

INTECH[®]

INTECH[®]
PRODUCT CATALOGUE
CURRENT EDITION

buildpro[®]

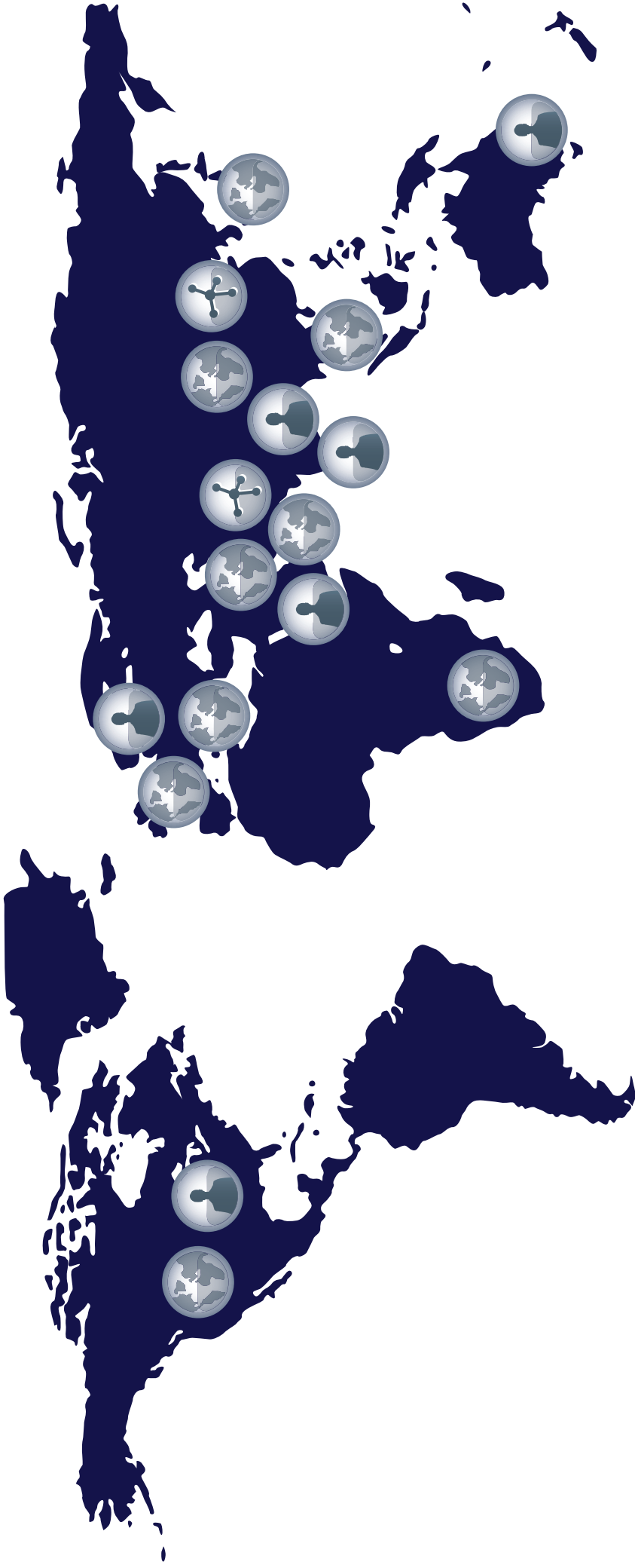
THICKSKIN[®] 

MACH[®]

PROTAPE[®]

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MADE FOR THE TRADE



Intech Tools has been
manufacturing and
supplying tools since 1978



Sourced Factories



INTECH Offices



INTECH Factories

INTECH[®]

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CUTTING TOOLS

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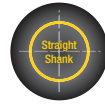
CUTTING TOOLS

CUTTING TOOLS



MACH DRILL BITS

- Patented tip



UP TO **6X** FASTER DRILLING IN WOOD

UP TO **4X** FASTER DRILLING IN STEEL

UP TO **5X** TOOL LIFE

- M2 High speed Steel material
- Super self-centering
- For portable and stationary drills
- Cuts up to 6x faster
- Precision ground to stay sharp longer and drill faster
- Less force required to start hole than with a 118° or a 135° split point drill

DIA mm	DIA in.	Dimensions			Bright Patented Tip			
		FL mm	OAL mm	Pack Qty	GROUP	JOBM		
						Part No.	Price	
1.00		12	34	10	1971010	3.98		
1.50		18	40	10	1971015	3.38		
1.59	1/16"	22	48	10	1971504	3.21		
1.98	5/64"	25	51	10	1971505	3.02		
2.00		24	49	10	1971020	3.13		
2.38	3/32"	32	57	10	1971506	3.02		
2.50		30	57	10	1971025	3.31		
2.78	7/64"	38	67	10	1971507	3.06		
3.00		33	61	10	1971030	3.03		
3.17	1/8"	41	70	10	1971508	3.06		
3.50		39	70	10	1971035	3.70		
3.57	9/64"	44	73	10	1971509	3.88		
3.97	5/32"	51	79	10	1971510	4.14		
4.00		43	75	10	1971040	4.09		
4.37	11/64"	54	83	10	1971511	4.64		
4.50		47	80	10	1971045	4.50		
4.76	3/16"	59	89	10	1971512	4.91		
5.00		52	86	10	1971050	4.94		
5.16	13/64"	62	92	10	1971513	5.54		
5.50		57	93	10	1971055	6.27		
5.56	7/32"	64	95	10	1971514	5.95		
5.95	15/64"	67	98	10	1971515	6.34		
6.00		57	93	10	1971060	6.40		
6.35	1/4"	70	102	10	1971516	6.94		
6.50		63	101	10	1971065	7.37		
6.75	17/64"	73	105	10	1971517	8.05		
7.00		69	109	10	1971070	9.00		
7.14	9/32"	75	108	10	1971518	9.11		
7.50		69	109	10	1971075	9.39		
7.54	19/64"	78	111	5	1971519	10.16		
7.94	5/16"	81	114	5	1971520	10.43		
8.00		75	117	5	1971080	10.63		

MACH DRILL BITS

- Patented tip
- M2 High speed Steel material
- Super self-centering
- For portable and stationary drills
- Cuts up to 6x faster
- Precision ground to stay sharp longer and drill faster
- Less force required to start hole than with a 118° or a 135° split point drill

DIA mm	DIA in.	Dimensions			Bright Patented Tip			
		FL mm	OAL mm	Pack Qty	GROUP	JOBM		
					Part No.	Price		
8.33	21/64"	84	117	5	1971521	11.09		
8.50		75	117	5	1971085	11.44		
8.73	11/32"	87	121	5	1971522	11.88		
9.00		81	125	5	1971090	12.74		
9.13	23/64"	89	124	5	1971523	12.79		
9.50		81	125	5	1971095	13.86		
9.52	3/8"	92	127	5	1971524	14.67		
9.92	25/64"	95	130	5	1971525	15.42		
10.00		87	133	5	1971100	14.73		
10.32	13/32"	98	133	5	1971526	16.25		
10.50		87	133	5	1971105	17.95		
10.72	27/64"	100	137	5	1971527	17.86		
11.00		94	142	5	1971110	20.76		
11.11	7/16"	103	140	5	1971528	20.22		
11.50		94	142	5	1971115	22.21		
11.51	29/64"	106	143	5	1971529	22.15		
11.91	15/32"	110	146	5	1971530	23.76		
12.00		101	151	5	1971120	24.64		
12.3	31/64"	111	149	5	1971531	26.30		
12.50		101	151	5	1971125	26.94		
12.7	1/2"	114	152	5	1971532	27.80		
13.00		101	151	5	1971130	27.80		

MACH DRILL MERCHANDISERS

- Speedpoint drill bits merchandisers are available

Part No.	Description		Price
	Sizes	Range Available	
197DM25	Metric	1 to 13.0mm x 0.5mm	1202.63
197DMF29	Imperial	1/16" to 1/2" x 1/64ths	1113.58

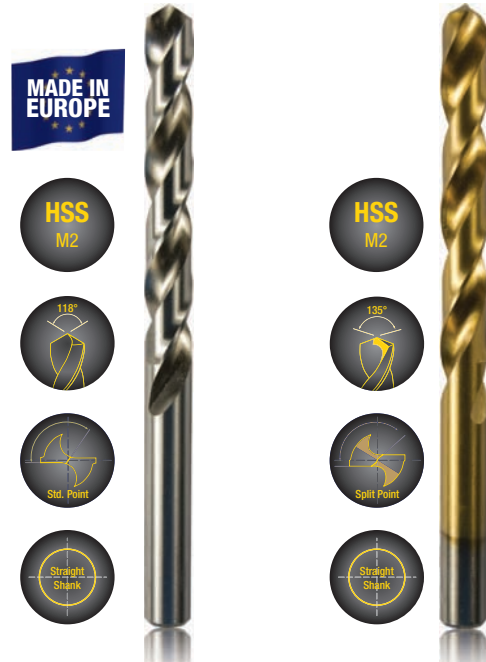


Sizes (mm)	Qty	Sizes (mm)	Qty
1	10	8.5	5
1.5	10	9	5
2	10	9.5	3
2.5	10	10	6
3	10	10.5	2
3.5	10	11	2
4	10	11.5	2
4.5	10	12	2
5	10	12.5	2
5.5	10	13	2
6	5		
6.5	8		
7	5		
7.5	5		
8	8		

Sizes (in.)	Qty	Sizes (in.)	Qty
1/16	8	19/64	4
5/64	8	5/16	4
3/32	8	21/64	4
7/64	8	11/32	4
1/8	8	23/64	4
9/64	8	3/8	8
5/32	8	25/64	2
11/64	8	13/32	2
3/16	8	27/64	2
13/64	4	7/16	2
7/32	4	29/64	2
15/64	4	15/32	2
1/4	4	31/64	2
17/64	4	1/2"	2
9/32	4		

JOBBER DRILLS

The most popular drills, used by engineers, tradespeople and other professionals. These general purpose drills are designed for machine and hand held drilling in a wide range of materials.



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.

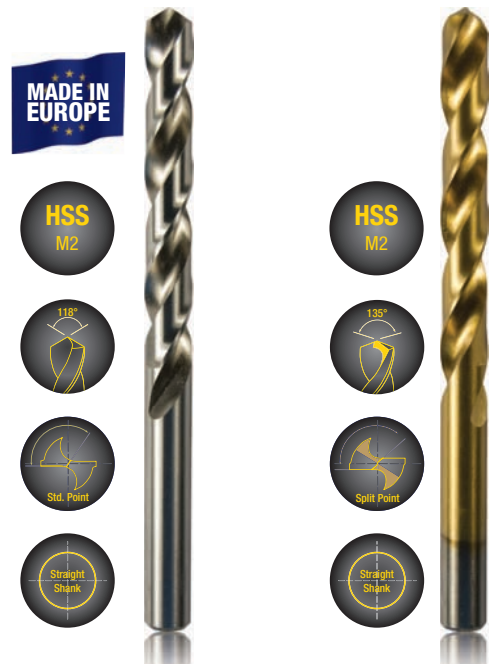


Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after sharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Chisel		TiNite 135° Split Point	
					GROUP	JOB	GROUP	JOB
		FL mm	OAL mm	Pack Qty	Part No.	Price	Part No.	Price
0.397	1/64"	5	19	10	1901501	8.94		
0.40		5	20	10	1901004	8.27		
0.50		6	22	10	1901005	8.27		
0.60		7	24	10	1901006	8.27		
0.70		9	28	10	1901007	8.27		
0.79	1/32"	13	35	10	1901502	5.70		
0.80		10	30	10	1901008	5.29		
0.90		11	32	10	1901009	5.29		
1.00		12	34	10	1901010	3.29	1905010	3.29
1.10		14	36	10	1901011	3.29		
1.19	3/64"	19	44	10	1901503	3.29		
1.20		16	38	10	1901012	3.29		
1.30		16	38	10	1901013	3.29		
1.40		18	40	10	1901014	3.97		
1.50		18	40	10	1901015	2.94	1905015	2.94
1.59	1/16"	22	48	10	1901504	2.86	1905504	2.86
1.60		20	43	10	1901016	2.78		
1.70		20	43	10	1901017	2.86		
1.80		22	46	10	1901018	2.67		
1.90		22	46	10	1901019	2.67		
1.98	5/64"	25	51	10	1901505	2.67	1905505	2.67
2.00		24	49	10	1901020	2.67	1905020	2.67
2.10		24	49	10	1901021	2.67		
2.20		27	53	10	1901022	2.67		
2.30		27	53	10	1901023	2.67		
2.38	3/32"	32	57	10	1901506	2.67	1905506	2.67
2.40		30	57	10	1901024	2.67		
2.50		30	57	10	1901025	2.67	1905025	2.67
2.60		30	57	10	1901026	2.67		
2.70		33	61	10	1901027	2.41		
2.78	7/64"	38	67	10	1901507	2.41	1905507	2.41

JOBBER DRILLS



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Chisel		TiNite 135° Split Point	
					GROUP	JOB	GROUP	JOB
		FL mm	OAL mm	Pack Qty	Part No.	Price	Part No.	Price
2.80		33	61	10	1901028	2.41		
2.90		33	61	10	1901029	2.41		
3.00		33	61	10	1901030	2.54	1905030	2.54
3.10		36	65	10	1901031	2.54		
3.17	1/8"	41	70	10	1901508	2.54	1905508	2.54
3.20		36	65	10	1901032	2.54		
3.30		36	65	10	1901033	2.67		
3.40		39	70	10	1901034	2.67		
3.50		39	70	10	1901035	2.78	1905035	2.78
3.57	9/64"	44	73	10	1901509	2.86	1905509	2.86
3.60		39	70	10	1901036	2.86		
3.70		39	70	10	1901037	2.86		
3.80		43	75	10	1901038	2.94		
3.90		43	75	10	1901039	3.10		
3.97	5/32"	51	79	10	1901510	3.10	1905510	3.10
4.00		43	75	10	1901040	3.22	1905040	3.22
4.10		43	75	10	1901041	3.29		
4.20		43	75	10	1901042	3.54		
4.30		47	80	10	1901043	3.54		
4.37	11/64"	54	83	10	1901511	3.54	1905511	3.54
4.40		47	80	10	1901044	3.54		
4.50		47	80	10	1901045	3.54	1905045	3.54
4.60		47	80	10	1901046	3.88		
4.70		47	80	10	1901047	3.88		
4.76	3/16"	59	89	10	1901512	3.88	1905512	3.88
4.80		52	86	10	1901048	3.97		
4.90		52	86	10	1901049	4.19		
5.00		52	86	10	1901050	4.19	1905050	4.19
5.10		52	86	10	1901051	4.39		
5.16	13/64"	62	92	10	1901513	4.39	1905513	4.39
5.20		52	86	10	1901052	4.84		

JOBBER DRILLS



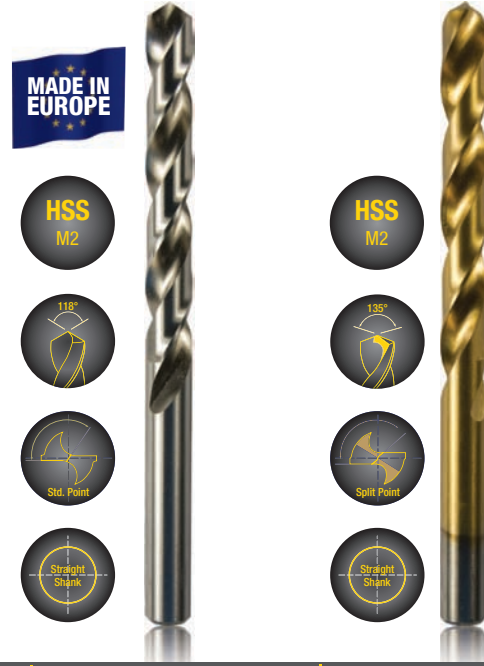
Bright Finish

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Gold Finish

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DIA mm	DIA in.	Dimensions			Bright 118° Std. Chisel		TiNite 135° Split Point	
		FL mm	OAL mm	Pack Qty	GROUP	JOB	GROUP	JOB
					Part No.	Price	Part No.	Price
5.30		52	86	10	1901053	4.84		
5.40		57	93	10	1901054	4.84		
5.50		57	93	10	1901055	4.84	1905055	4.84
5.56	7/32"	64	95	10	1901514	4.84	1905514	4.84
5.60		57	93	10	1901056	5.29		
5.70		57	93	10	1901057	5.29		
5.80		57	93	10	1901058	5.29		
5.90		57	93	10	1901059	5.29		
5.95	15/64"	67	98	10	1901515	5.29	1905515	5.29
6.00		57	93	10	1901060	5.52	1905060	5.52
6.10		63	101	10	1901061	5.72		
6.20		63	101	10	1901062	5.72		
6.30		63	101	10	1901063	5.72		
6.35	1/4"	70	102	10	1901516	5.96	1905516	5.96
6.40		63	101	10	1901064	6.15		
6.50		63	101	10	1901065	6.15	1905065	6.15
6.60		63	101	10	1901066	6.73		
6.70		63	101	10	1901067	6.73		
6.75	17/64"	73	105	10	1901517	6.73	1905517	6.73
6.80		69	109	10	1901068	6.83		
6.90		69	109	10	1901069	6.83		
7.00		69	109	10	1901070	7.17	1905070	7.17
7.10		69	109	10	1901071	7.17		
7.14	9/32"	75	108	10	1901518	7.49	1905518	7.49
7.20		69	109	10	1901072	7.71		
7.30		69	109	10	1901073	7.71		
7.40		69	109	10	1901074	7.71		
7.50		69	109	10	1901075	8.14	1905075	8.14
7.54	19/64"	78	111	5	1901519	8.14	1905519	8.14
7.60		75	117	10	1901076	8.37		
7.70		75	117	10	1901077	8.82		

