 5.0	71	6.3 - 6.9	32.25
18.0 x 6.0	80	8.0 - 8.6	46.75



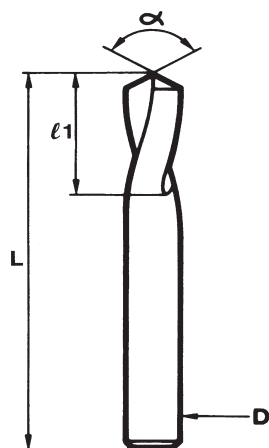
Code 195: 90° HSS M35 (5%) Cob

Code 895: 90° HSS M35 (5%) Cob TiN coated

Code 995: 90° HSS M35 (5%) Cob Futura coated

Code 196: 120° HSS M35 (5%) Cob

Code 896: 120° HSS M35 (5%) Cob TiN coated



D	D"	L	l1	M35 Price £	TiN Price £	Futura Price £
2		49	8	8.20	12.15	12.60
3		50	10	6.55	10.15	10.85
	1/8	50	10	6.70	10.25	10.95
4		52	12	6.70	10.70	11.40
	3/16	60	15	6.95	11.25	12.00
5		60	15	6.95	11.35	12.15
6		66	20	7.25	12.60	13.40
	1/4	66	22	7.25	13.85	14.65
8		79	25	8.00	15.00	15.90
	3/8	89	25	9.85	17.10	18.20
10		89	25	9.85	17.25	18.35
12		102	30	12.40	23.85	25.05
	1/2	102	35	12.40	24.85	26.25
14		115	35	20.10	32.75	34.70
	5/8	115	35	20.10	34.30	36.30
16		115	35	20.10	34.50	36.50
18		130	40	32.90	58.40	62.35
	3/4	130	40	32.90	61.15	65.10
20		130	40	32.90	61.55	65.50
25		138	45	56.65	84.45	89.20
	1	138	45	56.65	90.80	94.75

Code 197: Long Series 90° HSS M35 (5%) Cob

Code 199: Long Series 120° HSS M35 (5%) Cob

D	D"	L	l1	Price £
3		80	10	31.55
4		100	12	30.20
5		120	15	31.35
6		140	20	32.75
	1/4	140	22	33.75
8		140	25	36.70
	3/8	170	25	52.90
10		170	25	53.65
12		170	30	57.20
	1/2	170	35	59.20
	5/8	200	35	71.85
16		200	35	72.20
	3/4	200	40	87.60
20		200	40	88.40
	1	200	45	112.10

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

NC Spotting Drills
Carbide

CENTRE & SPOTTING DRILLS

Code 8195: 90° Carbide K15 micrograin

Code 8196: 120° Carbide K15 micrograin

D	L	ℓ1	Price £
2	40	8	26.00
3	45	12	7.25
4	50	15	8.15
5	50	18	9.80
6	50	21	11.45
8	60	25	17.85
10	70	27	26.15
12	70	27	34.80
14	75	30	55.35
16	75	30	64.25
18	100	33	106.40
20	100	33	126.65

Code 8197 : Long Series 90° Carbide K15 micrograin

Code 8199 : Long Series 120° Carbide K15 micrograin

D	D"	L	ℓ1	Price £
4		100	12	71.40
5		120	15	87.40
6		140	20	98.85
	1/4	140	22	100.50
8		140	25	119.35
	3/8	170	25	157.80
10		170	25	158.65
12		170	30	188.35
	1/2	170	35	194.10
	5/8	200	35	321.05
16		200	35	322.65
	3/4	200	40	468.45
20		200	40	476.65

Code 007 : Combi-Mag Multi function Tool 90° Point

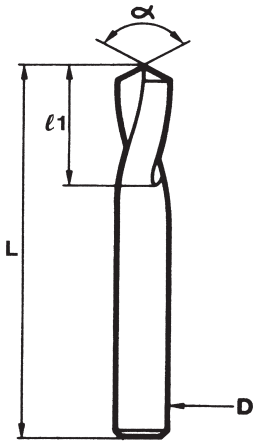
Hss-Co Red-X Coated

D	D"	L	ℓ1	T	Price £
3	1/8	50	6	0.3	11.55
4		52	8	0.4	12.00
5	3/16	60	10	0.5	12.75
6		66	12	0.6	14.00
	1/4	66	12	0.6	15.25
8	5/16	79	14	0.8	16.50
10	3/8	89	16	1	18.95
12		102	18	1.2	26.70
	1/2	102	19	1.3	27.90
14		115	21	1.4	36.35
16	5/8	115	24	1.6	38.15



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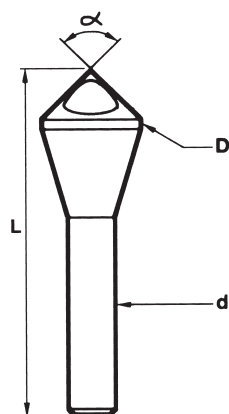


Imperial sizes

Code 0411: 90° HSS M35 (5%) Cob

Code 0414: 82° HSS M35 (5%) Cob

Code 0412: 60° HSS M35 (5%) Cob



No.	D"	d"	L	90° 82° Price £	60° Price £
0	1/4	1/4	45	10.15	16.80
1	7/16	1/4	45	8.30	12.70
2	9/16	1/4	50	11.20	16.65
3	13/16	1/2	66	20.30	32.50
4	1 3/16	1/2	90	42.65	68.95

* Double end

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

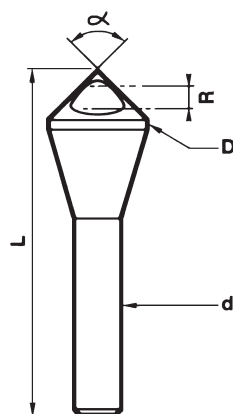
Taps
Dies

TUSA
Carbide Tooling

Metric sizes

Code 0411: 90° HSS M35 (5%) Cob

Code 4811: 90° HSS M35 (5%) Cob TiN coated



D	R	d	L	M35 Price £	TiN Price £
5	2 - 5	6	45	7.90	13.85
10	4 - 9	6	45	9.10	13.85
15	6 - 14	6 - 8	48 - 55	10.80	18.60
20	8 - 18	10	65	21.85	30.45
25	10 - 23	12	78	26.20	45.60
28	11 - 26	12	86	33.50	57.90
30	12 - 28	12	88	35.30	63.25
35	14 - 33	15	116	49.95	73.85
40	16 - 38	16	136	82.45	93.95
50	20 - 48	16	136	113.15	132.45
D	R	MTS	L	M35 Price £	TiN Price £
63	26-60	3	182	160.55	-
80	32-77	4	229	297.45	-

COUNTERSINKS

3 Flute

90°

COUNTERBORES

Code 0431: HSS M35 (5%) Cob

Code 0436: HSS M42 (8%) Cob

Code 4831: HSS M35 (5%) Cob TiN coated

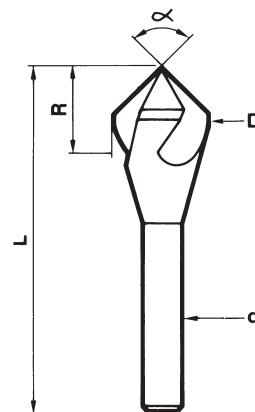
Code 4936: HSS M42 (8%) Cob Futura coated

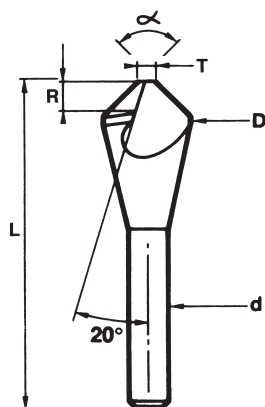
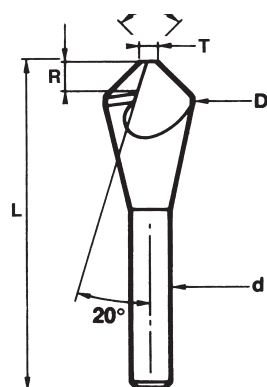


for Quality & Service

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D	R	Screw Ø	d	L	M35 Price £	M42 Price £	M35 TiN Price £	M42 TiCN Price £
4.3	1.3-4.3	M2	4	40	7.85	-	-	-
5	1.5-5.0		4	40	7.85	-	-	-
5.3	1.5-5.3	M2.5	4	40	7.85	-	-	-
5.8	1.5-5.8		5	45	10.55	-	-	-
6	1.5-6.0		5	45	7.85	-	-	-
6.3	1.5-6.3	M3	5	45	7.85	16.20	13.00	19.90
7	1.8-7.0		6	50	9.00	-	-	-
7.3	1.8-7.3	M3.5	6	50	9.00	-	-	-
8	2.0-8.0		6	50	9.00	-	-	-
8.3	2.0-8.3	M4	6	50	9.00	18.65	15.50	24.10
9	2.2-9.0		6	50	9.00	-	-	-
9.4	2.2-9.4	M4.5	6	50	9.00	-	-	-
10	2.5-10.0		6	50	9.00	-	-	-
10.4	2.5-10.4	M5	6	50	9.00	21.85	17.45	27.20
11.5	2.5-11.5		8	56	10.80	-	-	-
12	2.8-12.0		8	56	10.80	-	-	-
12.4	2.8-12.4	M6	8	56	10.80	25.35	20.15	31.30
13.4	2.8-13.4		8	56	19.80	-	-	-
14.4	2.9-14.4		8	56	10.80	-	-	-
15	3.2-15.0		10	60	10.80	-	-	-
16.5	3.2-16.5	M8	8	55	10.80	32.70	24.95	39.25
19	3.5-19.0		10	60	17.05	-	-	-
20.5	3.5-20.5	M10	10	63	17.05	41.95	31.30	50.10
23	3.8-23.0		10	63	26.95	-	-	-
25	3.8-25.0	M12	10	67	26.15	48.50	40.10	57.50
26	3.8-26.0		10	67	34.60	-	-	-
28	3.8-28.0		12	67	32.40	-	-	-
30	4.0-30.0		12	71	41.25	-	-	-
31	4.2-31.0		12	71	37.15	81.65	57.90	93.10
Tri Flat Shank								
35	7.0-35.0		16	103	49.90	-	94.75	-
40	8.0-40.0		16	118	87.60	-	120.95	-
50	10.0-50.0		16	126	120.85	-	166.00	-
63	10.0-63.0		16	140	168.55	-	232.35	-
80	14.0-80.0		16	166	315.90	-	418.25	-





30°

Code 0426: HSS M35 (5%) Cob

D	R	d	L	T	Price £
10	6-10	6	49	5.50	30.45
15	9-15	8	61	8.50	42.75
20	12-20	10	72	11.00	77.15
25	14-25	12	87	13.50	120.15
30	17-30	12	94	16.50	169.30

45°

Code 0427: HSS M35 (5%) Cob

D	R	d	L	T	Price £
6	3 - 6	6	43	2.0	26.80
10	4 - 10	6	49	3.0	30.45
15	5 - 15	8	61	4.5	42.75
20	7 - 20	10	72	6.0	77.15
25	8 - 25	12	87	7.5	120.15
30	10 - 30	12	94	9.0	169.30

60°

Code 0422: HSS M35 (5%) Cob

D	R	d	L	Price £
6	1 - 6	6	43	10.50
10	1 - 10	6	49	12.45
12	2 - 12	8	53	14.35
15	2 - 15	8	60	16.80
20	2 - 20	10	72	29.05
25	3 - 25	12	87	46.45
30	3 - 30	12	98	65.25

82°

Code 0424: HSS M35 (5%) Cob

D	R	d	L	Price £
6	1 - 6	6	41	10.50
10	1 - 10	6	46	12.45
12	2 - 12	8	50	14.35
15	2 - 15	8	56	16.80
20	2 - 20	10	65	29.05
25	3 - 25	12	78	46.45
30	3 - 30	12	88	65.25

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Countersinks
Single Flute

TOOLEX

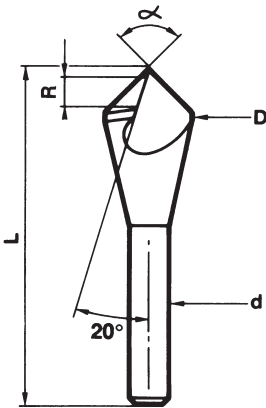
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90°
Code 0421: HSS M35 (5%) Cob

D	R	d	L	Price £
4	1 - 4	4	40	6.45
5	1 - 5	5	40	6.80
6	1 - 6	6	40	7.15
8	1 - 8	6	40	7.85
10	1 - 10	6	45	8.60
12	2 - 12	8	50	10.05
15	2 - 15	8	55	10.80
20	2 - 20	10	65	18.90
25	3 - 25	12	78	26.20
30	3 - 30	12	88	35.30
35	4 - 35	16*	110	58.15
40	5 - 40	16*	115	71.00
50	12 - 50	16*	120	97.85

*Tri Flat Shank



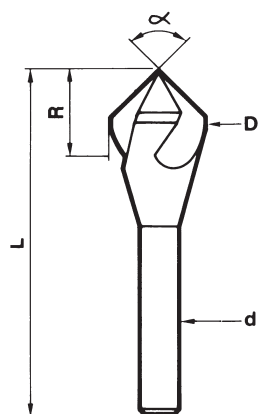
100°
Code 0425: HSS M35 (5%) Cob

D	R	d	L	Price £
10	1 - 10	6	44	14.35
12	2 - 12	8	48	18.20
15	2 - 15	8	54	20.40
20	2 - 20	10	63	36.40
25	3 - 25	12	76	55.85
30	3 - 30	12	85	80.00

120°
Code 0423: HSS M35 (5%) Cob

D	R	d	L	Price £
10	1 - 10	6	43	14.35
12	2 - 12	8	46	18.20
15	2 - 15	8	52	20.40
20	2 - 20	10	61	36.40
25	3 - 25	12	73	55.85
30	3 - 30	12	82	80.00

Code 8431: Also available in Hard X



D		d*	L	Price £
4.3	1.3 - 4.3	4	40	41.10
5.3	1.5 - 5.3	4	40	44.40
6.3	1.5 - 6.3	5	45	47.65
8.3	2.5 - 8.3	6	50	55.45
10.4	2.5 - 10.4	6	50	61.20
12.4	3 - 12.4	8*	56	66.10
16.5	4 - 16.5	10*	60	74.30
20.5	4 - 20.5	10*	63	107.85
25	5 - 25.0	10*	67	141.45
31	6 - 31.0	12*	71	189.75

* Tri flat

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

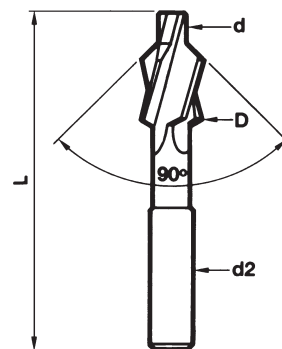
TUSA
Carbide Tooling

Piloted Countersinks DIN 1866

90°

Code 0032: HSS M35 (5%) Cob

Size	D x d	L	d2	Price £
M1.0	2.0 x 1.1	45	D	16.70
M1.2	2.5 x 1.3	45	D	16.70
M1.4	2.8 x 1.5	45	D	13.85
M1.6	3.3 x 1.7	56	D	13.85
M1.8	3.8 x 1.9	56	D	15.15
M2.0	4.3 x 2.2	56	D	15.15
M2.5	5.0 x 2.7	56	D	15.15
M3.0	6.0 x 3.2	71	D	17.45
M3.5	7.0 x 3.7	71	D	18.00
M4.0	8.0 x 4.3	71	D	18.90
M5.0	10.0 x 5.3	80	D	21.45
M6.0	11.5 x 6.4	80	D	25.75
M8.0	15.0 x 8.4	100	12.5	35.20
M10.0	19.0 x 10.5	100	12.5	51.35

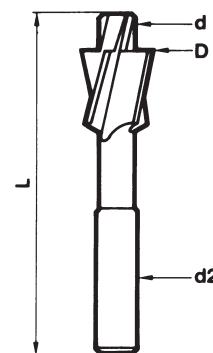


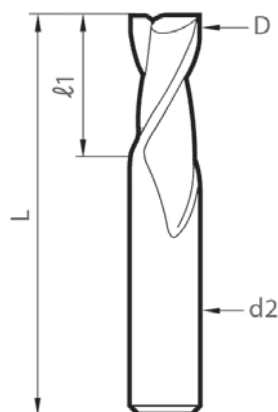
Piloted Counterbores DIN 373

180°

Code 0031: HSS M35 (5%) Cob

Size	D x d	L	d2	Price £
M1.0	2.2 x 1.1	45	D	14.90
M1.2	2.5 x 1.3	45	D	14.90
M1.4	2.8 x 1.5	45	D	13.90
M1.6	3.3 x 1.7	56	D	13.90
M1.7	3.8 x 1.8	56	D	13.90
M2.0	4.3 x 2.2	56	D	13.90
M2.3	4.6 x 2.4	56	D	14.85
M2.6	5.5 x 2.8	71	D	14.85
M3.0	6.0 x 3.2	71	D	15.15
M3.5	6.5 x 3.7	71	D	15.15
M4.0	8.0 x 4.3	71	D	15.30
M5.0	10.0 x 5.3	80	D	17.45
M6.0	11.0 x 6.4	80	D	19.10
M8.0	15.0 x 8.4	100	12.5	26.60
M10.0	18.0 x 10.5	100	12.5	34.55
M12.0	20.0 x 13.0	100	12.5	47.25





Code 500: 2 flute HSS M35 (5%) Cob
0.1 mm increments. Tolerance ± 0.01 mm
0.05 mm increments only in sizes listed

D	D	L	I	d2	Price £
0.1 mm	0.05 mm				
0.3 - 0.4		37	1	3	23.45
0.5 - 0.6		37	1.5	3	23.45
0.7 - 0.8		37	2	4	23.45
0.9		37	2.5	4	23.45
1.0 - 1.1	0.95, 1.05	37	3	4	23.45
1.2 - 1.6	1.25, 1.45, 1.55	37	4	4	23.45
1.7 - 2.2	1.75, 1.95, 2.05	37	5	4	23.45
2.3 - 2.7	2.25	40	7	4	23.45
2.8 - 3.2	2.75, 2.95, 3.05	44	8	5	23.45
3.3 - 3.7	3.25	44	10	5	23.45
3.8 - 4.7	3.95, 4.05	51	12	6	26.60
4.8 - 5.7	4.95, 5.05	52	14	6	26.60
5.8 - 7.7	5.95, 6.05	60	16	8	28.45
7.8 - 8.0		61	18	8	33.90
8.1 - 9.7		69	18	10	36.00
9.8 - 10.0		69	20	10	36.00
10.1 - 11.0		70	22	12	50.50
11.1 - 12.0		79	26	12	50.90
12.1 - 14.0		83	26	12	56.35

Intermediate
2 Flute Slot Drills

4.1

Code 8500: 2 flute Carbide K15 micrgrain
0.1 mm increments.

