

REAMING

<sup>®</sup>**PRESTO**



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Catalogue 2010

**International UK Ltd**  
Quality Since 1843

# CONTENTS

Product Description	Page
<b>1. Countersinks</b>	<b>3</b>
1.1 Countersinks	4
<b>2. Reaming</b>	<b>7</b>
2.1 Hand Reamers	9
2.2 Machine Reamers with Straight Shank	10
2.3 Machine Reamers with Taper Shank	12
2.4 Socket Reamers	15
2.5 Taper Pin Reamers	16
2.6 NPT Pipe Reamers	17
2.7 Bridge Reamers	17
<b>3. Technical Information</b>	<b>18</b>
3.1 Reaming Allowances	18
3.2 Cutting Fluid Recommendations for HSS-E and Carbide Reamers	18
3.3 Machine Reamers	18
3.4 Hand Reamers	18
<b>4. General Terms of Delivery</b>	<b>19</b>

To view the complete range of H.S.S. & H.S.S. Co Drills, Taps, Reamers, End-Mills and other cutting tools, please see our complete catalogue, or visit our web site at:

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## Countersinks

Countersinks  
Multi Step Drills

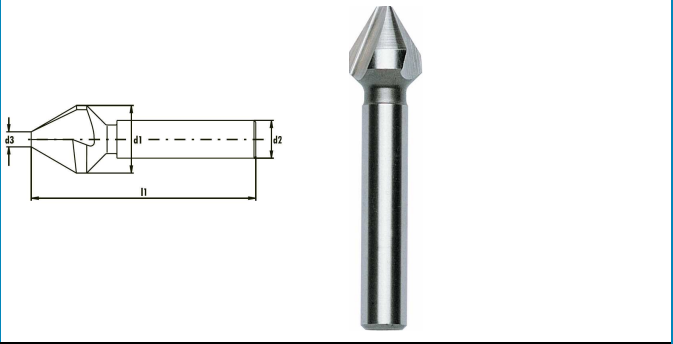




Drilling

**Countersinks 60° (Three Flutes)**  
Straight Shank, HSS, DIN 334

List-No.	78011
Product Group	25



Type	60° Form C
Material	HSS
Surface	P0
Flute Form	Straight
Number of Flutes	3

Packing Unit	All Diam. · 1 pc
--------------	------------------

d1 mm	d3 mm	l1 mm	d2 mm	Availability
6.30	1.6	45	5.0	•
8.00	2.0	50	6.0	•
12.50	3.2	56	8.0	•
16.00	4.0	63	10.0	•
20.00	5.0	67	10.0	•
25.00	6.3	71	10.0	•

Reaming

Threading

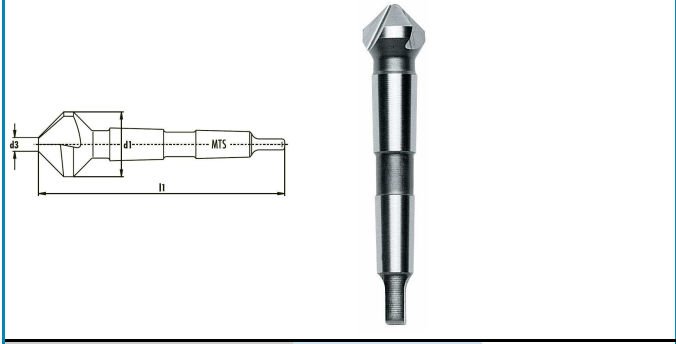
Milling

Miscellaneous

Solid Carbide

**Countersinks 90° (Three Flutes)**  
Taper Shank, HSS, DIN 335

List-No.	78020
Product Group	25



Type	90° Form D
Material	HSS
Surface	P0
Flute Form	Straight
Number of Flutes	3

Packing Unit	All Diam. · 1 pc
--------------	------------------

d1 mm	d3 mm	l1 mm	MTS	Availability
15.00	3.2	85	1	•
16.50	3.2	85	1	•
19.00	3.5	100	2	•
20.50	3.5	100	2	•
23.00	3.8	106	2	•
25.00	3.8	106	2	•
26.00	3.8	106	2	•
28.00	4.0	112	2	•
30.00	4.2	112	2	•
31.00	4.2	112	2	•
34.00	4.5	118	2	•
37.00	4.8	118	2	•
40.00	10.0	140	3	•
50.00	14.0	150	3	•
63.00	16.0	180	4	•
80.00	22.0	190	4	•
100.00	28.0	200	4	•



