

# REAMERS



## **Reamers**

- Hand
- Machine (Morse Taper & Chucking)
- Bridge
- Taper Pin
- Morse Taper Socket
- Taper Pipe
- Adjustable

# the ultimate reference book is here...

# BLACK BOOK

The ultimate reference book:

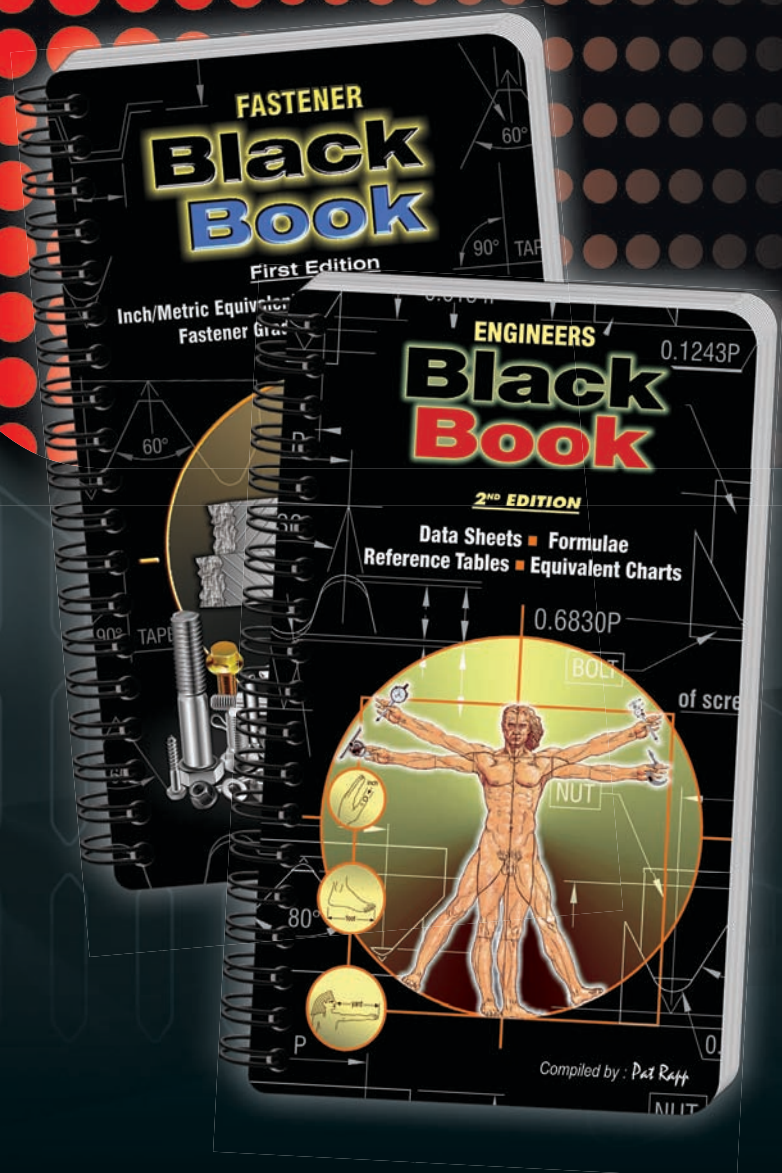
- Matt laminated grease proof pages
- Wire bound to stay flat on workbench when reading
- Ideal for engineers, trades people, apprentices, machine shops, tool rooms, technical colleges

#### Engineers Black Book

- Tables • Standards • Illustrations
- Grinding wheels • Conversion factors
- Tapers • Lubricants-coolants • G Codes
- Spur gear calculations • Tolerances
- Hardening & tempering • Weights of metal
- Geometrical construction • Formulae
- Engineering drawing standards • Plastics
- Bolts & nuts • Tungsten carbide
- Keys & keyways • Tapping drill sizes
- Speeds & feeds • Equivalent charts
- Sharpening information

#### Fastener Black Book

- Screw thread fundamentals • Standards
- Thread classes • Thread terminology
- Grades • Heat treatment • Material selection
- Materials & coatings • Failures & corrosion
- Fastener strengths & markings • Platings
- Tolerances • Hydrogen embrittlement
- Screw thread profiles • Torque control
- Galling • Elevated temperature effects
- Dimensional Specifications DIN / ISO / ANSI



[www.suttontools.com.au/Brands\\_BlackBook](http://www.suttontools.com.au/Brands_BlackBook)