0.05 mm increments only in sizes listed

Tolerance 0.05 - 0.12 ± 0.005

0.15 - 14.0 h7

D mm	D	L	$\phi 1$	d2	Price £
0.1mm	0.05mm				
	0.05	39	0.1	3	92.85
	0.06	39	0.12	3	79.95
	0.08	39	0.16	3	67.70
0.1		39	0.2	3	56.35
	0.12	39	0.24	3	56.35
	0.15	39	0.3	3	48.00
0.2	0.25	39	0.5	3	40.45
0.3 - 0.4	0.35, 0.45	39	1	3	26.35
0.5		39	1.5	3	20.80
0.6	0.55, 0.65	39	1.5	3	23.65
0.7 - 0.8	0.75, 0.85	39	2	3	22.20
0.9	0.95	39	2.5	3	22.20
1		39	3	3	19.35
1.1	1.05, 1.15	39	3	3	22.20
1.2 - 1.4	1.25	39	4	3	22.20
1.5		39	4	3	19.35
1.6 - 1.9		39	5	3	22.20
2		39	5	3	20.80
2.1 - 2.4		39	6	3	28.45
2.5		39	7	3	25.75
2.6 - 2.9		39	7	3	31.00
3		44	10	4	28.25
3.1 - 3.9		44	10	4	32.85
4		52	12	5	31.00
4.1 - 4.9		52	12	5	34.55
5		52	14	6	33.70
5.1 - 5.9		52	14	6	36.25
6		52	16	6	29.45
6.1 - 7.9		63	18	8	43.20
8		63	20	8	39.00
8.1 - 9.9		72	20	10	57.10
10		72	20	10	52.95
10.1 - 10.9		83	26	12	83.15
11 - 11.9		83	28	12	83.15
12		83	30	12	77.75
12.1 - 12.9		83	30	14	124.40
13 - 14		83	32	14	124.40

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Ball Nose Precision Slot Drills

SLOT DRILLS
END MILLS



for Quality & Service

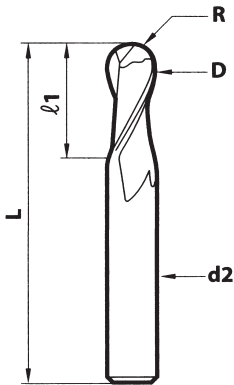
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2 flute Cobalt Ball Nose Slot Drills

0.1 mm / 0.05 mm increments

Tolerance ± 0.01 mm on Radius

Code 529: HSS M35 (5%) Cob



D	L	l1	d2	R	Price £
0.4	37	1	3	0.2	29.10
0.5	37	1.5	3	0.3	29.10
0.6	37	1.5	3	0.3	29.10
0.8	37	2	4	0.4	29.10
1	37	3	4	0.5	29.10
1.2	37	4	4	0.6	29.10
1.4	37	4	4	0.7	29.10
1.5	37	4	4	0.8	29.10
1.6	37	4	4	0.8	29.10
1.8	37	5	4	0.9	29.10
2	52	7	6	1.0	23.85
2.5	52	8	6	1.3	29.10
3	52	8	6	1.5	23.85
4	55	11	6	2.0	23.85
5	57	13	6	2.5	23.85
6	57	13	6	3.0	23.85
8	69	19	10	4.0	28.25
10	72	22	10	5.0	29.95
12	83	26	12	6.0	36.00
14	83	26	12	7.0	45.45
16	92	32	16	8.0	53.45
18	92	32	16	9.0	65.60
20	104	38	20	10.0	68.95

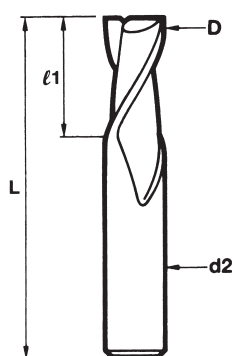
2 Flute Carbide Ball Nose Slot Drills

Code 8529: Carbide K15 micrograin

Tolerance ± 0.01 mm on Radius

D	L	l1	d2	Price £
0.1	39	0.2	3	68.55
0.15	39	0.3	3	58.45
0.2	39	0.5	3	52.60
0.25	39	0.5	3	50.05
0.3	39	1	3	43.35
0.35	39	1	3	41.25
0.4	39	1	3	32.25
0.5	39	1.5	3	29.30
0.6	39	1.5	3	28.45
0.7	39	2	3	29.95
0.8	39	2	3	28.45
0.9	39	2.5	3	29.30
1	39	3	3	27.85
1.1	39	3	3	28.45
1.2	39	4	3	28.45
1.4	39	4	3	28.45
1.5	39	4	3	27.85
1.6	39	4	3	28.45
1.8	39	5	3	28.45
2	39	5	3	27.85
2.5	39	7	3	34.35
3	44	10	4	34.55
3.5	44	10	4	42.50
4	52	12	5	35.40
4.5	52	12	5	44.40
5	52	14	6	39.15
5.5	52	14	6	46.30

Code 8507: 0.1 mm increments
Tolerance 0-0.01mm

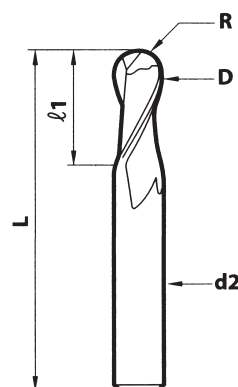


2 Flute Carbide Ball Nose Slot Drills Stub Length

Code 8527: Carbide K15 micrograin
Tolerance $R \pm 0.01$ mm

D	L	ℓ_1	d2	R	Price £
0.1	39	0.1	3	0.05	68.55
0.15	39	0.2	3	0.075	58.45
0.2	39	0.3	3	0.1	52.60
0.25	39	0.35	3	0.125	50.05
0.3	39	0.45	3	0.15	43.35
0.4	39	0.6	3	0.2	32.25
0.5	39	0.75	3	0.25	29.30
0.6	39	0.9	3	0.3	28.45
0.7	39	1.05	3	0.4	29.95
0.8	39	1.2	3	0.4	28.45
0.9	39	1.35	3	0.5	29.30
1	39	1.5	3	0.5	27.85
1.2	39	1.8	3	0.6	28.45
1.5	39	2.25	3	0.75	27.85
2	39	3	3	1	27.85

D	L	ℓ_1	d2	Price £
0.1	39	0.1	3	56.35
0.15	39	0.2	3	48.00
0.2	39	0.3	3	40.45
0.25	39	0.35	3	40.45
0.3	39	0.45	3	26.35
0.4	39	0.6	3	26.35
0.5	39	0.75	3	20.80
0.6	39	0.9	3	23.65
0.7	39	1.05	3	22.20
0.8	39	1.2	3	22.20
0.9	39	1.35	3	22.20
1	39	1.5	3	19.35
1.1	39	1.65	3	22.20
1.2	39	1.8	3	22.20
1.3	39	1.95	3	22.20
1.4	39	2.1	3	22.20
1.5	39	2.25	3	19.35
1.6	39	2.4	3	22.20
1.7	39	2.55	3	22.20
1.8	39	2.7	3	22.20
1.9	39	2.85	3	22.20
2	39	3	3	20.80



Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

3 flute HSS M42 (8%) Cob
0.01mm increments

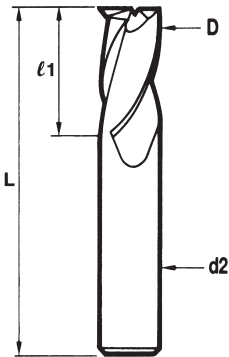
D	d2	ℓ1	L	Price £
1.50 - 2.36	6	7	51	21.45
2.37 - 3.00	6	8	52	17.90
3.01 - 3.75	6	10	54	17.90
3.76 - 4.00	6	11	55	17.90
4.01 - 4.75	6	11	55	17.90
4.76 - 5.00	6	13	57	17.90
5.01 - 6.00	6	13	57	19.40
6.01 - 7.50	10	13	66	22.45
7.51 - 8.00	10	16	69	22.45
8.01 - 9.50	10	19	69	26.25
9.51 - 10.00	10	22	72	26.25
10.01 - 11.80	12	22	79	31.35
11.81 - 12.00	12	26	83	31.35
12.01 - 14.00	12	26	83	46.00
14.01 - 15.00	12	26	83	51.40
15.01 - 18.00	16	32	92	71.70
18.01 - 19.00	16	32	92	80.30
19.01 - 20.00	20	38	104	80.30

Delivery approx. 10 days.
Minimum order value £50



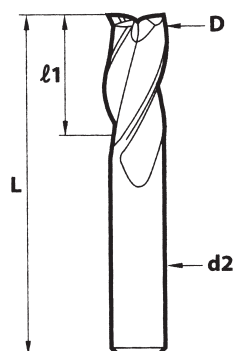
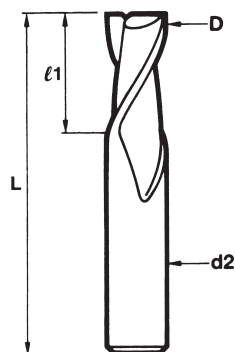
for Quality & Service

www.toolex.co.uk



Code 523: 2 flute HSS M42 (8% Cob)

Code 533: 3 flute HSS M42 (8% Cob)



D	L	ℓ1	d2	2 Flute Price £	3 Flute Price £
1	49	3	6	22.60	-
1.5	49	4	6	14.00	-
2	49	4	6	10.90	13.60
2.5	49	5	6	10.90	13.60
3	49	5	6	10.90	13.60
3.5	52	6	6	11.75	15.25
4	52	7	6	10.90	13.60
4.5	52	7	6	12.65	15.25
5	52	8	6	10.90	13.60
5.5	52	8	6	13.00	17.85
6	52	8	6	11.15	14.40
6.5	61	10	10	17.10	-
7	61	10	10	15.95	23.00
7.5	61	10	10	17.10	-
8	61	11	10	14.00	17.00
8.5	61	11	10	18.70	-
9	61	11	10	16.35	24.70
9.5	61	11	10	18.70	-
10	63	13	10	14.75	17.85
10.5	70	13	12	21.30	-
11	70	13	12	21.30	26.60
11.5	70	13	12	22.60	-
12	73	16	12	18.30	22.20
12.5	73	16	12	26.15	-
13	73	16	12	26.15	33.50
13.5	73	16	12	29.95	-
14	73	16	12	25.95	28.25
14.5	73	16	12	31.60	-
15	73	16	12	29.50	35.20
15.5	79	19	16	33.50	-
16	79	19	16	26.60	32.45
16.5	79	19	16	49.65	-
17	79	19	16	36.85	48.00
17.5	79	19	16	52.60	-
18	79	19	16	33.50	39.40
18.5	79	19	16	61.00	-
19	79	19	16	44.60	55.10
19.5	88	22	20	65.60	-
20	88	22	20	36.00	45.45
22	88	22	20	68.10	-
25	102	26	25	81.95	-
32	112	32	32	139.00	-

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Slot Drills DIN 844
Long series

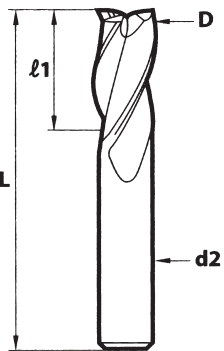
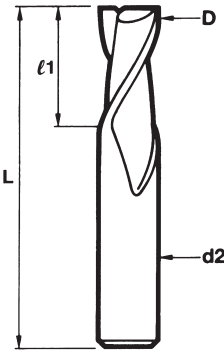
Code 524: 2 flute HSS M42 (8%) Cob
Code 534: 3 flute HSS M42 (8%) Cob



for Quality & Service

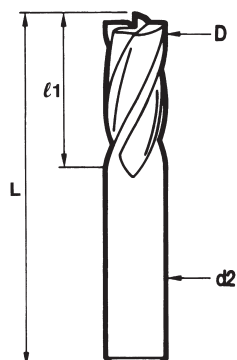
www.toolex.co.uk

D	L	ℓ1	d2	2 Flute Price £	3 Flute Price £
1	52	3	6	26.15	27.40
1.5	52	5	6	15.10	16.10
2	52	7	6	13.10	14.40
2.5	52	8	6	12.55	14.40
3	52	8	6	12.55	14.40
3.5	55	10	6	15.10	17.00
4	55	11	6	12.55	14.40
4.5	55	11	6	15.10	17.00
5	57	13	6	12.55	14.40
5.5	57	13	6	16.95	18.70
6	57	13	6	12.90	15.25
6.5	66	16	10	20.45	-
7	66	16	10	20.45	24.70
7.5	66	16	10	20.45	24.70
8	69	19	10	15.75	17.85
8.5	69	19	10	23.00	-
9	69	19	10	23.00	26.60
9.5	69	19	10	18.05	26.60
10	72	22	10	26.60	19.60
10.5	79	22	12	26.60	-
11	79	22	12	26.60	28.25
11.5	79	22	12	26.60	28.25
12	83	26	12	21.45	23.85
12.5	83	26	12	33.50	-
13	83	26	12	33.50	35.20
13.5	83	26	12	33.50	35.20
14	83	26	12	27.85	29.95
14.5	83	26	12	38.55	-
15	83	26	12	35.20	37.70
15.5	92	32	16	44.60	-
16	92	32	16	31.60	35.20
17	92	32	16	51.75	54.25
18	92	32	16	44.60	46.30
19	92	32	16	59.30	61.00
20	104	38	20	45.45	47.15
22	104	38	20	90.35	90.35
25	121	45	25	116.35	116.35
28	121	45	25	144.05	144.05
30	121	45	25	165.00	165.00
32	133	53	32	196.05	196.05



Slot Drills

Code 544: 4 flute HSS M42 (8%) Cob



D	L	ℓ1	d2	Price £
1	52	3	6	31.60
1.5	52	5	6	18.70
2	52	7	6	13.60
2.5	52	8	6	13.60
3	52	8	6	17.85
3.5	55	10	6	17.85
4	55	11	6	13.60
4.5	55	11	6	17.85
5	57	13	6	13.60
5.5	57	13	6	18.70
6	57	13	6	14.40
7	66	16	10	20.45
8	69	19	10	17.85
9	69	19	10	20.45
10	72	22	10	18.70
11	79	22	12	24.70
12	83	26	12	22.20
13	83	26	12	31.60
14	83	26	12	29.95
15	83	26	12	34.35
16	92	32	16	31.60
17	92	32	16	61.00
18	92	32	16	42.95
19	92	32	16	61.00
20	104	38	20	42.95
22	104	38	20	82.80
25	121	45	25	104.60
28	121	45	25	119.70
30	121	45	25	128.95

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling



for Quality & Service

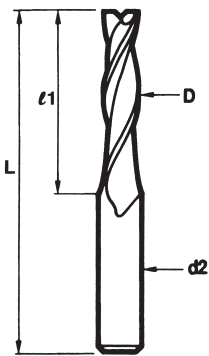
www.toolex.co.uk

Code 510: 2 flute HSS M35 (5%) Cob

D	L	Ø1	d2	HSS Price £
1.0	40	8	4	49.65
1.5	40	10	4	45.45
2.0	47	15	4	43.35
2.5	51	18	4	43.35
3.0	61	25	5	44.60
4.0	70	30	6	45.45
5.0	73	35	6	46.30
6.0	80	35	8	47.55
8.0	83	40	8	54.70
10.0	95	45	10	63.50

Code 8510: 2 flute Carbide K15 micrograin

D	L	Ø1	d2	Carbide Price £
0.5	39	4	3	42.95
0.6	39	5	3	41.45
0.8	39	6	3	40.65
1.0	39	8	3	42.95
1.2	39	9	3	44.60
1.5	44	12	4	52.15
2.0	44	16	4	54.25
2.5	60	20	5	65.15
3.0	60	24	5	67.70
4.0	75	32	6	68.55
5.0	75	40	6	69.35
6.0	80	48	8	70.20



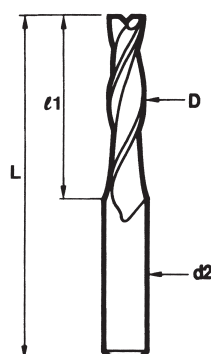
Code 8509 : 2 flute Carbide K15 micrograin

D	L	Ø1	d2	Carbide Price £
0.3	39	0.5	3	38.75
0.4	39	2	3	36.00
0.5	39	2.5	3	32.45
0.6	39	3	3	31.60
0.7	39	3.5	3	31.00
0.8	39	4	3	30.15
0.9	39	4.5	3	30.15
1.0	39	5	3	30.15
1.2	39	6	3	30.15
1.5	39	7.5	3	30.15
2.0	39	10	3	30.15
2.5	45	12.5	3	30.15
3.0	46	15	4	30.15

Code 527: 2 Flute HSS M42 (8%) Cob

Code 537: 3 Flute HSS M42 (8%) Cob

Code 547: 4 Flute HSS M42 (8%) Cob

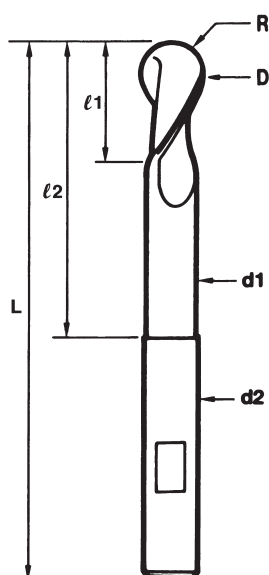


D	L	l1	d2	2 Flute Price £	3 Flute Price £	4 Flute Price £
3	56	12	6	22.20	21.30	19.60
4	63	19	6	22.20	21.30	19.60
5	68	24	6	23.85	23.00	22.20
6	68	24	6	23.85	24.70	23.85
8	88	38	10	26.60	27.40	24.70
10	95	45	10	29.10	29.10	29.10
12	110	53	12	36.00	34.35	34.35
14	110	53	12	42.95	41.25	38.55
15	110	52	12	54.25	51.75	-
16	123	63	16	54.25	51.75	53.45
18	123	63	16	66.45	61.00	62.65
20	135	75	16	73.15	68.10	68.10

Ball Nose Slot Drills

Long and Extra Long

Code 520: 2 flute HSS M35 (5%) Cob



D	L	l1	l2	d1	d2	R	Price £
1	49	2	5	0.95	6	0.5	40.45
1.5	49	3	7	1.45	6	0.75	38.55
2	52	4	10	1.93	6	1	36.45
2.5	55	5	12	2.43	6	1.3	34.55
3	57	6	15	2.93	6	1.5	34.55
4	70	8	20	3.9	6	2	36.45
5	80	10	25	4.9	8	2.5	42.50
6	90	12	30	5.9	8	3	44.60
7	100	14	35	6.9	10	3.5	56.35
8	100	16	40	7.9	10	4	53.45
9	100	18	45	8.9	10	4.5	58.45
10	100	20	50	9.9	10	5	55.55

Extra Long Series

Code 521: 2 flute HSS M35 (5%) Cob

D	L	l1	l2	d2	R	Price £
6	180	25	130	6	3.0	70.20
8	180	25	130	6	4.0	74.40
10	200	30	150	10	5.0	86.15
12	200	30	150	12	6.0	90.35
16	200	30	150	16	8.0	130.60

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

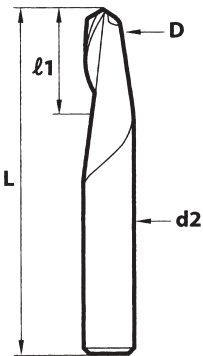
Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

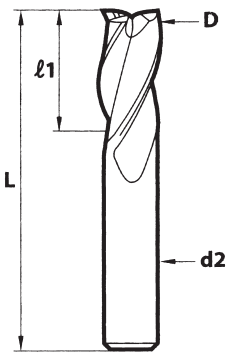
**Code 8515: Miniature Single Flute Router
Carbide K15 micrograin**

D	L	ℓ1	d2	Price £
0.5	39	1.5	3	26.60
0.6	39	1.5	3	28.25
0.8	39	2	3	28.25
1	39	3	3	25.10
1.2	39	4	3	29.10
1.4	39	4	3	29.10
1.5	39	4	3	25.10
1.6	39	4	3	29.10
1.8	39	5	3	29.10
2	39	5	3	27.00
2.5	39	7	3	29.10
3	39	10	3	30.80



**Code 8533: 3 Flute Miniature End Mill
Carbide K15 micrograin**

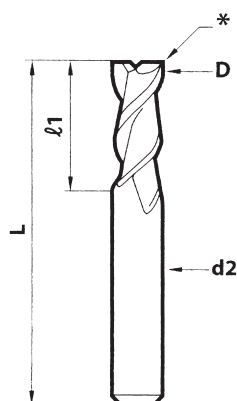
D	L	ℓ1	d2	Price £
0.5	39	1.5	3	26.15
0.6	39	1.5	3	26.15
0.7	39	2	3	26.15
0.8	39	2	3	26.15
0.9	39	2.5	3	26.15
1	39	3	3	23.25
1.1	39	3	3	26.15
1.2	39	4	3	26.15
1.3	39	4	3	26.15
1.4	39	4	3	26.15
1.5	39	4	3	23.25
1.6	39	4	3	26.15
1.7	39	5	3	26.15
1.8	39	5	3	26.15
1.9	39	5	3	26.15
2	39	5	3	24.70
2.1-2.4	39	6	3	33.50
2.5	39	7	3	30.80
2.6-2.9	39	7	3	36.25
3	44	10	4	34.55



**Code 8528 AL: 2 flute Carbide K15 micrograin
Coated**

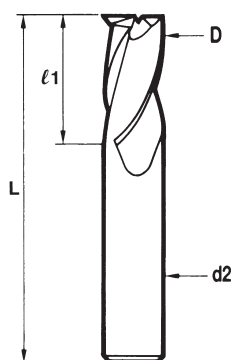
**Alu-Titan Miniature End Mills
2 Flutes 45 deg Spiral**

* Corner Chamfer for improved strength



D	L	l1	d2	Price £
0.5	39	1.5	3	33.30
0.6	39	1.5	3	34.15
0.8	39	2	3	34.95
1	39	3	3	36.65
1.2	39	4	3	37.50
1.5	39	4	3	38.35
2	39	5	3	40.85
2.5	39	7	3	45.05

**Code 8530-H: 2/3 flute Carbide K15 micrograin
Hard Alloys Miniature End Mills
Miniature End Mills 2/3 flute 45°spiral
Hard-X Coated**



D	L	l1	d2	Price £
2 flute				
0.5	39	1.5	3	33.30
0.6	39	1.5	3	34.15
0.8	39	2	3	34.95
3 flute				
1	39	3	3	36.65
1.2	39	4	3	37.50
1.5	39	4	3	38.35
2	39	5	3	40.85
2.5	39	5	3	45.05

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

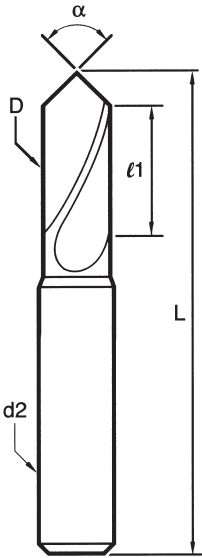
Multi V Carbide Cutters
SLOT DRILLS
END MILLS



Code 8040: 40° Carbide K15 micrograin
Code 8088: 60° Carbide K15 micrograin
Code 8090: 90° Carbide K15 micrograin
Code 8095: 100° Carbide K15 micrograin
Code 8092: 120° Carbide K15 micrograin