# RESEARCH

## Reaming

**Hand Reamers**

**Machine Reamers with Taper Shank**

**Machine Reamers with Straight Shank**

**Taper Pin Reamers**

**Bridge Reamers**



## Reamers HSS / HSS-E

	Description	Standard	Type	Form	Material	Dia. mm	Dia. ins	Surface	List-No.	Page
	Hand Reamers	DIN 206	Spiral	B	HSS	1.5 - 40.0	1/16 - 1	P0	73060	9
	Hand Reamers Adjustable	Factory Standard	Reamers		Special Steel	8.0 - 65.0		P0	75090	10
			Set of Blades		Special Steel	8.0 - 65.0		P0	75290	10
	Machine Reamers with Straight Shank	BS 328	Spiral	B	HSS	1.5 - 16.0	1/16 - 1/2	P0	73000	10
		DIN 212	Quick Spiral	E	HSS-E	2.0 - 20.0		P0	75221	11
			Straight Spiral	A, C B, D	HSS-E	1.4 - 20.0		P0	75201 75211	11
	Machine Reamers with Taper Shank	DIN 208	Straight Spiral	A B	HSS-E	3.0 - 50.0		P0	75101 75111	12
			Quick Spiral	C	HSS-E	5.0 - 32.0		P0	75121	12
		BS 328	Spiral	B	HSS	3.0 - 40.0	1/8 - 1 1/2	P0	72000	14
	Socket Reamers	DIN 204	Straight Finishing	C	HSS	MT1 - M6		P0	73080	15
	Taper Pin Reamers with Straight Shank	DIN 9	Straight Finishing Taper 1:50	A B	HSS	1.5 - 50.0		P0	75040	16
		BD 328	Straight Finishing Taper 1:48	A	HSS		1/16 - 1	P0	75020	16
	NPT Pipe Reamers	Factory Standard	Straight Finishing Taper 1:16	A	HSS		1/8 - 2	P0	73200	17
	Bridge Reamers	DIN 311	Spiral		HSS	6.4 - 40.0		P0	72050	17

P0-Bright • P1-Steem Tempered • P2-Bronze • P3-Moc • P4-Nitrided • P5-TiN • P6-TiCN • P7-HY • P8-TiAlN • P9-TiB

Hand Reamers with Straight Shank and Square HSS, DIN 206

Drilling

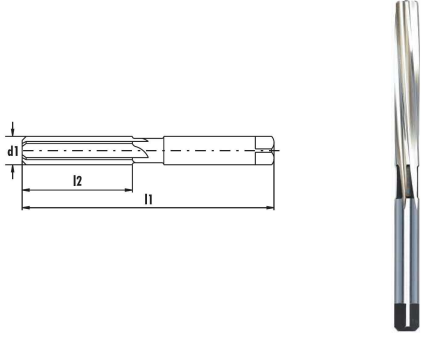
Reaming

Threading

Milling

Miscellaneous

Solid Carbide

List-No.	73060			
Product Group	06			
				
Type	Form B			
Flute Form	Spiral Fluted			
Material	HSS			
Surface	P0			
Taper Lead	Long, Tapered			
Square	Acc. DIN 10			
Packing Unit	All Diam. · 1 pc			
d	d	l1	l2	
mm	ins	mm	mm	
Availability				
1.50		41	20	•
1.588	1/16	41	20	•
1.60		44	21	•
1.80		47	23	•
2.00		50	25	•
2.20		54	27	•
2.381	3/32	54	27	•
2.50		58	29	•
2.80		62	31	•
3.00		62	31	•
3.175	1/8	62	31	•
3.20		66	33	•
3.50		71	35	•
3.572	9/64	71	35	•
3.969	5/32	71	35	•
4.00		76	38	•
4.50		81	41	•
4.763	3/16	81	41	•
5.00		87	44	•
5.159	13/64	87	44	•
5.50		93	47	•
5.556	7/32	93	47	•
5.953	15/64	93	47	•
6.00		93	47	•
6.35	1/4	93	47	•
6.50		100	50	•
6.747	17/64	100	50	•
7.00		107	54	•
7.144	9/32	107	54	•
7.938	5/16	107	54	•
8.00		115	58	•
8.731	11/32	115	58	•
9.00		124	62	•
9.525	3/8	124	62	•
10.00		133	66	•
10.319	13/32	133	66	•
11.00		142	71	•
11.113	7/16	142	71	•
11.906	15/32	142	71	•
12.00		152	76	•
12.70	1/2	152	76	•