JOBBER DRILLS

Metric
Jobber Drills
DIN338

Fractional
Jobber Drills
**ANSI
B94-11**



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpenering. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Chisel		TiNite 135° Split Point	
					GROUP	JOB	GROUP	JOB
		FL mm	OAL mm	Pack Qty	Part No.	Price	Part No.	Price
7.80		75	117	10	1901078	8.82		
7.90		75	117	10	1901079	8.82		
7.94	5/16"	81	114	5	1901520	8.82	1905520	8.82
8.00		75	117	5	1901080	8.82	1905080	8.82
8.10		75	117	5	1901081	9.50		
8.20		75	117	5	1901082	9.50		
8.30		75	117	5	1901083	9.50		
8.33	21/64"	84	117	5	1901521	9.50	1905521	9.50
8.40		75	117	5	1901084	9.70		
8.50		75	117	5	1901085	9.93	1905085	9.93
8.60		81	125	5	1901086	10.48		
8.70		81	125	5	1901087	10.48		
8.73	11/32"	87	121	5	1901522	10.48	1905522	10.48
8.80		81	125	5	1901088	10.93		
8.90		81	125	5	1901089	10.93		
9.00		81	125	5	1901090	10.93	1905090	10.93
9.10		81	125	5	1901091	11.37		
9.13	23/64"	89	124	5	1901523	11.37	1905523	11.37
9.20		81	125	5	1901092	12.11		
9.30		81	125	5	1901093	12.11		
9.40		81	125	5	1901094	12.11		
9.50		81	125	5	1901095	12.11	1905095	12.11
9.52	3/8"	92	127	5	1901524	12.11	1905524	12.11
9.60		81	125	5	1901096	12.79		
9.70		87	133	5	1901097	12.79		
9.80		87	133	5	1901098	12.90		
9.90		87	133	5	1901099	12.90		
9.92	25/64"	95	130	5	1901525	12.90	1905525	12.90
10.00		87	133	5	1901100	13.00	1905100	13.00
10.10		87	133	5	1901101	19.84		
10.20		87	133	5	1901102	14.45		

JOBBER DRILLS



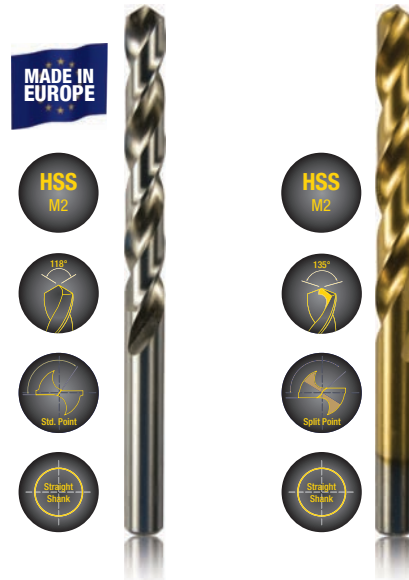
Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after sharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.



DIA mm	DIA in.	Dimensions			Bright 118° Std. Chisel		TiNite 135° Split Point	
		FL mm	OAL mm	Pack Qty	GROUP	JOB	GROUP	JOB
					Part No.	Price	Part No.	Price
10.30		87	133	5	1901103	19.84		
10.32	13/32"	98	133	5	1901526	14.45	1905526	14.45
10.40		87	133	5	1901104	20.94		
10.50		87	133	5	1901105	14.71	1905105	14.71
10.60		87	133	5	1901106	22.03		
10.70		94	142	5	1901107	22.03		
10.72	27/64"	100	137	5	1901527	15.98	1905527	15.98
10.80		94	142	5	1901108	24.27		
10.90		94	142	5	1901109	24.27		
11.00		94	142	5	1901110	16.96	1905110	16.96
11.10		94	142	5	1901111	26.45		
11.11	7/16"	103	140	5	1901528	17.31	1905528	17.31
11.20		94	142	5	1901112	27.56		
11.30		94	142	5	1901113	27.56		
11.40		94	142	5	1901114	27.56		
11.50		94	142	5	1901115	19.10	1905115	19.10
11.51	29/64"	106	143	5	1901529	19.16	1905529	19.16
11.60		94	142	5	1901116	29.74		
11.70		94	142	5	1901117	29.74		
11.80		94	142	5	1901118	29.74		
11.90		101	151	5	1901119	29.74		
11.91	15/32"	110	146	5	1901530	21.39	1905530	21.39
12.00		101	151	5	1901120	21.61	1905120	21.61
12.10		101	151	5	1901121	33.09		
12.20		101	151	5	1901122	33.09		
12.30		101	151	5	1901123	33.09		
12.3	31/64"	111	149	5	1901531	22.69	1905531	22.69
12.40		101	151	5	1901124	34.16		
12.50		101	151	5	1901125	23.78	1905125	23.78
12.60		101	151	5	1901126	34.16		
12.70		101	151	5	1901127	35.26		
12.7	1/2"	114	152	5	1901532	25.55	1905532	23.78
12.80		101	151	5	1901128	35.26		
12.90		101	151	5	1901129	35.26		
13.00		101	151	5	1901130	25.55	1905130	25.55

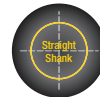
JOBBER DRILLS - GAUGE SIZES

The most popular drills, used by engineers, tradespeople and other professionals. These general purpose drills are designed for machine and hand held drilling in a wide range of materials.



Gauge Sizes

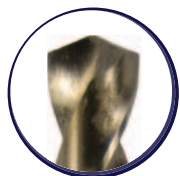
Gauge size drill calculations are generally made utilising a reference book or table. Number drill bit gauge sizes are analogous to, but different from, American wire gauge. Number gauge is most commonly used from size 80 (the smallest) to size 1 (the largest) followed by letter gauge size A (the smallest) to size Z (the largest). Number gauge is actually defined down to size 97, but these smallest sizes are very rarely used.



DIA Gauge	DIA in.	Dimensions			TiNite 135° Split Point		
					GROUP	JOB	
		FL mm	OAL mm	Pack Qty	Part No.	Price	
30	1/8	43	70	10	1905G30	2.62	
20	5/32	54	80	10	1905G20	3.49	
11	3/16	59	89	10	1905G11	4.01	

JOBBER DRILLS - COBALT

Ground from solid cobalt alloyed high speed steel for higher heat resistance and longer tool life compared to standard drills. Ideal for tough materials like cast iron, cast steel, stainless steel, bronze and weld seams. Designed for machine and hand drilling.



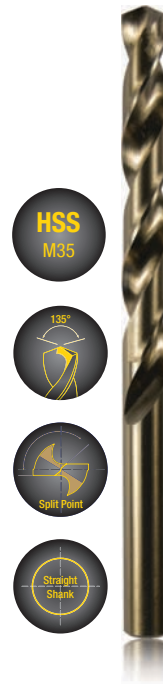
Bronze Finish

This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.

DIA mm	DIA in.	Dimensions			Cobalt 135° Split Point	
		FL mm	OAL mm	Pack Qty	GROUP	JOB
					Part No.	Price
1.00		12	34	10	1031010	6.47
1.50		18	40	10	1031015	6.47
1.59	1/16"	22	48	10	1031504	6.47
1.98	5/64"	25	51	10	1031505	6.47
2.00		24	49	10	1031020	6.47
2.38	3/32"	32	57	10	1031506	6.47
2.50		30	57	10	1031025	6.47
2.78	7/64"	38	67	10	1031507	6.47
3.00		33	61	10	1031030	6.47
3.17	1/8"	41	70	10	1031508	6.47
3.50		39	70	10	1031035	7.32
3.57	9/64"	44	73	10	1031509	7.51
3.97	5/32"	51	79	10	1031510	8.16
4.00		43	75	10	1031040	7.99
4.37	11/64"	54	83	10	1031511	8.95
4.50		47	80	10	1031045	9.15
4.76	3/16"	59	89	10	1031512	10.01
5.00		52	86	10	1031050	10.43
5.16	13/64"	62	92	10	1031513	10.68
5.50		57	93	10	1031055	11.98
5.56	7/32"	64	95	10	1031514	11.20
5.95	15/64"	67	98	10	1031515	12.52
6.00		57	93	10	1031060	14.09
6.35	1/4"	70	102	10	1031516	13.05
6.50		63	101	10	1031065	16.06
6.75	17/64"	73	105	10	1031517	15.16
7.00		69	109	10	1031070	17.63
7.14	9/32"	75	108	10	1031518	16.87
7.50		69	109	10	1031075	18.85
7.54	19/64"	78	111	5	1031519	18.72
7.94	5/16"	81	114	5	1031520	20.56
8.00		75	117	5	1031080	21.99

JOBBER DRILLS - COBALT

Ground from solid cobalt alloyed high speed steel for higher heat resistance and longer tool life compared to standard drills. Ideal for tough materials like cast iron, cast steel, stainless steel, bronze and weld seams. Designed for machine and hand drilling.



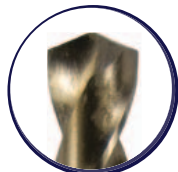
Bronze Finish

This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.

DIA mm	DIA in.	Dimensions			Cobalt 135° Split Point		
		FL mm	OAL mm	Pack Qty	GROUP	JOB	
					Part No.	Price	
8.33	21/64"	84	117	5	1031521	22.28	
8.50		75	117	5	1031085	22.87	
8.73	11/32"	87	121	5	1031522	24.11	
9.00		81	125	5	1031090	29.15	
9.13	23/64"	89	124	5	1031523	26.24	
9.50		81	125	5	1031095	30.20	
9.52	3/8"	92	127	5	1031524	29.00	
9.92	25/64"	95	130	5	1031525	31.37	
10.00		87	133	5	1031100	33.17	
10.32	13/32"	98	133	5	1031526	33.46	
10.50		87	133	5	1031105	38.16	
10.72	27/64"	100	137	5	1031527	35.84	
11.00		94	142	5	1031110	42.12	
11.11	7/16"	103	140	5	1031528	38.21	
11.50		94	142	5	1031115	50.31	
11.51	29/64"	106	143	5	1031529	41.38	
11.91	15/32"	110	146	5	1031530	44.14	
12.00		101	151	5	1031120	53.85	
12.3	31/64"	111	149	5	1031531	47.70	
12.50		101	151	5	1031125	67.55	
12.7	1/2"	114	152	5	1031532	53.77	
13.00		101	151	5	1031130	69.10	

JOBBER DRILLS CARDED

Our Cobalt and Bright jobber drills are now available in attractive hang-packs.



Bronze Finish

This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Point		Cobalt 135° Split Point	
					GROUP	JOB B	GROUP	JOB C
					Part No.	Price	Part No.	Price
		FL mm	OAL mm	Pack Qty				
1.00		12	34	2	1911010	7.52	1032010	13.09
1.50		18	40	2	1911015	6.85	1032015	13.09
1.59	1/16"	22	48	2	1911504	6.58	1032504	13.09
1.98	5/64"	25	51	2	1911505	6.21	1032505	13.09
2.00		24	49	2	1911020	6.21	1032020	13.09
2.38	3/32"	32	57	2	1911506	6.21	1032506	13.09
2.50		30	57	2	1911025	6.21	1032025	13.09
2.78	7/64"	38	67	2	1911507	5.72	1032507	13.09
3.00		33	61	2	1911030	5.88	1032030	13.09
3.17	1/8"	41	70	2	1911508	5.88	1032508	13.09
3.50		39	70	1	1911035	3.22	1032035	8.25
3.57	9/64"	44	73	1	1911509	3.29	1032509	8.00
3.97	5/32"	51	79	1	1911510	3.54	1032510	8.58
4.00		43	75	1	1911040	3.63	1032040	8.83
4.37	11/64"	54	83	1	1911511	3.97	1032511	9.27
4.50		47	80	1	1911045	3.97	1032045	9.88
4.76	3/16"	59	89	1	1911512	4.32	1032512	10.20
5.00		52	86	1	1911050	4.62	1032050	11.01
5.16	13/64"	62	92	1	1911513	4.84	1032513	10.78
5.50		57	93	1	1911055	5.29	1032055	12.39
5.56	7/32"	64	95	1	1911514	5.29	1032514	11.24
5.95	15/64"	67	98	1	1911515	5.72	1032515	12.40
6.00		57	93	1	1911060	5.96	1032060	14.27
6.35	1/4"	70	102	1	1911516	6.39	1032516	14.30
6.50		63	101	1	1911065	6.63	1032065	16.03
6.75	17/64"	73	105	1	1911517	7.17	1032517	16.36
7.00		69	109	1	1911070	7.63	1032070	17.85
7.14	9/32"	75	108	1	1911518	7.91	1032518	18.03
7.50		69	109	1	1911075	8.60	1032075	18.94
7.54	19/64"	78	111	1	1911519	8.60	1032519	20.22
7.94	5/16"	81	114	1	1911520	9.25	1032520	22.02
8.00		75	117	1	1911080	9.25	1032080	21.74

JOBBER DRILLS CARDED



Bronze Finish

This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are suitable for general purpose use, particularly for non-ferrous applications.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Point		Cobalt 135° Split Point	
					GROUP	JOB	GROUP	JOB
		FL mm	OAL mm	Pack Qty	Part No.	Price	Part No.	Price
8.33	21/64"	84	117	1	1911521	9.93	1032521	23.69
8.50		75	117	1	1911085	10.34	1032085	22.52
8.73	11/32"	87	121	1	1911522	10.93	1032522	25.50
9.00		81	125	1	1911090	11.37	1032090	28.12
9.13	23/64"	89	124	1	1911523	11.78	1032523	27.56
9.50		81	125	1	1911095	12.57	1032095	29.04
9.52	3/8"	92	127	1	1911524	12.57	1032524	30.26
9.92	25/64"	95	130	1	1911525	13.34	1032525	32.58
10.00		87	133	1	1911100	13.44	1032100	31.69
10.32	13/32"	98	133	1	1911526	14.89	1032526	37.41
10.50		87	133	1	1911105	15.09	1032105	36.12
10.72	27/64"	100	137	1	1911527	16.42	1032527	39.92
11.00		94	142	1	1911110	17.41	1032110	39.66
11.11	7/16"	103	140	1	1911528	17.73	1032528	42.42
11.50		94	142	1	1911115	19.51	1032115	46.95
11.51	29/64"	106	143	1	1911529	19.61	1032529	45.76
11.91	15/32"	110	146	1	1911530	21.81	1032530	48.68
12.00		101	151	1	1911120	22.03	1032120	50.09
12.3	31/64"	111	149	1	1911531	23.14	1032531	52.44
12.50		101	151	1	1911125	24.27	1032125	62.29
12.7	1/2"	114	152	1	1911532	24.27	1032532	58.83
13.00		101	151	1	1911130	26.00	1032130	63.68

CARDED JOBBER DRILL MERCHANDISERS

- Bright finish jobber drill merchandisers are available
- Drill bits come packed in attractive clam shells
- Metric drill bits come with green cards and imperial drill bits come with blue cards



Metric



Imperial

DRILL STAND



available page 129

Part No.	Description		Price
	GROUP	JOB	
	Sizes	Range Available	
190DM25	Metric	1 to 13.0mm x 0.5mm	1022.02
190DMF29	Imperial	1/16" to 1/2" x 1/64ths	1063.20

Metric Merchandiser			
Sizes (mm)	Qty	Sizes (mm)	Qty
1	10	8.5	3
1.5	10	9	3
2	10	9.5	2
2.5	10	10	6
3	10	10.5	2
3.5	10	11	2
4	10	11.5	2
4.5	10	12	3
5	10	12.5	2
5.5	3	13	3
6	6		
6.5	3		
7	3		
7.5	3		
8	6		

Imperial Merchandiser			
Sizes (in.)	Qty	Sizes (in.)	Qty
1/16	10	19/64	3
5/64	10	5/16	6
3/32	10	21/64	3
7/64	10	11/32	3
1/8	10	23/64	3
9/64	10	3/8	6
5/32	10	25/64	2
11/64	10	13/32	2
3/16	10	27/64	2
13/64	3	7/16	2
7/32	3	29/64	2
15/64	3	15/32	2
1/4	6	31/64	2
17/64	3	1/2"	3
9/32	3		

JOBBER DRILL SETS - METRIC

Jobber drill sets come in attractive ABS or metal cases, varying by set size.