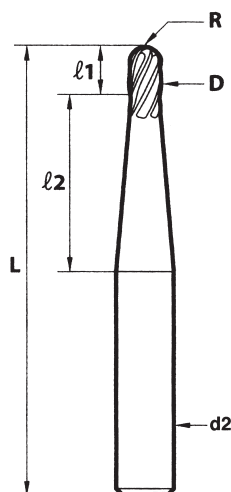
Slot Drills

D	L	I	d2	40 deg Price	60 deg Price	90 deg Price	100 deg Price	120 deg Price
0.5	39	1.0	3	42.10	35.55	22.60	-	-
0.6	39	1.2	3	-	-	22.60	-	-
0.7	39	1.4	3	-	-	22.60	-	-
0.8	39	1.6	3	-	-	22.60	-	-
0.9	39	1.8	3	-	-	22.60	-	-
1.0	39	2	3	-	35.55	22.60	-	31.95
1.2	39	2.4	3	-	-	22.60	-	-
1.4	39	2.8	3	-	-	22.60	-	-
1.5	39	3	3	-	35.55	22.60	-	31.95
1.6	39	3.2	3	-	-	22.60	-	-
1.8	39	3.6	3	-	-	22.60	-	-
2.0	39	4	3	-	35.55	22.60	-	31.95
2.5	39	5	3	-	36.55	23.55	-	32.75
3.0	50	6	4	-	48.10	29.80	-	42.50
4.0	50	8	5	-	49.30	30.95	-	44.10
3/16"	50	9.5	6.35	-	-	35.90	-	-
5.0	50	10	6	-	56.90	35.90	-	50.90
6.0	60	12	8	-	64.10	39.50	85.25	57.30
1/4"	60	12	7.93	-	-	42.70	-	-
5/16"	70	16	9.52	-	-	54.15	-	-
8.0	70	16	10	-	93.25	54.85	-	84.45
3/8"	70	19	12.7	-	-	79.00	-	-
10.0	70	18	12	-	107.65	68.35	158.80	106.05
12.0	70	20	12	-	107.65	77.25	-	106.05
1/2"	70	20	12.7	-	-	80.95	-	-
5/8"	80	25	15.87	-	-	96.25	-	-
16.0	80	26	16	-	158.00	98.00	233.90	156.40
20.0	100	32	20	-	283.40	170.40	-	277.85



Code 8549: 4 Flute Carbide K15 micrograin

Code 8569: 6 Flute Carbide K15 micrograin



D	L	ℓ1	d2	R	Price £
4 Flute					
1	50	1.5	1	0.5	50.50
1.5	50	2.25	1.5	0.75	47.55
2	50	3	2	1	45.05
2.5	50	3.75	2.5	1.25	47.55
3	50	4.5	3	1.5	50.05
6 Flute					
D	L	ℓ1	d2	R	Price £
3	150	4.5	60	6	99.55
4	150	6	60	6	100.40
5	150	7.5	60	6	102.95
6	150	9	60	6	108.80

Miniature Ball Nose Taper End Mills

Code 8501: 1° Short series Carbide K15

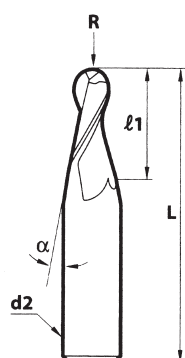
Code 8503: 1°30' Short series Carbide K15

Code 8505: 2° Short series Carbide K15

Code 8502: 1° Long series Carbide K15

Code 8504: 1°30' Long series Carbide K15

Code 8506: 2° Long series Carbide K15



Short Series		Code		8501	8503	8505
R	L	ℓ1	d2	Price £ Angle 1°	Price £ Angle 1° 30'	Price £ Angle 2°
0.5	39	4	3	57.60	57.60	57.60
0.75	39	6	3	60.55	60.55	60.55
1	39	8	3	63.50	63.50	63.50
1.25	44	10	4	75.65	75.65	75.65
1.5	44	12	4	77.35	77.35	77.35
2	52	16	5	80.70	80.70	80.70
Long Series		Code		8502	8504	8506
R	L	ℓ1	d2	Price £ Angle 1°	Price £ Angle 1° 30'	Price £ Angle 2°
1	50	12	4	81.55	81.55	81.55
1.5	60	18	5	92.00	92.00	92.00
2	75	24	6	102.95	102.95	102.95

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Precision Slot Drill
with Back Clearance
Carbide K15 micrograin

8507 -D

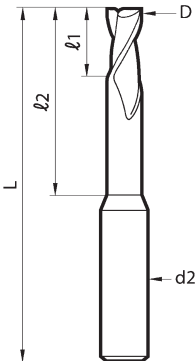
Also available in Graph X and Hard X

D x ℓ 2	L	ℓ 1	d2	Price £
0.4 x 2	39	0.60	3	32.45
0.5 x 2	39	0.75	3	32.45
0.5 x 4	39	0.75	3	32.45
0.5 x 6	60	0.75	3	49.25
0.6 x 4	39	0.90	3	32.45
0.7 x 4	39	1.05	3	32.45
0.8 x 4	39	1.20	3	32.45
0.8 x 6	39	1.20	3	40.85
0.8 x 9	60	1.20	3	49.25
0.9 x 6	39	1.35	3	40.85
1.0 x 4	39	1.50	3	32.45
1.0 x 6	39	1.50	3	32.45
1.0 x 9	39	1.50	3	40.85
1.0 x 12	60	1.50	3	49.25
1.2 x 6	39	1.80	3	32.45
1.2 x 9	39	1.80	3	40.85
1.4 x 6	39	2.10	3	32.45
1.4 x 9	39	2.10	3	40.85
1.5 x 6	39	2.25	3	32.45
1.5 x 9	39	2.25	3	40.85
1.5 x 12	60	2.25	3	49.25
1.8 x 9	39	2.70	3	40.85
1.8 x 12	39	2.70	3	42.30
2.0 x 9	39	3.00	3	40.85
2.0 x 12	39	3.00	3	42.30
2.0 x 15	60	3.00	3	49.25
2.5 x 15	60	3.75	3	49.25



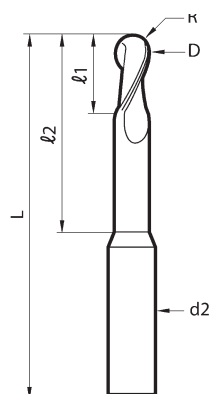
for Quality & Service

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8527-D

Also available in Graph X and Hard X



D x l2	L	l1	d2	R	Price £
0.4 x 2	39	0.6	3	0.2	39.40
0.5 x 2	39	0.75	3	0.25	39.40
0.5 x 4	39	0.75	3	0.25	39.40
0.5 x 6	60	0.75	3	0.25	57.60
0.6 x 4	39	0.9	3	0.3	39.40
0.8 x 4	39	1.2	3	0.4	39.40
0.8 x 6	39	1.2	3	0.4	49.25
0.8 x 9	60	1.2	3	0.4	57.60
1.0 x 4	39	1.5	3	0.5	39.40
1.0 x 5	39	1.5	3	0.5	39.40
1.0 x 6	39	1.5	3	0.5	39.40
1.0 x 9	39	1.5	3	0.5	49.25
1.0 x 12	60	1.5	3	0.5	57.60
1.2 x 6	39	1.8	3	0.6	39.40
1.4 x 7	44	2.1	4	0.7	49.25
1.5 x 6	39	2.25	3	0.75	39.40
1.5 x 7.5	44	2.25	4	0.75	49.25
1.5 x 9	39	2.25	3	0.75	49.25
1.5 x 12	60	2.25	4	0.75	57.60
1.6 x 8	44	2.4	4	0.8	54.70
1.8 x 9	44	2.7	3	0.9	54.70
2.0 x 9	39	3	3	1	49.25
2.0 x 10	44	3	4	1	54.70
2.0 x 12	39	3	3	1	49.25
2.0 x 15	60	3	3	1	57.60
2.5 x 12	44	3.75	4	1.25	54.70
2.5 x 15	60	3.75	3	1.25	57.60
3.0 x 15	44	4.5	4	1.5	57.60

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Miniature Carbide Corner Rounding Cutters

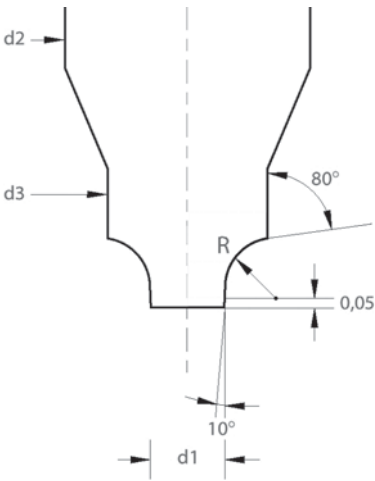
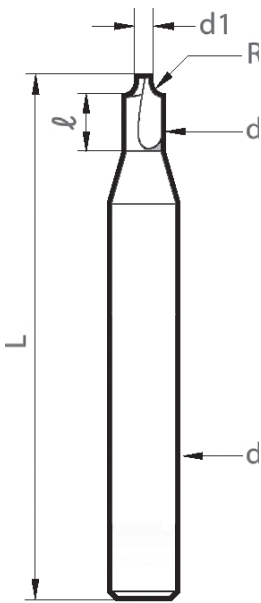
Code 8550 : K15 micrograin Tolerance $\pm 0.02m$
Also available in Graph X and Hard X



for Quality & Service

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R	d1	d2	d3	l	L	Price
0.1	0.5	3	0.8	2.5	50	42.10
0.15	0.5	3	0.9	2.5	50	42.10
0.2	0.5	3	1	2.5	50	42.10
0.25	0.5	3	1	2.5	50	40.20
0.3	0.5	3	1.2	2.5	50	40.20
0.4	0.5	3	1.4	2.5	50	40.20
0.5	0.5	3	1.6	2.5	50	40.20
0.6	0.5	3	1.8	3	50	40.20
0.7	0.5	3	2.1	3	50	40.20
0.75	0.5	3	2.1	3	50	40.20
0.8	0.8	3	2.5	4	50	40.20
0.9	0.8	3	2.9	4	50	40.20
1	0.8	3	2.9	4	50	40.20
1.25	0.8	4	3.4	4	50	49.65
1.5	1.5	5	4.6	6	50	49.65
1.75	1.5	6	5.6	6	50	49.65
2	1.5	6	5.6	8	50	49.65
2.25	1.5	8	6.6	10	50	61.00
2.5	1.5	8	6.6	10	50	61.00
3	1.5	8	6.6	10	50	61.00
4	1.9	10	10		55	87.85
5	1.9	10	12		63	97.05



2nd CHOICE = GOOD 😐

3rd CHOICE = SUITABLE ○

CHAMFER:

FORM A = 6 - 7 THREADS

FORM B = 4 - 5 THREADS

FORM C = 2 - 3 THREADS

FORM D = 3.5 - 5 THREADS

[illegible]

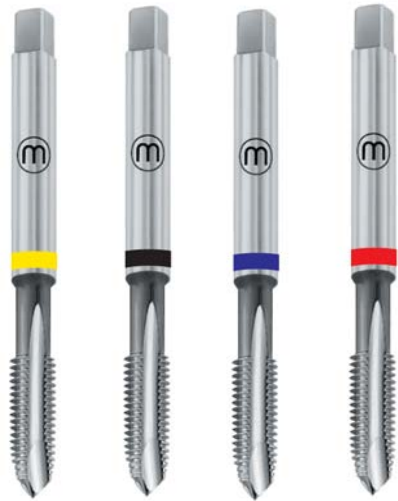
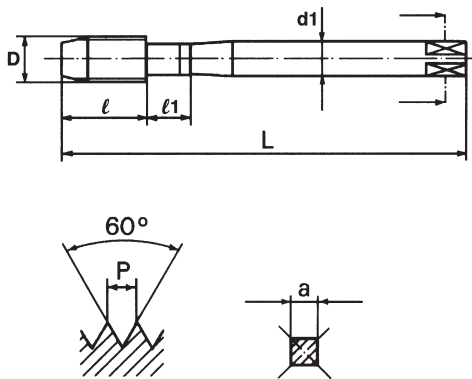
Ground Thread Taps
DIN 371/376
Spiral Point Metric

TAPS & DIES



for Quality & Service

www.toolex.co.uk

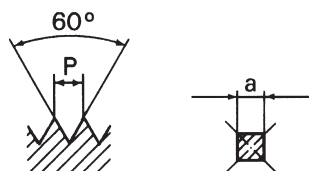
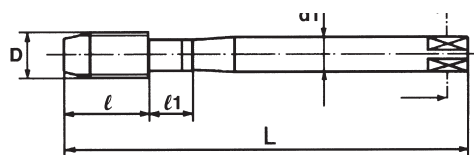


- 105/4: Yellow Ring: HSS M2
- 105/4: Black Ring: HSS M35 (5%) Cob
- 105/4: Blue Ring: HSS M35 (5%) Cob (Steam Vapour)
- 105/4: Red Ring: HSS M42 (8%) Cob (Special Geometry)

D	P	L	ℓ	ℓ1	d1	a	Yellow Price £	Black Price £	Blue Price £	Red Price £
M2	0.4	45	8		2.8	2.1	21.55	21.55	23.30	27.10
M2.5	0.45	50	9		2.8	2.1	15.10	15.10	16.75	21.90
M3	0.5	56	11	7	3.5	2.7	13.05	13.05	14.50	15.15
M4	0.7	63	13	8	4.5	3.4	13.05	13.05	14.50	15.15
M5	0.8	70	16	9	6	4.9	13.50	13.50	15.05	15.40
M6	1	80	19	11	6	4.9	13.50	13.50	15.05	15.40
M8	1.25	90	22	13	8	6.2	14.95	14.95	16.40	17.45
M10	1.5	100	24	15	10	8	17.80	17.80	19.85	20.90
M12	1.75	110	29		9	7	22.95	22.95	25.05	26.75
M14	2	110	30		11	9	32.60	32.60	35.35	38.10
M16	2	110	32		12	9	39.50	39.50	42.95	45.70
M18	2.5	125	34		14	11	47.75	47.75	52.55	56.00
M20	2.5	140	34		16	12	50.50	50.50	54.65	58.10
M22	2.5	160	34		18	14.5	-	66.35	72.55	78.05
M24	3	160	38		18	14.5	-	74.60	78.75	87.70
M27	3	180	38		20	16	-	102.85	113.15	120.75
M30	3.5	180	45		22	18	-	132.45	146.20	148.25
M33	3.5	200	50		25	20	-	153.75	-	-
M36	4	200	56		28	22	-	172.35	-	-
M39	4	200	60		32	24	-	204.05	-	-
M42	4.5	200	60		32	24	-	221.95	-	-
M45	4.5	220	65		36	29	-	257.75	-	-
M48	5	250	70		36	29	-	307.30	-	-

DIN 371 up to M10
DIN 376 from M12

Taps & Dies



131/3: Yellow Ring: HSS M2

131/3: Black Ring: HSS M35 (5%) Cob

131/3: Blue Ring: HSS M35 (5%) Cob (Steam Vapour)

131/3: Red Ring: HSS M42 (8%) Cob (Special Geometry)

D	P	L	ℓ	ℓ1	d1	a	Yellow Price £	Black Price £	Blue Price £	Red Price £
M2	0.4	45	8		2.8	2.1	24.00	24.00	27.10	28.45
M2.5	0.45	50	9		2.8	2.1	18.45	18.45	20.55	21.90
M3	0.5	56	6	11	3.5	2.7	14.55	15.25	16.05	17.10
M4	0.7	63	7.5	13	4.5	3.4	14.55	15.25	16.05	17.10
M5	0.8	70	9	16	6	4.9	15.15	15.15	16.75	17.45
M6	1	80	11	18	6	4.9	15.15	15.15	16.75	17.45
M8	1.25	90	13	21	8	6.2	16.40	16.40	18.15	19.15
M10	1.5	100	16	22	10	8	20.90	20.90	22.95	24.00
M12	1.75	110	18		9	7	27.80	27.80	30.20	32.60
M14	2	110	20		11	9	34.65	34.65	38.10	40.85
M16	2.5	110	20		12	9	40.20	40.20	43.60	46.35
M18	2.5	125	22		14	11	49.80	49.80	54.65	57.40
M20	2.5	140	25		16	12	52.55	52.55	56.70	61.50
M22	2.5	140	25		18	14.5	-	76.65	84.25	89.75
M24	3	160	28		18	14.5	-	78.05	86.30	92.50
M27	3	160	32		20	16	-	108.35	118.65	127.60
M30	3.5	180	36		22	18	-	132.45	152.40	156.55
M33	3.5	180	38		25	20	-	153.75	-	-
M36	4	200	43		28	22	-	172.35	224.00	199.20
M39	4	200	43		32	24	-	204.05	-	-
M42	4.5	200	43		32	24	-	221.95	-	-

DIN 371 up to M10

DIN 376 from M12

Reamers

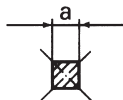
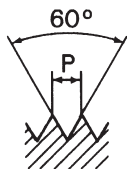
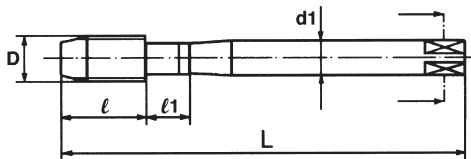
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling



105/4 & 131/3 Yellow Ring: HSS PM Duo
105/4 & 131/3 Black Ring: HSS PM Duo

D	P	L	l	l1	d1	a	Yellow 105/4 Price £	Yellow 131/3 Price £	Black 105/4 Price £	Black 131/3 Price £
M3	0.5	56	11	7	3.5	2.7	26.80	30.65	25.30	30.05
M4	0.7	63	13	8	4.5	3.4	26.75	30.60	25.30	30.10
M5	0.8	70	16	9	6	4.9	31.70	35.70	29.35	33.35
M6	1	80	19	11	6	4.9	31.85	35.80	29.50	33.50
M8	1.25	90	22	13	8	6.2	36.35	40.15	33.60	37.40
M10	1.5	100	24	15	10	8	42.55	48.35	39.75	45.55
M12	1.75	110	29		9	7	53.00	61.65	49.75	58.40
M14	2	110	30		11	9	69.45	74.65	65.95	71.15
M16	2	110	32		12	9	82.80	86.05	78.95	82.15

DIN 371 up to M10

DIN 376 from M12

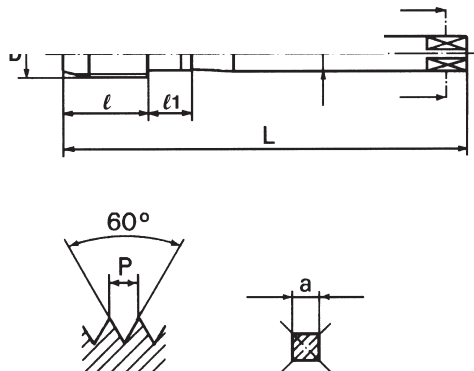
The new Duo Colour Ring Tap from Manigley is a high performance tool made of powder-metallurgy steel with a hard material coating and a recently developed cutting geometry for high tool life.

105/4 - 131/3 Duo Yellow Ring

Wrought alloy of aluminium, wrought alloy of magnesium, aluminium cast alloy Si<5% structural steels up to 1000N/mm², free cutting steels, case hardening steels, heat treatable steels up to 1000 N/mm²

105/4 - 131/3 Duo Black Ring

Structural steels, case hardening steels, heat treatable steels up to 1000 N/mm², carbon tool steels, free cutting steels, Cr stainless steels sulphured etc.



105/4 & 131/3 Blue Ring: HSS PM Duo

105/4 & 131/3 Red Ring: HSS PM Duo

D	P	L	l	l1	d1	a	Blue 105/4 Price £	Blue 131/3 Price £	Red 105/4 Price £	Red 131/3 Price £
M3	0.5	56	11	7	3.5	2.7	26.95	28.95	28.20	30.85
M4	0.7	63	13	8	4.5	3.4	26.95	29.00	28.10	30.80
M5	0.8	70	16	9	6	4.9	30.95	33.30	31.60	34.60
M6	1	80	19	11	6	4.9	31.05	33.40	31.75	34.70
M8	1.25	90	22	13	8	6.2	35.20	37.60	36.85	38.85
M10	1.5	100	24	15	10	8	41.75	46.10	43.35	47.80
M12	1.75	110	29		9	7	52.10	58.90	54.00	62.00
M14	2	110	30		11	9	69.00	72.40	72.55	76.00
M16	2	110	32		12	9	82.80	83.75	86.70	87.70

DIN 371 up to M10

DIN 376 from M12

The new Duo Colour Ring Tap from Manigley is a high performance tool made of powder-metallurgy steel with a hard material coating and a recently developed cutting geometry for high tool life.