	Reamer Hand	Reamer Machine	Reamer Chucking	Reamer Bridge	Reamer Taper Pin	Reamer Morse Taper Socket	Reamer Morse Taper Socket	Reamer Taper Pipe	Reamer Adjustable	
Page	392	394	397	398	399	400	400	401	402	
Catalogue Code	R100	R101	R102	R104	R105	R106	R107	R108	R109	
Material	HSS		HSS Co		HSS			TCA		
Surface Finish	Brt									
Colour Ring & Application	General Purpose					Roughing	Finishing	Tapered Pipe	General Purpose	
Standard	DIN 206 / ISO 236	DIN 208 / ISO 521	DIN 212 / ISO 521	Sutton Standard						
Material	L7°							L15°	Straight	
Geometry	L7°							L15°	Straight	

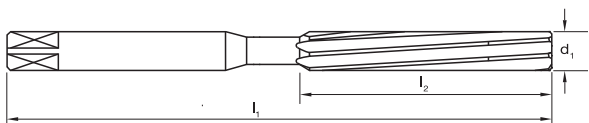
Material	HB	N/mm <sup>2</sup>	% Elong.									
<b>1.0 Steels</b>												
1.1 Mild steels, magnetic soft steel	<200	>200 <400	10	●	●	●	●	●	●	●	●	○
1.2 Free cutting, structural, unalloyed	<200	>350 <700	30	●	●	●	●	●	●	●	●	○
1.3 Plain carbon, low allowed	<300	>350 <850	20	●	●	●	●	●	●	●	●	○
1.4 Alloy steels harden. / tempered	<250	>500 <850	30	○	○	○	○	○	○	○	○	
1.5 Alloy steels harden. / tempered	<350	>850 <1200	30	○	○	○	○	○	○	○	○	
1.6 Hardened, heat treated, high tensile alloy	<420	>1500	12									
1.7 Hardened Steel 45-50 Rc	<550		<12									
1.8 Hardened Steel 50-62 Rc	<700		<12									
<b>2.0 Stainless Steels</b>												
2.1 Free machining	<250	<850	25	○	○	○	○	○	○	○	○	
2.2 Austenitic	<250	<850	20	○	○	○	○	○	○	○	○	
2.3 Ferritic + martensitic	<250	<850	20	○	○	○	○	○	○	○	○	
<b>3.0 Cast Irons</b>												
3.1 Lamellar graphite (Grey soft)	<150	<500	10	●	●	●	●	●	●	●	●	○
3.2 Lamellar graphite (Grey hard)	<300	<1000	10	○	○	○	○	○	○	○	○	
3.3 Nodular (spheroidal) graphite & malleable	<200	<700	10	○	○	○	○	○	○	○	○	
<b>4.0 Titaniums</b>												
4.1 Pure Titanium	<250	<850	20									
4.2 Titanium alloys	>250	>850	20									
<b>5.0 Nickels</b>												
5.1 Nickel alloys	<250	<850	25									
5.2 Nickel alloys	>250	>850	25									
<b>6.0 Coppers</b>												
6.1 Pure Copper (electrolitic copper)	<120	<400	12	○	○	○	○	○	○	○	○	○
6.2 Short chip Brass, Phosphor Bronze, gun metal	<200	<700	12	○	○	○	○	○	○	○	○	
6.3 Long chip Brass, Bronze	<200	<700	12	○	○	○	○	○	○	○	○	
<b>7.0 Aluminiums</b>												
7.1 Aluminium unalloyed	<100	<350	15	○	○	○	○	○	○	○	○	○
7.2 Magnesium unalloyed	<150	<350	15	○	○	○	○	○	○	○	○	○
7.3 Al Alloyed Si < 1.5 %	<120	<500	15	○	○	○	○	○	○	○	○	○
7.4 Al Alloyed 1.5 % < Si < 10%	<120	<400	10	○	○	○	○	○	○	○	○	○
7.5 Al Alloyed > 10% Si	-	<400	N									
7.6 Magnesium alloys	-	<400	N									
<b>8.0 Plastics</b>												
8.1 Plastics, Thermoplastics, Polyethylene	<340	<50	N									

● Optimal ○ Effective

# Reamers Hand



- For use by hand with suitable wrench
- Suitable for tool rooms & workshop use
- Produces clean, accurate holes, to a H7 plus tolerance