TiNite Metric Set



Bright Metric Set



29pc
Metric Set
inc. Tapping sizes



Cobalt Metric Set

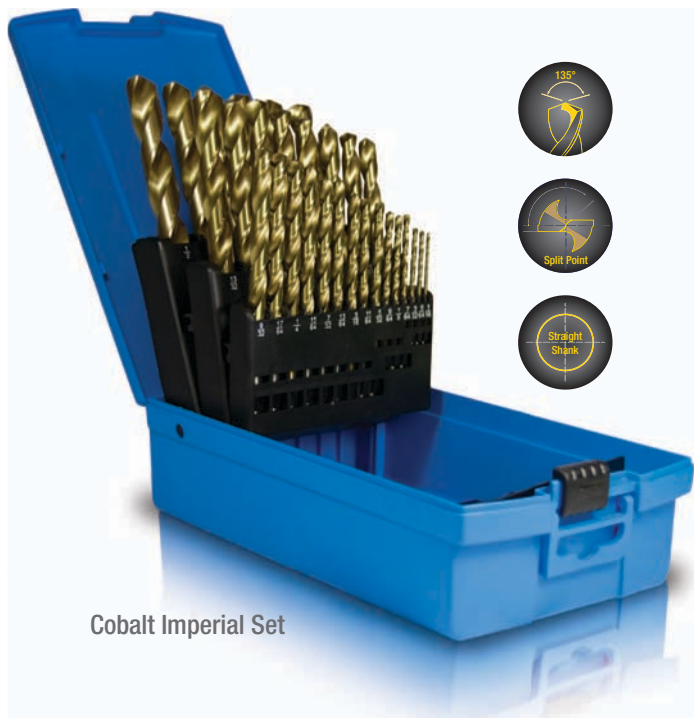
Description			Bright 118° Std. Chisel		TiNite 135° Split Point		Cobalt 135° Split Point	
	Drills #	Case	GROUP	JOB	GROUP	JOB	GROUP	JOB
			Part No.	Price	Part No.	Price	Part No.	Price
1.0mm to 6.5mm	12	Metal	190SM1	52.91	1905SM1	52.91	-	-
1.0mm to 10mm	19	Metal	190SM2	130.46	1905SM2	130.46	-	-
1.0mm to 13mm	25	Plastic	190SM3	256.75	1905SM3	256.75	1031SM3	571.70
1.0mm to 13mm + tapping sizes Tapping sizes : 3.3, 4.2, 6.8, 10.2mm	29	Metal	190SM29	256.75	-	-	-	-

JOBBER DRILL SETS - IMPERIAL

Jobber drill sets come in attractive ABS or metal cases, varying by set size.



Bright Imperial Set



Cobalt Imperial Set

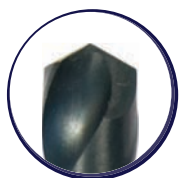


TiNite Imperial Set

Description			Bright 118° Std. Chisel		TiNite 135° Split Point		Cobalt 135° Split Point	
	Drills #	Case	GROUP	JOB	GROUP	JOB	GROUP	JOB
			Part No.	Price	Part No.	Price	Part No.	Price
1/16" to 1/4" x 1/64"	13	Metal	190SF1	56.20	1905SF1	56.20	-	-
1/16" to 3/8" x 1/64"	21	Metal	190SF2	133.33	1905SF2	133.33	-	-
1/16" to 1/2" x 1/64"	29	Plastic	190SF3	284.95	1905SF3	284.95	1031SF3	666.11

STUB DRILLS

Stub drills have a shorter overall length and shorter flute length which results in higher rigidity. Ideal for drilling in sheet metal, flat steels, profile steels and drilling out broken studs.



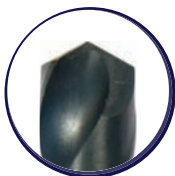
Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.

DIA mm	DIA in.	Dimensions			Black 135° Split Point	
		FL mm	OAL mm	Pack Qty	GROUP	STUB
					Part No.	Price
1.00		6	26	10	1073010	3.29
1.50		9	32	10	1073015	2.94
1.59	1/16"	10	34	10	1073504	2.86
1.98	5/64"	12	38	10	1073505	2.67
2.00		12	38	10	1073020	2.67
2.38	3/32"	14	43	10	1073506	2.67
2.50		14	43	10	1073025	2.67
2.78	7/64"	16	46	10	1073507	2.41
3.00		16	46	10	1073030	2.54
3.17	1/8"	18	49	10	1073508	2.54
3.50		20	52	10	1073035	2.78
3.57	9/64"	20	52	10	1073509	2.86
3.97	5/32"	22	55	10	1073510	3.10
4.00		22	55	10	1073040	3.22
4.37	11/64"	24	58	10	1073511	3.54
4.50		24	58	10	1073045	3.54
4.76	3/16"	26	62	10	1073512	3.88
5.00		26	62	10	1073050	4.19
5.16	13/64"	26	62	10	1073513	4.39
5.50		28	66	10	1073055	4.84
5.56	7/32"	28	66	10	1073514	4.84
5.95	15/64"	28	66	10	1073515	5.29
6.00		28	66	10	1073060	5.52
6.35	1/4"	31	70	10	1073516	5.96
6.50		31	70	10	1073065	6.15
6.75	17/64"	31	70	10	1073517	6.73
7.00		34	74	10	1073070	7.17
7.14	9/32"	34	74	10	1073518	7.49
7.50		34	74	10	1073075	8.14
7.54	19/64"	34	74	5	1073519	8.14
7.94	5/16"	37	79	5	1073520	8.82
8.00		37	79	5	1073080	8.82

STUB DRILLS

Stub drills have a shorter overall length and shorter flute length which results in higher rigidity. Ideal for drilling in sheet metal, flat steels, profile steels and drilling out broken studs.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.

DIA mm	DIA in.	Dimensions			Black 135° Split Point	
		FL mm	OAL mm	Pack Qty	GROUP	STUB
					Part No.	Price
8.33	21/64"	21	64	5	1073521	9.50
8.50		37	79	5	1073085	9.93
8.73	11/32"	21	64	5	1073522	10.48
9.00		40	84	5	1073090	10.93
9.13	23/64"	40	84	5	1073523	11.37
9.50		40	84	5	1073095	12.11
9.52	3/8"	40	84	5	1073524	12.11
9.92	25/64"	43	89	5	1073525	12.90
10.00		43	89	5	1073100	13.00
10.32	13/32"	43	89	5	1073526	14.45
10.50		43	89	5	1073105	14.71
10.72	27/64"	43	89	5	1073527	15.98
11.00		47	95	5	1073110	16.96
11.11	7/16"	47	95	5	1073528	17.31
11.50		47	95	5	1073115	19.10
11.51	29/64"	47	95	5	1073529	19.16
11.91	15/32"	47	95	5	1073530	21.39
12.00		51	102	5	1073120	21.61
12.3	31/64"	47	95	5	1073531	22.69
12.50		51	102	5	1073125	23.78
12.7	1/2"	51	102	5	1073532	23.78
13.00		51	102	5	1073130	25.55

LONG SERIES DRILLS

Great for drilling deep holes and in places which cannot be reached by standard Jobber drills. Longer flute and overall length than standard jobber drills.



Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are particularly suitable for general purpose use, particularly for non-ferrous applications.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Point	
		FL mm	OAL mm	Pack Qty	GROUP	LSRD
					Part No.	Price
1.00		33	56	1	1051010	8.66
1.50		45	70	1	1051015	7.06
1.59	1/16"	50	76	1	1051504	9.93
1.98	5/64"	56	85	1	1051505	7.15
2.00		56	85	1	1051020	8.54
2.38	3/32"	62	95	1	1051506	7.15
2.50		62	95	1	1051025	8.54
2.78	7/64"	66	100	1	1051507	7.15
3.00		66	100	1	1051030	8.54
3.17	1/8"	69	106	1	1051508	8.09
3.50		73	112	1	1051035	9.28
3.57	9/64"	73	112	1	1051509	8.44
3.97	5/32"	78	119	1	1051510	9.04
4.00		78	119	1	1051040	9.66
4.37	11/64"	82	126	1	1051511	9.66
4.50		82	126	1	1051045	11.91
4.76	3/16"	87	132	1	1051512	11.91
5.00		87	132	1	1051050	12.85
5.16	13/64"	87	132	1	1051513	12.84
5.50		91	139	1	1051055	13.34
5.56	7/32"	91	139	1	1051514	13.34
5.95	15/64"	91	139	1	1051515	13.81
6.00		91	139	1	1051060	14.29
6.35	1/4"	97	148	1	1051516	15.47
6.50		97	148	1	1051065	20.73
6.75	17/64"	102	156	1	1051517	20.73
7.00		102	156	1	1051070	20.73
7.14	9/32"	102	156	1	1051518	20.24
7.50		102	156	1	1051075	22.39
7.54	19/64"	109	165	1	1051519	22.39
7.94	5/16"	109	165	1	1051520	23.31
8.00		109	165	1	1051080	25.70

LONG SERIES DRILLS

Great for drilling deep holes and in places which cannot be reached by standard Jobber drills. Longer flute and overall length than standard jobber drills.



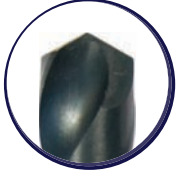
Bright Finish

A bright finish tool has no surface treatment and is supplied in the as ground condition. These tools are particularly suitable for general purpose use, particularly for non-ferrous applications.

DIA mm	DIA in.	Dimensions			Bright 118° Std. Point	
		FL mm	OAL mm	Pack Qty	GROUP	LSRD
					Part No.	Price
8.33	21/64"	109	165	1	1051521	25.70
8.50		109	165	1	1051085	25.70
8.73	11/32"	115	175	1	1051522	29.05
9.00		115	175	1	1051090	29.75
9.13	23/64"	115	175	1	1051523	29.74
9.50		115	175	1	1051095	31.21
9.52	3/8"	121	184	1	1051524	30.44
9.92	25/64"	121	184	1	1051525	32.13
10.00		121	184	1	1051100	32.13
10.32	13/32"	121	184	1	1051526	36.89
10.50		121	184	1	1051105	36.89
10.72	27/64"	128	195	1	1051527	40.50
11.00		128	195	1	1051110	41.67
11.11	7/16"	128	195	1	1051528	41.67
11.50		128	195	1	1051115	47.70
11.51	29/64"	128	195	1	1051529	42.84
11.91	15/32"	134	205	1	1051530	48.81
12.00		134	205	1	1051120	51.18
12.3	31/64"	134	205	1	1051531	51.18
12.50		134	205	1	1051125	53.57
12.7	1/2"	134	205	1	1051532	53.57
13.00		134	205	1	1051130	55.95

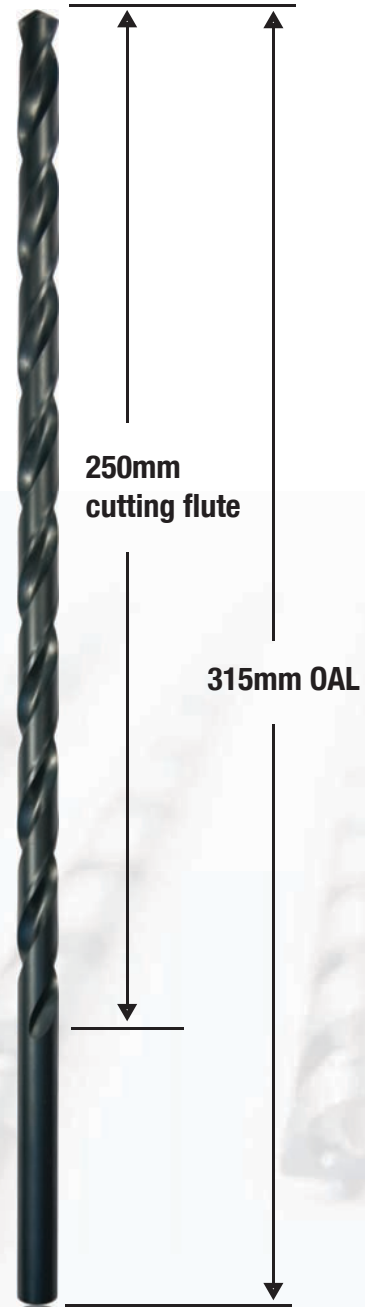
EXTRA LONG SERIES DRILLS

Great for drilling extremely deep holes and reaching places which cannot be reached by the long series drill. Longer flute and overall length than long series drills. Come with a black surface finish for extra strength.



Black Oxide Finish

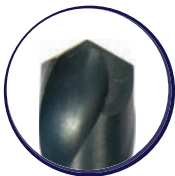
A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



DIA mm	DIA in.	Dimensions			Black 118° Std. Point		
		FL mm	OAL mm	Pack Qty	GROUP	ELRD	
					Part No.	Price	
3.00	-	250	315	1	1061030	50.22	
4.00	-	250	315	1	1061040	50.22	
5.00	-	250	315	1	1061050	54.38	
6.00	-	250	315	1	1061060	75.02	
8.00	-	250	315	1	1061080	92.63	
10.00	-	250	315	1	1061100	104.08	
12.00	-	250	315	1	1061120	119.69	

MORSE TAPER SHANK DRILLS

Highly efficient standard drill with Morse taper shank. Usable for all general purpose drilling work in normal materials. High security against fracture.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



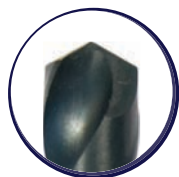
MTS Sleeves

Our range of hardened steel Morse Taper Shank sleeves is precision ground and fully hardened. See page 159 for details.

DIA mm	DIA in.	Dimensions			Black Finish 118° Std. Chisel	
		FL mm	OAL mm	MTS #	GROUP	MTSD
					Part No.	Price
3.17	1/8	37	117	1	1089001	28.55
4.76	3/16	52	133	1	1089002	30.91
5.00		52	133	1	1080500	28.07
5.56	7/32	57	138	1	1089003	30.67
6.00		57	138	1	1080600	30.91
6.35	1/4	64	144	1	1089004	27.34
7.00		69	150	1	1080700	33.24
7.14	9/32	69	150	1	1089005	31.75
7.94	5/16	75	156	1	1089006	34.21
8.00		75	156	1	1080800	35.22
8.73	11/32	81	162	1	1089007	43.98
9.00		81	162	1	1080900	44.77
9.52	3/8	87	168	1	1089008	47.11
10.00		87	168	1	1081000	33.46
10.32	13/32	87	168	1	1089009	34.20
10.50		87	168	1	1081050	34.68
11.00		94	175	1	1081100	39.12
11.11	7/16	94	175	1	1089010	39.46
11.50		94	175	1	1081150	41.42
11.91	15/32	101	182	1	1089011	41.97
12.00		101	182	1	1081200	43.79
12.50		101	182	1	1081250	45.67
12.70	1/2	101	182	1	1089012	45.84
13.00		101	182	1	1081300	47.32
13.49	17/32	108	189	1	1089013	46.97
13.50		108	189	1	1081350	47.64
14.00		108	189	1	1081400	48.38
14.29	9/16	114	213	2	1089014	51.02
14.50		114	212	2	1081450	55.92
15.00		114	212	2	1081500	56.83
15.08	19/32	121	219	2	1089015	56.67
15.50		120	218	2	1081550	59.62

MORSE TAPER SHANK DRILLS

Highly efficient standard drill with Morse taper shank. Usable for all general purpose drilling work in normal materials. High security against fracture.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



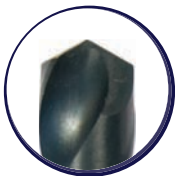
MTS Sleeves

Our range of hardened steel Morse Taper Shank sleeves is precision ground and fully hardened. See page 159 for details.