List-No.	73060			
Product Group	06			
d	d	l1	l2	
mm	ins	mm	mm	
Availability				
13.00		152	76	•
13.494	17/32	152	76	•
14.00		163	81	•
14.288	9/16	163	81	•
15.00		163	81	•
15.081	19/32	163	81	•
15.875	5/8	163	81	•
16.00		175	87	•
16.669	21/32	175	87	•
17.00		175	87	•
17.463	11/16	175	87	•
18.00		188	93	•
18.256	23/32	188	93	•
19.00		188	93	•
19.05	3/4	188	93	•
19.844	25/32	188	93	•
20.00		201	100	•
20.638	13/16	201	100	•
21.00		201	100	•
21.431	27/32	201	100	•
22.00		215	107	•
22.225	7/8	215	107	•
23.00		215	107	•
23.019	29/32	215	107	•
23.813	15/16	215	107	•
24.00		231	115	•
24.606	31/32	231	115	•
25.00		231	115	•
25.40	1	231	115	•
26.00		231	115	•
27.00		247	124	•
28.00		247	124	•
29.00		247	124	•
30.00		247	124	•
31.00		265	133	•
32.00		265	133	•
33.00		265	133	•
34.00		284	142	•
35.00		284	142	•
36.00		284	142	•
37.00		284	142	•
38.00		305	152	•
39.00		305	152	•
40.00		305	152	•

**Hand Reamers with Straight Shank  
Special Steel & Set of Blades, Factory Standard**

**Machine Reamers with Straight Shank  
HSS, BS 328**

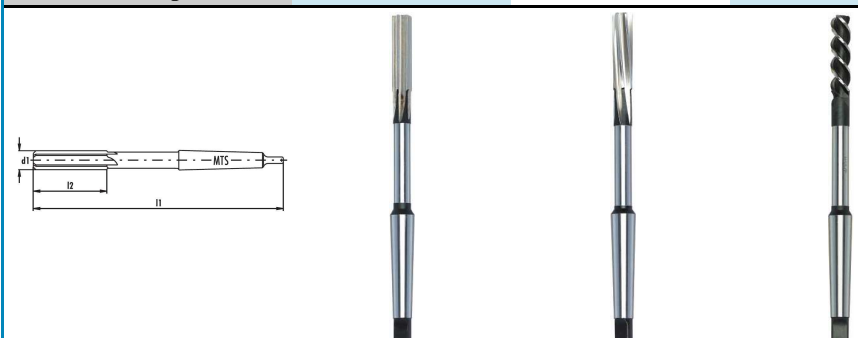
List-No.	75090	75290		
Product Group	08	08		
Type	Reamer	Set of Blades		
Flute Form	Straight Fluted	Straight Fluted		
Material	Special Steel	Special Steel		
Surface	P0	P0		
Taper Lead	Long	Long		
Square	Acc. DIN 10	Acc. DIN 10		
Packing Unit	All Diam. · 1 pc	All Diam. · 1 pc		
Range	l1 mm	l2 mm	Availability	Availability
8.0 - 9.0	32		•	•
9.0 - 10.0	32		•	•
10.0 - 11.0	35		•	•
11.0 - 12.0	35		•	•
12.0 - 13.5	42		•	•
13.5 - 15.5	50		•	•
15.5 - 18.0	60		•	•
18.0 - 21.0	65		•	•
21.0 - 24.0	70		•	•
24.0 - 27.5	75		•	•
27.5 - 31.5	80		•	•
31.5 - 37.0	90		•	•
37.0 - 45.0	100		•	•
45.0 - 55.0	109		•	•
55.0 - 65.0	120		•	•

List-No.	73000			
Product Group	06			
Type	Form B			
Flute Form	Spiral Fluted			
Material	HSS			
Surface	P0			
Bevel Lead	Short, 45°			
Packing Unit	All Diam. · 1 pc			
d1	d1	l1	l2	Availability
mm	ins	mm	mm	
1.50		44	21	•
1.588	1/16	44	21	•
2.00		50	25	•
2.381	3/32	58	29	•
2.50		58	29	•
3.00		62	31	•
3.175	1/8	66	33	•
3.50		71	35	•
3.572	9/64	71	35	•
3.969	5/32	76	38	•
4.00		76	38	•
4.366	11/64	81	41	•
4.50		81	41	•
4.763	3/16	87	44	•
5.00		87	44	•
5.159	13/64	87	44	•
5.50		93	47	•
5.556	7/32	93	47	•
6.00		93	47	•
6.350	1/4	100	50	•
7.00		107	54	•
7.938	5/16	115	58	•
8.00		115	58	•
9.00		124	62	•
9.525	3/8	133	66	•
10.00		133	66	•
11.00		142	71	•
11.113	7/16	142	71	•
12.00		152	76	•
12.700	1/2	152	76	•
13.00		152	76	•
14.00		163	81	•
16.00		175	87	•