105/4 - 131/3 Duo Blue Ring

Cr-Ni stainless steels austenitic, Cr stainless steels ferritic and martensitic, nitriding steels, heat resisting steels, alloy of nickel, Cr stainless steels sulphured, structural steels, case hardening steels, heat treatable steels from 900 N/mm²

105/4 - 131/3 Duo Red Ring

Structural steels, case hardening steels, heat treatable steels, case steels from 900 N/mm², carbon tool steels

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

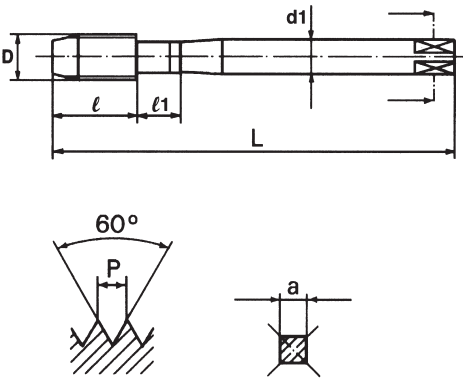
Ground Thread Taps
DIN 371/376
Plug Tap Metric



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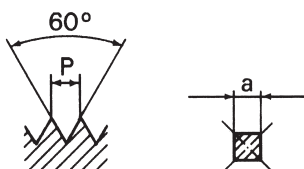
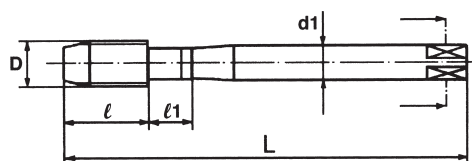
105/3: Ultra Green Ring GG: HSS M35 (5%) Cob
105/3: Ultra Green Ring GG: HSS PM Duo

D	P	L	ℓ	ℓ1	d1	a	Price £	Price £ Duo
M 2	0.4	45	8		2.8	2.1	25.35	-
M 2.5	0.45	50	9		2.8	2.1	18.45	-
M 3	0.5	56	11	7	3.5	2.7	16.05	27.00
M 3.5	0.6	56	13	7	4	3	20.90	27.00
M 4	0.7	63	13	8	4.5	3.4	15.70	30.85
M 4.5	0.75	70	16	9	6	4.9	16.40	31.00
M 5	0.8	70	16	9	6	4.9	18.45	35.70
M 6	1	80	19	11	6	4.9	22.25	42.70
M 7	1	80	19	11	7	5.5	24.00	51.05
M 8	1.25	90	22	13	8	6.2	18.45	66.00
M 10	1.5	100	24	15	10	8	22.25	76.85
M 12	1.75	110	29		9	7	28.45	-
M 14	2	110	30		11	9	38.10	-
M 16	2	110	32		12	9	45.35	-
M 18	2.5	125	34		14	11	57.40	-
M 20	2.5	140	34		16	12	87.67	-

DIN 371 up to M10
DIN 376 from M12

The new Duo Colour Ring Tap from Manigley is a high performance tool made of powder-metallurgy steel with a hard material coating and a recently developed cutting geometry for high tool life.

105/4 - 131/3 Duo Green Ring
Lamellar graphite cast iron (grey cast iron) nodular cast iron, vermicular graphite cast iron, mal-leable cast iron. aluminium cast alloy Si 5-12%, magnesium cast alloy etc



Performance 105/4: High Performance. PM

D	P	L	l	l1	d1	a	Price £
M2	0.4	45	8		2.8	2.1	32.95
M2.5	0.45	50	9		2.8	2.1	30.20
M3	0.5	56	11	7	3.5	2.7	22.60
M4	0.7	63	13	8	4.5	3.4	22.60
M5	0.8	70	16	9	6	4.9	24.00
M6	1	80	19	11	6	4.9	24.00
M8	1.25	90	22	13	8	6.2	27.40
M10	1.5	100	24		10	8	32.95
M12	1.75	110	29		9	7	42.95
M14	2	110	30		11	9	62.20
M16	2	110	32		12	9	71.15
M18	2.5	125	34		14	11	93.20
M20	2.5	140	34		16	12	99.40

DIN 371 up to M10

DIN 376 from M12

Performance

High performance multi purpose, high speed tap for materials of strength
> 450 – 1400N/mm²

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

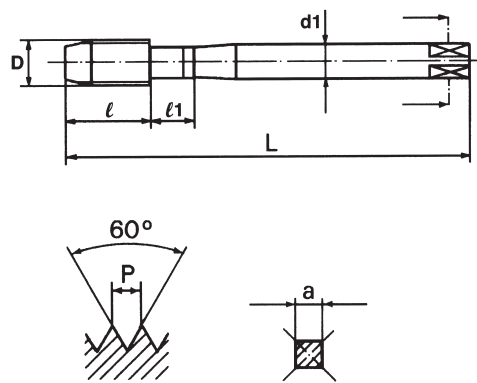
Ground Thread Taps
DIN 371/376
Performance Spiral Flute Metric



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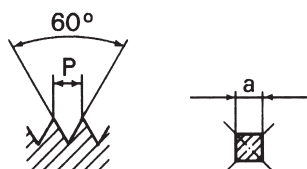
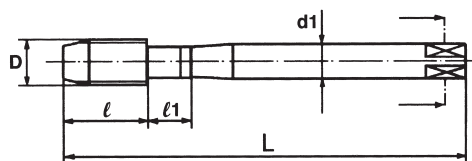
Performance 131/3: High Performance. PM

D	P	L	ℓ	ℓ1	d1	a	Price £
M2	0.4	45	8		2.8	2.1	36.35
M2.5	0.45	50	9		2.8	2.1	30.85
M3	0.5	56	6	11	3.5	2.7	24.65
M4	0.7	63	7.5	13	4.5	3.4	24.65
M5	0.8	70	9	16	6	4.9	26.05
M6	1	80	11	18	6	4.9	26.05
M8	1.25	90	13	21	8	6.2	29.50
M10	1.5	100	16		10	8	37.05
M12	1.75	110	18		9	7	49.80
M14	2	110	20		11	9	64.95
M16	2	110	20		12	9	73.20
M18	2.5	125	22		14	11	95.25
M20	2.5	140	25		16	12	102.85

DIN 371 up to M10
DIN 376 from M12

Performance
High performance multi purpose, high speed tap for materials of strength >450 – 1400N/mm²

Taps & Dies



103/3: Ultra Titan

132/3: Ultra Titan



D	P	L	103/3 ℓ	103/3 ℓ1	132/3 ℓ	132/3 ℓ1	d1	a	103/3 Price £	132/3 Price £
M 2	0.4	45	8		8		2.8	2.1	30.85	36.70
M 2.5	0.45	50	9		8		2.8	2.1	27.75	33.60
M 3	0.5	56	11		9		3.5	2.7	26.40	31.55
M 4	0.7	63	13		12		4.5	3.4	26.40	31.55
M 5	0.8	70	16		15		6	4.9	27.75	33.60
M 6	1	80	19	11	11	12	6	4.9	27.75	33.60
M 8	1.25	90	22	13	16	13	8	6.2	32.25	39.15
M 10	1.5	100	24	20	15	15	10	8	36.70	43.95
M 12	1.75	110	29		22		9	7	42.25	50.50

Reamers

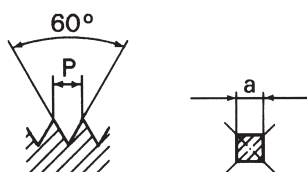
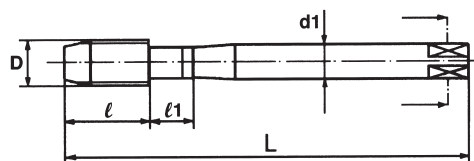
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

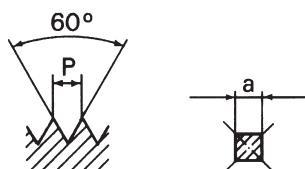
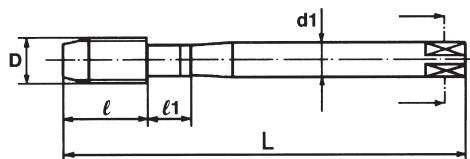
Taps &
Dies

TUSA
Carbide Tooling

**103/4: Ultra HSS M35 (5%) Cob Interrupted Thread****132/3: Ultra HSS M35 (5%) Cob Interrupted Thread**

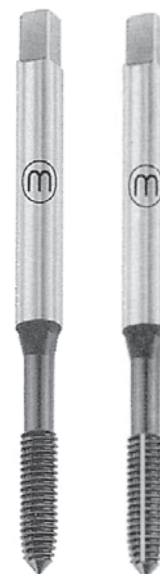
D	P	L	103/4		132/3		d1	a	103/4	132/3
			l	l1	l	l1			Price £	Price £
M2	0.4	45	8		8		2.8	2.1	25.70	28.45
M2.2	0.45	45	9		8		2.8	2.1	31.55	22.60
M2.3	0.4	45	9						31.55	-
M2.5	0.45	50	9		9		2.8	2.1	17.80	17.45
M2.6	0.45	50	9						32.25	-
M3	0.5	56	11	7	6	11	3.5	2.7	15.70	17.45
M3.5	0.6	56	13	7	7.5				18.15	-
M4	0.7	63	13	8	7.5	13	4.5	3.4	15.70	18.15
M5	0.8	70	16	9	9	16	6	4.9	16.05	16.05
M6	1	80	19	11	11	18	6	4.9	16.05	16.05
M8	1.25	90	22	13	13	21	8	6.2	17.80	17.80
M10	1.5	100	24	15	16	22	10	8	21.55	21.55
M12	1.75	110	29		18		9	7	27.45	33.30
M14	2	110	30		20		11	9	38.80	41.55
M16	2	110	32		20		12	9	46.35	47.05
M18	2.5	125	34		22		14	11	56.70	58.75
M20	2.5	140	34		25		16	12	60.15	62.20

DIN 371 up to M10**DIN 376 from M12**



116: HSS M35 (5%) Cob (Steam Vapour)

116a: HSS M35 (5%) Cob (Steam Vapour)



D	P	L	ℓ	ℓ1	d1	a	d1	a	116 Price £	116a Price £
M2.5	0.45	50	9		2.8	2.1			32.25	36.35
M3	0.5	56	11	7	3.5	2.7			29.85	33.60
M4	0.7	63	13	8	4.5	3.4			29.85	33.60
M5	0.8	70	16	9	6	4.9			32.60	37.40
M6	1	80	19	11	6	4.9			32.60	37.40
M8	1.25	90	22	13	8	6.2			39.80	45.30
M10	1.5	100	24	15	10	8			50.50	58.05
M12	1.75	110	29				9	7	79.40	91.45
M16	2	110	32				12	9	129.00	-

DIN 371 up to M10

DIN 376 from M12

Reamers

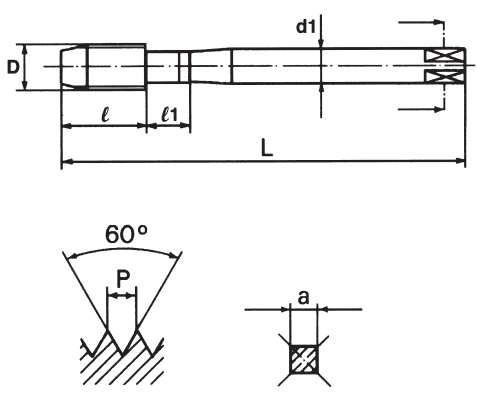
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling



101/1 /2 /3: Serial Hand Taps HSS M2

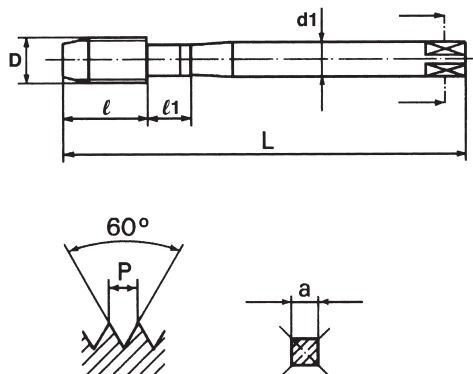
101/4: Spiral Point Tap HSS M2



D	P	L	ℓ	ℓ1	d1	a	101/1 2 3 Price £	101/4 Price £
M1	0.25	38.5	5.5		2.5	2	21.90	24.00
M1.1	0.25	38.5	5.5		2.5	2	24.00	26.40
M1.2	0.25	38.5	5.5		2.5	2	20.90	22.60
M1.4	0.3	40	7		2.5	2	21.60	23.30
M1.6	0.35	41	8		2.5	2	19.50	21.25
M1.7	0.35	41	8		2.5	2	21.60	23.30
M1.8	0.35	41	8		2.5	2	21.60	23.30
M2	0.4	41	8		2.5	2	17.45	19.15
M2.2	0.45	44.5	9.5		2.8	2.24	19.85	21.25
M2.3	0.4	44.5	9.5		2.8	2.24	19.15	21.25
M2.5	0.45	44.5	9.5		2.8	2.24	16.05	17.45
M2.6	0.45	44.5	9.5		2.8	2.24	17.45	19.15
M3	0.5	48	11	7	3.15	2.5	11.25	12.35
M3.5	0.6	50	13	7	3.55	2.8	13.10	14.35
M4	0.7	53	13	8	4	3.15	11.25	14.35
M4.5	0.75	53	13	8	4.5	3.55	25.00	27.10
M5	0.8	58	16	9	5	4	11.80	12.90
M6	1	66	19	11	6.3	5	11.80	12.90
M7	1	66	19	11	7.1	5.6	15.40	16.75

Continued on page 5.13

Taps & Dies



101/1 101/2 101/3 101/4



101/1 /2 /3: Serial Hand Taps HSS M2

101/4: Spiral Point Tap HSS M2

Continued from page 5.12

D	P	L	l	l1	d1	a	101/1/2/3 Price £	101/4 Price £
M8	1.25	72	22	13	8	6.3	12.95	14.20
M9	1.25	72	22	13	9	7.1	18.45	20.55
M10	1.5	80	24	15	10	8	16.05	17.45
M11	1.5	85	25		8	6.3	28.80	31.25
M12	1.75	89	29		9	7.1	18.15	19.50
M14	2	95	30		11.2	9	23.30	25.70
M16	2	102	32		12.5	10	26.05	28.15
M18	2.5	112	37		14	11.2	33.30	36.40
M20	2.5	112	37		14	11.2	37.40	41.55
M22	2.5	118	38		16	12.5	47.05	51.90
M24	3	130	15		18	14	50.50	56.00
M27	3	135	45		20	16	71.85	78.05
M30	3.5	138	48		20	16	94.55	103.50
M33	3.5	151	51		22.4	18	124.15	135.20
M36	4	162	57		25	20	162.05	177.85
M39	4	170	60		28	22.4	187.50	206.10
M42	4.5	170	60		28	22.4	204.05	224.00
M45	4.5	187	67		31.5	25	243.25	266.00
M48	5	187	67		31.5	25	281.80	306.60

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

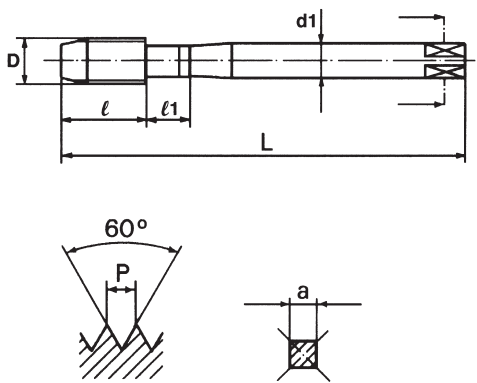
Ground Thread Taps
DIN 371/376
Spiral Point & Spiral Flute Metric



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for Quality & Service

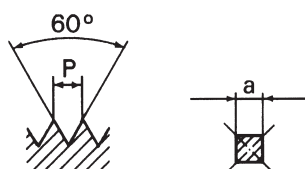
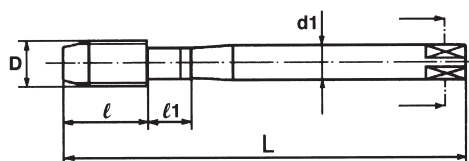
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105/4: Ultra EG HSS M35 (5%) Cob
131/3: Ultra EG HSS M35 (5%) Cob

D	P	L	105/4		105/4		131/3		131/3		d1	a	105/4	131/3
			ℓ	ℓ1	ℓ	ℓ1	ℓ	ℓ1	ℓ	ℓ1			Price £	Price £
M2.5	0.45	56	11		6						3.5	2.7	36.05	38.45
M3	0.5	63	10	7	6	11					4.5	3.4	30.85	33.60
M4	0.7	70	13	8	8	12					6	4.9	30.85	33.60
M5	0.8	80	13	12	8	17					6	4.9	31.55	34.30
M6	1	90	17	11	10	18					8	6.2	31.55	34.30
M8	1.25	100	18	13	16	22					10	8	36.70	40.50
M10	1.5	110	22	15	15	19					9	7	45.30	50.85
M12	1.75	110	26	17	20						11	9	58.10	62.20
M16	2	125	27		22						14	11	88.35	93.20
M20	2.5	160	34		30						18	14.5	125.55	130.35

Note: used only for wire inserts



106/4: Ultra Inox Blue Ring HSS M35 (5%) Cob (Steam Vapour)

106/4: Jet Red Ring HSS M42 (8%) Cob (Special Geometry)

D	P	L	Blue ℓ	Blue ℓ1	Red ℓ	Red ℓ1	d1	a	Blue Price £	Red Price £
MF4	0.5	63	10	8	10	8	4.5	3.4	23.65	25.35
MF5	0.5	70	12	11	12	9	6	4.9	23.65	25.35
MF6	0.75	80	14	14	14	11	6	4.9	25.00	26.75
MF8	0.75	80	17	13	19	13	8	6.2	26.05	24.65
MF8	1	90	19	13	19	13	8	6.2	24.65	26.40
MF10	0.75	90	20	15	20	15	10	8	29.85	30.85
MF10	1	90	20	15	20	15	10	8	26.75	28.45
MF10	1.25	90	20	15	20	15	10	8	29.85	-
MF12	1	100	22		22		9	7	30.90	32.25
MF12	1.25	100	22		22		9	7	34.65	35.35
MF12	1.5	100	22		22		9	7	35.00	32.25
MF14	1	100	22		22		11	9	37.10	42.95
MF14	1.5	100	22		22		11	9	35.00	39.50
MF16	1	100	22		22		12	9	47.75	55.30
MF16	1.5	100	22		22		12	9	44.30	47.05
MF18	1	110	22		25		14	11	55.30	64.25
MF18	1.5	110	25		25		14	11	51.90	64.95
MF20	1	125	25		25		16	12	64.95	69.10
MF20	1.5	125	25		25		16	12	60.15	62.90

DIN 371 up to M10

DIN 376 from M12

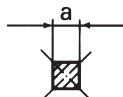
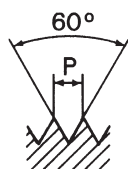
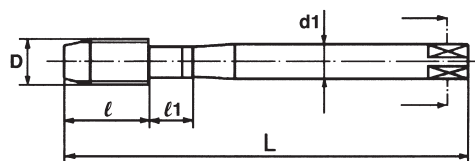
TAPS & DIES

Ground Thread Taps DIN 371/374 Spiral Point/Plug Metric Fine



for Quality & Service

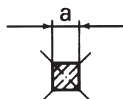
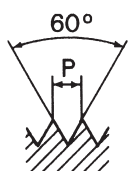
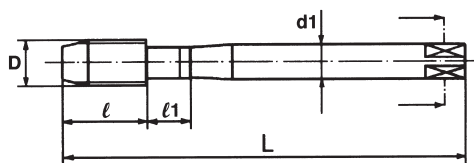
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106/3: Ultra Green Ring HSS M35 (5%) Cob

106/4: Ultra Black Ring HSS M35 (5%) Cob

D	P	L	ℓ	d1	a	Green Price £	Black Price £
MF4	0.5	63	10	2.8	2.1	36.05	21.55
MF5	0.5	70	12	3.5	2.7	36.05	21.55
MF5	0.75	70	12	3.5	2.7	-	24.00
MF6	0.5	80	14	4.5	3.4	-	22.60
MF6	0.75	80	14	4.5	3.4	36.05	25.00
MF8	0.5	80	17	6	4.9	-	33.30
MF8	0.75	80	19	6	4.9	41.20	30.50
MF8	1	90	22	6	4.9	37.75	28.45
MF10	0.5	90	17	7	5.5	-	43.25
MF10	0.75	90	20	7	5.5	-	26.40
MF10	1	90	20	7	5.5	37.75	24.00
MF10	1.25	100	24	7	5.5	-	29.85
MF12	0.75	100	20	9	7	-	49.80
MF12	1	100	22	9	7	45.00	27.10
MF12	1.25	100	22	9	7	-	30.20
MF12	1.5	100	22	9	7	42.95	27.45
MF14	1	100	22	11	9	-	33.30
MF14	1.5	100	22	11	9	56.00	31.25
MF16	1	100	22	12	9	-	43.60
MF16	1.25	100	22	12	9	-	52.55
MF16	1.5	100	22	12	9	63.60	40.20
MF18	1	110	25	14	11	-	49.80
MF18	1.5	110	25	14	11	74.60	45.70
MF18	2	125	34	14	11	-	55.30
MF20	1	125	25	16	12	-	57.40
MF20	1.5	125	25	16	12	88.35	52.55



131/3: Ultra Inox Blue Ring HSS M35 (5%) Cob (Steam Vapour)

131/3: Jet Red Ring HSS M42 (8%) Cob (Special Geometry)

d	P	L	d1	a	ℓ	ℓ1	ℓ	ℓ1	Blue Price £	Red Price £
MF4	0.5	63	4.5	3.4	7.5	13	10	13	30.20	31.55
MF5	0.5	70	6	4.9	7.5	16	12	16	30.20	31.55
MF6	0.75	80	6	4.9	8	18	14	18	31.55	32.95
MF8	0.75	80	8	6.2	10	21	14	21	33.60	35.35
MF8	1	90	8	6.2	10	21	16	21	31.55	32.95
MF10	0.75	90	10	8	12	22	16	22	41.90	43.95
MF10	1	90	10	8	12	22	16	22	36.05	37.05
MF12	1	100	9	7	14		18		42.95	39.85
MF12	1.25	100	9	7	14		18		40.85	47.75
MF12	1.5	100	9	7	14		20		49.80	42.95
MF14	1	100	11	9	16		18		40.85	46.35
MF14	1.5	100	11	9	20		20		45.00	45.70
MF16	1	100	12	9	16		18		44.30	56.70
MF16	1.5	100	12	9	20		20		54.65	54.65
MF18	1	110	14	11	18		22		52.55	71.15
MF18	1.5	110	14	11	25		22		67.05	67.05
MF20	1	125	16	12	18		22		64.25	81.50
MF20	1.5	125	16	12	25		22		71.85	73.90