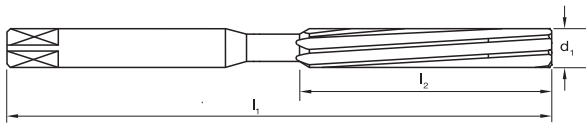


Catalogue Code							<b>R100</b>
Discount Group							B0302
Material							<b>HSS</b>
Surface Finish							<b>Brt</b>
Colour Ring & Application							<b>N</b>
Geometry							L7°
$d_1$		$l_1$	$l_2$	$l_3$	$d_2$	$z$	Item #
3.00		62	31	-		6	R100 0300
3.17	1/8	2-5/8	1-5/16	-		6	R100 0318
3.50		71	35	-		6	R100 0350
3.57	9/64	2-3/16	1-3/8	-		6	R100 0357
3.97	5/32	3	1-1/2	-		6	R100 0397
4.00		76	38	-		6	R100 0400
4.36	11/64	3-3/16	1-5/8	-		6	R100 0437
4.50		81	41	-		6	R100 0450
4.76	3/16	3-7/16	1-3/4	-		6	R100 0476
5.00		87	44	-		6	R100 0500
5.16	13/64	3-7/16	1-3/4	-		6	R100 0516
5.50		93	47	-		6	R100 0550
5.56	7/32	3-11/16	1-7/8	-		6	R100 0556
5.95	15/64	3-11/16	1-7/8	-		6	R100 0595
6.00		93	47	-		6	R100 0600
6.35	1/4	3-15/16	2	-		6	R100 0635
6.50		100	50	-		6	R100 0650
6.75	17/64	3-15/16	2	-		6	R100 0675
7.00		107	54	-		6	R100 0700
7.14	9/32	4-3/16	2-1/8	-		6	R100 0714
7.50		107	54	-		6	R100 0750
7.54	19/64	4-3/16	2-1/8	-		6	R100 0754
7.94	5/16	4-1/2	2-1/4	-		6	R100 0794
8.00		115	58	-		6	R100 0800
8.33	21/64	4-7/8	2-1/4	-		6	R100 0833
8.50		115	58	-		6	R100 0850
8.73	11/32	4-7/8	2-7/16	-		6	R100 0873
9.00		124	62	-		6	R100 0900
9.13	23/64	4-7/8	2-7/16	-		8	R100 0913
9.50		124	62	-		6	R100 0950
9.52	3/8	5-1/4	2-5/8	-		8	R100 0953
9.92	25/64	5-1/4	2-5/8	-		8	R100 0992
10.00		133	66	-		6	R100 1000
10.32	13/32	5-1/4	2-5/8	-		8	R100 1032
10.50		133	66	-		6	R100 1050
11.00		142	71	-		6	R100 1100
11.11	7/16	5-5/8	2-13/16	-		8	R100 1111
11.50		142	71	-		6	R100 1150
11.51	29/64	5-5/8	2-13/16	-		8	R100 1151
11.91	15/32	6	3	-		8	R100 1191
12.00		152	76	-		6	R100 1200
12.30	31/64	6	3	-		8	R100 1230
12.50		152	76	-		6	R100 1250
12.70	1/2	6	3	-		8	R100 1270

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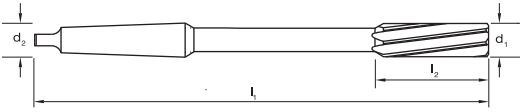


Catalogue Code							<b>R100</b>
Discount Group							B0302
Material							<b>HSS</b>
Surface Finish							<b>Br</b>
Colour Ring & Application							<b>N</b>
Geometry							L7°
$d_1$		$l_1$	$l_2$	$l_3$	$d_2$	$z$	Item #
<b>13.00</b>		152	76	-		6	R100 1300
13.10	<b>33/64</b>	6	3	-		8	R100 1310
13.49	<b>17/32</b>	6-7/16	3-3/16	-		8	R100 1349
	<b>35/64</b>	6-7/16	3-3/16	-		8	R100 1389
<b>13.50</b>		163	81	-		6	R100 1350
<b>14.00</b>		163	81	-		8	R100 1400
14.29	<b>9/16</b>	6-7/16	3-3/16	-		8	R100 1429
<b>14.50</b>		163	81	-		8	R100 1450
14.68	<b>37/64</b>	6-7/16	3-3/16	-		8	R100 1468
<b>15.00</b>		163	81	-		8	R100 1500
15.08	<b>19/32</b>	6-7/8	3-7/16	-		8	R100 1508
	<b>39/64</b>	6-7/8	3-7/16	-		8	R100 1548
15.87	<b>5/8</b>	6-7/8	3-7/16	-		8	R100 1588
<b>16.00</b>		175	87	-		8	R100 1600
16.27	<b>41/64</b>	6-7/8	3-7/16	-		8	R100 1627
16.67	<b>21/32</b>	6-7/8	3-7/16	-		8	R100 1667
<b>17.00</b>		175	87	-		8	R100 1700
17.06	<b>43/64</b>	7-7/16	3-11/16	-		8	R100 1707
17.46	<b>11/16</b>	7-7/16	3-11/16	-		8	R100 1746
<b>18.00</b>		188	93	-		8	R100 1800
18.26	<b>23/32</b>	7-7/16	3-11/16	-		8	R100 1826
<b>19.00</b>		188	93	-		8	R100 1900
19.05	<b>3/4</b>	7-15/16	3-15/16	-		10	R100 1905
19.84	<b>25/32</b>	7-15/16	3-15/16	-		10	R100 1984
<b>20.00</b>		201	100	-		8	R100 2000
20.64	<b>13/16</b>	7-15/16	3-15/16	-		10	R100 2064
<b>21.00</b>		201	100	-		8	R100 2100
21.43	<b>27/32</b>	8-1/2	4-3/16	-		10	R100 2143
<b>22.00</b>		215	107	-		8	R100 2200
22.22	<b>7/8</b>	8-1/2	4-3/16	-		10	R100 2223
<b>23.00</b>		215	107	-		8	R100 2300
23.02	<b>29/32</b>	8-1/2	4-3/16	-		10	R100 2302
23.81	<b>15/16</b>	9-1/16	4-1/2	-		10	R100 2381
<b>24.00</b>		231	115	-		8	R100 2400
24.61	<b>31/32</b>	9-1/16	4-1/2	-		10	R100 2461
<b>25.00</b>		231	115	-		10	R100 2500
25.40	<b>1</b>	9-1/16	4-1/2	-		10	R100 2540