DIA mm	DIA in.	Dimensions			Black Finish 118° Std. Chisel	
		FL mm	OAL mm	MTS #	GROUP	MTSD
					Part No.	Price
15.87	5/8	121	219	2	1089016	58.77
16.00		120	218	2	1081600	63.39
16.50		125	223	2	1081650	68.64
16.67	21/32	124	222	2	1089017	72.93
17.00		125	223	2	1081700	75.53
17.46	11/16	130	229	2	1089018	76.73
17.50		130	228	2	1081750	78.73
18.00		130	228	2	1081800	84.05
18.26	23/32	133	232	2	1089019	84.98
18.50		135	233	2	1081850	90.12
19.00		135	233	2	1081900	93.97
19.05	3/4	140	238	2	1089020	97.02
19.50		140	238	2	1081950	106.61
19.84	25/32	140	238	2	1089021	105.11
20.00		140	238	2	1082000	106.61
20.50		145	243	2	1082050	118.25
20.64	13/16	146	244	2	1089022	116.59
21.00		145	243	2	1082100	118.25
21.43	27/32	149	248	2	1089023	118.69
21.50		150	248	2	1082150	122.02
22.00		150	248	2	1082200	129.65
22.22	7/8	149	248	2	1089024	130.81
22.50		155	253	2	1082250	133.84
23.00		155	253	2	1082300	139.82
23.02	29/32	156	254	2	1089025	137.85
23.50		155	276	3	1082350	144.57
23.81	15/16	159	279	3	1089026	148.76
24.00		160	281	3	1082400	150.89
24.50		160	281	3	1082450	155.82
24.61	31/32	159	279	3	1089027	152.56
25.00		160	281	3	1082500	160.48
25.40	1	165	286	3	1089028	174.80

MORSE TAPER SHANK DRILLS

Highly efficient standard drill with Morse taper shank. Usable for all general purpose drilling work in normal materials. High security against fracture.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



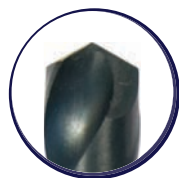
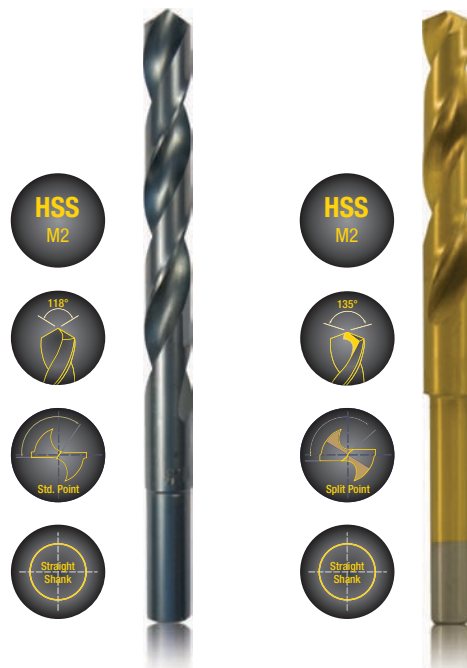
MTS Sleeves

Our range of hardened steel Morse Taper Shank sleeves is precision ground and fully hardened. See page 159 for details.

DIA mm	DIA in.	Dimensions			Black Finish 118° Std. Chisel		
		FL mm	OAL mm	MTS #	GROUP	MTSD	
				Part No.	Price		
25.50		165	286	3	1082550	177.30	
26.00		165	286	3	1082600	185.99	
26.50		165	286	3	1082650	188.62	
26.99	1-1/16	168	289	3	1089029	184.66	
27.00		170	291	3	1082700	187.30	
27.50		170	291	3	1082750	200.42	
28.00		170	291	3	1082800	200.99	
28.50		175	296	3	1082850	224.94	
28.57	1-1/8	175	295	3	1089030	225.82	
29.00		175	296	3	1082900	229.04	
29.50		175	296	3	1082950	229.86	
30.00		175	296	3	1083000	230.52	
30.16	1-3/16	181	302	3	1089031	227.27	
30.50		180	301	3	1083050	237.73	
31.00		180	301	3	1083100	242.33	
31.50		180	301	3	1083150	262.42	
31.75	1-1/4	184	305	3	1089032	266.64	
32.00		185	334	4	1083200	274.55	
35.00		190	339	4	1083500	337.21	
40.00		200	349	4	1084000	433.46	
40.50	1-1/2	205	354	4	1089036	381.85	

REDUCED SHANK DRILLS

These drills are designed to be used in drill chucks where size is restricted to chuck capacity, but drilling hole size has to be larger than normal Jobber drills. Supplied in hang packs.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



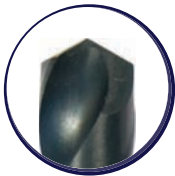
Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharping. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

DIA mm	DIA in.	Dimensions			Black Finish 118° Std. Point		TiNite 135° Split Point	
		FL mm	OAL mm	Shank	GROUP	RSDL	GROUP	JOBT
					Part No.	Price	Part No.	Price
10.32	13/32"			3/8"	-	-	102526T	15.53
10.50				10mm	-	-	102105T	15.01
10.72	27/64"			3/8"	-	-	102527T	17.10
11.00				10mm	-	-	102110T	16.41
11.11	7/16"			3/8"	-	-	102528T	17.81
11.50				10mm	-	-	102115T	16.75
11.51	29/64"			3/8"	-	-	102529T	21.29
11.91	15/32"			3/8"	-	-	102530T	21.65
12.00				10mm	-	-	102120T	18.15
12.30	31/64"			3/8"	-	-	102531T	23.56
12.50				10mm	-	-	102125T	20.59
12.70	1/2"			3/8"	-	-	102532T	24.08
13.00		80	152	3/8"	102130	37.86	102130T	23.03
13.50		80	152	3/8"	102135	44.87	-	-
13.89	17/32"	80	152	1/2"	102501	42.71	-	-
14.00		80	152	3/8"	102140	44.87	-	-
14.29	9/16"	80	152	1/2"	102502	44.52	-	-
14.50		80	152	3/8"	102145	47.81	-	-
15.00		80	152	3/8"	102150	48.25	-	-
15.08	19/32"	80	152	1/2"	102503	47.70	-	-
15.50		80	152	3/8"	102155	51.46	-	-
15.88	5/8"	80	152	1/2"	102504	50.85	-	-
16.00		80	152	1/2"	102160	52.16	-	-
16.50		80	152	1/2"	102165	55.36	-	-
16.67	21/32"	80	152	1/2"	102505	54.66	-	-
17.00		80	152	1/2"	102170	55.36	-	-
17.46	11/16"	80	152	1/2"	102506	58.49	-	-
17.50		80	152	1/2"	102175	59.25	-	-
18.00		80	152	1/2"	102180	59.25	-	-
18.26	23/32"	80	152	1/2"	102507	58.49	-	-
18.50		80	152	1/2"	102185	61.74	-	-
19.00		80	152	1/2"	102190	61.74	-	-

REDUCED SHANK DRILLS

These drills are designed to be used in drill chucks where size is restricted to chuck capacity, but drilling hole size has to be larger than normal Jobber drills. Supplied in hang packs.



Black Oxide Finish

A black finish is achieved by steam tempering, a thermal process resulting in a porous tool coating. This surface helps to keep lubricant on the tool, particularly important on the cutting edges, thus reducing friction and cold welding. The result is increased tool life. Black finish tools are generally recommended for ferrous applications where the oxide layer aids chip flow and heat dissipation.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

DIA mm	DIA in.	Dimensions			Black Finish 118° Std. Point		TiNite 135° Split Point	
					GROUP	RSDL	GROUP	JOBT
		FL mm	OAL mm	Shank in.	Part No.	Price	Part No.	Price
19.05	3/4"	80	152	1/2"	102508	60.95	-	-
19.50		76	152	1/2"	102195	65.65	-	-
20.00		76	152	1/2"	102200	66.78	-	-
20.50		76	152	1/2"	102205	71.38	-	-
20.64	13/16"	76	152	1/2"	102509	70.37	-	-
21.00		76	152	1/2"	102210	71.38	-	-
21.50		76	152	1/2"	102215	74.35	-	-
22.00		76	152	1/2"	102220	74.35	-	-
22.23	7/8"	76	152	1/2"	102510	73.32	-	-
22.50		76	152	1/2"	102225	80.74	-	-
23.00		76	152	1/2"	102230	80.74	-	-
23.50		76	152	1/2"	102235	84.63	-	-
23.81	15/16"	76	152	1/2"	102511	83.48	-	-
24.00		76	152	1/2"	102240	86.00	-	-
24.50		76	152	1/2"	102245	91.73	-	-
25.00		76	152	1/2"	102250	91.73	-	-
25.40	1"	76	152	1/2"	102512	90.42	-	-
26.00		76	152	1/2"	102260	115.04	-	-
26.99	1-1/16"	76	152	1/2"	102513	118.11	-	-
27.00		76	152	1/2"	102270	126.49	-	-
28.00		76	152	1/2"	102280	135.45	-	-
28.58	1-1/8"	76	152	1/2"	102514	133.68	-	-
29.00		76	152	1/2"	102290	135.45	-	-
30.00		76	152	1/2"	102300	140.83	-	-
30.16	1-3/16"	76	152	1/2"	102515	139.00	-	-
31.75	1-1/4"	76	152	1/2"	102516	151.06	-	-

REDUCED SHANK DRILLS SET



Drill Set

Intech reduced shank drill sets offer quick access to drills via size labels placed directly underneath each respective drill bit.

Description	Dimensions			Black 118° Std. Chisel	
	Drills #	Case	Content	GROUP	RSDL
				Part No.	Price
9/16" to 1" x 1/16"	8	Metal	9/16", 5/8", 11/16", 3/4" 13/16", 7/8", 15/16", 1"	102SR8	532.39
14mm to 25mm	8	Metal	14mm, 15mm, 16mm, 16.5mm, 18mm, 20mm, 22mm, 25mm	102SM8	532.39

LEFT HAND STUB DRILLS

This unique short series range of stub drill bits are designed to cater for all engineers drilling needs and offer a solution to all drilling problems where other drills cannot cope or stand up to modern manufacturing speeds and methods. The left handed helix makes them particularly suitable for use in conjunction with the Intech Screw Extractor Set.



Bronze Finish

This metallic brown coloured low temperature temper treatment is normally only used on cobalt tools for identification purposes. Cobalt HSS drills are extremely hard and provide superior performance and increased tool life especially in stainless steel and high tensile steel.



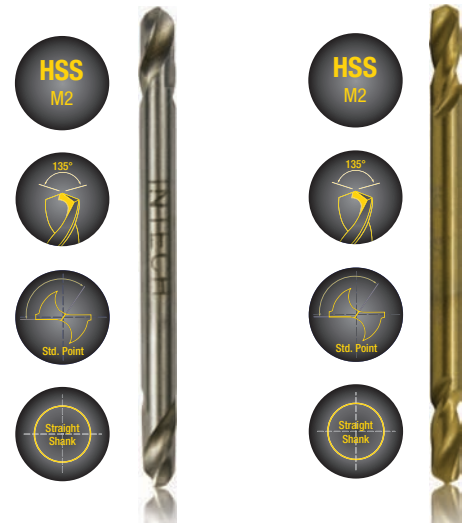
Screw Extractor Set

This left hand stub drill suits the Intech Screw Extractor set. See page 59 for details.

DIA mm	DIA in.	Pack Qty	Left Hand Twist Drill	
			GROUP	GCTR
			Part No.	Price
6.35	1/4"	1	1045-1/4	13.87
7.50	19/64"	1	1045-19/64	19.63
3.90	5/32"	2	1045-5/32	17.52
2.80	5/64"	2	1045-5/64	12.80
2.00	7/64"	2	1045-7/64	13.37

DOUBLE ENDED PANEL DRILLS

These double ended panel drills are made for drilling rivet holes and are used mainly in sheet metal fabrication.



DIA Gauge	DIA in.	Dimensions			Bright Finish 118° Std. Point		TiNite 118° Std. Chisel	
					GROUP	PANL	GROUP	PANL
		FL mm	OAL mm	Pack Qty	Part No.	Price	Part No.	Price
-	1/8	14	51	10	110018	3.78	115018	3.78
30	-	14	51	10	110030	3.78	115030	3.78
20	-	14	55	10	110020	4.62	115020	4.62
11	-	17	62	10	110011	5.52	115011	5.52

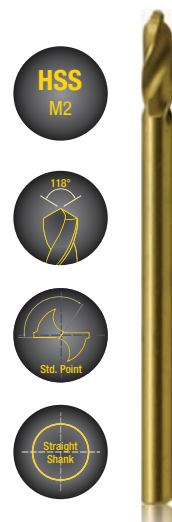
SINGLE ENDED PANEL DRILLS

These single ended panel drills are made for drilling rivet holes and are used mainly in sheet metal fabrication.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.



DIA Gauge	DIA in.	Dimensions			TiNite 118° Std. Chisel	
					GROUP	PANL
		FL mm	OAL mm	Pack Qty	Part No.	Price
-	1/8	14	51	10	113518	3.44
30	-	14	51	10	113530	3.44
20	-	14	55	10	113520	4.20
11	-	17	62	10	113511	5.02

SPADE BITS

Parabolic scoop optimises control and removal of wood chips
 Double spurs for clean holes and reduced breakout
 6mm hex shank prevents bit from slipping in chuck



Part No.	Description		Price	
	GROUP >	HSBM		
	Dia. mm			
50106	6.00	-	7.60	-
50108	8.00	-	7.60	-
50110	10.00	-	8.70	-
50112	12.00	-	8.70	-
50113	13.00	-	8.70	-
50114	14.00	-	9.30	-
50116	16.00	-	9.75	-
50118	18.00	-	9.75	-
50119	19.00	-	9.75	-
50120	20.00	-	10.05	-
50122	22.00	-	10.05	-
50124	24.00	-	10.80	-
50125	25.00	-	10.80	-
50126	26.00	-	13.80	-
50128	28.00	-	13.80	-
50130	30.00	-	13.80	-
50132	32.00	-	13.90	-
50135	35.00	-	13.90	-
50138	38.00	-	13.90	-
EXTENSIONS				
500-EB150	Extension bar 150mm		12.15	-
500-EB300	Extension bar 300mm		12.92	-

* Available soon

3 FLUTE WOOD BITS

Tri-Flute design for faster chip ejection
 Full screw tip for ease of use and pull through
 Cutting spurs for clean holes with minimal breakout
 Tapered flute for less binding and ease of use



Part No.	Description		Price	
	GROUP >	HSBM		
	Dia. mm			
50216	16.00	-	12.90	-
50220	20.00	-	13.50	-
50225	25.00	-	14.20	-
50232	32.00	-	18.50	-

* Available soon

MACHINE REAMERS

Intech machine reamers have a very slight lead in and starts cutting immediately. Due to the reamer and workpiece being pre-aligned by the machine, there is no risk of wandering. The 10° left hand spiral flutes remove swarf effectively.



DIA mm	DIA in.	Dimensions			HSS Machine Reamer	
		FL mm	OAL mm	Shank	GROUP	REAM
					Part No.	Price
3.0		32.0	115.0	MTS 1	410-030	82.84
3.5		32.0	115.0	MTS 1	410-035	82.84
4.0		38.0	120.0	MTS 1	410-040	82.84
4.5		38.0	120.0	MTS 1	410-045	82.84
5.0		38.0	120.0	MTS 1	410-050	82.84
5.5		45.0	127.0	MTS 1	410-055	82.84
6.0		45.0	127.0	MTS 1	410-060	74.33
6.5		50.0	130.0	MTS 1	410-065	77.81
7.0		54.0	134.0	MTS 1	410-070	77.81
7.5		54.0	134.0	MTS 1	410-075	77.81
8.0		58.0	138.0	MTS 1	410-080	77.81
8.5		58.0	138.0	MTS 1	410-085	82.84
9.0		62.0	142.0	MTS 1	410-090	82.84
9.5		62.0	142.0	MTS 1	410-095	79.71
10.0		66.0	146.0	MTS 1	410-100	79.71
10.5		66.0	146.0	MTS 1	410-105	100.87
11.0		71.0	151.0	MTS 1	410-110	100.87
11.5		71.0	151.0	MTS 1	410-115	108.79
12.0		76.0	156.0	MTS 1	410-120	96.38
12.5		76.0	156.0	MTS 1	410-125	104.58
13.0		76.0	156.0	MTS 1	410-130	116.38
13.5		81.0	161.0	MTS 1	410-135	142.17
14.0		81.0	161.0	MTS 1	410-140	116.38
14.5		81.0	181.0	MTS 2	410-145	156.74
15.0		81.0	181.0	MTS 2	410-150	151.36
15.5		87.0	187.0	MTS 2	410-155	172.42
16.0		87.0	187.0	MTS 2	410-160	154.01
16.5		87.0	187.0	MTS 2	410-165	178.00
17.0		87.0	187.0	MTS 2	410-170	154.01
17.5		93.0	193.0	MTS 2	410-175	199.01
18.0		93.0	193.0	MTS 2	410-180	183.14
18.5		93.0	193.0	MTS 2	410-185	209.76
19.0		93.0	193.0	MTS 2	410-190	196.34
19.5		100.0	200.0	MTS 2	410-195	222.97
20.0		100.0	200.0	MTS 2	410-200	196.34
21.0		100.0	200.0	MTS 3	410-210	232.86
22.0		107.0	207.0	MTS 3	410-220	212.46
23.0		107.0	207.0	MTS 3	410-230	255.22
24.0		115.0	242.0	MTS 3	410-240	268.66
25.0		115.0	242.0	MTS 3	410-250	279.86

HAND REAMERS

Hand reamers have a longer taper or lead in at the front than a machine reamer. This is to compensate for the difficulty of starting a hole by hand power alone. It also allows the reamer to start straight and reduce the risk of breakage. The flutes are 10° left hand spiral.