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

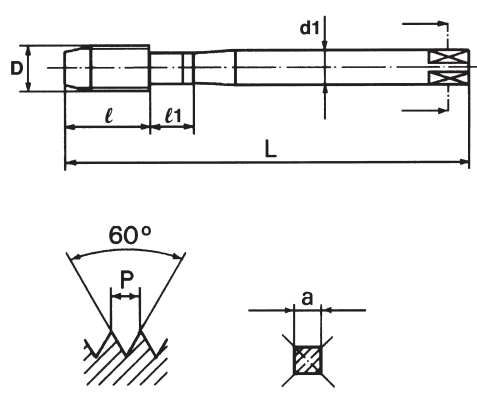
Ground Thread Taps
DIN 371/374
Spiral Flute Metric Fine



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for Quality & Service

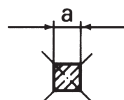
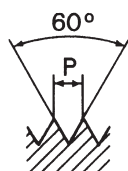
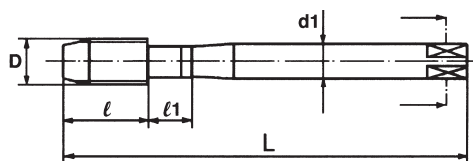
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131/3: Black Ring HSS M35 (5%) Cob

D	P	L	ℓ	d1	a	Price
MF4	0.5	63	7.5	2.6	2.1	27.10
MF5	0.5	70	7.5	3.5	2.7	27.10
MF5	0.75	70	8	3.5	2.7	28.10
MF6	0.5	80	8	4.5	3.4	28.10
MF6	0.75	80	8	4.5	3.4	28.10
MF8	0.5	80	10	6	4.9	37.05
MF8	0.75	80	10	6	4.9	30.50
MF8	1	90	10	6	4.9	28.45
MF10	0.5	90	12	7	5.5	61.85
MF10	0.75	90	12	7	5.5	38.45
MF10	1	90	12	7	5.5	32.25
MF10	1.25	100	14	7	5.5	38.45
MF12	0.75	100	12	9	7	47.05
MF12	1	100	14	9	7	34.65
MF12	1.25	100	14	9	7	41.55
MF12	1.5	100	14	9	7	33.30
MF14	1	100	16	11	9	40.85
MF14	1.5	100	20	11	9	40.20
MF16	1	100	16	12	9	49.80
MF16	1.25	100	16	12	9	67.05
MF16	1.5	100	20	12	9	47.05
MF18	1	110	18	14	11	61.50
MF18	1.5	110	25	14	11	58.10
MF18	2	125	25	14	11	72.55
MF20	1	125	18	16	12	71.85
MF20	1.5	125	25	16	12	64.25

Taps & Dies



102/1: Serial

102/3: Plug

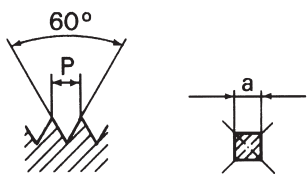
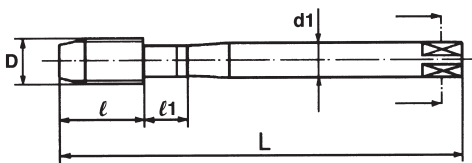
102/4: Spiral

102/1 102/3 102/4



D	P	L	l	l1	d1	a	102/1 /3 Price £	102/4 Price £
MF2	0.25	41	8		2.5	2	27.10	29.15
MF2.2	0.25	44.5	9.5		2.8	2.24	29.15	32.25
MF2.3	0.25	44.5	9.5		2.8	2.24	29.15	32.25
MF2.5	0.35	44.5	9.5		2.8	2.24	27.40	30.20
MF2.6	0.35	44.5	9.5		2.8	2.24	28.80	31.90
MF3	0.35	48	11	7	3.15	2.5	21.55	23.65
MF3.5	0.35	50	13	7	3.55	2.8	28.45	31.55
MF4	0.5	53	13	8	4	3.15	19.15	20.90
MF4.5	0.5	53	13	8	4.5	3.55	30.85	33.60
MF5	0.5	58	16	9	5	4	19.15	20.90
MF6	0.5	66	17	11	6.3	5	19.85	21.55
MF6	0.75	66	19	11	6.3	5	19.85	21.55
MF7	0.75	66	19	11	7.1	5.6	20.20	21.90
MF8	0.5	66	17	11	8	6.3	26.40	29.15
MF8	0.75	66	19	11	8	6.3	22.60	25.00
MF8	1	69	19	13	8	6.3	20.90	22.60
MF9	0.75	66	19	11	9	7.1	22.60	25.00
MF9	1	69	19	13	9	7.1	21.60	23.65
MF10	0.5	73	17	11	10	8	33.60	36.70
MF10	0.75	73	19	11	10	8	22.25	25.00
MF10	1	76	20	15	10	8	19.85	21.55
MF10	1.25	76	20	15	10	8	23.30	25.70
MF11	1	80	20		8	6.3	28.80	31.90
MF12	0.5	76	17		9	7.1	40.85	44.30
MF12	0.75	80	19		9	7.1	35.35	39.50
MF12	1	80	20		9	7.1	23.65	26.05
MF12	1.25	84	24		9	7.1	28.80	31.90

Continued on page 5.20



102/1: Serial
102/3: Plug
102/4: Spiral

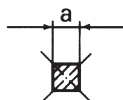
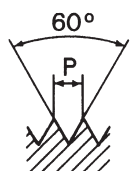
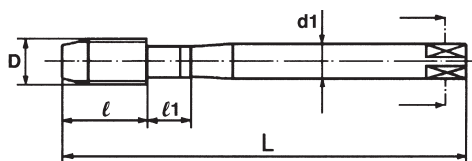
Continued from page 5.19

D	P	L	l	l1	d1	a	102/1 /3 Price £	102/4 Price £
MF12	1.5	89	29		9	7.1	21.95	23.65
MF14	1	87	29		11.2	9	31.25	34.00
MF14	1.25	90	22		11.2	9	31.90	34.65
MF14	1.5	95	25		11.2	9	26.75	29.50
MF15	1	87	30		11.2	9	34.65	37.75
MF15	1.5	95	22		11.2	9	33.30	36.40
MF16	1	92	30		12.5	10	31.90	34.65
MF16	1.5	102	22		12.5	10	26.05	28.80
MF18	1	97	32		14	11.2	34.00	37.75
MF18	1.5	108	22		14	11.2	32.60	35.35
MF18	2	108	33		14	11.2	42.25	45.70
MF20	1	102	33		14	11.2	42.25	45.70
MF20	1.5	108	22		14	11.2	35.35	39.50
MF20	2	108	33		14	11.2	45.00	48.45
MF22	1	109	33		16	12.5	45.00	48.45
MF22	1.5	115	24		16	12.5	56.70	62.25
MF22	2	115	35		16	12.5	56.70	62.25
MF24	1	114	35		18	14	58.10	63.60
MF24	1.5	120	24		18	14	58.10	63.60
MF24	2	120	35		18	14	63.60	70.45
MF25	1	114	35		18	14	95.25	104.20
MF25	1.5	120	24		18	14	87.70	95.95
MF25	2	120	35		18	14	97.30	106.95
MF26	1.5	120	35		18	14	94.55	103.50
MF26	2	120	35		18	14	104.90	115.20
MF27	1	120	25		20	16	100.05	109.70
MF27	1.5	127	27		20	16	100.05	109.70

Continued on page 5.21

Dimensions in mm unless stated.
Specifications subject to change without notice.
Prices exclusive of V.A.T. Correct as at January 2009

Toolex Ltd., Wessex Way, Wincanton, Somerset, BA9 9RP
Tel: (01963) 31199 Fax: (01963) 31205



102/1: Serial

102/3: Plug

102/4: Spiral

102/1 102/3 102/4



Continued from page 5.20

D	P	L	l	l1	d1	a	102/1 /3 Price £	102/4 Price £
MF27	2	127	37		20	16	111.10	123.50
MF28	1	120	25		20	16	142.75	157.90
MF28	1.5	127	37		20	16	142.75	157.90
MF28	2	127	37		20	16	145.50	159.95
MF30	1	120	25		20	16	126.85	139.20
MF30	1.5	127	37		20	16	111.00	121.30
MF30	2	127	37		20	16	126.85	139.20
MF32	1.5	137	37		22.4	18	144.75	159.20
MF32	2	137	37		22.4	18	148.85	163.30
MF33	1.5	137	37		22.4	18	151.60	165.40
MF33	2	137	37		22.4	18	143.35	157.10
MF35	1.5	144	39		25	20	138.55	150.95
MF35	2	144	39		25	20	150.25	164.00
MF36	1.5	144	39		25	20	150.25	164.00
MF36	2	144	39		25	20	160.55	176.40
MF38	1.5	149	39		28	22.4	160.55	176.40
MF38	2	149	39		28	22.4	166.75	183.30
MF40	1.5	149	39		28	22.4	168.85	184.65
MF40	2	149	39		28	22.4	170.20	186.05
MF42	1.5	149	39		28	22.4	199.10	219.10
MF42	2	149	39		28	22.4	212.20	234.25
MF45	1.5	165	45		31.5	25	219.10	243.20
MF45	2	165	45		31.5	25	248.00	272.10
MF48	1.5	165	45		31.5	25	244.55	267.95
MF48	2	165	45		31.5	25	259.70	289.30
MF50	1.5	165	45		31.5	25	285.85	313.40
MF50	2	165	45		31.5	25	298.95	333.35

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

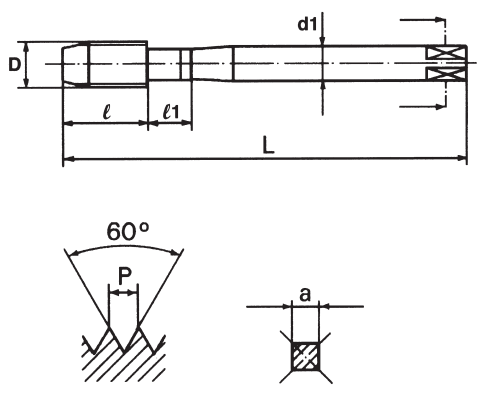
Ground Thread Taps
DIN 371/376
Spiral Point UNC



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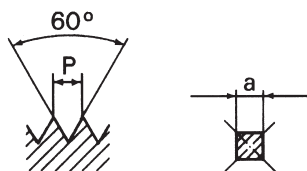
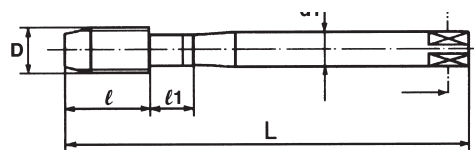


- 105/4: Black Ring HSS M35 (5%) Cob
- 105/4: Blue Ring HSS M35 (5%) Cob (Steam Vapour)
- 105/4: Red Ring HSS M42 (8%) Cob (Special Geometry)

D"	P	L	ℓ	ℓ1	d1	a	Black Price £	Blue Price £	Red Price £
1 - 64	0.397	40	8		2.5	2.1	28.45	30.20	31.55
2 - 56	0.454	45	9		2.8	2.1	28.45	30.20	31.55
3 - 48	0.529	50	9		2.8	2.1	28.45	30.20	-
4 - 40	0.635	56	11	9	3.5	2.7	17.10	17.45	21.55
5 - 40	0.635	56	11	9	3.5	2.7	18.45	19.15	-
6 - 32	0.794	56	13	10	4	3	17.10	17.45	21.55
8 - 32	0.794	63	13	11	4.5	3.4	17.10	19.15	21.55
10 - 24	1.058	70	16	13	6	4.9	17.80	18.15	20.90
12 - 24	1.058	70	16	13	6	4.9	18.45	20.55	-
1/4 - 20	1.27	80	19	14	7	5.5	19.15	19.85	21.90
5/16 - 18	1.411	90	22	15	8	6.2	20.20	22.60	23.30
3/8 - 16	1.588	100	24	15	10	8	22.60	25.00	25.00
7/16 - 14	1.814	100	24		8	6.2	29.85	33.30	34.65
1/2 - 13	1.954	110	29		9	7	32.60	36.40	37.75
9/16 - 12	2.117	110	30		11	9	42.95	56.70	-
5/8 - 11	2.309	110	32		12	9	42.25	46.35	49.80
3/4 - 10	2.54	125	34		14	11	58.75	65.65	69.10
7/8 - 9	2.822	140	34		18	14.5	74.60	89.75	87.00
1" - 8	3.175	160	38		18	14.5	93.20	103.50	109.00

Up to 3/8" - 16 UNC DIN 371

Taps & Dies



131/3: Black Ring HSS M35 (5%) Cob

131/3: Blue Ring HSS M35 (5%) Cob (Steam Vapour)

131/3: Red Ring HSS M42 (8%) Cob (Special Geometry)

D"	P	L	Black/Red ℓ	Black/Red ℓ1	Blue ℓ1	d1	a	Black Price £	Blue Price £	Red Price £
2 - 56	0.454	45	9			2.8	2.1	29.85	32.95	35.00
3 - 48	0.529	50	9			2.8	2.1	29.85	-	-
4 - 40	0.635	56	7	9	7	3.5	2.7	29.85	22.30	23.30
5 - 40	0.635	56	7	9	9	3.5	2.7	29.85	-	-
6 - 32	0.794	56	8	10	10	4	3	20.20	23.30	23.30
8 - 32	0.794	63	8	11	11	4.5	3.4	22.25	22.30	26.05
10 - 24	1.058	70	11	13	13	6	4.9	21.55	21.90	22.95
12 - 24	1.058	70	11	14	14	6	4.9	24.00	-	-
1/4 - 20	1.27	80	13	17	17	7	5.5	22.60	22.30	23.30
5/16 - 18	1.411	90	15	19	19	8	6.2	26.05	23.30	25.00
3/8 - 16	1.588	100	16	21	21	10	8	29.15	27.40	29.15
7/16 - 14	1.814	100	18			8	6.2	38.10	37.40	38.10
1/2 - 13	1.954	110	20			9	7	41.55	39.50	41.55
9/16 - 12	2.117	110	20			11	9	55.30	-	-
5/8 - 11	2.309	110	22			12	9	54.65	50.50	53.25
3/4 - 10	2.54	125	25			14	11	76.65	71.85	76.00
7/8 - 9	2.822	140	28			18	14.5	97.30	90.45	95.25
1" - 8	3.175	160	30			18	14.5	120.75	113.15	119.35

Up to 3/8 - 16 UNC DIN 371

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

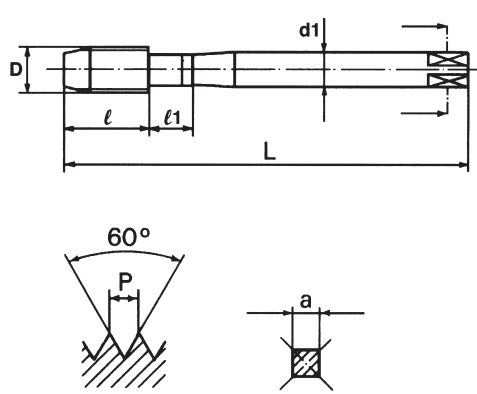
Ground Thread Taps
DIN 371/374
Spiral Point UNF



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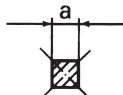
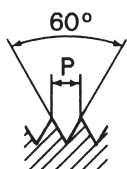
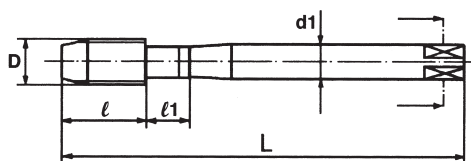


105/4: Black Ring HSS M35 (5%) Cob
105/4: Blue Ring HSS M35 (5%) Cob (Steam Vapour)

D"	P	L	ℓ	d1	a	Black Price £	Blue Price £
0 - 80 UNF	0.317	40	8	2.5	2.1	31.55	30.20
1 - 72 UNF	0.353	40	8	2.5	2.1	31.55	30.20
2 - 64 UNF	0.396	45	9	2.8	2.1	31.55	30.20
3 - 56 UNF	0.453	50	9	2.8	2.1	31.55	30.20
4 - 48 UNF	0.529	56	11	3.5	2.7	31.55	30.20
5 - 44 UNF	0.577	56	11	3.5	2.7	27.10	30.20
6 - 40 UNF	0.635	56	13	4	3	18.15	20.55
8 - 36 UNF	0.706	63	16	4.5	3.4	20.20	22.25
10 - 32 UNF	0.794	70	16	6	4.9	19.50	21.25
12 - 28 UNF	0.907	80	16	6	4.9	21.90	24.00
1/4 - 28 UNF	0.907	80	19	7	5.5	20.55	22.60
5/16 - 24 UNF	1.058	90	22	8	6.2	23.30	26.05
3/8 - 24 UNF	1.058	100	24	10	8	26.40	29.15
7/16 - 20 UNF	1.27	100	22	8	6.2	34.65	38.80
1/2 - 20 UNF	1.27	100	22	9	7	37.75	42.25
9/16 - 18 UNF	1.411	100	22	11	9	50.50	-
5/8 - 18 UNF	1.411	100	22	12	9	49.80	54.65
3/4 - 16 UNF	1.588	125	29	14	11	69.10	76.65
7/8 - 14 UNF	1.814	140	34	18	14.5	87.70	97.30
1" - 12 UNF	2.117	140	34	18	14.5	109.00	120.75

Up to 3/8 - 24 UNF DIN 371

Taps & Dies



131/3: Black Ring HSS M35 (5%) Cob

131/3: Blue Ring HSS M35 (5%) Cob (Steam Vapour)

D"	P	L	ℓ	ℓ1	d1	a	Black Price £	Blue Price £
2-64 UNF	0.396	45	9		2.8	2.1	31.55	-
3-56 UNF	0.453	50	9		2.8	2.1	31.55	-
4-48 UNF	0.529	56	7	10	3.5	2.7	31.55	-
5-44 UNF	0.577	56	7	10	3.5	2.7	29.85	32.95
6-40 UNF	0.635	56	8	11	4	3	20.20	22.25
8-36 UNF	0.705	63	8	13	4.5	3.4	22.25	25.00
10-32 UNF	0.794	70	9	16	6	4.9	21.55	23.65
12-28 UNF	0.907	80	9	17	6	4.9	24.00	26.75
1/4-28 UNF	0.907	80	10	20	7	5.5	22.60	25.35
5/16- UNF	1.058	90	11	24	8	6.2	26.05	28.80
3/8-24 UNF	1.058	100	13	25	10	8	29.15	32.60
7/16-20 UNF	1.27	100	13		8	6.2	38.10	42.25
1/2-20 UNF	1.27	100	15		9	7	41.55	37.75
9/16-18 UNF	1.411	100	17		11	9	55.30	-
5/8-18 UNF	1.411	100	17		12	9	54.65	60.85
3/4-16 UNF	1.588	125	20		14	11	76.65	84.95
7/8-14 UNF	1.814	140	22		18	14.5	97.30	107.65
1-12 UNF	2.117	140	24		18	14.5	120.75	134.50

Up to 3/8 - UNF DIN 371

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

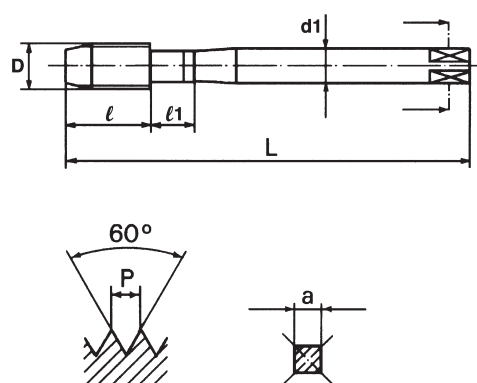
Ground Thread Taps
DIN 371/374
Spiral Point & Spiral Flute UNF



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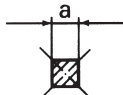
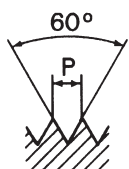
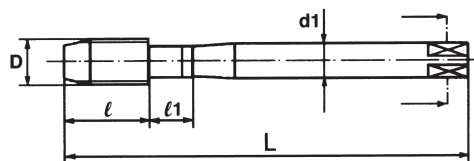


105/4: EG HSS M35 (5%) Cob
131/3: EG HSS M35 (5%) Cob

D"	P	L	105/4	105/4	131/3	131/3	a	105/4	131/3
			ℓ	ℓ1	ℓ	ℓ1		Price £	Price £
4-48 UNF	0.529	56	12	8	7	13	3	39.80	46.70
6-40 UNF	0.635	70	14	10	8	12	4.9	39.15	46.00
8-36 UNF	0.706	70	13	12	8	16	4.9	39.15	46.00
10-32 UNF	0.794	80	13	13	8	18	4.9	41.90	50.15
1/4-28 UNF	0.907	90	17	15	10	20	6.2	43.95	54.95
5/16-24 UNF	1.058	100	18	17	10	25	8	46.00	61.15
3/8-24 UNF	1.058	110	18	26	11	33	9	49.45	62.55
7/16-20 UNF	1.27	100	22		13		8	68.40	79.40
1/2-20 UNF	1.27	100	22		15		10	63.60	77.35
9/16-18 UNF	1.411	100	22		15			104.20	124.15
5/8-18 UNF	1.411	110	25		17			93.90	113.85
3/4-16 UNF	1.588	125	25		17			123.50	-