# Reamers Machine



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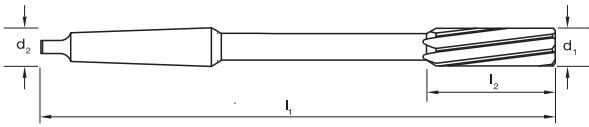


Catalogue Code							R101	
Discount Group							B0302	
Material							HSS	
Surface Finish							Brt	
Colour Ring & Application							N	
Geometry							L7°	
d <sub>1</sub>		l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>2</sub>	z	MT #	Item #
6.00		138	26	-	-	6	1	R101 0600
6.35	1/4	5-43/64	1-3/32	-	-	6	1	R101 0635
6.50		144	28	-	-	6	1	R101 0650
6.75	17/64	5-43/64	1-3/32	-	-	6	1	R101 0675
7.00		150	31	-	-	6	1	R101 0700
7.14	9/32	5-29/32	1-13/64	-	-	6	1	R101 0714
7.50		150	31	-	-	6	1	R101 0750
7.54	19/64	5-29/32	1-13/64	-	-	6	1	R101 0754
7.94	5/16	6-9/64	1-5/16	-	-	6	1	R101 0794
8.00		156	33	-	-	6	1	R101 0800
8.33	21/64	6-9/64	1-5/16	-	-	6	1	R101 0833
8.50		156	33	-	-	6	1	R101 0850
8.73	11/32	6-3/8	1-27/64	-	-	6	1	R101 0873
9.00		162	36	-	-	6	1	R101 0900
9.13	23/64	6-3/8	1-27/64	-	-	6	1	R101 0913
9.50		162	36	-	-	6	1	R101 0950
9.52	3/8	6-3/8	1-27/64	-	-	6	1	R101 0953
9.92	25/64	6-39/64	1-1/2	-	-	6	1	R101 0992
10.00		168	38	-	-	6	1	R101 1000
10.32	13/32	6-39/64	1-1/2	-	-	6	1	R101 1032
10.50		168	38	-	-	6	1	R101 1050
10.71	27/64	6-57/64	1-39/64	-	-	6	1	R101 1072
11.00		175	41	-	-	6	1	R101 1100
11.11	7/16	6-57/64	1-39/64	-	-	6	1	R101 1111
11.50		175	41	-	-	6	1	R101 1150
11.51	29/64	6-57/64	1-39/64	-	-	6	1	R101 1151
11.91	15/32	6-57/64	1-39/64	-	-	6	1	R101 1191
12.00		182	44	-	-	6	1	R101 1200
12.30	31/64	7-11/64	1-47/64	-	-	6	1	R101 1230
12.50		182	44	-	-	6	1	R101 1250
12.70	1/2	7-11/64	1-47/64	-	-	6	1	R101 1270
13.00		182	44	-	-	6	1	R101 1300
13.10	33/64	7-11/64	1-47/64	-	-	6	1	R101 1310
13.49	17/32	7-7/16	1-27/32	-	-	6	1	R101 1349
13.50		189	47	-	-	6	1	R101 1350
13.89	35/64	7-7/16	1-27/32	-	-	6	1	R101 1389
14.00		189	47	-	-	8	1	R101 1400

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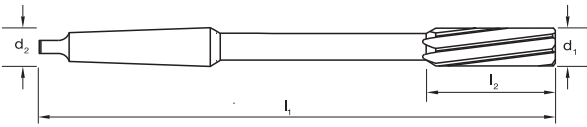