P0-Bright • P1-Steam Tempered • P2-Bronze • P3-Moc • P4-Nitrided • P5-TiN • P6-TiCN • P7-HY • P8-TiAlN • P9-TiB



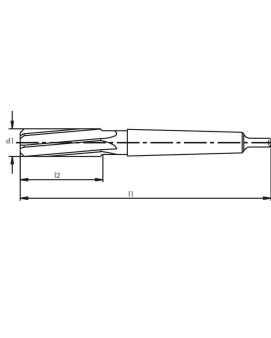
Machine Reamers with Taper Shank, HSS-E, DIN 208

List-No.	75101	75111	75121		
Product Group	07	07	07		
					
Type	Form A	Form B	Form C		
Flute Form	Straight Fluted	Spiral Fluted	45° L.H. Helix		
Material	HSS-E	HSS-E	HSS-E		
Surface	P0	P0	P0		
Bevel Lead	Short, 45°	Short, 45°			
Taper Lead			Approx. 1/6 of Cutting Length Tapered		
Packing Unit	All Diam. • 1 pc	All Diam. • 1 pc	All Diam. • 1 pc		
d1	l1	l2	MTS	Availability	Availability
mm	mm	mm			
3.00	112	15	1	•	•
4.00	125	19	1	•	•
5.00	133	23	1	•	•
6.00	138	26	1	•	•
7.00	150	31	1	•	•
8.00	156	33	1	•	•
9.00	162	36	1	•	•
10.00	168	38	1	•	•
11.00	175	41	1	•	•
12.00	182	44	1	•	•
13.00	182	44	1	•	•
14.00	189	47	1	•	•
15.00	204	50	2	•	•
16.00	210	52	2	•	•
17.00	214	54	2	•	•
18.00	219	56	2	•	•
19.00	223	58	2	•	•
20.00	228	60	2	•	•
21.00	232	62	2	•	•
22.00	237	64	2	•	•
23.00	241	66	2	•	•
24.00	268	68	3	•	•
25.00	268	68	3	•	•
26.00	273	70	3	•	•
27.00	277	71	3	•	•
28.00	277	71	3	•	•
29.00	281	73	3	•	•
30.00	281	73	3	•	•
31.00	285	75	3	•	•
32.00	317	77	4	•	•
33.00	317	77	4	•	•
34.00	321	78	4	•	•
35.00	321	78	4	•	•
36.00	325	79	4	•	•
37.00	325	79	4	•	•
38.00	329	81	4	•	•
39.00	329	81	4	•	•
40.00	329	81	4	•	•
41.00	333	82	4	•	•
42.00	333	82	4	•	•

P0-Bright • P1-Steam Tempered • P2-Bronze • P3-Moc • P4-Nitrided • P5-TiN • P6-TiCN • P7-HY • P8-TiAlN • P9-TiB



**Machine Reamers with Taper Shank, HSS, BS 328**

<b>List-No.</b>	72000				
<b>Product Group</b>	06				
					
<b>Type</b>	Form B				
<b>Flute Form</b>	Spiral				
<b>Material</b>	HSS				
<b>Surface</b>	P0				
<b>Bevel Lead</b>	Short, 45°				
<b>Packing Unit</b>	All Diam. · 1 pc				
<b>d1</b>	<b>d1</b>	<b>l1</b>	<b>l2</b>	<b>MTS</b>	<b>Availability</b>
<b>mm</b>	<b>ins</b>	<b>mm</b>	<b>mm</b>		
3.00		112	37	1	•
3.175	1/8	112	33	1	•
3.50		115	35	1	•
3.572	9/64	115	35	1	•
3.969	5/32	117	38	1	•
4.00		117	38	1	•
4.50		120	41	1	•
4.763	3/16	120	41	1	•
5.00		124	44	1	•
5.159	13/64	124	44	1	•
5.50		127	47	1	•
5.556	7/32	127	47	1	•
5.953	15/64	127	47	1	•
6.00		127	47	1	•
6.35	1/4	130	50	1	•
6.50		130	50	1	•
6.747	17/64	134	54	1	•
7.00		134	54	1	•
7.144	9/32	134	54	1	•
7.50		134	54	1	•
7.541	19/64	138	58	1	•
7.938	5/16	138	58	1	•
8.00		138	58	1	•
8.334	21/64	138	58	1	•
8.50		138	58	1	•
8.731	11/32	142	62	1	•
9.00		142	62	1	•
9.128	23/64	142	62	1	•
9.50		142	62	1	•
9.525	3/8	146	66	1	•
9.922	25/64	146	66	1	•
10.00		146	66	1	•
10.319	13/32	146	66	1	•
10.50		146	66	1	•
10.716	27/64	151	71	1	•
11.00		151	71	1	•
11.113	7/16	151	71	1	•
11.50		151	71	1	•
11.509	29/64	151	71	1	•
11.906	15/32	156	76	1	•
12.00		156	76	1	•