Used only for wire inserts

Taps & Dies

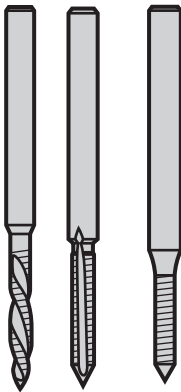


101/1 101/2 101/3 101/4



- 101/1: HSS M2 First Serial Tap**
101/2: HSS M2 Second Serial Tap
101/3: HSS M2 Plug Tap
101/4: HSS M2 Spiral point Tap

D	P	L	l	l1	d1	a	Price £	Price £
14 BA	0.23	38.5	5.5		2.5	2	32.95	36.70
13 BA	0.25	38.5	5.5		2.5	2	32.95	36.70
12 BA	0.28	40	7		2.5	2	30.20	32.95
11 BA	0.31	41	8		2.5	2	30.20	32.95
10 BA	0.35	41	8		2.5	2	31.55	34.30
9 BA	0.39	41	8		2.5	2	38.45	41.90
8 BA	0.43	44.5	9.5		2.8	2.24	26.05	28.45
7 BA	0.48	44.5	9.5		2.8	2.24	31.55	34.30
6 BA	0.53	44.5	9.5		52.8	2.24	24.65	27.10
5 BA	0.59	48	11	7	3.15	2.5	28.45	31.55
4 BA	0.66	50	13	7	3.55	2.8	28.45	31.55
3 BA	0.73	53	13	8	4.5	3.55	28.45	31.55
2 BA	0.81	58	16	9	5	4	28.45	31.55
1 BA	0.9	62	17	9	5.6	4.5	28.45	31.55
0 BA	1	66	19	11	6.3	5	28.45	31.55

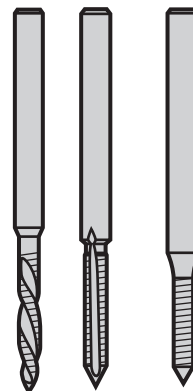


No. 30: Spiral Flute
No. 60: Straight Flute
Rollstar Fluteless

D	P	d	L	ℓ	30/60 Price £	Rollstar Price £
0.3	0.08	1.0	22	2	12.95	-
0.35	0.09	1.0	22	2.5	12.95	-
0.4	0.1	1.0	22	2.5	11.80	-
0.5	0.125	1.0	22	3	11.80	-
0.6	0.15	1.0	22	3	9.90	17.70
0.7	0.175	1.5	25	4	6.35	14.15
0.8	0.2	1.5	25	4	6.35	14.15
0.9	0.225	1.5	25	4	6.35	14.15
1	0.25	1.5	25	5	6.35	14.15
1.1	0.25	1.5	25	5	6.35	14.15
1.2	0.25	1.5	25	5	6.35	14.15
1.3	0.3	1.5	25	6	6.35	14.15
1.4	0.3	2.0	30	6	7.55	15.30
1.5	0.3	2.0	30	6	7.55	15.30
1.6	0.35	2.0	30	8	7.55	15.30
1.7	0.35	2.0	30	8	7.55	15.30
1.8	0.35	2.0	35	8	7.55	15.30
2	0.4	3.0	35	10	8.25	16.50
2.2	0.45	3.0	35	10	8.25	16.50
2.3	0.4	3.0	35	10	8.25	16.50
2.5	0.45	3.0	40	10	8.25	16.50
2.6	0.5	3.0	40	10	8.25	16.50

Taps & Dies

No. 30: Spiral Flute
No. 60: Straight Flute
Rollstar Fluteless



D"	d	P	L	ℓ	30/60 Price	Rollstar Price
0000-160	1.5	0.265	25	7	12.95	17.70
000-120	1.5	0.265	25	7	9.90	14.15
00-96	1.5	0.265	25	7	9.90	14.15
0-80	1.5	0.318	25	8	9.90	15.30
1-72	2.0	0.353	30	10	10.60	15.30
1-64	2.0	0.397	30	10	10.60	15.30
2-64	3.0	0.397	35	13	10.60	16.50
2-56	3.0	0.454	35	13	10.60	16.50
3-56	3.0	0.454	35	13	10.60	16.50
3-48	3.0	0.529	35	13	10.60	16.50
4-48	3.0	0.529	35	13	10.60	16.50
4-40	3.0	0.635	40	17	10.60	16.50

Reamers

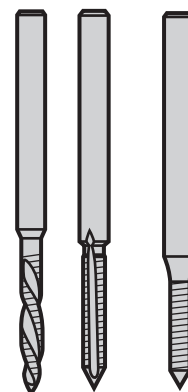
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling

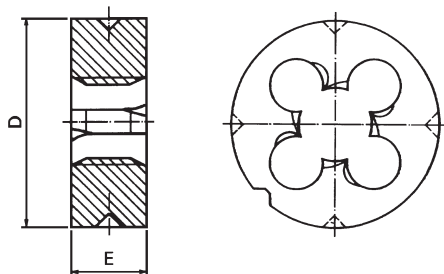


No. 30: Spiral Flute

No. 60: Straight Flute

Rollstar Fluteless

BA	P	L	<i>ℓ</i>	d	30/60 Price £	Rollstar Price £
6	0.53	40	15	3.0	10.60	14.15
7	0.48	40	15	3.0	10.60	14.15
8	0.43	35	13	3.0	10.60	14.15
9	0.39	30	10	2.0	9.90	12.25
10	0.35	30	10	2.0	9.90	12.25
11	0.31	30	10	2.0	9.90	12.25
12	0.28	25	8	1.5	9.90	12.25
13	0.25	25	7	1.5	9.90	12.25
14	0.23	25	6	1.5	9.90	12.25
15	0.21	25	5.5	1.5	9.90	12.25
16	0.19	25	5	1.5	12.95	14.60
17	0.17	25	4.5	1.5	12.95	14.60
18	0.15	25	3.5	1.5	12.95	14.60
19	0.14	25	3	1.5	12.95	14.60



501: Solid HSS M2

501: Solid HSS M35 (5%) Cob

502: Split HSS M2

d	P	D	E	501 M2 Price £	501 M35 Price £	502 M2 Price £
M1	0.25	16	5	36.40	-	36.40
M1.1	0.25	16	5	37.65	-	37.65
M1.2	0.25	16	5	37.65	-	37.65
M1.4	0.3	16	5	37.65	-	37.65
M1.6	0.35	16	5	36.40	-	36.40
M1.7	0.35	16	5	36.40	-	36.40
M1.8	0.35	16	5	35.80	-	35.80
M2	0.4	16	5	25.20	31.85	25.20
M2.2	0.45	16	5	25.20	31.85	25.20
M2.3	0.4	16	5	25.20	-	25.20
M2.5	0.45	16	5	25.20	33.40	25.20
M2.6	0.45	16	5	29.15	36.40	29.15
M3	0.5	20	5	21.25	29.15	21.25
M3	0.6	20	5	44.95	-	44.95
M3.5	0.6	20	5	36.40	36.40	36.40
M4	0.7	20	5	29.15	29.15	29.15
M4	0.75	20	5	21.25	-	21.25
M4.5	0.75	20	7	36.40	-	36.40
M5	0.8	20	7	21.25	29.15	21.25

Reamers

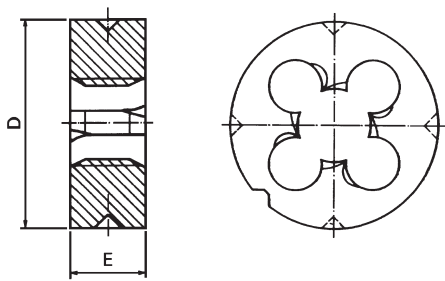
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

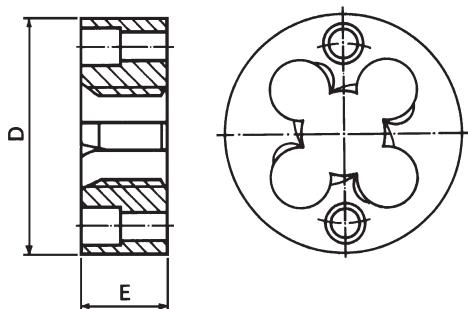
TUSA
Carbide Tooling



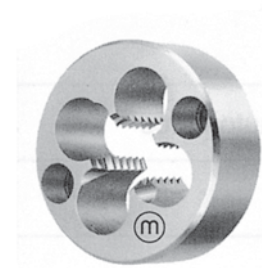
501: Solid HSS M2
501: Solid HSS M35 (5%) Cob
502: Split HSS M2

				501 M2	501 M35	502 M2
				Price £	Price £	Price £
d	P	D	E			
M5	0.9	20	7	46.15	-	46.15
M6	1	20	7	21.25	29.75	21.25
M7	1	25	9	27.30	-	27.30
M8	1.25	25	9	22.45	29.75	22.45
M9	1.25	25	9	32.45	-	32.45
M10	1.5	30	11	29.75	37.05	29.75
M11	1.5	30	11	38.25	-	38.25
M12	1.75	38	14	34.60	49.20	34.60
M14	2	38	18	43.10	52.20	43.10
M16	2	45	18	47.35	61.95	47.35
M18	2.5	45	18	56.45	73.50	56.45
M20	2.5	45	18	49.20	-	49.20
M22	2.5	55	22	71.05	-	71.05
M24	3	55	25	67.40	-	67.40
M27	3	65	25	97.20	-	97.20
M30	3.5	65	25	103.25	-	103.25
M33	3.5	65	25	109.95	-	109.95
M36	4	65	25	114.80	-	114.80
M39	4	75	30	171.30	-	171.30

Taps & Dies



503: Button (2 hole) HSS M2



d	P	D	E	Price £
M1	0.25	8	1.6	40.05
M1	0.25	12	2	43.10
M1.1	0.25	8	1.6	43.10
M1.1	0.25	12	2	43.10
M1.2	0.25	8	1.6	43.10
M1.2	0.25	12	2	43.10
M1.4	0.3	12	2	43.10
M1.4	0.3	16	2	43.10
M1.6	0.35	12	2	41.30
M1.6	0.35	16	2	41.30
M1.7	0.35	12	2	41.30
M1.7	0.35	16	2	41.30
M1.8	0.35	12	2	41.30
M1.8	0.35	16	2	41.30
M2	0.4	12	2.5	25.20
M2	0.4	16	2.5	25.20
M2.2	0.45	12	3	25.20
M2.2	0.45	16	3	25.20
M2.3	0.4	12	2.5	27.30

d	P	D	E	Price £
M2.5	0.45	12	3	25.20
M2.5	0.45	16	3	25.20
M2.6	0.45	12	3	27.30
M2.6	0.45	16	3	27.30
M3	0.5	16	3.5	21.25
M3.5	0.6	16	4	23.35
M4	0.7	16	5	21.25
M4.5	0.75	20	5	27.30
M5	0.8	20	6	20.00
M6	1	20	7	20.00
M7	1	25	7	25.80
M8	1.25	25	9	21.25
M9	1.25	25	9	31.85
M10	1.5	30	11	29.75
M12	1.75	35	12	34.60
M14	2	35	14	41.90
M16	2	45	18	57.10
M18	2.5	55	18	73.50
M20	2.5	55	18	68.65

Reamers

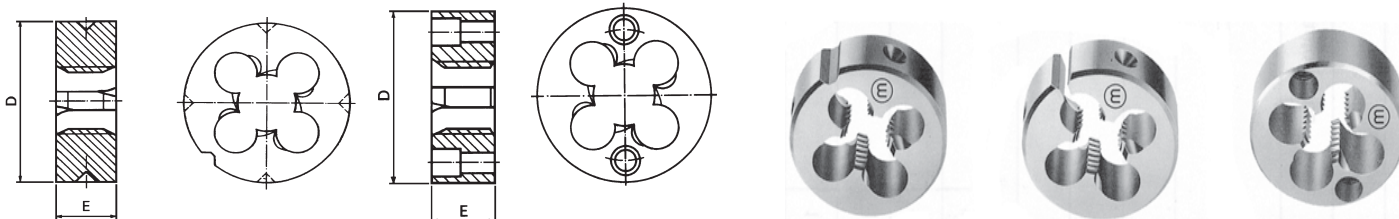
Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps &
Dies

TUSA
Carbide Tooling



501: Solid HSS M2

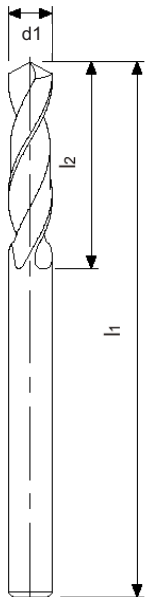
502: Split HSS M2

503: Button (2 hole) M2

d	P	501/502		503		501	502	503
		D	E	D	E	Price £	Price £	Price £
14 BA	0.23	16	5	12	2	30.35	30.35	30.35
13 BA	0.25	16	5	12	2	28.50	28.50	31.85
12 BA	0.28	16	5	12	2	27.30	27.30	29.75
11 BA	0.31	16	5	12	2	29.15	29.15	28.50
10 BA	0.35	16	5	12	2.5	27.30	27.30	27.90
9 BA	0.39	16	5	12	2.5	28.50	28.50	31.85
8 BA	0.45	16	5	12	3	26.70	26.70	33.40
7 BA	0.48	16	5	16	3	29.15	29.15	43.10
6 BA	0.53	20	5	16	3.5	30.35	30.35	38.25
5 BA	0.59	20	5	16	4	34.00	34.00	44.95
4 BA	0.66	20	5	16	4.5	34.60	34.60	34.60
3 BA	0.73	20	7	16	5	40.70	40.70	41.30
2 BA	0.81	20	7	20	6	41.30	41.30	43.10
1 BA	0.9	20	7	20	7	43.10	43.10	44.30
0 BA	1	20	7	20	7	43.10	43.10	44.95

502 Dies are available to special order only after current stock depletion

MTB 25



d1	l1	l2	Price £
3.00	46	16	6.85
3.10	49	18	7.50
3.20	49	18	7.55
3.30	49	18	7.55
3.40	52	20	8.20
3.50	52	20	8.15
3.60	52	20	8.50
3.70	52	20	8.60
3.80	55	22	8.75
3.90	55	22	8.85
4.00	55	22	8.20
4.10	55	22	8.80
4.20	55	22	8.90
4.30	58	24	9.20
4.40	58	24	9.55
4.50	58	24	9.20
4.60	58	24	9.60
4.70	58	24	9.75
4.80	62	26	9.90
4.90	62	26	10.00
5.00	62	26	10.20
5.10	62	26	10.85
5.20	62	26	10.85
5.30	62	26	11.20
5.40	66	28	12.05
5.50	66	28	11.80
5.60	66	28	12.85
5.70	66	28	12.65
5.80	66	28	12.65
5.90	66	28	12.90
6.00	66	28	12.65
6.10	70	31	14.50
6.20	70	31	14.50
6.30	70	31	14.50
6.40	70	31	14.50
6.50	70	31	14.50
6.60	70	31	15.40
6.70	70	31	15.40
6.80	74	34	15.40
6.90	74	34	15.90
7.00	74	34	16.65
7.10	74	34	17.70
7.20	74	34	17.70
7.30	74	34	17.70

d1	l1	l2	Price £
7.40	74	34	18.30
7.50	74	34	17.40
7.60	79	37	21.05
7.70	79	37	21.05
7.80	79	37	21.05
7.90	79	37	21.05
8.00	79	37	22.25
8.10	79	37	23.40
8.20	79	37	23.40
8.30	79	37	23.85
8.40	79	37	23.85
8.50	79	37	22.85
8.60	84	40	25.25
8.70	84	40	25.25
8.80	84	40	26.50
8.90	84	40	25.75
9.00	84	40	25.25
9.10	84	40	27.05
9.20	84	40	27.05
9.30	84	40	27.05
9.40	84	40	27.05
9.50	84	40	26.50
9.60	89	43	28.85
9.70	89	43	28.85
9.80	89	43	28.85
9.90	89	43	28.85
10.00	89	43	28.05
10.10	89	43	33.20
10.20	89	43	31.70
10.50	89	43	31.70
11.00	95	47	35.90
11.50	95	47	38.35
11.80	95	47	39.55
12.00	102	51	40.15
12.50	102	51	43.75
12.70	102	51	47.30
13.00	102	51	49.15
13.50	102	51	67.75
14.00	107	54	71.35
14.50	111	56	78.60
15.00	111	56	86.95
16.00	115	58	97.80
18.00	123	62	133.85
20.00	131	66	181.90

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

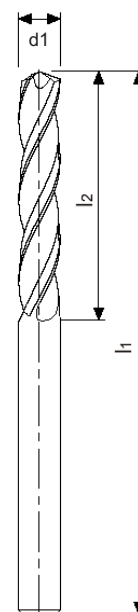
Taps
Dies

TUSA
Carbide Tooling

3 flute MTB25/3

d1	l1	l2	Price £
3.00	46	16	11.85
3.10	49	18	13.00
3.20	49	18	13.00
3.30	49	18	13.00
3.40	52	20	14.85
3.50	52	20	14.35
3.60	52	20	14.65
3.70	52	20	15.80
3.80	55	22	16.35
3.90	55	22	16.35
4.00	55	22	14.65
4.10	55	22	15.80
4.20	55	22	16.30
4.30	58	24	17.70
4.40	58	24	16.65
4.50	58	24	16.00
4.60	58	24	18.80
4.70	58	24	18.20
4.80	62	26	17.55
4.90	62	26	17.30
5.00	62	26	16.70
5.10	62	26	20.40
5.20	62	26	20.40
5.30	62	26	20.40
5.40	66	28	20.40
5.50	66	28	19.80
5.60	66	28	21.05
5.70	66	28	21.05
5.80	66	28	21.70
5.90	66	28	21.70
6.00	66	28	20.40
6.10	70	31	25.30
6.20	70	31	25.30
6.30	70	31	25.30
6.40	70	31	25.30
6.50	70	31	22.85
6.60	70	31	26.60

d1	l1	l2	Price £
6.70	70	31	26.60
6.80	74	34	26.60
6.90	74	34	26.60
7.00	74	34	25.30
7.10	74	34	27.85
7.20	74	34	29.05
7.30	74	34	29.05
7.40	74	34	29.05
7.50	74	34	28.40
7.60	79	37	32.75
7.70	79	37	32.75
7.80	79	37	32.75
7.90	79	37	32.75
8.00	79	37	30.30
8.10	79	37	33.40
8.20	79	37	35.85
8.30	79	37	35.85
8.40	79	37	35.85
8.50	79	37	34.60
8.60	84	40	37.70
8.70	84	40	37.70
8.80	84	40	37.70
8.90	84	40	40.20
9.00	84	40	37.70
9.10	84	40	41.70
9.20	84	40	37.70
9.30	84	40	40.20
9.40	84	40	44.55
9.50	84	40	39.00
9.60	89	43	47.00
9.70	89	43	47.00
9.80	89	43	47.00
9.90	89	43	47.00
10.00	89	43	43.85
10.20	89	43	54.80
10.30	89	43	54.80
10.50	89	43	49.90



d1	l1	l2	Price £
10.70	95	47	59.80
11.00	95	47	59.80
11.50	95	47	62.25
12.00	102	51	58.55
12.50	102	51	64.75
13.00	102	51	75.80
13.50	107	54	88.20
14.00	107	54	89.45
14.50	111	56	100.55
15.00	111	56	101.80
15.50	115	58	116.65
16.00	115	58	109.25
16.50	119	60	125.25
17.00	119	60	137.65
17.50	123	62	149.95
18.00	123	62	156.15
18.50	127	64	158.70
19.00	127	64	162.35
19.50	131	66	174.70
20.00	131	66	180.85

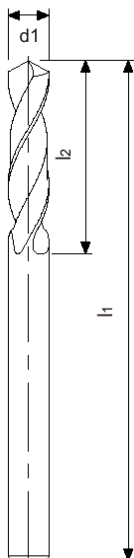
HRC < 48

Stainless

Cast iron

Titanium

Aluminium



d1	l1	l2	Price £
3.00	61	33	9.40
3.10	65	36	10.85
3.20	65	36	10.90
3.30	65	36	10.90
3.40	70	39	11.65
3.50	70	39	11.35
3.60	70	39	11.80
3.70	70	39	12.20
3.80	75	43	12.55
3.90	75	43	12.90
4.00	75	43	11.40
4.10	75	43	12.65
4.20	75	43	12.65
4.30	80	47	14.50
4.40	80	47	16.55
4.50	80	47	13.80
4.60	80	47	15.05
4.70	80	47	15.05
4.80	86	52	16.25
4.90	86	52	16.25
5.00	86	52	15.05
5.10	86	52	17.40
5.20	86	52	17.40
5.30	86	52	17.40
5.40	93	57	18.65
5.50	93	57	17.40
5.60	93	57	18.65
5.70	93	57	18.65
5.80	93	57	18.65
5.90	93	57	18.65
6.00	93	57	18.10
6.10	101	63	21.05
6.20	101	63	21.05
6.30	101	63	22.25
6.40	101	63	22.25
6.50	101	63	21.05
6.60	101	63	23.40
6.70	101	63	23.40
6.80	109	69	27.05
6.90	109	69	28.25
7.00	109	69	29.50
7.10	109	69	33.10

d1	l1	l2	Price £
7.20	109	69	33.10
7.30	109	69	33.10
7.40	109	69	33.10
7.50	109	69	30.65
7.60	117	75	34.25
7.70	117	75	34.25
7.80	117	75	34.25
7.90	117	75	34.25
8.00	117	75	31.85
8.10	117	75	39.10
8.20	117	75	39.10
8.30	117	75	39.10
8.40	117	75	39.10
8.50	117	75	37.85
8.60	125	81	41.50
8.70	125	81	41.50
8.80	125	81	41.50
8.90	125	81	41.50
9.00	125	81	40.25
9.10	125	81	45.10
9.20	125	81	45.10
9.30	125	81	45.10
9.40	125	81	45.10
9.50	125	81	42.70
9.60	133	87	46.25
9.70	133	87	46.25
9.80	133	87	47.50
9.90	133	87	47.50
10.00	133	87	43.85
10.20	133	87	49.75
10.50	133	87	49.75
10.80	142	94	60.55
11.00	142	94	58.15
11.50	142	94	67.75
11.80	142	94	74.95
12.00	151	101	79.75
12.70	151	101	85.80
13.00	151	101	85.80
14.00	160	108	131.45
15.00	169	114	145.85
16.00	178	120	157.85