DIA mm	DIA in.	Dimensions			HSS Hand Reamer	
		FL mm	OAL mm	Pack Qty	GROUP	REAM
Part No.	Price					
2.00	-	25.00	50.00	1	400-020	69.70
2.50	-	29.00	58.00	1	400-025	69.70
3.00	-	31.00	62.00	1	400-030	63.40
3.50	-	35.00	71.00	1	400-035	57.56
4.00	-	38.00	76.00	1	400-040	57.56
4.50	-	41.00	81.00	1	400-045	57.56
5.00	-	44.00	87.00	1	400-050	57.56
5.50	-	47.00	93.00	1	400-055	57.56
6.00	-	47.00	93.00	1	400-060	57.56
6.50	-	50.00	100.00	1	400-065	60.73
7.00	-	54.00	107.00	1	400-070	60.73
7.50	-	54.00	107.00	1	400-075	63.88
8.00	-	58.00	115.00	1	400-080	63.40
8.50	-	58.00	115.00	1	400-085	69.70
9.00	-	62.00	124.00	1	400-090	78.69
9.50	-	62.00	124.00	1	400-095	78.69
10.00	-	66.00	133.00	1	400-100	78.69
10.50	-	66.00	133.00	1	400-105	92.22
11.00	-	71.00	142.00	1	400-110	96.44
11.50	-	71.00	142.00	1	400-115	109.19
12.00	-	76.00	152.00	1	400-120	102.29
12.50	-	76.00	152.00	1	400-125	118.67
13.00	-	76.00	152.00	1	400-130	118.67
13.50	-	81.00	163.00	1	400-135	139.69
14.00	-	81.00	163.00	1	400-140	124.14
14.50	-	81.00	163.00	1	400-145	153.54
15.00	-	81.00	163.00	1	400-150	153.54
16.00	-	87.00	175.00	1	400-160	158.37
17.00	-	87.00	175.00	1	400-170	152.55
18.00	-	93.00	188.00	1	400-180	184.37
19.00	-	93.00	188.00	1	400-190	178.52
20.00	-	100.00	201.00	1	400-200	184.37
21.00	-	100.00	201.00	1	400-210	250.22
22.00	-	107.00	215.00	1	400-220	221.80
23.00	-	107.00	215.00	1	400-230	276.93
24.00	-	115.00	231.00	1	400-240	276.93
25.00	-	115.00	231.00	1	400-250	306.06
-	1/8	33.00	66.00	1	405-1/8	53.60
-	9/64	35.00	71.00	1	405-9/64	53.60
-	5/32	38.00	76.00	1	405-5/32	63.62
-	11/64	41.00	81.00	1	405-11/64	63.62
-	3/16	44.00	87.00	1	405-3/16	63.40
-	13/64	44.00	87.00	1	405-13/64	54.65
-	7/32	47.00	93.00	1	405-7/32	57.56

HAND REAMERS

DIA mm	DIA in.	Dimensions			HSS Hand Reamer	
					GROUP	REAM
		FL mm	OAL mm	Pack Qty	Part No.	Price
-	15/64	47.00	93.00	1	405-15/64	57.56
-	1/4	50.00	100.00	1	405-1/4	57.56
-	9/32	54.00	107.00	1	405-9/32	60.48
-	5/16	58.00	115.00	1	405-5/16	63.40
-	11/32	62.00	124.00	1	405-11/32	78.69
-	3/8	66.00	133.00	1	405-3/8	84.30
-	13/32	66.00	133.00	1	405-13/32	84.30
-	7/16	71.00	142.00	1	405-7/16	95.72
-	15/32	76.00	152.00	1	405-15/32	102.29
-	1/2	76.00	152.00	1	405-1/2	103.74
-	9/16	81.00	163.00	1	405-9/16	123.89
-	5/8	87.00	175.00	1	405-5/8	131.16
-	11/16	93.00	188.00	1	405-11/16	160.08
-	3/4	100.00	201.00	1	405-3/4	177.35
-	13/16	100.00	201.00	1	405-13/16	193.14
-	7/8	107.00	215.00	1	405-7/8	236.10
-	15/16	115.00	231.00	1	405-15/16	279.37
-	1	115.00	231.00	1	405-1	310.94

CHUCK REAMER

Intech chuck reamers are used to make minor enlargements to a hole. The entry end of the reamer has a slight taper. This produces a self centering action as it enters the raw hole. The larger proportion of the length will be of a constant diameter.



DIA mm	DIA in.	Dimensions			HSS Chuck Reamer	
					GROUP	REAM
		FL mm	OAL mm	Pack Qty	Part No.	Price
4.00	-	19.00	75.00	1	420-040	36.38
4.50	-	21.00	80.00	1	420-045	39.96
5.00	-	23.00	86.00	1	420-050	41.25
5.50	-	26.00	93.00	1	420-055	42.08
6.00	-	26.00	93.00	1	420-060	44.14
7.00	-	31.00	109.00	1	420-070	46.27
8.00	-	33.00	117.00	1	420-080	50.51
9.00	-	36.00	125.00	1	420-090	55.73
10.00	-	38.00	133.00	1	420-100	69.41
11.00	-	41.00	142.00	1	420-110	77.83
12.00	-	44.00	151.00	1	420-120	86.19
13.00	-	44.00	151.00	1	420-130	90.43
-	3/16	23.00	86.00	1	425-3/16	42.08
-	1/4	28.00	101.00	1	425-1/4	44.14
-	5/16	33.00	117.00	1	425-5/16	50.51
-	3/8	38.00	133.00	1	425-3/8	71.51
-	7/16	41.00	142.00	1	425-7/16	77.83
-	1/2	44.00	151.00	1	425-1/2	90.43

SLOT DRILLS - 2 FLUTE

Slot drills are generally two fluted cutters that are designed to drill straight down into the material. This is possible because there is at least one tooth at the centre of the end face.

HSS
M2



Part No.	Description				Price	
	GROUP		GCTR			
	Dia mm	Shank mm	OAL mm	Packing		
CTSD03	3	6	49	Hang Pack	18.16	
CTSD04	4	6	51	Hang Pack	19.32	
CTSD05	5	6	52	Hang Pack	19.50	
CTSD06	6	6	52	Hang Pack	19.71	
CTSD08	8	10	61	Hang Pack	29.91	
CTSD10	10	10	63	Hang Pack	30.65	
CTSD12	12	12	73	Hang Pack	37.20	
CTSD14	14	12	73	Hang Pack	46.09	
CTSD16	16	16	79	Hang Pack	54.39	
CTSD18	18	16	79	Hang Pack	62.34	
CTSD20	20	20	79	Hang Pack	74.42	
CTSD22	22	25	102	Hang Pack	114.82	
CTSD24	24	25	102	Hang Pack	116.93	
CTSD25	25	25	102	Hang Pack	116.93	

END MILLS - 4 FLUTE

End mills are tools which have cutting teeth at one end, as well as on the sides. The Intech End Mills are manufactured from High Speed Steel. They are the most common tool used in a vertical mill.

HSS
M2



Part No.	Description				Price	
	GROUP		GCTR			
	Dia mm	Shank mm	OAL mm	Packing		
CTEM02	2	6	-	Hang Pack	17.31	
CTEM03	3	6	52	Hang Pack	17.31	
CTEM04	4	6	55	Hang Pack	17.70	
CTEM05	5	6	57	Hang Pack	18.08	
CTEM06	6	6	57	Hang Pack	18.25	
CTEM08	8	8	69	Hang Pack	18.25	
CTEM10	10	10	72	Hang Pack	21.00	
CTEM12	12	12	83	Hang Pack	33.20	
CTEM14	14	12	83	Hang Pack	41.43	
CTEM16	16	16	92	Hang Pack	47.64	
CTEM18	18	16	92	Hang Pack	56.41	
CTEM20	20	20	104	Hang Pack	73.50	
CTEM22	22	20	104	Hang Pack	102.28	
CTEM25	25	25	121	Hang Pack	105.94	

HSS CENTRE DRILLS

Centre drill bits are used in metalworking to provide a starting hole for a larger sized drill bit or to make a conical indentation in the end of a workpiece in which to mount a lathe centre. Complies with DIN332 standard.



Part No.	Description		Price		
	GROUP > GCTR				
	Body dia. in.	Pilot dia. in.			
CTCD01	1/8"	3/64"	8.47		
CTCD02	3/16"	5/64"	8.89		
CTCD03	1/4"	7/64"	9.79		
CTCD04	5/16"	1/8"	11.81		
CTCD05	7/16"	3/16"	19.15		
CTCD06	1/2"	7/32"	35.72		
CTCD07	5/8"	1/4"	54.21		

SPOT WELD DRILLS

Extra short and stable standard drill. Ideally suitable for assembly work in thin-walled materials such as sheet steels, flat steels and profile steels. High security against fracture. For use in all hand-held drilling machines. Applications: for steel and cast-steel alloyed and unalloyed at approximately 900N/mm² strength, grey cast, malleable cast iron, die-cast metal, iron sinter, nickel-silver, graphite cast iron, short-chipping aluminium alloys, bronze and brass.



Part No.	Description			Price		
	GROUP > GCTR					
	Dia. mm	FL mm	OAL mm			
CTSW060	6.0	28	66	27.83		
CTSW065	6.5	28	66	27.83		
CTSW080	8.0	37	79	26.50		

TiNite COATED STEP DRILLS

These drills are ideal for use in thin materials and sheet metals. This single bit does the job of multiple drill bits. The two-flute design ensures smooth and accurate drilling with automatic deburring - resulting in burr free drilling without sheet deformation. No pilot hole is required. Each step corresponds to a hole size. The step depth is 5mm.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

Range	Dimensions			TiNite Finish Split Point			
				GROUP	STEP		
	Incr.	Shank	Holes #	Part No.	Price		
4mm to 12mm	1mm	6mm	9	120-412	60.00		
4mm to 20mm	2mm	8mm	9	120-420	64.00		
6mm to 30mm	2mm	10mm	13	120-630	120.00		
5mm to 35mm				120-535	140.00		
6mm to 40mm			16	120-640	250.00		
8mm to 50mm			17	120-850	390.00		
7mm to 60mm			18	120-760	590.00		
1/8" to 1/2"	1/32"	1/4"	13	120-018	60.00		
1/4" to 3/4"	1/16"	3/8"	9	120-014	68.00		
3pc Metric Set	-	-	-	120-3S	244.00		



The 3pc set includes:

- 4-12mm Drill in 1mm increments
- 4-20mm Drill in 2mm increments
- 4-30mm Drill in 2mm increments

P/N: 120-3S

TiNite COATED SPIRAL FLUTE STEP DRILLS

This versatile tool will center, spot-drill, bore and deburr all in one smooth, high performance cycle. Suitable for all standard industrial materials including nonferrous metal, special steel, thermoplastics and duroplastics as well as sheet metal up to 4mm thickness.



Gold Finish

A very hard gold coloured, Titanium Nitride, surface finish a few microns thick is achieved by Physical Vapour Deposition. As with all surface coated tools, performance will deteriorate after resharpening. The coating helps dissipate heat and reduces friction and cold welding. Higher speed and feed rates can be achieved and life expectancy is greatly increased.

Range	Dimensions		TiNite Finish Split Point			
	Increment	Holes #	GROUP	STEP		
			Part No.	Price		
4mm to 12mm	2mm	5	125-412	80.00		
4mm to 20mm	2mm	9	125-420	108.00		
4mm to 30mm	2mm	14	125-430	188.00		
3pc Metric Set	-	-	125-3S	340.00		



The 3pc set includes:

- 4-12mm Drill in 1mm increments
- 4-20mm Drill in 2mm increments
- 4-30mm Drill in 2mm increments

P/N: 125-3S

HSS 3-FLUTE 90° COUNTERSINK

Due to deep ground flutes the cutting edges are extremely sharp. Ideal for burr and chatter free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds.



Part No.	Description				Price	
	GROUP > CSINK					
	Dia mm	Capacity mm	Shank mm	Oal mm		
CTCS063	6.3	1.5 to 6.3	5	50	22.50	
CTCS083	8.3	2.0 to 8.3	6	51	23.40	
CTCS104	10.4	2.5 to 10.4	6	51	27.00	
CTCS124	12.4	2.8 to 12.4	8	56	30.60	
CTCS165	16.5	3.2 to 16.5	10	61	36.00	
CTCS205	20.5	3.5 to 20.5	10	63	46.80	
CTCS250	25.0	3.6 to 25.0	10	67	64.80	
CTCS280	28.0	4.0 to 28.0	12	71	94.50	
CTCS310	31.0	4.2 to 31.0	12	71	99.00	

HSS CROSS HOLE 90° COUNTERSINK

Due to deep ground flutes the cutting edges are extremely sharp. Ideal for burr and chatter free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds.



Part No.	Description				Price	
	GROUP > CSINK					
	Dia mm	Capacity mm	Shank mm	Oal mm		
CTCSC05	5	2 to 5	6	45	25.90	
CTCSC10	10	4 to 9	6	45	27.51	
CTCSC15	15	6 to 14	8	55	34.58	
CTCSC20	20	8 to 18	10	65	51.36	
CTCSC25	25	10 to 23	12	78	81.13	
CTCSC30	30	12 to 28	12	88	97.77	

HSS SINGLE FLUTE 90° COUNTERSINK

Due to deep ground flutes the cutting edges are extremely sharp. Ideal for burr and chatter free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds.



Part No.	Description				Price	
	GROUP > CSINK					
	Dia mm	Capacity mm	Shank mm	Oal mm		
CTCSF10	10	1 to 10	6	45	35.53	
CTCSF15	15	2 to 15	8	55	32.25	
CTCSF20	20	2 to 20	10	65	48.59	
CTCSF25	25	3 to 25	12	78	81.13	
CTCSF30	30	3 to 30	12	88	107.98	

HSS COUNTERSINK SETS

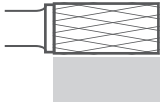


Part No.	Description			Price	
	GROUP >		CSINK		
	Type	Set	Contents Dia		
CTCSS1	Three Flute	5pc	10.4, 16.5, 20.5, 25 & 31mm	321.02	
CTCSS2	Single Flute	5pc	10, 15, 20, 25 & 30mm	308.91	
CTCSS3	Cross Hole	5pc	10, 15, 20, 25 & 30mm	270.00	

CYLINDRICAL TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

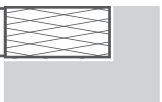


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SA1	1/4"	5/8"	1/4"	2"	32.99	
SA2	5/16"	3/4"	1/4"	2-1/2"	39.81	
SA3	3/8"	3/4"	1/4"	2-1/2"	42.80	
SA4	7/16"	1"	1/4"	2-1/2"	61.96	
SA5	1/2"	1"	1/4"	2-1/2"	66.75	
SA6	5/8"	1"	1/4"	2-1/2"	84.20	

CYLINDRICAL/END CUT TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

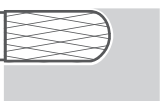


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SB1	1/4"	5/8"	1/4"	2"	35.66	
SB2	5/16"	3/4"	1/4"	2-1/2"	43.74	
SB3	3/8"	3/4"	1/4"	2-1/2"	47.16	
SB4	7/16"	1"	1/4"	2-1/2"	68.34	
SB5	1/2"	1"	1/4"	2-1/2"	73.55	
SB6	5/8"	1"	1/4"	2-1/2"	92.40	
SB7	3/4"	1"	1/4"	2-1/2"	156.21	

CYLINDRICAL RADIUS END TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

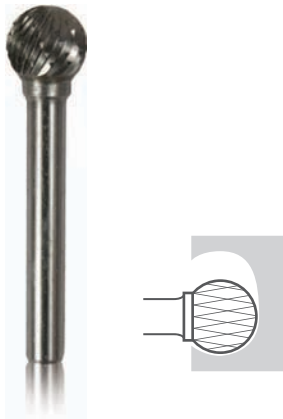


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SC1	1/4"	5/8"	1/4"	2"	38.33	
SC2	5/16"	3/4"	1/4"	2-1/2"	43.32	
SC3	3/8"	3/4"	1/4"	2-1/2"	47.59	
SC4	7/16"	1"	1/4"	2-1/2"	68.02	
SC5	1/2"	1"	1/4"	2-1/2"	74.94	
SC6	5/8"	1"	1/4"	2-1/2"	94.22	

BALL TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

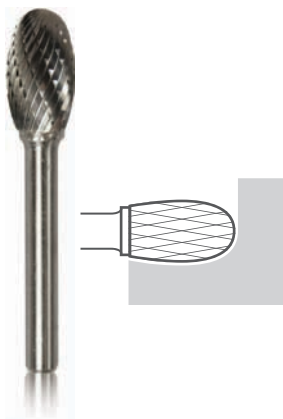


Part No.	Description					Price	
	GROUP		BURR				
	Head Dia in.	Length in.	Shank in.	Oal in.			
SD1	1/4"	5/8"	1/4"	2"	35.24		
SD2	5/16"	3/4"	1/4"	2-1/32"	34.92		
SD3	3/8"	3/4"	1/4"	2-5/64"	39.06		
SD4	7/16"	1"	1/4"	2-9/64"	45.24		
SD5	1/2"	1"	1/4"	2-13/64"	52.79		
SD6	5/8"	1"	1/4"	2-5/16"	65.36		