<b>List-No.</b>	72000				
<b>Product Group</b>	06				
<b>d1</b>	<b>d1</b>	<b>l1</b>	<b>l2</b>	<b>MTS</b>	<b>Availability</b>
<b>mm</b>	<b>ins</b>	<b>mm</b>	<b>mm</b>		
12.303	31/64	156	76	1	•
12.50		156	76	1	•
12.70	1/2	156	76	1	•
13.00		156	76	1	•
13.097	33/64	156	76	1	•
13.494	17/32	161	81	1	•
13.50		161	81	1	•
13.891	35/64	161	81	1	•
14.00		161	81	1	•
14.288	9/16	181	81	2	•
14.50		181	81	2	•
14.684	37/64	181	81	2	•
15.00		181	81	2	•
15.081	19/32	187	87	2	•
15.478	39/64	187	87	2	•
15.50		187	87	2	•
15.875	5/8	187	87	2	•
16.00		187	87	2	•
16.272	41/64	187	87	2	•
16.50		187	87	2	•
16.669	21/32	187	87	2	•
17.00		187	87	2	•
17.066	43/64	193	93	2	•
17.463	11/16	193	93	2	•
17.50		193	93	2	•
17.859	45/64	193	93	2	•
18.00		193	93	2	•
18.256	23/32	193	93	2	•
18.50		193	93	2	•
18.653	47/64	193	93	2	•
19.00		193	93	2	•
19.05	3/4	200	100	2	•
19.447	49/64	200	100	2	•
19.50		200	100	2	•
19.844	25/32	200	100	2	•
20.00		200	100	2	•
20.241	51/64	200	100	2	•
20.50		200	100	2	•
20.638	13/16	200	100	2	•
21.00		200	100	2	•
21.034	53/64	200	100	2	•
21.431	27/32	207	107	2	•
21.828	55/64	207	107	2	•
22.00		207	107	2	•
22.225	7/8	207	107	2	•
22.622	57/64	207	107	2	•
23.00		207	107	2	•
23.019	29/32	207	107	2	•
23.416	59/64	242	115	3	•
23.50		242	115	3	•
23.813	15/16	242	115	3	•
24.00		242	115	3	•
24.209	61/64	242	115	3	•
24.606	31/32	242	115	3	•
25.00		242	115	3	•
25.40	1	242	115	3	•
26.00		242	115	3	•
26.194	1 1/32	242	115	3	•
26.988	1 1/16	251	124	3	•
27.00		251	124	3	•
27.781	1 3/32	251	124	3	•
28.00		251	124	3	•
28.575	1 1/8	251	124	3	•

P0-Bright • P1-Steam Tempered • P2-Bronze • P3-Moc • P4-Nitrided • P5-TiN • P6-TiCN • P7-HY • P8-TiAlN • P9-TiB

Drilling

**Machine Reamers with Taper Shank  
HSS, BS 328**

List-No.		72000				
Product Group		06				
d1	d1	l1	l2	MTS	Availability	
mm	ins	mm	mm			
29.00		251	124	3	•	
29.369	1 5/32	251	124	3	•	
30.00		251	124	3	•	
30.163	1 3/16	260	133	3	•	
30.956	1 7/32	260	133	3	•	
31.00		260	133	3	•	
31.75	1 1/4	260	133	3	•	
32.00		293	133	4	•	
32.544	1 9/32	293	133	4	•	
33.00		293	133	4	•	
33.338	1 5/16	293	133	4	•	
34.00		302	142	4	•	
34.925	1 3/8	302	142	4	•	
35.00		302	142	4	•	
36.00		302	142	4	•	
36.513	1 7/16	302	142	4	•	
37.00		302	142	4	•	
38.00		312	152	4	•	
38.10	1 1/2	312	152	4	•	
39.00		312	152	4	•	
40.00		312	152	4	•	