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

MTB 35

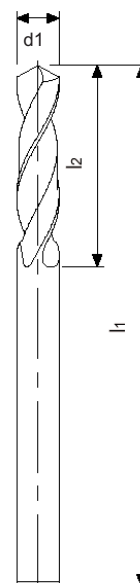


for Quality & Service

www.toolex.co.uk

d1	l1	l2	Price £
0.20	28	4	6.65
0.30	28	4	6.65
0.35	30	5	6.65
0.40	30	5	6.50
0.45	30	5	6.65
0.50	30	5	4.55
0.55	30	5	4.60
0.60	30	5	4.60
0.65	30	6	4.85
0.70	30	6	4.70
0.75	30	8	5.00
0.80	30	8	4.65
0.85	30	9	4.80
0.90	30	9	4.80
0.95	30	10	4.90
1.00	30	10	4.80
1.05	30	10	5.05
1.10	30	10	5.00
1.15	30	12	5.75
1.20	30	12	5.20
1.25	30	12	5.20
1.30	30	12	5.20
1.35	30	12	5.30
1.40	30	12	5.30
1.45	30	12	5.30
1.50	30	12	5.25
1.55	40	16	6.10
1.60	40	16	6.10
1.65	40	16	6.10
1.70	40	16	6.15
1.75	40	16	6.20
1.80	40	16	6.20
1.85	40	16	6.20
1.90	40	16	6.20
1.95	40	16	6.20
2.00	40	16	6.05

d1	l1	l2	Price £
2.05	40	18	6.55
2.10	40	18	6.55
2.15	40	18	6.55
2.20	40	18	6.55
2.25	40	18	6.55
2.30	40	18	6.55
2.35	40	18	6.55
2.40	40	18	6.55
2.45	40	18	6.55
2.50	40	18	6.80
2.55	45	18	7.05
2.60	45	18	7.05
2.65	45	18	7.15
2.70	45	18	7.15
2.75	45	18	7.15
2.80	45	18	7.25
2.85	45	18	7.25
2.90	45	18	7.25
2.95	45	18	7.25
3.00	45	18	7.25



HRC < 48

Stainless

Cast iron

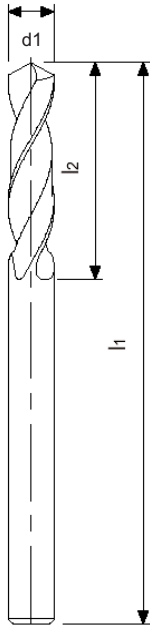
Titanium

Aluminium

Dimensions in mm unless stated.
 Specifications subject to change without notice.
 Prices exclusive of V.A.T. Correct as at January 2009

Toolex Ltd., Wessex Way, Wincanton, Somerset, BA9 9RP
 Tel: (01963) 31199 Fax: (01963) 31205

MTB 45



d1	l1	l2	Price £
0.30	40	8	9.40
0.40	40	8	8.05
0.50	40	8	5.80
0.60	40	8	5.80
0.70	50	15	7.00
0.80	50	15	6.15
0.90	50	15	6.15
1.00	50	16	6.15
1.10	50	16	6.65
1.20	50	18	6.65
1.30	50	18	6.90
1.40	50	18	6.90
1.50	50	24	7.30
1.60	55	24	7.55
1.70	55	24	7.55
1.80	55	24	7.55
1.90	55	24	7.65
2.00	55	24	7.35
2.10	55	24	7.70
2.20	58	26	8.05
2.30	58	26	8.30
2.40	61	26	8.40

d1	l1	l2	Price £
2.50	61	26	8.40
2.60	64	28	9.40
2.70	64	28	9.40
2.80	67	30	9.65
2.90	71	30	10.00
3.00	71	30	10.00
3.10	71	32	11.30
3.20	71	32	10.85
3.30	73	35	11.65
3.40	73	35	11.25
3.50	73	35	11.65
3.60	76	37	12.05
3.70	76	37	12.05
3.80	76	37	12.30
3.90	79	37	13.25
4.00	83	40	13.25
4.10	83	40	13.80
4.20	83	40	13.80
4.30	83	40	13.80
4.40	86	42	14.50
4.50	86	42	14.50
4.60	86	42	14.50
4.70	89	42	14.50
4.80	89	42	14.50
4.90	92	45	15.05
5.00	92	45	15.05
5.10	92	45	16.25
5.20	95	45	16.25
5.30	95	45	15.90
5.40	95	45	15.90
5.50	95	45	15.90
5.60	98	45	17.10
5.70	98	45	17.10
5.80	98	45	17.10
5.90	98	45	17.10
6.00	102	50	17.10
6.10	102	50	19.60
6.20	102	50	19.60
6.30	102	50	19.60
6.40	105	50	22.85
6.50	105	50	22.85

d1	l1	l2	Price £
6.60	105	50	25.65
6.70	105	50	25.65
6.80	105	50	26.15
6.90	105	50	26.15
7.00	105	50	26.15
7.10	108	52	29.50
7.20	108	52	29.50
7.30	108	52	29.50
7.40	111	52	29.50
7.50	111	52	29.50
7.60	111	52	29.50
7.70	114	55	30.65
7.80	114	55	30.65
7.90	114	55	30.65
8.00	117	60	30.65
8.10	117	60	35.50
8.20	117	60	35.50
8.30	117	60	35.50
8.40	121	60	35.50
8.50	121	60	34.25
8.60	121	65	38.50
8.70	121	65	38.50
8.80	124	65	38.50
8.90	124	65	38.50
9.00	124	65	38.50
9.10	124	65	40.25
9.20	127	65	40.25
9.30	127	65	40.25
9.40	127	65	40.25
9.50	127	65	40.25
9.60	130	65	43.85
9.70	130	65	43.85
9.80	130	65	43.85
9.90	130	65	43.85
10.00	130	70	43.85
10.50	137	70	55.85
11.00	140	70	55.85
11.50	143	70	61.90
12.00	149	70	63.10
12.50	149	70	66.70
13.00	149	70	73.90

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

MTB 50

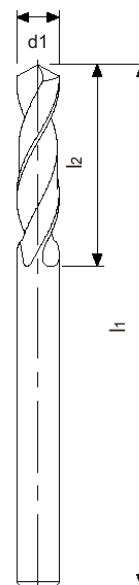


for Quality & Service

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d1	l1	l2	Price £
1.00	75	25	7.80
1.10	75	25	8.40
1.20	75	25	8.15
1.30	75	25	8.15
1.40	75	30	8.75
1.50	75	30	8.75
1.60	75	30	8.75
1.70	75	30	8.75
1.80	75	30	9.05
1.90	75	30	9.05
2.00	75	30	9.05
2.10	75	30	9.65
2.20	75	30	9.65
2.30	75	30	9.65
2.40	100	35	10.55
2.50	100	35	10.55
2.60	100	35	11.20
2.70	100	35	11.20
2.80	100	35	11.20
2.90	100	35	11.20
3.00	100	50	13.25
3.10	100	50	14.50
3.20	100	50	14.50
3.30	100	50	14.50
3.40	100	50	14.50
3.50	100	50	14.50
3.60	100	50	14.50
3.70	100	50	15.05
3.80	100	50	15.05
3.90	100	50	15.05
4.00	100	50	15.05
4.10	100	50	15.05
4.20	100	50	15.05
4.30	100	50	15.05
4.40	100	50	15.05
4.50	100	50	15.05
4.60	100	50	16.25
4.70	100	50	16.25
4.80	100	50	16.25
4.90	100	50	16.25

d1	l1	l2	Price £
5.00	150	75	21.30
5.10	150	75	24.65
5.20	150	75	24.65
5.30	150	75	24.65
5.40	150	75	24.65
5.50	150	75	24.65
5.60	150	75	25.85
5.70	150	75	25.85
5.80	150	75	25.85
5.90	150	75	25.85
6.00	150	75	25.85
6.10	150	75	28.25
6.20	150	75	28.25
6.30	150	75	28.25
6.40	150	75	28.25
6.50	150	75	28.25
6.60	150	75	30.10
6.70	150	75	30.10
6.80	150	75	30.10
6.90	150	75	30.10
7.00	150	75	30.10
7.10	150	75	33.10
7.20	150	75	33.10
7.30	150	75	33.10
7.40	150	75	33.10
7.50	150	75	30.65
7.60	150	75	34.85
7.70	150	75	34.85
7.80	150	75	34.85
7.90	150	75	34.85
8.00	150	75	33.10
8.10	150	75	40.25
8.20	150	75	40.25
8.30	150	75	40.25
8.40	150	75	40.25
8.50	150	75	36.65
8.60	150	75	41.50
8.70	150	75	41.50
8.80	150	75	41.50
8.90	150	75	41.50



d1	l1	l2	Price £
9.00	150	75	39.10
9.10	150	75	42.70
9.20	150	75	42.70
9.30	150	75	42.70
9.40	150	75	42.70
9.50	150	75	40.25
9.60	150	75	45.10
9.70	150	75	45.10
9.80	150	75	45.10
9.90	150	75	45.10
10.00	150	75	45.10
10.50	200	90	55.85
11.00	200	90	66.70
11.50	200	90	69.10
12.00	200	90	73.90
12.50	200	90	77.55
13.00	200	90	83.55

HRC < 48

Stainless

Cast iron

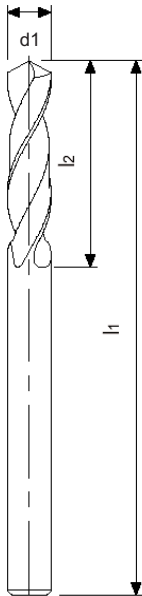
Titanium

Aluminium

Dimensions in mm unless stated.
Specifications subject to change without notice.
Prices exclusive of V.A.T. Correct as at January 2009

Toolex Ltd., Wessex Way, Wincanton, Somerset, BA9 9RP
Tel: (01963) 31199 Fax: (01963) 31205

MTB 60



d1	l1	l2	Price £
1.00	100	50	12.65
1.10	100	50	13.25
1.20	100	50	12.65
1.30	100	50	13.25
1.40	100	50	13.25
1.50	100	50	12.65
1.60	100	50	12.65
1.70	100	50	12.65
1.80	100	50	12.65
1.90	100	50	12.65
2.00	100	50	13.80
2.10	100	50	13.80
2.20	100	50	13.80
2.30	100	50	13.80
2.40	150	75	16.85
2.50	150	75	17.15
2.60	150	75	17.40
2.70	150	75	17.40
2.80	150	75	17.40
2.90	150	75	18.10
3.00	150	75	18.10
3.10	150	75	19.85
3.20	150	75	19.85
3.30	150	75	19.85
3.40	150	75	19.85
3.50	150	75	19.85
3.60	150	75	21.05
3.70	150	75	21.05
3.80	150	75	21.05
3.90	150	75	21.05
4.00	150	75	19.85
4.10	150	75	20.50
4.20	150	75	20.50
4.30	150	75	20.50
4.40	150	75	20.50
4.50	150	75	20.50
4.60	150	75	21.90
4.70	150	75	21.90
4.80	150	75	21.90
4.90	150	75	21.90
5.00	200	100	31.85
5.10	200	100	35.50

d1	l1	l2	Price £
5.20	200	100	35.50
5.30	200	100	35.50
5.40	200	100	35.50
5.50	200	100	35.50
5.60	200	100	38.50
5.70	200	100	38.50
5.80	200	100	38.50
5.90	200	100	38.50
6.00	200	100	38.50
6.10	200	100	42.10
6.20	200	100	42.10
6.30	200	100	42.10
6.40	200	105	42.10
6.50	200	105	45.10
6.60	200	105	47.50
6.70	200	105	47.50
6.80	200	105	47.50
6.90	200	105	47.50
7.00	200	105	47.50
7.10	200	105	54.70
7.20	200	105	52.30
7.30	200	105	52.30
7.40	200	105	52.30
7.50	200	105	55.30
7.60	200	105	55.30
7.70	200	105	55.30
7.80	200	105	56.55
7.90	200	105	56.55
8.00	200	105	57.10
8.10	250	130	60.15
8.20	250	130	60.15
8.30	250	130	60.15
8.40	250	130	60.15
8.50	250	130	60.15
9.00	250	130	61.90
9.10	250	145	78.70
9.20	250	145	78.70
9.30	250	145	78.70
9.40	250	145	78.70
9.50	250	145	78.70
10.00	250	145	87.15

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

High Performance Carbide Drill

Tusa Top Drill 203

3xD



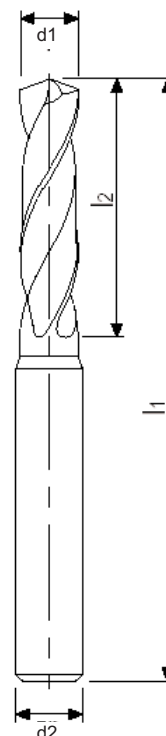
for Quality & Service

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TTD 203

d1	d2	l1	l2	Price
0.80	3.00	44	4	25.75
0.90	3.00	44	5	25.75
1.00	3.00	44	5	25.75
1.10	3.00	44	6	25.75
1.20	3.00	44	6	27.80
1.30	3.00	44	7	27.80
1.40	3.00	47	7	28.50
1.50	3.00	47	8	28.50
1.60	3.00	47	8	28.50
1.70	3.00	47	9	29.85
1.80	3.00	47	9	29.85
1.90	3.00	47	10	29.85
2.00	4.00	54	10	33.25
2.10	4.00	54	11	33.25
2.20	4.00	54	11	33.25
2.30	4.00	54	12	33.90
2.40	4.00	54	12	33.90
2.50	4.00	54	13	35.30
2.60	4.00	56	13	35.30
2.70	4.00	56	14	36.00
2.80	4.00	56	14	36.00
2.90	4.00	56	15	36.00
3.00	4.00	56	15	36.00
3.10	6.00	62	18	43.50
3.20	6.00	62	18	43.50
3.30	6.00	62	18	43.50
3.40	6.00	62	18	44.15

d1	d2	l1	l2	Price
3.50	6.00	62	18	44.15
3.60	6.00	62	18	44.15
3.70	6.00	62	20	44.15
3.80	6.00	66	20	46.20
3.90	6.00	66	20	47.55
4.00	6.00	66	20	47.55
4.10	6.00	66	22	47.55
4.20	6.00	66	22	47.55
4.30	6.00	66	22	48.90
4.40	6.00	66	22	48.90
4.50	6.00	66	24	48.90
4.60	6.00	66	24	48.90
4.70	6.00	66	24	48.90
4.80	6.00	66	24	48.90
4.90	6.00	66	26	48.90
5.00	6.00	66	26	48.90
5.10	6.00	66	26	48.90
5.20	6.00	66	26	48.90
5.30	6.00	66	28	48.90
5.40	6.00	66	28	48.90
5.50	6.00	66	28	48.90
5.60	6.00	66	28	48.90
5.70	6.00	66	28	48.90
5.80	6.00	66	28	48.90
5.90	6.00	66	28	48.90
6.00	6.00	66	28	48.90



High performance twist drill, right hand cutting, reinforced shank.

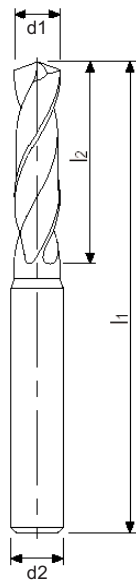
HRC < 48

Cast iron

Dimensions in mm unless stated.
Specifications subject to change without notice.
Prices exclusive of V.A.T. Correct as at January 2009

Toolex Ltd., Wessex Way, Wincanton, Somerset, BA9 9RP
Tel: (01963) 31199 Fax: (01963) 31205

TTD 205



d1	d2	l1	l2	Price
0.80	3.00	46	5.6	27.15
0.90	3.00	46	7	27.15
1.00	3.00	46	7	27.15
1.10	3.00	46	8.5	27.15
1.20	3.00	46	8.5	29.20
1.30	3.00	46	10	29.20
1.40	3.00	50	10	29.85
1.50	3.00	50	11	29.85
1.60	3.00	50	11	29.85
1.70	3.00	50	12.5	31.20
1.80	3.00	50	12.5	31.20
1.90	3.00	50	14	31.20
2.00	4.00	56	14	35.30
2.10	4.00	56	15.5	35.30
2.20	4.00	56	15.5	35.30
2.30	4.00	56	17	36.00
2.40	4.00	56	17	36.00
2.50	4.00	56	18	37.30
2.60	4.00	59	18	37.30
2.70	4.00	59	19.5	38.05
2.80	4.00	59	19.5	38.05
2.90	4.00	59	21	38.05
3.00	4.00	59	21	38.05
3.10	6.00	66	24	45.50
3.20	6.00	66	24	45.50
3.30	6.00	66	24	45.50
3.40	6.00	66	24	46.20
3.50	6.00	66	26	46.20

d1	d2	l1	l2	Price
3.60	6.00	66	26	46.20
3.70	6.00	66	26	46.20
3.80	6.00	74	28	48.20
3.90	6.00	74	28	50.25
4.00	6.00	74	28	52.75
4.10	6.00	74	30	52.75
4.20	6.00	74	30	52.75
4.30	6.00	74	32	54.15
4.40	6.00	74	32	54.15
4.50	6.00	74	32	54.15
4.60	6.00	74	34	54.15
4.70	6.00	74	34	54.15
4.80	6.00	74	34	54.15
4.90	6.00	82	36	54.15
5.00	6.00	82	36	54.15
5.10	6.00	82	36	54.15
5.20	6.00	82	38	54.15
5.30	6.00	82	38	54.15
5.40	6.00	82	38	54.15
5.50	6.00	82	40	54.15
5.60	6.00	82	40	54.15
5.70	6.00	82	40	54.15
5.80	6.00	82	42	54.15
5.90	6.00	82	42	54.15
6.00	6.00	82	42	54.15

High performance twist drill, right hand cutting, reinforced shank.

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

HRC < 48

Cast iron

High Performance Carbide Drill

Tusa Top Drill 207

7xD



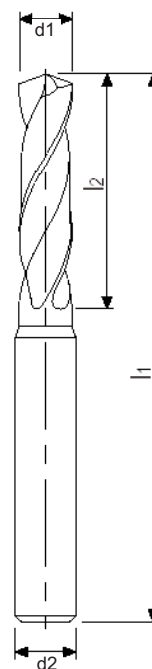
for Quality & Service

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TTD 207

d1	d2	l1	l2	Price £
0.80	3.00	49	7	28.50
0.90	3.00	49	8	28.50
1.00	3.00	49	9	28.50
1.10	3.00	49	9	28.50
1.20	3.00	49	12	30.55
1.30	3.00	49	12	30.55
1.40	3.00	53	13	31.90
1.50	3.00	53	15	32.60
1.60	3.00	53	15	32.60
1.70	3.00	53	16	33.25
1.80	3.00	53	16	33.25
1.90	3.00	53	18	33.90
2.00	4.00	59	18	37.30
2.10	4.00	59	20	37.30
2.20	4.00	59	20	37.30
2.30	4.00	59	22	38.05
2.40	4.00	59	22	38.05
2.50	4.00	64	24	39.35
2.60	4.00	64	24	39.35
2.70	4.00	64	25	40.05
2.80	4.00	64	25	40.05
2.90	4.00	64	27	40.75
3.00	4.00	64	27	40.75
3.10	6.00	72	30	48.20
3.20	6.00	72	30	48.20
3.30	6.00	72	30	48.20

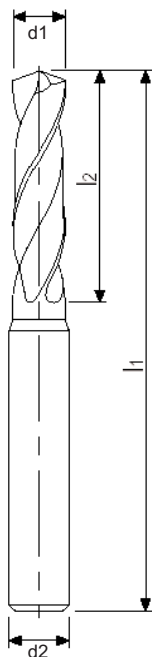
d1	d2	l1	l2	Price £
3.40	6.00	72	34	48.90
3.50	6.00	72	34	48.90
3.60	6.00	72	34	48.90
3.70	6.00	72	34	48.90
3.80	6.00	81	34	51.60
3.90	6.00	81	38	53.00
4.00	6.00	81	38	55.65
4.10	6.00	81	38	55.65
4.20	6.00	81	38	55.65
4.30	6.00	81	43	57.05
4.40	6.00	81	43	57.05
4.50	6.00	81	43	57.05
4.60	6.00	81	43	57.05
4.70	6.00	81	43	57.05
4.80	6.00	95	47	57.05
4.90	6.00	95	47	57.05
5.00	6.00	95	47	58.65
5.10	6.00	95	47	58.65
5.20	6.00	95	47	58.65
5.30	6.00	95	47	58.65
5.40	6.00	95	52	58.65
5.50	6.00	95	52	58.65
5.60	6.00	95	52	58.65
5.70	6.00	95	52	58.65
5.80	6.00	95	54	58.65
5.90	6.00	95	54	58.65
6.00	6.00	95	54	58.65



High performance twist drill, right hand cutting, reinforced shank.