Catalogue Code								<b>R101</b>
Discount Group								B0302
Material								<b>HSS</b>
Surface Finish								<b>Br</b>
Colour Ring & Application								<b>N</b>
Geometry								L7°
$d_1$		$l_1$	$l_2$	$l_3$	$d_2$	$z$	MT #	Item #
14.29	<b>9/16</b>	8-1/32	1-31/32	-	-	8	2	R101 1429
<b>14.50</b>		204	50	-	-	8	2	R101 1450
14.68	<b>37/64</b>	8-1/32	1-31/32	-	-	8	2	R101 1468
<b>15.00</b>		204	50	-	-	8	2	R101 1500
15.08	<b>19/32</b>	8-17/64	2-3/64	-	-	8	2	R101 1508
<b>15.50</b>		210	52	-	-	8	2	R101 1550
15.48	<b>39/64</b>	8-17/64	2-3/64	-	-	8	2	R101 1548
15.87	<b>5/8</b>	8-17/64	2-3/64	-	-	8	2	R101 1588
<b>16.00</b>		210	52	-	-	8	2	R101 1600
16.27	<b>41/64</b>	8-7/16	2-1/8	-	-	8	2	R101 1627
<b>16.50</b>		214	54	-	-	8	2	R101 1650
16.67	<b>21/32</b>	8-7/16	2-1/8	-	-	8	2	R101 1667
<b>17.00</b>		214	54	-	-	8	2	R101 1700
17.06	<b>43/64</b>	8-5/8	2-13/64	-	-	8	2	R101 1707
17.46	<b>11/16</b>	8-5/8	2-13/64	-	-	8	2	R101 1746
<b>17.50</b>		219	56	-	-	8	2	R101 1750
17.86	<b>45/64</b>	8-5/8	2-13/64	-	-	8	2	R101 1786
<b>18.00</b>		219	56	-	-	8	2	R101 1800
18.26	<b>23/32</b>	8-5/8	2-13/64	-	-	8	2	R101 1826
<b>18.50</b>		223	58	-	-	8	2	R101 1850
<b>19.00</b>		223	58	-	-	8	2	R101 1900
19.05	<b>3/4</b>	8-25/32	2-9/32	-	-	8	2	R101 1905
<b>19.50</b>		228	60	-	-	8	2	R101 1950
<b>20.00</b>		228	60	-	-	8	2	R101 2000
<b>20.50</b>		232	62	-	-	8	2	R101 2050
20.64	<b>13/16</b>	9-1/8	2-7/16	-	-	8	2	R101 2064
<b>21.00</b>		232	62	-	-	8	2	R101 2100
21.43	<b>27/32</b>	9-1/8	2-7/16	-	-	8	2	R101 2143
<b>21.50</b>		237	64	-	-	8	2	R101 2150
<b>22.00</b>		237	64	-	-	8	2	R101 2200
22.22	<b>7/8</b>	9-21/64	2-33/64	-	-	8	2	R101 2223
<b>22.50</b>		241	66	-	-	8	2	R101 2250
<b>23.00</b>		241	66	-	-	8	2	R101 2300
23.02	<b>29/32</b>	9-21/64	2-33/64	-	-	8	2	R101 2302