Reaming

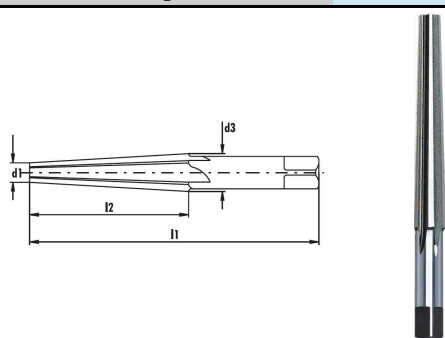
Threading

Milling

Miscellaneous

Solid Carbide

**Socket Reamers with Straight Shank  
HSS, DIN 204**

List-No.		73080				
Product Group		06				
						
Type		Form C				
Flute Form		Straight Fluted				
Material		HSS				
Surface		P0				
Bevel Lead						
Square		acc. DIN 10				
Packing Unit		All Diam. · 1 pc				
For	d1	d2	l1	l2	Availability	
MT-No.	ins	mm	mm	mm		
1	9.571	12.863	102	66	•	
2	14.733	18.679	121	79	•	
3	20.010	24.829	146	96	•	
4	26.229	32.410	179	119	•	
5	37.873	45.767	222	150	•	
6	54.172	65.016	300	208	•	





Drilling

## Service

### Reaming Allowances

Material	Drilling Diameter				
	3 - 5	6 - 10	11 - 20	21 - 30	Over 30
Steels up to 700 N/mm <sup>2</sup>	0.1 - 0.2	0.2	0.2 - 0.3	0.3 - 0.4	0.4 - 0.5
Steels over 700 N/mm <sup>2</sup>	0.1 - 0.2	0.2	0.2	0.3	0.3
Cast Steel	0.1 - 0.2	0.2	0.2	0.2 - 0.3	0.3 - 0.4
Grey Cast from	0.1 - 0.2	0.2	0.2 - 0.3	0.3 - 0.4	0.4 - 0.5
Malleable Cast from	0.1 - 0.2	0.2	0.3	0.4	0.5
Copper	0.1 - 0.2	0.2 - 0.3	0.3 - 0.4	0.4 - 0.5	0.5
Brass/Bronze	0.1 - 0.2	0.2	0.2 - 0.3	0.3 - 0.4	0.4 - 0.5
Light Metals	0.1 - 0.2	0.2	0.3	0.4	0.5
Hard Plastics	0.1 - 0.2	0.2 - 0.3	0.3 - 0.4	0.4 - 0.5	0.5
Soft Plastics	0.1 - 0.2	0.2	0.2	0.3	0.3 - 0.4

Reaming

We recommend that the above values be increased by a maximum of 50% when using peeling reamers. When using adjustable reamers we recommend that the above values be reduced by 30%. When accurate holes are required or when reaming hard materials, we recommend the use of finishing reamers also. Reaming can then be evenly spread over both operations to avoid the possibility of chip welding or blunting the reamer.

Threading

### Cutting Fluid Recommendations for HSS-E and Carbide Reamers

Multi Flute reamers are continuously in contact with the workpiece. Therefore a sufficient coolant supply is desirable. When working on steels, the coolant should reduce the temperature and extend the working life of the tool. It also produces a better surface finish in the reamed hole. On soft steels and non ferrous material, the coolant will prevent the build up of chips and therefore give a better surface finish.

Milling

### Machine Reamers

Machining of cast-and steel materials: Oil-emulsion with concentration of 6% - 10%  
 Machining of non-ferrous metals: Cutting-oil, alternatively Oil-emulsion with concentration of 10% minimum

Miscellaneous

### Hand Reamers

For all materials: Spray tool with cutting oil before use

Solid Carbide

Catalogue range apply to reamers with tolerance H7. If no tolerance is stated when ordering, H7 will be supplied. Exceptions are Bridge Reamers, Socket Reamers and Taper Pin Reamers which have other tolerances. Please contact us Price List for non standard tolerances and intermediate diameters.