OVAL TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

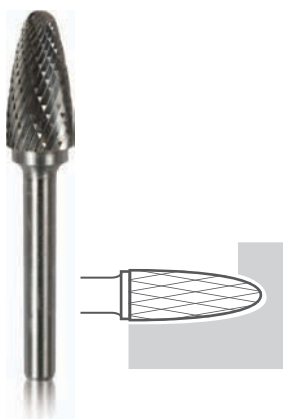


Part No.	Description					Price	
	GROUP		BURR				
	Head Dia in.	Length in.	Shank in.	Oal in.			
SE1	1/4"	3/8"	1/4"	2"	43.11		
SE3	3/8"	5/8"	1/4"	2-3/8"	47.59		
SE5	1/2"	7/8"	1/4"	2-5/8"	69.72		
SE6	5/8"	1"	1/4"	2-3/4"	97.37		

TREE RADIUS END TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

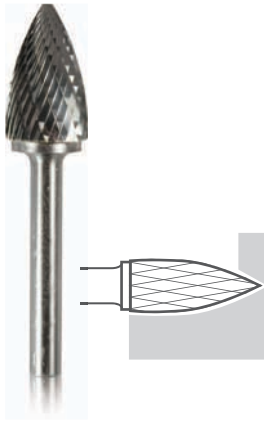


Part No.	Description					Price	
	GROUP		BURR				
	Head Dia in.	Length in.	Shank in.	Oal in.			
SF1	1/4"	5/8"	1/4"	2"	40.03		
SF3	5/16"	3/4"	1/4"	2-3/8"	46.63		
SF4	3/8"	1"	1/4"	2-3/4"	64.83		
SF5	1/2"	1"	1/4"	2-5/8"	69.00		
SF6	5/8"	1"	1/4"	2-3/4"	121.21		
SF7	3/4"	1"	1/4"	2-3/4"	141.98		

TREE POINTED END TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT



Part No.	Description					Price	
	GROUP > BURR						
	Head Dia in.	Length in.	Shank in.	Oal in.			
SG1	1/4"	5/8"	1/4"	2"	40.03		
SG2	5/16"	3/4"	1/4"	2-1/2"	44.92		
SG3	3/8"	3/4"	1/4"	2-1/2"	49.72		
SG5	1/2"	1"	1/4"	2-3/4"	67.60		
SG6	5/8"	1"	1/4"	2-3/4"	94.10		
SG7	3/4"	1"	1/4"	2-3/4"	141.98		

FLAME TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

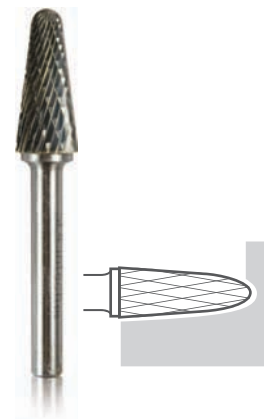


Part No.	Description					Price	
	GROUP > BURR						
	Head Dia in.	Length in.	Shank in.	Oal in.			
SH2	5/16"	3/4"	1/4"	2-1/2"	48.86		
SH5	1/2"	1-1/4"	1/4"	3"	99.84		
SH6	5/8"	1-7/16"	1/4"	3-3/16"	137.85		

TAPER TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

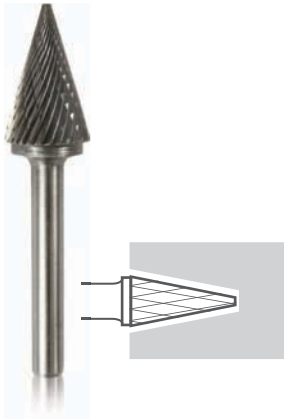


Part No.	Description					Angle	Price	
	GROUP > BURR							
	Head Dia in.	Length in.	Shank in.	Oal in.				
SL1	1/4"	5/8"	1/4"	2"	14°	40.98		
SL2	5/16"	7/8"	1/4"	2-3/4"	14°	49.60		
SL3	3/8"	1-1/16"	1/4"	2-15/16"	14°	59.62		
SL4	7/16"	1-1/8"	1/4"	3"	14°	72.82		
SL6	5/8"	1-5/16"	1/4"	3-3/16"	14°	143.29		

CONE TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

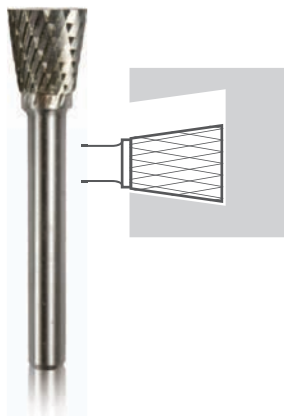


Part No.	Description					Angle	Price
	GROUP		BURR				
	Head Dia in.	Length in.	Shank in.	Oal in.			
SM1	1/4"	1/2"	1/4"	2"	22°	35.85	
SM2	1/4"	3/4"	1/4"	2"	14°	40.98	
SM3	1/4"	1"	1/4"	2"	10°	40.38	
SM4	3/8"	5/8"	1/4"	2-1/2"	28°	59.69	
SM5	1/2"	7/8"	1/4"	2-3/4"	28°	74.79	
SM6	5/8"	1"	1/4"	2-7/8"	31°	99.84	

INVERSE CONE TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

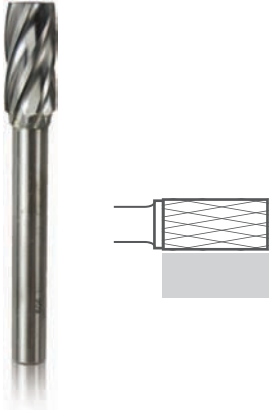


Part No.	Description					Price
	GROUP		BURR			
	Head Dia in.	Length in.	Shank in.	Oal in.		
SN1	1/4"	1/2"	1/4"	2"	39.06	
SN3	1/4"	1"	1/4"	2"	63.91	

CYLINDRICAL NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT

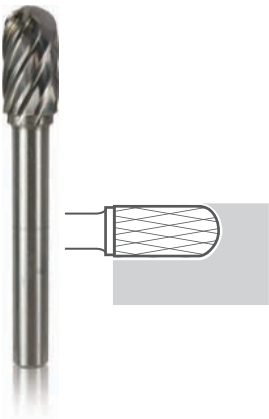


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SA1NF	1/4"	5/8"	1/4"	2"	41.36	
SA3NF	3/8"	3/4"	1/4"	2-1/2"	62.01	
SA5NF	1/2"	1"	1/4"	2-1/2"	90.89	
SA6NF	5/8"	1"	1/4"	2-1/2"	111.44	

CYLINDRICAL RADIUS END NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT

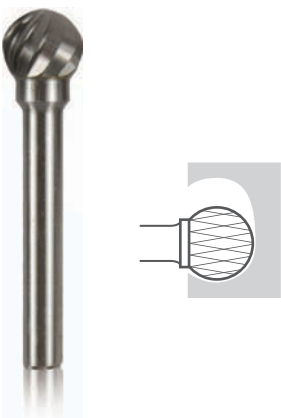


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SC1NF	1/4"	5/8"	1/4"	2"	46.21	
SC3NF	3/8"	3/4"	1/4"	2-1/2"	62.01	
SC5NF	1/2"	1"	1/4"	2-1/2"	90.89	
SC6NF	5/8"	1"	1/4"	2-3/4"	138.60	

BALL SHAPE NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT

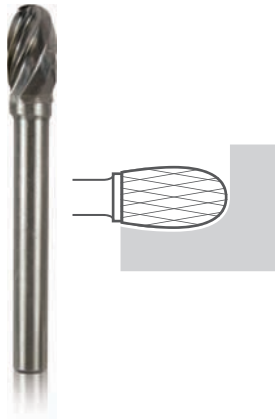


Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SD1NF	1/4"	Not Known	1/4"	2"	45.56	
SD3NF	3/8"	Not Known	1/4"	2-5/64"	49.30	
SD5NF	1/2"	Not Known	1/4"	2-13/64"	73.07	
SD6NF	5/8"	Not Known	1/4"	2-5/16"	132.09	

OVAL NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT

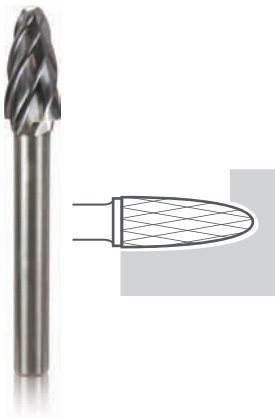


Part No.	Description					Price	
	GROUP > BURR						
	Head Dia in.	Length in.	Shank in.	Oal in.			
SE3NF	3/8"	5/8"	1/4"	2-3/8"	67.11		
SE5NF	1/2"	7/8"	1/4"	2-5/8"	82.58		
SE6NF	5/8"	1"	1/4"	2-3/4"	149.00		

TREE NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT

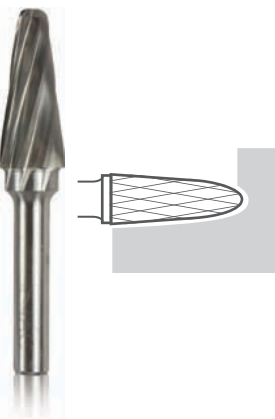


Part No.	Description					Price	
	GROUP > BURR						
	Head Dia in.	Length in.	Shank in.	Oal in.			
SF1NF	1/4"	3/8"	1/4"	2"	46.20		
SF3NF	3/8"	5/8"	1/4"	2-3/8"	65.54		
SF5NF	1/2"	7/8"	1/4"	2-5/8"	92.02		
SF6NF	5/8"	1"	1/4"	2-3/4"	132.09		

TAPER NON-FERROUS TUNGSTEN CARBIDE BURR

Non-ferrous carbide burrs are designed for use on aluminium, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. The burrs are designed with a high flute finish for easy chip flow and fast stock removal. They also provide excellent work finish with minimum loading when cutting soft, sticky metal.

NON FERROUS CUT



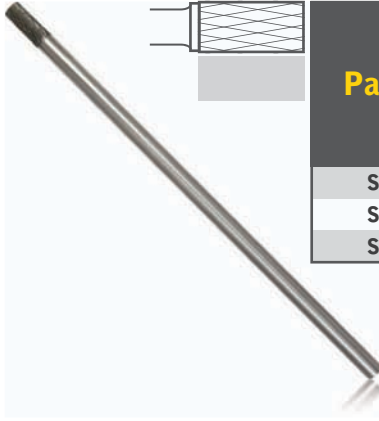
Part No.	Description					Price	
	GROUP > BURR						
	Head Dia in.	Length in.	Shank in.	Oal in.			
SL3NF	3/8"	1-1/16"	1/4"	2-15/16"	84.00		
SL4NF	1/2"	1-1/8"	1/4"	3"	115.89		
SL6NF	5/8"	1-5/16"	1/4"	3-3/16"	210.84		

CYLINDRICAL EXTENDED SHANK TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

EXTENDED SHANK



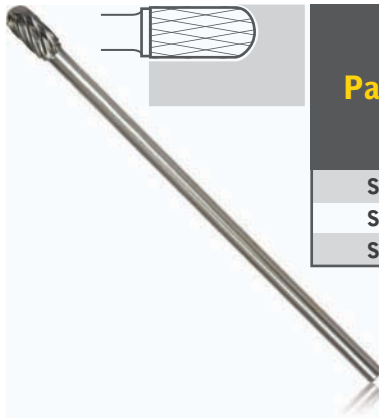
Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SA1 L6	1/4"	5/8"	1/4"	6-5/8"	46.75	
SA3 L6	3/8"	3/4"	1/4"	6-3/4"	65.85	
SA5 L6	1/2"	1"	1/4"	7"	102.89	

CYLINDRICAL RADIUS END EXTENDED SHANK TUNGSTEN-CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

EXTENDED SHANK



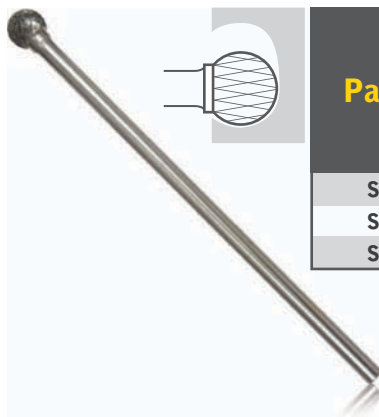
Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SC1 L6	1/4"	5/8"	1/4"	6-5/8"	54.45	
SC3 L6	3/8"	3/4"	1/4"	6-3/4"	73.35	
SC5 L6	1/2"	1"	1/4"	7"	115.43	

BALL SHAPE EXTENDED SHANK TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

EXTENDED SHANK



Part No.	Description				Price	
	GROUP > BURR					
	Head Dia in.	Length in.	Shank in.	Oal in.		
SD1 L6	1/4"		1/4"	6-1/4"	50.20	
SD3 L6	3/8"		1/4"	6-3/8"	60.36	
SD5 L6	1/2"		1/4"	6-1/2"	81.31	

TREE RADIUS END EXTENDED SHANK TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

EXTENDED SHANK



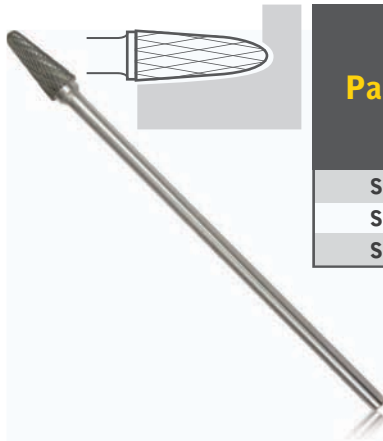
Part No.	Description				Price	
	GROUP >		BURR			
	Head Dia in.	Length in.	Shank in.	Oal in.		
SF1 L6	1/4"	3/8"	1/4"	6-5/8"	56.76	
SF3 L6	3/8"	5/8"	1/4"	6-3/4"	71.93	
SF5 L6	1/2"	7/8"	1/4"	7"	106.05	

TAPER EXTENDED SHANK TUNGSTEN CARBIDE BURR

Double cut carbide burrs offer the most efficient stock removal. The chisel tooth pattern minimises tool chatter & reduces chip to a granular shape in most materials.

DOUBLE CUT

EXTENDED SHANK



Part No.	Description				Price	
	GROUP >		BURR			
	Head Dia in.	Length in.	Shank in.	Oal in.		
SL3 L6	3/8"	1-1/16"	1/4"	6-5/8"	91.64	
SL4 L6	1/2"	1-1/8"	1/4"	7-3/16"	112.29	
SL6 L6	5/8"	1-5/16"	1/4"	7-1/4"	207.90	

TUNGSTEN CARBIDE BURR SET

Our best burrs in one set.



Part No.	Description		Set	Price
	GROUP	BURR		
SCB100	SA1, SC1, SD1, SF1, SC1 NF		5 pcs	189.00
SCB300	SA3, SC3, SD3, SF3, SC3 NF		5 pcs	241.50
SCB500	SA5, SC5, SD5, SF5, SC5 NF		5 pcs	358.05
SCB5	SA3, SC3, SC5, SF3, SF5		5 pcs	284.55
SCB030	SA1, SC1, SD1, SE1, SF1, SG1, SL1, SM2		8 pcs	335.25
SCB040	SA5, SC5, SD5, SE5, SF5, SG5, SL4, SM5		8 pcs	571.98
SCB010	SA1, SB3, SB5, SC1, SD1, SE3, SF3, SE3NF		8 pcs	420.00
SCB011	SB3, SC3, SD3, SE3, SF3, SG3, SL3, SM4		8 pcs	420.00
SCB012	SA1NF, SA3NF, SC3NF, SD3NF, SE3NF, SF3NF, SF5NF, SL4NF		8 pcs	578.55

TUNGSTEN CARBIDE MERCHANDISER

Attractive design combined with our best burrs makes this merchandiser an essential display item in any shop.



Part No.	Description		Price
	GROUP	BURR	
SCBM22	22 STYLE DISPENSER	SA1, SA3, SB5, SC1, SC3, SC5, SD1, SD3, SE3, SE5, SF1, SF3, SF5, SG3, SG5, SH2, SH5, SL3, SL4, SN1, SC3NF, SF3NF	1,228.50
SCBM50	50 STYLE MERCHANDISER / DISPENSER	SA1, SA2, SA3, SA5, SA6, SB1, SB2, SB3, SB5, SB6, SC1, SC2, SC3, SC5, SC6, SH2, SH5, SD1, SD2, SD3, SD5, SE1, SE3, SE5, SF1, SF3, SF5, SF6, SG1, SG2, SG3, SG5, SL1, SL2, SL3, SL4, SM1, SM3, SM4, SM5, SN1, SA1NF, SA3NF, SC1NF, SC3NF, SD3NF, SE3NF, SF3NF, SF5NF, SL4NF	2,877.00

SCREW HOLE PUNCHES

Suitable for sheet steel, stainless-steel sheets, non-ferrous and light metals and plastics. Ideal for switchgear manufacturers, electricians, plumbers, industry and handicrafts.