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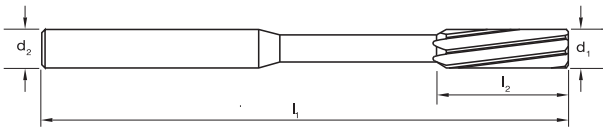
Catalogue Code								<b>R101</b>
Discount Group								B0302
Material								<b>HSS</b>
Surface Finish								<b>Brt</b>
Colour Ring & Application								<b>N</b>
Geometry								L7°
$d_1$		$l_1$	$l_2$	$l_3$	$d_2$	$z$	MT #	Item #
<b>23.50</b>		241	66	-	-	8	3	R101 2350
23.81	<b>15/16</b>	10-35/64	2-11/16	-	-	8	3	R101 2381
<b>24.00</b>		268	68	-	-	8	3	R101 2400
<b>24.50</b>		268	68	-	-	8	3	R101 2450
24.61	<b>31/32</b>	10-35/64	2-11/16	-	-	8	3	R101 2461
<b>25.00</b>		268	68	-	-	10	3	R101 2500
25.40	<b>1</b>	10-35/64	2-11/16	-	-	8	3	R101 2540
<b>25.50</b>		273	70	-	-	10	3	R101 2550
<b>26.00</b>		273	70	-	-	10	3	R101 2600
<b>26.50</b>		273	70	-	-	10	3	R101 2650
26.99	<b>1-1/16</b>	10-29/32	2-51/64	-	-	10	3	R101 2699
<b>27.00</b>		277	71	-	-	10	3	R101 2700
<b>27.50</b>		277	71	-	-	10	3	R101 2750
<b>28.00</b>		277	71	-	-	10	3	R101 2800
<b>28.50</b>		281	73	-	-	10	3	R101 2850
28.57	<b>1-1/8</b>	11-1/16	2-7/8	-	-	10	3	R101 2858
<b>29.00</b>		281	73	-	-	10	3	R101 2900
<b>29.50</b>		281	73	-	-	10	3	R101 2950
<b>30.00</b>		281	73	-	-	10	3	R101 3000
30.16	<b>1-3/16</b>	11-7/32	2-61/64	-	-	10	3	R101 3016
<b>30.50</b>		285	75	-	-	10	3	R101 3050
<b>31.00</b>		285	75	-	-	10	3	R101 3100
<b>31.50</b>		285	75	-	-	10	3	R101 3150
31.75	<b>1-1/4</b>	11-27/64	3-1/32	-	-	10	3	R101 3175
<b>32.00</b>		317	77	-	-	10	4	R101 3200
<b>33.00</b>		317	77	-	-	10	4	R101 3300
33.34	<b>1-5/16</b>	12-31/64	3-1/32	-	-	10	4	R101 3334
<b>34.00</b>		321	78	-	-	10	4	R101 3400
34.92	<b>1-3/8</b>	12-41/64	3-1/16	-	-	10	4	R101 3493
<b>35.00</b>		321	78	-	-	10	4	R101 3500
<b>36.00</b>		325	79	-	-	12	4	R101 3600
36.51	<b>1-7/16</b>	12-51/64	3-7/64	-	-	12	4	R101 3651
<b>37.00</b>		325	79	-	-	12	4	R101 3700
<b>38.00</b>		329	81	-	-	12	4	R101 3800
38.10	<b>1-1/2</b>	12-61/64	3-1/4	-	-	12	4	R101 3810
<b>39.00</b>		329	81	-	-	12	4	R101 3900
<b>40.00</b>		329	81	-	-	12	4	R101 4000
41.27	<b>1-5/8</b>	13-7/64	3-15/64	-	-	12	4	R101 4128
44.45	<b>1-3/4</b>	13-7/32	3-17/64	-	-	12	4	R101 4445
47.62	<b>1-7/8</b>	13-35/64	3-25/64	-	-	12	4	R101 4763
50.80	<b>2</b>	13-35/64	3-25/64	-	-	12	4	R101 5080



# Reamers Chucking



- Machine use
- Suitable for toolroom & workshop use
- Produces clean, accurate holes, to a H7 plus tolerance

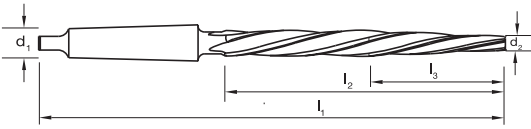


Catalogue Code							<b>R102</b>
Discount Group							B0302
Material							<b>HSS Co</b>
Surface Finish							<b>Brt</b>
Colour Ring & Application							<b>N</b>
Geometry							L7°
$d_1$	$l_1$	$l_2$	$l_3$	$d_2$	$z$	Item #	
2.00	49	11	-	2.0	3	R102 0200	
2.50	57	14	-	2.5	5	R102 0250	
3.00	61	15	-	3.0	5	R102 0300	
3.17	<b>1/8</b>	2-9/16	5/8	-	1/8	5	R102 0318
3.50	70	18	-	3.5	5	R102 0350	
3.57	<b>9/64</b>	2-3/4	45/64	-	9/64	5	R102 0357
3.97	<b>5/32</b>	2-61/64	3/4	-	5/32	6	R102 0397
4.00	75	19	-	4.0	6	R102 0400	
4.36	<b>11/64</b>	3-9/64	53/64	-	11/64	6	R102 0437
4.50	80	21	-	4.5	6	R102 0450	
4.76	<b>3/16</b>	3-25/64	29/32	-	3/16	6	R102 0476
5.00	86	23	-	5.0	6	R102 0500	
5.16	<b>13/64</b>	3-25/64	29/32	-	13/64	6	R102 0516
5.50	93	26	-	5.6	6	R102 0550	
5.56	<b>7/32</b>	3-21/32	1-1/64	-	7/32	6	R102 0556
5.95	<b>15/64</b>	3-21/32	1-1/64	-	15/64	6	R102 0595
6.00	93	26	-	5.6	6	R102 0600	
6.35	<b>1/4</b>	3-63/64	1-7/64	-	1/4	6	R102 0635
6.50	101	28	-	6.3	6	R102 0650	
7.00	109	31	-	7.1	6	R102 0700	
7.50	109	31	-	7.1	6	R102 0750	
7.94	<b>5/16</b>	4-39/64	1-15/64	-	5/16	6	R102 0794
8.00	117	33	-	8.0	6	R102 0800	
8.50	117	33	-	8.0	6	R102 0850	
9.00	125	36	-	9.0	6	R102 0900	
9.50	125	36	-	9.0	6	R102 0950	
9.52	<b>3/8</b>	4-59/64	1-27/64	-	3/8	6	R102 0953
10.00	133	38	-	10.0	6	R102 1000	
10.50	133	38	-	10.0	6	R102 1050	
11.00	142	41	-	10.0	6	R102 1100	
11.11	<b>7/16</b>	5-19/32	1-5/8	-	7/16	6	R102 1111
11.50	142	41	-	10.0	6	R102 1150	
12.00	151	44	-	10.0	6	R102 1200	
12.50	151	44	-	10.0	6	R102 1250	
12.70	<b>1/2</b>	5-61/64	1-47/64	-	1/2	6	R102 1270
13.00	151	44	-	10.0	6	R102 1300	
13.50	160	47	-	12.5	6	R102 1350	
14.00	160	47	-	12.5	8	R102 1400	
14.29	<b>9/16</b>	6-3/8	1-31/32	-	1/2	8	R102 1429
14.50	162	50	-	12.5	8	R102 1450	
15.00	162	50	-	12.5	8	R102 1500	
15.50	170	52	-	12.5	8	R102 1550	
15.87	<b>5/8</b>	6-45/64	2-3/64	-	1/2	8	R102 1588
16.00	170	52	-	12.5	8	R102 1600	