## CONDITIONS OF SALE & GENERAL TERMS OF DELIVERY

1. **INTERPRETATION**  
1.1 In these conditions: 'BUYER' means the person, firm or company entering into the Contract to purchase the Goods from the Seller 'CONDITIONS' means these standard terms and conditions of sale and any special terms agreed in writing- 'CONTRACT' means the contract for the purchase and sale of the Goods - 'GOODS' means the goods which the Seller is to supply hereunder - 'SELLER' means PRESTO INTERNATIONAL UK LIMITED.
2. **BASIS OF THE SALE**  
2.1 The Seller shall sell and the Buyer shall purchase the Goods. These Conditions shall govern the Contract to the exclusion of any other terms and conditions subject to which any quotation is purported to be accepted, or any order is purported to be made by the Buyer. No order shall be accepted or deemed to be accepted unless and until confirmed in writing by the Seller. These conditions shall constitute the entire agreement in relation to the sale of the Goods. The Seller shall not be liable for any advice or representation given by the Seller or its employees or agents to the Buyer which is not confirmed in writing.
3. **ORDERS AND SPECIFICATIONS**  
3.1 The quantity, description and any specification for the Goods shall be those set out in the Seller's quotation (if accepted by the Buyer) or the Buyer's order (if accepted by the Seller), but the Seller reserves the right to make changes to the specification of its Goods, which do not materially affect their quality or performance.  
3.2 The Buyer shall indemnify the Seller against all loss, damages, costs and expenses in connection with the infringement of any industrial or intellectual property rights resulting from the Seller's use of the Buyer's specification.
4. **PRICE OF THE GOODS**  
4.1 The price of the Goods shall be the Seller's quoted price, or where no price has been quoted or a quoted price is no longer valid, the price listed in the Seller's then current price list. All prices quoted are valid for 30 days. All prices are on an ex works basis and exclusive of any applicable value added tax, which the Buyer shall additionally be liable to pay to the Seller.  
4.2 The Seller reserves the right, by giving notice to the Buyer prior to delivery, to increase the price of the Goods to reflect any increase in cost to the Seller due to any factor beyond the Seller's control, any change to the Contract requested by the Buyer, or any delay caused by any instructions of the Buyer or the failure to give such instructions.
5. **TERMS OF PAYMENT**  
5.1 The Seller shall be entitled to invoice the price of the Goods on or at any time after delivery. If the Goods are to be collected by the Buyer or the Buyer wrongfully fails to take delivery, the Seller may invoice the Buyer for the price at any time after the Seller has notified the Buyer that the Goods are ready for collection or has tendered delivery.  
5.2 The Buyer shall pay the price of the Goods (without set-off or any other deduction) not later than the end of the month following the month of delivery. The Seller may recover the price, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer The time of payment of the price shall be of the essence of the Contract.  
5.3 If the Buyer fails to make any payment on the due date then, the Seller may:  
5.3.1 Suspend all or any further deliveries to the Buyer made under this or any other contract with the Buyer without prejudice to the Buyer's obligations to the Seller under this or any other contract, or to cancel this or any other contract with the Buyer and to claim damages from the Buyer; and  
5.3.2 Appropriate any payment to such of the Goods (or goods supplied under any other contract between the Buyer and the Seller) as the Seller may think fit; and  
5.3.3 Charge the Buyer interest (both before and after any judgment) on the amount unpaid, at the rate of 5% per annum above Barclays Bank Plc base rate from time to time accruing daily, until payment in full is made.  
5.4 The Seller may without notice set off any sums owed to the Buyer in or towards the satisfaction of all and any liabilities of the Buyer to the Seller howsoever arising.
6. **DELIVERY**  
6.1 Delivery shall be made by the Buyer collecting the Goods at the Seller's premises at any time after the Seller has notified the Buyer that the Goods are ready for collection or, if some other place for delivery is agreed by the Seller, by the Seller delivering the Goods to that place.  
6.2 Delivery dates are approximate only and the time for delivery shall not be of the essence.  
6.3 Where the Goods are to be delivered in installments, each delivery shall constitute a separate contract. Failure by the Seller to deliver any one or more of the installments or any claim in respect of any one or more of the installments shall not entitle the Buyer to treat the Contract as a whole as repudiated.  
6.4 If the Seller fails to deliver the Goods (or any installment) for any reason other than any cause beyond the Seller's reasonable control or the Buyer's fault, the Seller's liability shall be limited to the excess, if any, of the cost to the Buyer (in the cheapest available market) of similar goods over the price of the Goods.
7. **RISK AND PROPERTY**  
7.1 Risk of damage to or loss of the Goods shall pass to the Buyer, in the case of Goods to be delivered at the Seller's premises, when the Seller notifies the Buyer that the Goods are available for collection, or in the case of Goods to be delivered elsewhere, at the time of delivery or, if the Buyer wrongfully fails to take delivery when the Seller tendered delivery.  
7.2 Notwithstanding delivery and the passing of risk, the property in the Goods shall not pass until the Seller has received in cleared funds full payment of the price of the Goods and all other goods sold by the Seller to the Buyer under any other contract.  