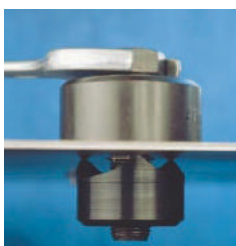


Three-Point Cutting Tip
Three-point cut gives improved contact and thus less deformation of the punched parts, preventing damage to the draw-in bolt.



Cuts material up to 4mm thick
Cutting holes in thin materials is made quick, easy and clean without burrs in a few simple operations.

Part No.	Description		Price
	GROUP	GCTR	
	Dia mm	Thread type	
201160	16.0	Metric Fine 10	35.64
201165	16.5	Metric Fine 10	36.63
201180	18.0	Metric Fine 10	36.63
201186	18.6	Metric Fine 10	37.62
201190	19.0	Metric Fine 10	37.62
201200	20.0	Metric Fine 10	38.61
201204	20.4	Metric Fine 10	38.61
201210	21.0	Metric Fine 10	38.61
201220	22.0	Metric Fine 10	40.59
201225	22.5	Metric Fine 10	40.59
201230	23.0	Metric Fine 10	40.59
201240	24.0	Metric Fine 10	41.58
201250	25.0	Metric Fine 10	41.58
201254	25.4	Metric Fine 10	44.55
201260	26.0	Metric Fine 10	44.55
201270	27.0	Metric Fine 10	44.55
201283	28.3	Metric Fine 12	44.55
201300	30.0	Metric Fine 12	47.52
201310	31.0	Metric Fine 12	47.52
201320	32.0	Metric Fine 12	49.50
201340	34.0	Metric Fine 12	50.49
201350	35.0	Metric Fine 12	55.44
201360	36.0	Metric Fine 12	63.36
201380	38.0	Metric Fine 12	74.25
201400	40.0	Metric Fine 12	74.25
201405	40.5	Metric Fine 16	74.25
201420	42.0	Metric Fine 16	79.20
201430	43.0	Metric Fine 16	79.20
201440	44.0	Metric Fine 16	79.20
201450	45.0	Metric Fine 16	79.20
201460	46.0	Metric Fine 16	89.10
201480	48.0	Metric Fine 16	89.10
201500	50.0	Metric Fine 16	92.07
201520	52.0	Metric Fine 16	113.85
201540	54.0	Metric Fine 16	118.80
201550	55.0	Metric Fine 16	120.78
201600	60.0	Metric Fine 16	173.25
201635	63.5	Metric Fine 16	198.00



M42 BI-METAL HOLESAW

Intech Bi-Metal holesaw has up to 30% better cutting ability than most M3 Bi-Metal Holesaws.

- **HSS Cobalt Cutting Edge**
Lets the holesaw cut faster and smoother than conventional holesaws. Has 30% better cutting ability than most M3 Bi-Metal holesaws.
- **4/6 Variable tooth configuration**
Resists tooth strippage
- Positive chipping and cutting angles ensure more aggressive cutting.
- Hole saw and shank in two parts, so hole saws of different diameters can be exchanged and fitted more rapidly.
- The fine toothing ensures :
 - particularly good suitability for metals
 - quieter running
 - less power needed
 - lower vibrations and heating in cutting
 - tool life is increased, particularly with metals
- The HSS Co 8 teeth are welded onto a jacket of special steel.



Mandrels

A range of Mandrels is also available. See page 58 for details.



Part No.	Description		Price	
	GROUP >			
	Dia. mm	Dia. in.		
HSBM-014	14.00	9/16	14.22	
HSBM-016	16.00	5/8	10.16	
HSBM-017	17.00	11/16	10.56	
HSBM-019	19.00	3/4	10.97	
HSBM-020	20.00	-	11.17	
HSBM-021	21.00	13/16	11.37	
HSBM-022	22.00	7/8	11.57	
HSBM-024	24.00	15/16	11.78	
HSBM-025	25.00	1	12.18	
HSBM-027	27.00	1-1/16	12.38	
HSBM-029	29.00	1-1/8	12.59	
HSBM-030	30.00	1-3/16	12.80	
HSBM-032	32.00	1-1/4	13.00	
HSBM-033	33.00	1-5/16	13.20	
HSBM-035	35.00	1-3/8	13.81	
HSBM-037	37.00	1-7/16	14.01	
HSBM-038	38.00	1-1/2	14.22	
HSBM-040	40.00	1-9/16	14.62	
HSBM-041	41.00	1-5/8	14.82	
HSBM-043	43.00	1-11/16	15.43	
HSBM-044	44.00	1-3/4	16.04	
HSBM-045	45.00	-	16.25	

M42 BI-METAL HOLESAW



Part No.	Description		Price	
	GROUP > HSBM			
	Dia. mm	Dia. in.		
HSBM-046	46.00	1-13/16	16.25	-
HSBM-048	48.00	1-7/8	16.66	-
HSBM-050	50.00	-	16.66	-
HSBM-051	51.00	2	16.66	-
HSBM-052	52.00	2-1/16	18.48	-
HSBM-054	54.00	2-1/8	18.68	-
HSBM-055	55.00	-	18.88	-
HSBM-057	57.00	2-1/4	18.88	-
HSBM-059	59.00	2-5/16	19.09	-
HSBM-060	60.00	2-3/8	19.29	-
HSBM-064	64.00	2-1/2	20.31	-
HSBM-065	65.00	2-9/16	22.13	-
HSBM-067	67.00	2-5/8	22.34	-
HSBM-068	68.00	-	22.54	-
HSBM-070	70.00	2-3/4	22.54	-
HSBM-073	73.00	2-7/8	22.74	-
HSBM-075	75.00	-	23.16	-
HSBM-076	76.00	3	23.36	-
HSBM-079	79.00	3-1/8	23.97	-
HSBM-083	83.00	3-1/4	24.37	-
HSBM-086	86.00	3-3/8	25.18	-
HSBM-089	89.00	3-1/2	25.38	-
HSBM-092	92.00	3-5/8	27.82	-
HSBM-095	95.00	3-3/4	29.24	-
HSBM-098	98.00	3-7/8	30.86	-
HSBM-100	100.00	-	31.68	-
HSBM-102	102.00	4	32.09	-
HSBM-105	105.00	4-1/8	34.11	-
HSBM-108	108.00	4-1/4	36.56	-
HSBM-111	111.00	4-3/8	38.24	-
HSBM-114	114.00	4-1/2	39.19	-
HSBM-121	121.00	4-3/4	44.68	-
HSBM-127	127.00	5	46.71	-
HSBM-140	140.00	5-1/2	51.17	-
HSBM-146	146.00	5-3/4	56.46	-
HSBM-152	152.00	6	60.92	-



CARBIDE TIP HOLESAW

The Intech multi-purpose holesaw can cut a hole up to 5x faster in wood, particle-board, pressed wood products, ceramic materials like wall tiles, plastic and soft-stone material.

Heavy abrasion resistant tungsten carbide teeth
Cut materials that quickly dull normal holesaws. Ideal for cutting timber and all types of composite board including MDF.

Heavy Duty Construction

Large gullets for easy slug removal

Carbide Tipped Drill Bit

Part No.	Description		Price	
	GROUP	HSBM		
	Dia. mm	Dia. in.		
HSTC-020	20.00	-	20.27	
HSTC-022	22.00	7/8	20.42	
HSTC-025	25.00	1	20.50	
HSTC-029	29.00	1-1/8	23.74	
HSTC-030	30.00	1-3/16	21.58	
HSTC-032	32.00	1-1/4	21.66	
HSTC-035	35.00	1-3/8	23.59	
HSTC-038	38.00	1-1/2	23.67	
HSTC-040	40.00	1-9/16	25.91	
HSTC-044	44.00	1-3/4	29.01	
HSTC-051	51.00	2	29.63	
HSTC-054	54.00	2-1/8	35.20	
HSTC-057	57.00	2-1/4	35.35	
HSTC-060	60.00	2-3/8	35.35	
HSTC-063	63.00	-	38.68	
HSTC-064	64.00	2-1/2	38.68	
HSTC-070	70.00	2-3/4	38.84	
HSTC-076	76.00	3	42.84	
HSTC-080	80.00	-	42.93	
HSTC-092	92.00	3-5/8	50.60	

HOLESAW KITS

Holesaw kits come in tough ABS cases with moulded handgrips and clips for secure closing.



Carbide Tip Holesaw Kit



Bi-Metal Holesaw Kit

Part No.	Description			Price
	GROUP	HSBM		
	Set	Contents		
HSBM-SHA	Handyman's Set - 7pcs	7/8" (22mm), 1" (25mm), 1-1/8" (29mm), 1-1/4" (32mm), 1-1/2" (38mm), 1pc Arbor, 1pc Adaptor		94.50
HSBM-SEM	Electrician's Metric set - 9pcs	16mm, 20mm, 25mm, 32mm, 40mm, 51mm 2pc Arbor, 1pc Adaptor		105.00
HSBM-SPL	Plumber's Set - 9pcs	3/4" (19mm), 7/8" (22mm), 1-1/8" (29mm), 1-1/2" (38mm), 1-3/4" (44mm), 2-1/4" (57mm), 2pc Arbor, 1pc Adaptor		104.60
HSBM-SES	Electrician's Set - 9pcs	7/8" (22mm), 1-1/8" (29mm), 1-3/8" (35mm), 1-3/4" (44mm), 2" (51mm), 2-1/2" (64mm), 2pc Arbor, 1pc Adaptor		108.60
HSBM-SJM	Journeyman Set - 13pcs	3/4" (19mm), 7/8" (22mm), 1-1/8" (29mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2pc Arbor, 1pc Drills, 1pc Adaptor		156.40
HSBM-SLS	Locksmith's Set - 9pcs	7/8" (22mm), 1" (25mm), 1-1/4" (32mm), 1-1/2" (38mm), 1-3/4" (44mm), 2-1/8" (54mm), 2pc Arbor, 1pc Adaptor		104.60
CARBIDE TIP				
HSTC-SEL	Electrician's Set - 12pcs	20mm, 22mm, 25mm, 32mm, 40mm, 51mm, 70mm, 92mm, 2pc Arbor, 2pc Adaptor		180.00
HSTC-SPL	Plumber's Set - 12pcs	20mm, 22mm, 25mm, 29mm, 38mm, 44mm, 51mm, 57mm, 2pc Arbor, 2pc Adaptor		165.00

HOLESAW MANDRELS

Intech mandrels are for use with our Bi-Metal and Carbide Tipped Holesaws.



Part No.	Description				
	GROUP				
	HSBM				
	Holesaw mm	Shank in.	Chuck in.	Description	Price
HSBM-A14	14 - 30mm	1/4" round	1/4"	Economical	11.55
HSBM-A18	14 - 30mm	7/16" hex	1/2"	Fits 1/2" drills	17.60
HSBM-A19	14 - 30mm	11/32" hex	3/8" - 1/2"	Fits 3/8" - 1/2"	17.60
HSBM-A20	32 - 51mm	7/16" hex	1/2"	Fits 1/2" drills	20.90
HSBM-A46	32 - 152mm	11/32" hex	3/8" - 1/2"	Screw in pins (quick change)	30.54
HSBM-A47	32 - 152mm	SDS Plus	3/8" - 1/2"	Fits SDS plus hammer drills	66.00
HSBM-A73	32 - 152mm	5/8" hex	3/4"	Screw in pins (quick change)	30.54
HSBM-AQ12	16 - 30mm	11/32" hex	3/8" - 1/2"	Quick change adaptor compatible	9.90
HSBM-AQ58	32 - 100mm	11/32" hex	3/8" - 1/2"	Quick change adaptor compatible	9.90
HSBM-PDT095	32 - 100mm		95mm	Pilot drill - carbide tipped	19.18

COMBI BITS

Made from hardened High Speed Steel for longer life and designed to tap up to 10 gauge metal. Back taper beyond tap to prevent thread damage from over drilling. High quality hex shank ensures a strong connection to the chuck. Drill, tap & countersink all in one.

ALL IN 1 DRILLTAP & COUNTERSINK



Part No.	Description			Price
	GROUP	GCTR		
Part No.		Core Dia mm	Max RPM	Price
TC10-M03	M3 x 0.5	2.5	1600	17.20
TC10-M04	M4 x 0.7	3.3	1200	17.20
TC10-M05	M5 x 0.8	4.2	950	18.44
TC10-M06	M6 x 1.0	5.0	800	19.80
TC10-M08	M8 x 1.25	6.8	600	25.02
TC10-M10	M10 x 1.5	8.5	450	29.04
TC10-MK	M3 - M10 set : above sizes + quick release adaptor			120.00

SCREW EXTRACTOR SET

Used for removing broken screws and bolts. Simply drill a pilot hole in the broken fixing and screw in the left hand threaded extractor for easy removal of broken screws and bolts.

The Set includes:

- M5-6 - Size 1 Screw Extractor & 2.0mm Drill
- M6-8 - Size 2 Screw Extractor & 3.0mm Drill
- M8-11 - Size 3 Screw Extractor & 4.0mm Drill
- M11-14 - Size 4 Screw Extractor & 5.5mm Drill
- M14-19 - Size 5 Screw Extractor & 7.5mm Drill



Matching sizes of Cobalt Left Hand Stub Drills are included in the set: see Left Hand Drill : page 32



Part No.	Description		Price
	GROUP	GCTR	
104-SE10		10pc Screw Extractor Set with Left Hand Drill	60.00

SCREW EXTRACTORS

Left hand threaded screw extractors for extracting broken screws and bolts. Correct pilot drill size is stamped on each screw extractor. Eliminates the need for redrilling and retapping for a larger screw.



Part No.	Description					Price
	GROUP	GCTR			Pilot	
	Size No.	For Bolt		mm		
	mm	inches	mm	inches		
CTDSE01	1	4 - 4.5	5/32 - 3/16	2.0	5/64	5.91
CTDSE02	2	5.5 - 6.5	7/32 - 1/4	3.0	7/64	6.32
CTDSE03	3	8	5/16	4.0	5/32	7.77
CTDSE04	4	10 - 12	3/8 - 1/2	5.5	7/32	8.35
CTDSE05	5	14 - 20	9/16 - 3/4	7.5	19/64	9.67
CTDSE06	6	19 - 25	3/4 - 1	10.7	27/64	12.20
CTDSE0S	set: 1 - 5	4 - 20	5/32 - 3/4	2 - 10.7	5/64 - 27/64	41.37

INTECH[®]

THREADING TOOLS

INTECH[®]

THREADING TOOLS

THREADING TOOLS



HSS TAPS

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap. Made to ISO529 standards, Intech taps are ready when you are.