# Reamers Bridge



- Machine use
- For opening out existing holes
- Ideal for alignment in fabrication & construction work

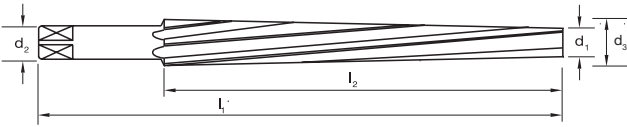


<b>Catalogue Code</b>							<b>R104</b>
<b>Discount Group</b>							B0302
<b>Material</b>							<b>HSS</b>
<b>Surface Finish</b>							<b>Brt</b>
<b>Colour Ring &amp; Application</b>							<b>N</b>
<b>Geometry</b>							L15°
$d_1$	$l_1$	$l_2$	$l_3$	$d_2$	$z$	MT #	Item #
<b>7/16</b>	8-1/8	4-3/8	2-1/8	1/4	4	2	R104 1111
<b>1/2</b>	9-1/8	5-3/8	2-1/2	9/32	4	2	R104 1270
<b>9/16</b>	9-1/8	5-3/8	2-7/8	5/16	4	2	R104 1429
<b>5/8</b>	9-7/8	6-1/8	3-1/4	11/32	4	2	R104 1588
<b>11/16</b>	11-3/4	7-1/8	3-9/16	3/8	5	3	R104 1746
<b>3/4</b>	12	7-3/8	3-9/16	7/16	5	3	R104 1905
<b>13/16</b>	12	7-3/8	3-9/16	1/2	5	3	R104 2064
<b>7/8</b>	12	7-3/8	3-9/16	9/16	5	3	R104 2223
<b>15/16</b>	12	7-3/8	3-9/16	5/8	5	3	R104 2381
<b>1</b>	12	7-3/8	3-9/16	11/16	5	3	R104 2540
<b>1-1/16</b>	12	7-3/8	3-9/16	3/4	5	3	R104 2699
<b>1-1/8</b>	12	7-3/8	3-9/16	13/16	5	3	R104 2858
<b>1-3/16</b>	12	7-3/8	3-9/16	7/8	5	3	R104 3016
<b>1-1/4</b>	13	7-3/8	3-9/16	15/16	5	4	R104 3175

# Reamers Taper Pin



- For use by hand with suitable wrench
- For opening out parallel holes to suit 1:48 taper pins