7.3 Until the property in the Goods passes to the Buyer:  
7.3.1 The Buyer shall hold the Goods as the Seller's agent or bailee, and shall keep the Goods separate from all other goods and properly stored protected and insured and identified as the Seller's property. The Buyer shall be entitled to resell or use the Goods in the ordinary course of its business, but shall have a fiduciary duty to the Seller to account for the proceeds of sale or otherwise of the Goods.  
7.3.2 The Seller may require the Buyer to deliver up the Goods to the Seller and, if the Buyer fails to do so forthwith, to enter upon any premises where the Goods are stored and repossess the Goods.  
7.4 The Buyer shall not be entitled to charge by way of security any of the Goods which remain the property of the Seller. If the Buyer does so, all moneys owing by the Buyer to the Seller shall, forthwith become due and payable.
8. **WARRANTIES AND LIABILITIES**  
8.1 The Seller warrants that the Goods will correspond with their specification at the time of delivery and will be free from defects in material and workmanship for a period of 12 months from delivery provided that:  
8.1.1 The Seller shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer;  
8.1.2 The Seller shall be under no liability in respect of any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow the Seller's instructions, misuse or alteration or repair of the Goods without the Seller's approval;  
8.1.3 If the total price for the Goods has not been paid by the due date for payment, the Seller shall be under no liability, until the total price for the Goods has been;  
8.2 Any claim by the Buyer under the warranty in Condition 8.1 shall, be notified to the Seller within 7 days from the date of delivery or, where the defect or failure to paid; correspond with specification was not apparent on reasonable inspection, within a reasonable time after discovery of the defect or failure. If delivery is not refused, and the Buyer does not so notify, the Seller shall have no liability to the Buyer.  
8.3 Following notification of any valid claim under the warranty in Condition 8.1, the Seller shall be entitled to replace the Goods (or the part in question) free of charge or, at the Seller's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price) without further liability.  
8.4 Except in respect of death or personal injury caused by the Seller's negligence, the Seller shall not be liable to the Buyer by reason of any representation, or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any consequential loss or damage (whether for loss of profit or otherwise), costs expenses or other claims for compensation whatsoever (whether caused by the negligence of the Seller, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer and the entire liability of the Seller under or in connection with the Contract shall not exceed the price of the Goods, except as expressly provided in these Conditions.  
8.5 The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations hereunder due to any cause beyond the Seller's reasonable control.
9. **INSOLVENCY OF BUYER**  
If the Buyer becomes insolvent or ceases or threatens to cease to carry on business or the Seller reasonably apprehends that any of these events is about to occur, the Seller shall be entitled to cancel the Contract and any other contracts with the Buyer or suspend any further deliveries under the Contract and any other contracts with the Buyer without any liability. If the Goods or any other goods have been delivered, but not paid for, the price shall become immediately due and payable.
10. **EXPORT TERMS**  
10.1 Where the Goods are supplied for export, this clause 10 shall apply notwithstanding any other provisions. Any term or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.  
10.2 The Buyer shall be responsible for complying with laws governing the importation of the Goods the payment of duties.  
10.3 The Goods shall be delivered FOB the air or sea port of shipment. The Seller shall be under no obligation to give notice under section 32(3) of the Sale of Goods Act 1979.  
10.4 The Buyer shall be responsible for arranging for testing and inspection of the Goods at the Seller's premises before shipment and the Seller shall have no liability for any defect which would be apparent on inspection.
11. **GENERAL**  
11.1 Neither party shall be entitled to assign the whole or any part of this Contract without the prior written consent of the other.  
11.2 Any notice required or permitted to be given hereunder shall be in writing addressed to the other party at its registered office or principal place of business or such other address as may have been notified. A notice shall be deemed to have been received, in the case of a facsimile, upon transmission and, in the case of a letter, forty eight hours after posting.  
11.3 If any provision of these Conditions is held to be invalid or unenforceable in whole or in part, the validity of the other provisions and the remainder of the provision in question shall not be affected.  
11.4 The Contract shall be governed by the laws of England and the Buyer agrees to submit to the non-exclusive jurisdiction of the English courts.

**Presto International UK Limited**  
Penistone Road  
Sheffield  
S6 2FN  
England

**General Enquiries:**  
Phone: +44 (0) 114 234 9367  
Fax: +44 (0) 114 234 7446

**Sales Enquiries:**  
Phone: 0800 019 7367  
Fax: 0800 019 7529  
Email: [sales@presto-tools.com](mailto:sales@presto-tools.com)

**Technical Enquiries:**  
Phone: +44 (0) 114 229 4212  
**Website:**  
[www.presto-tools.com](http://www.presto-tools.com)

  
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