HRC < 48

Cast iron



TTD 209

d1	d2	l1	l2	Price
1.00	3.00	55	13	48.20
1.50	3.00	55	20	48.20
2.00	4.00	65	26	57.05
2.50	4.00	70	33	57.05
3.00	4.00	80	39	57.05
3.50	4.00	80	46	57.05
4.00	6.00	95	52	65.20
4.50	6.00	95	59	65.20
5.00	6.00	102	65	82.20
5.50	6.00	115	72	82.20
6.00	6.00	125	78	82.20

TTD 212 with coolant holes

d1	d2	l1	l2	Price
1.00	3.00	55	16	51.60
1.50	3.00	55	24	51.60
2.00	4.00	75	32	58.40
2.50	4.00	75	40	58.40
3.00	4.00	90	48	65.20
3.50	4.00	95	56	65.20
4.00	6.00	102	64	75.40
4.50	6.00	115	72	75.40
5.00	6.00	125	80	102.60
5.50	6.00	125	88	102.60
6.00	6.00	140	96	102.60

TTD 215 with coolant holes

d1	d2	l1	l2	Price
1.00	3.00	65	19	55.05
1.50	3.00	65	29	55.05
2.00	4.00	75	38	65.20
2.50	4.00	85	47	65.20
3.00	4.00	95	57	72.05
3.50	4.00	105	66	72.05
4.00	6.00	115	76	82.20
4.50	6.00	125	86	82.20
5.00	6.00	140	96	109.40

High performance twist drill, right hand cutting, reinforced shank.

HRC < 48

Cast iron

6.12

High Performance 3 Flute Carbide Drill

Tusa Top Drill 305

5xD For Aluminium

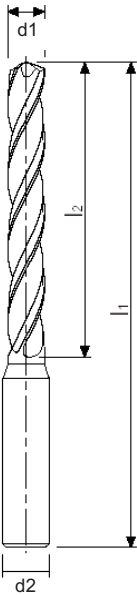


for Quality & Service

www.toolex.co.uk

TTD 305

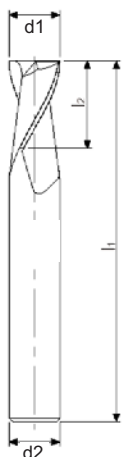
d1	d2	l1	l2	Price	d1	d2	l1	l2	Price
0.80	3	46	5.6	24.35	4.00	6	74	28	45.15
0.90	3	46	7	24.35	4.10	6	74	30	45.15
1.00	3	46	7	24.35	4.20	6	74	30	45.15
1.10	3	46	8.5	24.35	4.30	6	74	32	46.30
1.20	3	46	8.5	26.05	4.40	6	74	32	46.30
1.30	3	46	10	26.05	4.50	6	74	32	46.30
1.40	3	50	10	27.25	4.60	6	74	34	46.30
1.50	3	50	11	27.80	4.70	6	74	34	46.30
1.60	3	50	11	27.80	4.80	6	82	34	46.30
1.70	3	50	12.5	28.35	4.90	6	82	36	46.30
1.80	3	50	12.5	28.35	5.00	6	82	36	46.30
1.90	3	50	14	28.90	5.10	6	82	36	46.30
2.00	4	56	14	31.85	5.20	6	82	38	46.30
2.10	4	56	15.5	31.85	5.30	6	82	38	46.30
2.20	4	56	15.5	31.85	5.40	6	82	38	46.30
2.30	4	56	17	32.40	5.50	6	82	40	46.30
2.40	4	56	17	32.40	5.60	6	82	40	46.30
2.50	4	56	18	33.60	5.70	6	82	40	46.30
2.60	4	59	18	33.60	5.80	6	82	42	46.30
2.70	4	59	19.5	34.15	5.90	6	82	42	46.30
2.80	4	59	19.5	34.15	6.00	6	82	42	46.30
2.90	4	59	21	34.75					
3.00	4	59	21	34.75					
3.10	6	66	24	41.10					
3.20	6	66	24	41.10					
3.30	6	66	24	41.10					
3.40	6	66	24	41.70					
3.50	6	66	26	41.70					
3.60	6	66	26	41.70					
3.70	6	66	26	41.70					
3.80	6	74	28	44.00					
3.90	6	74	28	45.15					



High performance twist drill, right hand cutting, reinforced shank.

TUSA

-
-
- Cast iron
-
- Aluminium



MS 122

d1	d2	l1	l2	Price £
2.00	2.00	42	6	7.20
2.50	2.50	42	7	8.05
3.00	3.00	45	7	8.70
3.50	3.50	40	12	10.05
4.00	4.00	50	8	10.05
4.50	4.50	50	14	11.90
5.00	5.00	50	10	11.90
5.50	5.50	50	16	13.70
6.00	6.00	57	10	13.70
7.00	7.00	60	13	18.15
8.00	8.00	63	16	20.85
9.00	9.00	67	16	25.60
10.00	10.00	72	19	28.25
11.00	11.00	70	22	46.65
12.00	12.00	83	22	46.65
14.00	14.00	83	22	60.30*
16.00	16.00	92	26	78.90*
18.00	18.00	92	26	103.00*
20.00	20.00	92	26	124.35*

* Available only on request

MS 122 L

d1	d2	l1	l2	Price £
3.00	3.00	55	20	13.70
4.00	4.00	60	20	16.10
5.00	5.00	60	20	17.90
6.00	6.00	65	24	22.05
8.00	8.00	80	32	32.75
10.00	10.00	80	32	39.85
12.00	12.00	100	50	71.10
14.00	14.00	100	50	88.70*
16.00	16.00	100	50	111.30*
18.00	18.00	100	50	130.30*
20.00	20.00	100	50	154.15*

* Available only on request

MS 122 XL

d1	d2	l1	l2	Price £
3.00	3.00	70	30	18.50
4.00	4.00	75	40	23.85
5.00	5.00	80	40	28.25
6.00	6.00	80	45	32.90
8.00	8.00	100	50	42.25
10.00	10.00	100	50	52.40
12.00	12.00	150	70	104.55
14.00	14.00	150	75	133.30*
16.00	16.00	150	75	165.35*
18.00	18.00	150	75	205.10*
20.00	20.00	150	75	228.40*

* Available only on request

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

MS 123

d1	d2	l1	l2	Price £
2.00	2.00	42	6	11.30
2.50	2.50	42	7	11.90
3.00	3.00	45	7	12.55
4.00	4.00	50	8	13.70
5.00	5.00	50	10	16.10
6.00	6.00	57	10	17.90
7.00	7.00	60	13	22.05
8.00	8.00	63	16	25.60
9.00	9.00	67	16	31.20
10.00	10.00	72	19	31.85
12.00	12.00	83	22	50.15
14.00	14.00	83	22	73.00*
16.00	16.00	92	26	95.25*
20.00	20.00	101	32	137.50 *

* Available only on request

MS 123 L

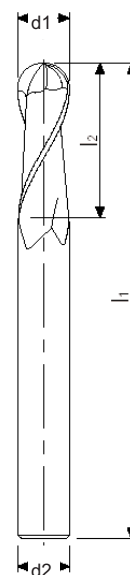
d1	d2	l1	l2	Price £
3.00	3.00	55	20	17.80
4.00	4.00	60	20	20.15
5.00	5.00	60	20	21.50
6.00	6.00	65	24	25.05
8.00	8.00	80	32	35.55
10.00	10.00	80	32	44.10
12.00	12.00	100	50	73.60
14.00	14.00	100	50	95.25*
16.00	16.00	100	50	125.60*
20.00	20.00	100	50	168.40*

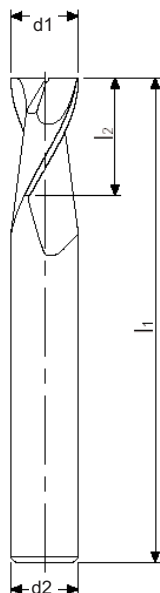
* Available only on request

MS 123 XL

d1	d2	l1	l2	Price £
3.00	3.00	70	30	22.05
4.00	4.00	75	40	26.25
5.00	5.00	80	40	29.20
6.00	6.00	80	45	33.90
8.00	8.00	100	50	41.70
10.00	10.00	100	50	53.00
12.00	12.00	150	70	100.60
14.00	14.00	150	75	126.75*
16.00	16.00	150	75	157.70*
20.00	20.00	150	75	220.75*

* Available only on request

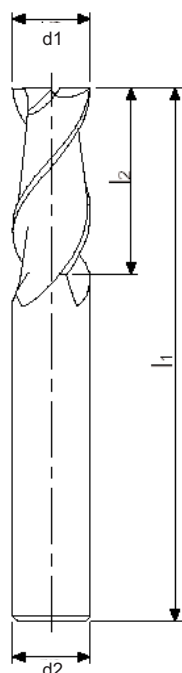

HRC < 48
Stainless
Cast iron
Titanium
Aluminium



MS 124: (Plastics)

d1	d2	l1	l2	Price £
2.00	2.00	40	10	12.40
3.00	3.00	40	12	14.10
4.00	4.00	40	12	14.85
5.00	5.00	50	12	16.30
6.00	6.00	60	18	20.20
7.00	7.00	60	18	24.15
8.00	8.00	60	18	24.40
9.00	9.00	70	22	31.85
10.00	10.00	70	22	33.35
12.00	12.00	70	22	46.90
14.00	14.00	80	25	65.35*
16.00	16.00	80	25	85.75*
18.00	18.00	100	30	107.70*
20.00	20.00	100	35	145.80*

* Available only on request



MS 125: (Aluminium)

d1	d2	L1	l2	Price £
3.00	6	60	8	18.85
4.00	6	60	10	19.65
5.00	6	60	12	19.65
6.00	6	60	18	18.55
8.00	8	60	18	22.15
10.00	10	70	22	31.75
12.00	12	70	22	44.25
14.00	14	80	25	65.75*
16.00	16	80	25	82.20*
18.00	18	100	30	107.15*
20.00	20	100	35	135.50*

* Available only on request

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

Plastic

Copper

Aluminium

MS 131

d1	d2	l1	l2	Price £
2.00	2.00	42	6	7.20
2.50	2.50	42	7	7.75
3.00	3.00	45	7	8.35
3.50	3.50	50	7	8.90
4.00	4.00	50	8	9.60
4.50	4.50	50	8	10.40
5.00	5.00	50	10	11.30
5.50	5.50	57	10	12.90
6.00	6.00	57	10	13.50
7.00	7.00	60	13	17.05
8.00	8.00	63	16	19.90
9.00	9.00	67	16	24.40
10.00	10.00	72	19	25.85
11.00	11.00	83	22	37.25
12.00	12.00	83	22	39.30
13.00	13.00	83	22	48.20
14.00	14.00	83	22	51.80*
15.00	15.00	92	26	64.85*
16.00	16.00	92	26	69.65*
18.00	18.00	92	26	87.50*
20.00	20.00	92	32	100.60*

* Available only on request

MS 131 L

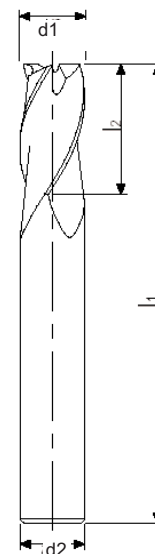
d1	d2	l1	l2	Price £
3.00	3.00	55	20	13.70
4.00	4.00	60	20	14.30
5.00	5.00	60	20	16.10
6.00	6.00	65	24	19.65
8.00	8.00	80	32	29.80
10.00	10.00	80	32	35.15
12.00	12.00	100	50	55.35
14.00	14.00	100	50	73.20*
16.00	16.00	100	50	97.05*
18.00	18.00	100	50	130.30*
20.00	20.00	100	50	303.20*

* Available only on request

MS 131 XL

d1	d2	l1	l2	Price £
3.00	3.00	70	30	17.25
4.00	4.00	75	40	20.55
5.00	5.00	80	40	24.10
6.00	6.00	80	45	27.40
8.00	8.00	100	50	35.15
10.00	10.00	100	50	43.50
12.00	12.00	150	70	75.60
14.00	14.00	150	75	100.60*
16.00	16.00	150	75	125.60*
18.00	18.00	150	75	152.90*
20.00	20.00	150	75	181.50*

* Available only on request



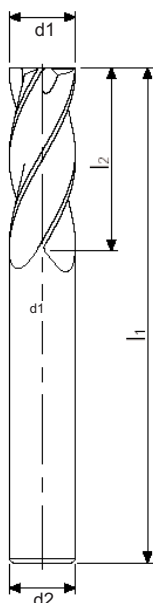
HRC < 48

Stainless

Cast iron

Titanium

Aluminium



MS 141

d1	d2	l1	l2	Price £
2.00	2.00	42	7	8.00
2.50	2.50	42	8	8.60
3.00	3.00	45	8	9.25
3.50	3.50	50	10	10.10
4.00	4.00	50	11	10.80
4.50	4.50	50	11	12.30
5.00	5.00	50	13	12.75
5.50	5.50	57	13	14.50
6.00	6.00	57	13	14.50
6.50	6.50	60	16	17.55
7.00	7.00	60	16	18.00
7.50	7.50	63	19	21.85
8.00	8.00	63	19	22.05
8.50	8.50	67	19	23.70
9.00	9.00	67	19	25.70
9.50	9.50	72	22	27.80
10.00	10.00	72	22	28.15
11.00	11.00	83	26	40.40
12.00	12.00	83	26	42.50
13.00	13.00	83	26	49.50
14.00	14.00	83	26	54.55*
15.00	15.00	92	32	65.50*
16.00	16.00	92	32	72.85*
18.00	18.00	92	32	92.40*
20.00	20.00	101	38	113.25*

* Available only on request

MS 141 L

d1	d2	l1	l2	Price £
3.00	3.00	55	20	13.50
4.00	4.00	60	20	14.00
5.00	5.00	60	20	17.35
6.00	6.00	65	24	20.85
8.00	8.00	80	32	31.00
10.00	10.00	80	32	38.60
12.00	12.00	100	50	58.20
14.00	14.00	100	50	75.30*
16.00	16.00	100	50	96.10*
18.00	18.00	100	50	116.90*
20.00	20.00	100	50	135.25*

* Available only on request

MS 141 XL

d1	d2	l1	l2	Price £
3.00	3.00	70	30	17.35
4.00	4.00	75	40	21.90
5.00	5.00	80	40	25.50
6.00	6.00	80	45	29.40
8.00	8.00	100	50	38.00
10.00	10.00	100	50	44.70
12.00	12.00	150	70	78.35
14.00	14.00	150	75	102.20*
16.00	16.00	150	75	124.25*
18.00	18.00	150	75	162.25*
20.00	20.00	150	75	196.50*

* Available only on request

Reamers

Centre Drills &
Spotting Drills

Countersinks
Counterbores

Slot Drills
End Mills

Taps
Dies

TUSA
Carbide Tooling

HRC < 48

Stainless

Cast iron

Titanium

Aluminium

MS 142

d1	d2	l1	l2	Price £
2.00	2.00	42	7	11.35
2.50	2.50	42	8	12.20
3.00	3.00	45	8	14.15
3.50	3.50	50	10	14.20
4.00	4.00	50	11	14.20
4.50	4.50	50	11	15.90
5.00	5.00	50	13	15.90
5.50	5.50	57	13	18.20
6.00	6.00	57	13	18.20
6.50	6.50	60	16	20.40
7.00	7.00	60	16	20.90
7.50	7.50	63	19	24.40
8.00	8.00	63	19	24.40
8.50	8.50	67	19	26.10
9.00	9.00	67	19	27.80
9.50	9.50	72	22	30.10
10.00	10.00	72	22	29.55
11.00	11.00	83	26	42.00
12.00	12.00	83	26	43.10
13.00	13.00	83	26	51.60
14.00	14.00	83	32	56.15*
15.00	15.00	92	32	67.50*
16.00	16.00	92	32	76.55*
20.00	20.00	101	38	117.35*

* Available only on request

MS 142 L

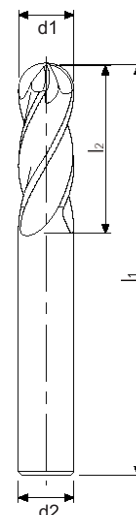
d1	d2	l1	l2	Price £
3.00	3.00	55	20	18.00
4.00	4.00	60	20	18.75
5.00	5.00	60	20	21.60
6.00	6.00	65	24	24.40
8.00	8.00	80	32	35.75
10.00	10.00	80	32	40.25
12.00	12.00	100	50	60.70
14.00	14.00	100	50	74.25*
16.00	16.00	100	50	92.40*
20.00	20.00	100	50	135.50*

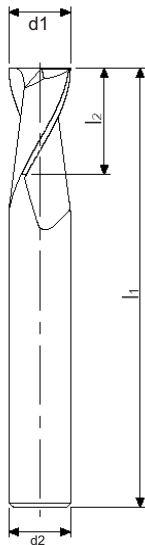
* Available only on request

MS 142 XL

d1	d2	l1	l2	Price £
3.00	3.00	70	30	21.05
4.00	4.00	75	40	25.15
5.00	5.00	80	40	28.70
6.00	6.00	80	45	33.25
8.00	8.00	100	50	40.85
10.00	10.00	100	50	46.55
12.00	12.00	150	70	79.90
14.00	14.00	150	75	106.05*
16.00	16.00	150	75	130.90*
20.00	20.00	150	75	193.25*

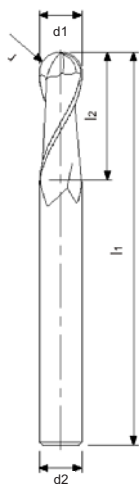
* Available only on request


HRC < 48
Stainless
Cast iron
Titanium
Aluminium



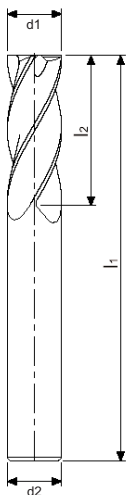
MX 122 2 Flute

d1	d2	l1	l2	Price £
3.00	6.00	45	8	46.90
4.00	6.00	45	11	48.55
5.00	6.00	50	13	51.75
6.00	6.00	50	13	54.90
8.00	8.00	60	19	60.55
10.00	10.00	70	19	86.10
12.00	12.00	70	26	97.25



MX 123 Ball Nose

d1	d2	l1	l2	R	Price £
6.00	6.00	90	12	3	60.55
8.00	8.00	100	18	4	67.70
10.00	10.00	100	18	5	91.65
12.00	12.00	110	22	6	104.35



MX 141 4 Flute

d1	d2	l1	l2	Price
5.00	6.00	50	13	56.50
6.00	6.00	50	13	60.55
8.00	8.00	60	19	67.70
10.00	10.0	70	19	91.65
12.00	12.0	75	26	104.35

High performance high speed end mills for steel

HRC < 48

HRC 48 - 52

HRC 52 - 56

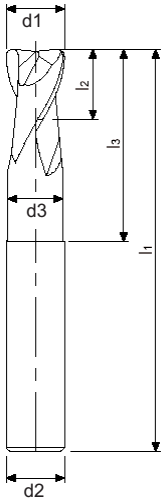
Cast iron

Carbide End Mill for Aluminium
with corner radius
Alu Eater



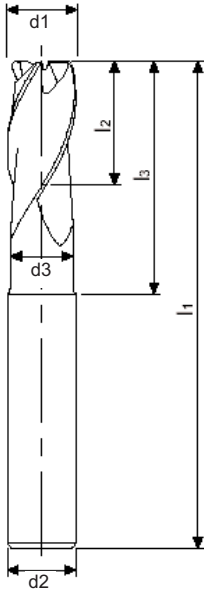
MA 125 2 flute

d1	d2	d3	l1	l2	l3	r	Price £
3.00	6.00	2.8	57	4.00	9	0.5	28.65
4.00	6.00	3.7	57	5.00	12	0.5	30.15
5.00	6.00	4.6	57	6.00	15	0.5	30.80
6.00	6.00	5.5	57	7.00	20	1	30.80
8.00	8.00	7.4	63	9.00	26	1	45.20
10.00	10.00	9.2	72	11.00	31	1.5	56.70
12.00	12.00	11	83	13.00	37	1.5	79.00



MA 135 3 flute

d1	d2	d3	l1	l2	l3	r	Price £
3.00	6.00	2.8	57	4.00	9	0.5	31.15
4.00	6.00	3.7	57	5.00	12	0.5	31.85
5.00	6.00	4.6	57	6.00	15	0.5	33.90
6.00	6.00	5.5	57	7.00	20	1	35.30
8.00	8.00	7.4	63	9.00	26	1	50.20
10.00	10.00	9.2	72	11.00	31	1.5	61.05
12.00	12.00	11	83	13.00	37	1.5	82.10



High performance high speed end mills for aluminium

TUSA

- Aluminium
- Plastic
- Copper
-
-

Dimensions in mm unless stated.
Specifications subject to change without notice.
Prices exclusive of V.A.T. Correct as at January 2009