<b>Catalogue Code</b>							<b>R105</b>
<b>Discount Group</b>							B0302
<b>Material</b>							<b>HSS</b>
<b>Surface Finish</b>							<b>Brt</b>
<b>Colour Ring &amp; Application</b>							<b>N</b>
<b>Geometry</b>							L7°
BS Size	# Series	$l_1$	$l_2$	$d_3$	$d_1$	$z$	Item #
3/32	<b>5/0</b>	2-3/16	1-3/16	.097	.072	4	R105 0238
7/64	<b>4/0</b>	2-5/16	1-5/16	.114	.087	4	R105 0278
1/8	<b>3/0</b>	2-5/16	1-5/16	.130	.103	4	R105 0318
9/64	<b>2/0</b>	2-9/16	1-9/16	.146	.114	5	R105 0357
5/32	<b>0</b>	2-15/16	1-11/16	.164	.129	5	R105 0397
11/64	<b>1</b>	2-15/16	1-11/16	.180	.145	5	R105 0437
3/16	<b>2</b>	3-3/16	1-15/16	.201	.161	5	R105 0476
7/32	<b>3</b>	3-11/16	2-5/16	.229	.181	5	R105 0556
1/4	<b>4</b>	4-1/16	2-9/16	.260	.207	6	R105 0635
9/32	<b>5</b>	4-5/16	2-13/16	.299	.241	6	R105 0714
11/32	<b>6</b>	5-7/16	3-11/16	.354	.277	6	R105 0873
13/32	<b>7</b>	6-5/16	4-7/16	.422	.330	6	R105 1032
1/2	<b>8</b>	7-3/16	5-3/16	.505	.397	6	R105 1270
9/16	<b>9</b>	8-5/16	6-1/16	.607	.481	6	R105 1429
3/4	<b>10</b>	9-5/16	6-13/16	.722	.578	6	R105 1905
7/8	<b>11</b>	11-1/4	8-1/4	.878	.706	6	R105 2223

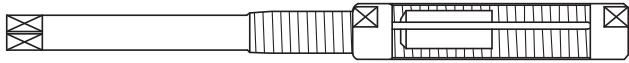




# Reamers Adjustable



- For use by hand with suitable wrench
- General purpose
- Adjustable size range
- TCA (Tungsten Chrome Alloy)



Catalogue Code			R109	R110	R111	R112
Discount Group			B0304	B0304	B0304	B0304
Material			TCA	TCA	TCA	TCA
Surface Finish			<b>Brt</b>	<b>Brt</b>	<b>Brt</b>	<b>Brt</b>
Colour Ring & Application			N	-	-	-
Geometry			Reamer	Blade Sets	Pilots	Nuts
Size	Range (mm)	Range (inch)	Item #	Item #	Item #	Item #
MA8	6.35 - 7.15	1/4 - 9/32	R109 0635			
MA7	7.15 - 7.95	9/32 - 5/16	R109 0715			
MA6	7.95 - 8.70	5/16 - 11/32	R109 0795			
MA5	8.70 - 9.50	11/32 - 3/8	R109 0870			
MA4	9.50 - 10.25	3/8 - 13/32	R109 0950			
MA3	10.25 - 11.00	13/32 - 7/16	R109 1025			
MA2	11.00 - 12.00	7/16 - 15/32	R109 1100			
MA	12.00 - 13.50	15/32 - 17/32	R109 1200	R110 1200	R111 1200	R112 1200
MB	13.50 - 15.00	17/32 - 19/32	R109 1350	R110 1350	R111 1350	R112 1350
MC	15.00 - 16.75	19/32 - 21/32	R109 1500	R110 1500	R111 1500	R112 1500
MD	16.75 - 18.25	21/32 - 23/32	R109 1675	R110 1675	R111 1675	R112 1675
ME	18.25 - 19.75	23/32 - 25/32	R109 1825	R110 1825	R111 1825	R112 1825
MF	19.75 - 21.50	25/32 - 27/32	R109 1975	R110 1975	R111 1975	R112 1975
MG	21.50 - 23.75	27/32 - 15/16	R109 2150	R110 2150	R111 2150	R112 2150
MH	23.75 - 27.00	15/16 - 1-1/16	R109 2375	R110 2375	R111 2375	R112 2375
MI	27.00 - 30.25	1-1/16 - 1-3/16	R109 2700	R110 2700	R111 2700	R112 2700
MJ	30.25 - 34.25	1-3/16 - 1-11/32	R109 3025	R110 3025	R111 3025	R112 3025
MK	34.25 - 38.00	1-11/32 - 1-1/2	R109 3425	R110 3425	R111 3425	R112 3425
ML	38.00 - 46.00	1-1/2 - 1-13/16	R109 3800	R110 3800	R111 3800	R112 3800
MM	46.00 - 56.00	1-13/16 - 2-7/32	R109 4600	R110 4600		R112 4600
MN	56.00 - 69.75	2-7/32 - 2-3/4	R109 5600	R110 5600		R112 5600
MO	69.75 - 85.00	2-3/4 - 3-11/32	R109 6975	R110 6975		R112 6975

### Adjustable Reamer Set - Metal Case

		Pieces	
M1	MA4 to ME (Reamers Only)	8	R109 M1
M2P	MA to MH (Reamers & Pilots)	16	R109 M2P
M3	MA4 to MH (Reamers Only)	11	R109 M3
M6	MA8 to MK (Reamers Only)	18	R109 M6
M8	MA to MI (Reamers Only)	9	R109 M8

### Adjustable Reamer Pilot Set

MA1	MA to MI (Pilots Only)	9		R111 MA1
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MA1

M8