METRIC COARSE				GROUP	TAPH	METRIC COARSE			
DIA mm	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
		Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.
1.6	0.35	TA10-016t	57.11	TA10-016i	57.11	TA10-016b	57.11	TA10-016s	171.34
2.0	0.4	TA10-020t	24.62	TA10-020i	24.62	TA10-020b	24.62	TA10-020s	73.85
2.2	0.45	TA10-022t	20.73	TA10-022i	20.73	TA10-022b	20.73	TA10-022s	62.18
2.6	0.45	TA10-026t	31.28	TA10-026i	31.28	TA10-026b	31.28	TA10-026s	93.84
3.0	0.5	TA10-030t	15.70	TA10-030i	15.70	TA10-030b	15.70	TA10-030s	47.09
3.5	0.6	TA10-035t	16.25	TA10-035i	16.25	TA10-035b	16.25	TA10-035s	48.75
4.0	0.7	TA10-040t	13.61	TA10-040i	13.61	TA10-040b	13.61	TA10-040s	40.82
4.5	0.75	TA10-045t	17.55	TA10-045i	17.55	TA10-045b	17.55	TA10-045s	52.66
5.0	0.8	TA10-050t	15.17	TA10-050i	15.17	TA10-050b	15.17	TA10-050s	45.50
6.0	1.0	TA10-060t	15.70	TA10-060i	15.70	TA10-060b	15.70	TA10-060s	47.09
7.0	1.0	TA10-070t	18.80	TA10-070i	18.80	TA10-070b	18.80	TA10-070s	56.41
8.0	1.25	TA10-080t	16.42	TA10-080i	16.42	TA10-080b	16.42	TA10-080s	49.27
10.0	1.5	TA10-100t	22.37	TA10-100i	22.37	TA10-100b	22.37	TA10-100s	67.12
12.0	1.75	TA10-120t	33.13	TA10-120i	33.13	TA10-120b	33.13	TA10-120s	99.38
14.0	2.0	TA10-140t	41.80	TA10-140i	41.80	TA10-140b	41.80	TA10-140s	125.40
16.0	2.0	TA10-160t	50.61	TA10-160i	50.61	TA10-160b	50.61	TA10-160s	151.84
18.0	2.5	TA10-180t	78.55	TA10-180i	78.55	TA10-180b	78.55	TA10-180s	235.65
20.0	2.5	TA10-200t	87.40	TA10-200i	87.40	TA10-200b	87.40	TA10-200s	262.20
22.0	2.5	TA10-220t	98.80	TA10-220i	98.80	TA10-220b	98.80	TA10-220s	296.40
24.0	3.0	TA10-240t	114.00	TA10-240i	114.00	TA10-240b	114.00	TA10-240s	342.00
27.0	3.0	TA10-270t	172.97	TA10-270i	172.97	TA10-270b	172.97	TA10-270s	518.91
30.0	3.5	TA10-300t	193.05	TA10-300i	193.05	TA10-300b	193.05	TA10-300s	579.15
33.0	3.5	TA10-330t	253.34	TA10-330i	253.34	TA10-330b	253.34	TA10-330s	760.02
36.0	4.0	TA10-360t	293.50	TA10-360i	293.50	TA10-360b	293.50	TA10-360s	880.50
39.0	4.0	TA10-390t	351.02	TA10-390i	351.02	TA10-390b	351.02	TA10-390s	1053.05
42.0	4.5	TA10-420t	401.14	TA10-420i	401.14	TA10-420b	401.14	TA10-420s	1203.43
45.0	4.5	TA10-450t	519.12	TA10-450i	519.12	TA10-450b	519.12	TA10-450s	1557.35
48.0	5.0	TA10-480t	554.05	TA10-480i	554.05	TA10-480b	554.05	TA10-480s	1662.16
52.0	5.0	TA10-520t	681.97	TA10-520i	681.97	TA10-520b	681.97	TA10-520s	2045.92
56.0	5.5	TA10-560t	1112.02	TA10-560i	1112.02	TA10-560b	1112.02	TA10-560s	3336.05

METRIC FINE				GROUP	TAPH	METRIC FINE			
DIA mm	Dimensions in mm	Taper	Intermediate	Bottoming	3pc SET				
Pitch	Part No.	Price	Part No.	Price	Part No.	Price			
3	0.6	TA11-03060t	31.29	TA11-03060i	31.29	TA11-03060b	31.29	TA11-03060s	93.87
4	0.75	TA11-04075t	31.28	TA11-04075i	31.28	TA11-04075b	31.28	TA11-04075s	93.84
6	0.5	TA11-06050t	40.79	TA11-06050i	40.79	TA11-06050b	40.79	TA11-06050s	122.36
6	1.25	TA11-06125t	37.05	TA11-06125i	37.05	TA11-06125b	37.05	TA11-06125s	111.16
7	0.5	TA11-07050t	58.45	TA11-07050i	58.45	TA11-07050b	58.45	TA11-07050s	175.34
8	0.5	TA11-08050t	73.22	TA11-08050i	73.22	TA11-08050b	73.22	TA11-08050s	219.65
8	1	TA11-080t	30.45	TA11-080i	30.45	TA11-080b	30.45	TA11-080s	91.34
8	1.5	TA11-08150t	39.45	TA11-08150i	39.45	TA11-08150b	39.45	TA11-08150s	118.36
10	0.5	TA11-10050t	59.55	TA11-10050i	59.55	TA11-10050b	59.55	TA11-10050s	178.66
10	1	TA11-100t	41.87	TA11-100i	41.87	TA11-100b	41.87	TA11-100s	125.61
10	1.25	TA11-101t	41.80	TA11-101i	41.80	TA11-101b	41.80	TA11-101s	125.40
11	1.25	TA11-11125t	101.70	TA11-11125i	101.70	TA11-11125b	101.70	TA11-11125s	305.11
12	0.75	TA11-12075t	73.35	TA11-12075i	73.35	TA11-12075b	73.35	TA11-12075s	220.06



HSS TAPS

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METRIC FINE		GROUP TAPH				METRIC FINE			
DIA mm	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
12	1	TA11-12100t	59.73	TA11-12100i	59.73	TA11-12100b	59.73	TA11-12100s	179.19
12	1.25	TA11-120t	48.08	TA11-120i	48.08	TA11-120b	48.08	TA11-120s	144.25
12	1.5	TA11-121t	48.08	TA11-121i	48.08	TA11-121b	48.08	TA11-121s	144.25
14	1	TA11-14100t	71.84	TA11-14100i	71.84	TA11-14100b	71.84	TA11-14100s	215.53
14	1.25	TA11-140t	70.95	TA11-140i	70.95	TA11-140b	70.95	TA11-140s	212.85
14	1.5	TA11-141t	70.95	TA11-141i	70.95	TA11-141b	70.95	TA11-141s	212.85
15	1	TA11-15100t	98.75	TA11-15100i	98.75	TA11-15100b	98.75	TA11-15100s	296.26
15	1.25	TA11-15125t	98.75	TA11-15125i	98.75	TA11-15125b	98.75	TA11-15125s	296.26
15	1.5	TA11-15150t	98.75	TA11-15150i	98.75	TA11-15150b	98.75	TA11-15150s	296.26
16	1	TA11-16100t	71.84	TA11-16100i	71.84	TA11-16100b	71.84	TA11-16100s	215.53
16	1.25	TA11-16125t	71.84	TA11-16125i	71.84	TA11-16125b	71.84	TA11-16125s	215.53
16	1.5	TA11-160t	70.95	TA11-160i	70.95	TA11-160b	70.95	TA11-160s	212.85
18	1.5	TA11-180t	91.26	TA11-180i	91.26	TA11-180b	91.26	TA11-180s	273.77
20	1	TA11-20100t	137.76	TA11-20100i	137.76	TA11-20100b	137.76	TA11-20100s	413.28
20	1.5	TA11-200t	114.13	TA11-200i	114.13	TA11-200b	114.13	TA11-200s	342.38
20	2	TA11-20200t	109.12	TA11-20200i	109.12	TA11-20200b	109.12	TA11-20200s	327.37
22	1	TA11-22100t	197.08	TA11-22100i	197.08	TA11-22100b	197.08	TA11-22100s	591.23
22	1.5	TA11-220t	136.75	TA11-220i	136.75	TA11-220b	136.75	TA11-220s	410.26
24	1	TA11-24100t	180.11	TA11-24100i	180.11	TA11-24100b	180.11	TA11-24100s	540.34
24	1.5	TA11-24150t	121.89	TA11-24150i	121.89	TA11-24150b	121.89	TA11-24150s	365.68
24	2	TA11-240t	167.32	TA11-240i	167.32	TA11-240b	167.32	TA11-240s	501.97
25	1	TA11-25100t	214.53	TA11-25100i	214.53	TA11-25100b	214.53	TA11-25100s	643.60
25	1.5	TA11-25150t	121.89	TA11-25150i	121.89	TA11-25150b	121.89	TA11-25150s	365.68
25	2	TA11-25200t	214.53	TA11-25200i	214.53	TA11-25200b	214.53	TA11-25200s	643.60
27	1.5	TA11-27150t	228.14	TA11-27150i	228.14	TA11-27150b	228.14	TA11-27150s	684.43
27	2	TA11-27200t	153.35	TA11-27200i	153.35	TA11-27200b	153.35	TA11-27200s	460.05
28	1.5	TA11-28150t	247.48	TA11-28150i	247.48	TA11-28150b	247.48	TA11-28150s	742.44
30	1.5	TA11-30150t	218.38	TA11-30150i	218.38	TA11-30150b	218.38	TA11-30150s	655.15
30	2	TA11-30200t	172.74	TA11-30200i	172.74	TA11-30200b	172.74	TA11-30200s	518.23
30	3	TA11-30300t	253.92	TA11-30300i	253.92	TA11-30300b	253.92	TA11-30300s	761.75
32	1.5	TA11-32150t	172.74	TA11-32150i	172.74	TA11-32150b	172.74	TA11-32150s	518.23
33	1.5	TA11-33150t	292.48	TA11-33150i	292.48	TA11-33150b	292.48	TA11-33150s	877.44
33	2	TA11-33200t	275.57	TA11-33200i	275.57	TA11-33200b	275.57	TA11-33200s	826.70
33	3	TA11-33300t	294.19	TA11-33300i	294.19	TA11-33300b	294.19	TA11-33300s	882.56
36	1.5	TA11-36150t	363.69	TA11-36150i	363.69	TA11-36150b	363.69	TA11-36150s	1091.06
36	2	TA11-36200t	409.48	TA11-36200i	409.48	TA11-36200b	409.48	TA11-36200s	1228.45
36	3	TA11-36300t	409.48	TA11-36300i	409.48	TA11-36300b	409.48	TA11-36300s	1228.45

HSS TAPS

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap. Made to ISO529 standards, Intech taps are ready when you are.



METRIC FINE		GROUP >		TAPH		METRIC FINE			
DIA mm	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
SPARK PLUG									
10	1	TA11-100t	41.87	TA11-100i	41.87	TA11-100b	41.87	TA11-100s	125.61
12	1.25	TA11-120t	48.08	TA11-120i	48.08	TA11-120b	48.08	TA11-120s	144.25
14	1.25	TA11-140t	70.95	TA11-140i	70.95	TA11-140b	70.95	TA11-140s	212.85
18	1.5	TA11-180t	91.26	TA11-180i	91.26	TA11-180b	91.26	TA11-180s	273.77
CONDUIT									
16	1.5	TA11-160t	70.95	TA11-160i	70.95	TA11-160b	70.95	TA11-160s	212.85
20	1.5	TA11-200t	114.13	TA11-200i	114.13	TA11-200b	114.13	TA11-200s	342.38

HSS TAPS

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BSW		GROUP TAPH				BSW			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	40	TA12-018t	25.41	TA12-018i	25.41	TA12-018b	25.41	TA12-018s	50.82
5/32	32	TA12-532t	25.41	TA12-532i	25.41	TA12-532b	25.41	TA12-532s	50.82
3/16	24	TA12-316t	16.03	TA12-316i	16.03	TA12-316b	16.03	TA12-316s	32.06
1/4	20	TA12-014t	16.24	TA12-014i	16.24	TA12-014b	16.24	TA12-014s	32.48
5/16	18	TA12-516t	17.02	TA12-516i	17.02	TA12-516b	17.02	TA12-516s	34.05
3/8	16	TA12-038t	23.30	TA12-038i	23.30	TA12-038b	23.30	TA12-038s	46.59
7/16	14	TA12-716t	30.98	TA12-716i	30.98	TA12-716b	30.98	TA12-716s	61.95
1/2	12	TA12-012t	34.71	TA12-012i	34.71	TA12-012b	34.71	TA12-012s	69.42
9/16	12	TA12-916t	50.35	TA12-916i	50.35	TA12-916b	50.35	TA12-916s	100.69
5/8	11	TA12-058t	52.98	TA12-058i	52.98	TA12-058b	52.98	TA12-058s	105.96
3/4	10	TA12-034t	68.91	TA12-034i	68.91	TA12-034b	68.91	TA12-034s	137.81
7/8	9	TA12-078t	103.35	TA12-078i	103.35	TA12-078b	103.35	TA12-078s	206.70
1	8	TA12-001t	124.60	TA12-001i	124.60	TA12-001b	124.60	TA12-001s	249.20

BSF		GROUP TAPH				BSF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
3/16	32	TA13-316t	17.52	TA13-316i	17.52	TA13-316b	17.52	TA13-316s	35.04
1/4	26	TA13-014t	20.12	TA13-014i	20.12	TA13-014b	20.12	TA13-014s	40.24
5/16	22	TA13-516t	21.81	TA13-516i	21.81	TA13-516b	21.81	TA13-516s	43.61
3/8	20	TA13-038t	30.57	TA13-038i	30.57	TA13-038b	30.57	TA13-038s	61.15
7/16	18	TA13-716t	36.54	TA13-716i	36.54	TA13-716b	36.54	TA13-716s	73.09
1/2	16	TA13-012t	45.09	TA13-012i	45.09	TA13-012b	45.09	TA13-012s	90.18
5/8	14	TA13-058t	58.33	TA13-058i	58.33	TA13-058b	58.33	TA13-058s	116.66
3/4	12	TA13-034t	90.09	TA13-034i	90.09	TA13-034b	90.09	TA13-034s	180.18
7/8	11	TA13-078t	121.82	TA13-078i	121.82	TA13-078b	121.82	TA13-078s	243.64
1	10	TA13-01t	159.21	TA13-01i	159.21	TA13-01b	159.21	TA13-01s	318.41

HSS TAPS

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UNF		GROUP TAPH				UNF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	TPI	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
4G	48	TA15-04gt	26.63	TA15-04gi	26.63	TA15-04gb	26.63	TA15-04gs	79.90
5G	44	TA15-05gt	26.63	TA15-05gi	26.63	TA15-05gb	26.63	TA15-05gs	79.90
6G	40	TA15-06gt	26.63	TA15-06gi	26.63	TA15-06gb	26.63	TA15-06gs	79.90
8G	36	TA15-08gt	18.28	TA15-08gi	18.28	TA15-08gb	18.28	TA15-08gs	54.85
10G	32	TA15-10gt	15.94	TA15-10gi	15.94	TA15-10gb	15.94	TA15-10gs	47.82
12G	28	TA15-12gt	19.79	TA15-12gi	19.79	TA15-12gb	19.79	TA15-12gs	59.36
1/4	28	TA15-014t	15.17	TA15-014i	15.17	TA15-014b	15.17	TA15-014s	45.50
5/16	24	TA15-516t	16.03	TA15-516i	16.03	TA15-516b	16.03	TA15-516s	48.09
3/8	24	TA15-038t	22.00	TA15-038i	22.00	TA15-038b	22.00	TA15-038s	66.01
7/16	20	TA15-716t	29.70	TA15-716i	29.70	TA15-716b	29.70	TA15-716s	89.09
1/2	20	TA15-012t	33.46	TA15-012i	33.46	TA15-012b	33.46	TA15-012s	100.38
9/16	18	TA15-916t	48.08	TA15-916i	48.08	TA15-916b	48.08	TA15-916s	144.25
5/8	18	TA15-058t	49.35	TA15-058i	49.35	TA15-058b	49.35	TA15-058s	148.06
3/4	16	TA15-034t	65.82	TA15-034i	65.82	TA15-034b	65.82	TA15-034s	197.47
7/8	14	TA15-078t	98.80	TA15-078i	98.80	TA15-078b	98.80	TA15-078s	296.40
1	12	TA15-01t	119.02	TA15-01i	119.02	TA15-01b	119.02	TA15-01s	357.07

UNC		GROUP TAPH				UNC			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	TPI	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
5G	40	TA14-05gt	26.63	TA14-05i	26.63	TA14-05b	26.63	TA14-05s	79.90
6G	32	TA14-06gt	17.43	TA14-06i	17.43	TA14-06b	17.43	TA14-06s	52.29
8G	32	TA14-08gt	17.75	TA14-08i	17.75	TA14-08b	17.75	TA14-08s	53.26
10G	24	TA14-10gt	16.24	TA14-10i	16.24	TA14-10b	16.24	TA14-10s	48.72
12G	24	TA14-12gt	19.55	TA14-12i	19.55	TA14-12b	19.55	TA14-12s	58.66
1/4	20	TA14-014t	15.51	TA14-014i	15.51	TA14-014b	15.51	TA14-014s	46.53
5/16	18	TA14-516t	16.24	TA14-516i	16.24	TA14-516b	16.24	TA14-516s	48.72
3/8	16	TA14-038t	22.37	TA14-038i	22.37	TA14-038b	22.37	TA14-038s	67.12
7/16	14	TA14-716t	29.70	TA14-716i	29.70	TA14-716b	29.70	TA14-716s	89.09
1/2	13	TA14-012t	33.31	TA14-012i	33.31	TA14-012b	33.31	TA14-012s	99.93
9/16	12	TA14-916t	48.08	TA14-916i	48.08	TA14-916b	48.08	TA14-916s	144.25
5/8	11	TA14-058t	50.64	TA14-058i	50.64	TA14-058b	50.64	TA14-058s	151.91
3/4	10	TA14-034t	65.93	TA14-034i	65.93	TA14-034b	65.93	TA14-034s	197.78
7/8	9	TA14-078t	98.80	TA14-078i	98.80	TA14-078b	98.80	TA14-078s	296.40
1	8	TA14-01t	119.23	TA14-01i	119.23	TA14-01b	119.23	TA14-01s	357.69

HSS TAPS

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UNEF		GROUP TAPH				UNEF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/4	32	TA19-014t	47.14	TA19-014i	47.14	TA19-014b	47.14	-	-
5/16	32	TA19-516t	51.83	TA19-516i	51.83	TA19-516b	51.83	-	-
3/8	32	TA19-038t	51.83	TA19-038i	51.83	TA19-038b	51.83	-	-
1/2	28	TA19-012t	59.73	TA19-012i	59.73	TA19-012b	59.73	-	-
5/8	24	TA19-058t	71.84	TA19-058i	71.84	TA19-058b	71.84	-	-
3/4	20	TA19-034t	84.77	TA19-034i	84.77	TA19-034b	84.77	-	-
1	20	TA19-01t	121.89	TA19-01i	121.89	TA19-01b	121.89	-	-

HSS TAPS

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BSPF		GROUP > TAPH				BSPF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
		TPI	Part No.	Price	Part No.	Price	Part No.	Price	Part No.
1/8	28	TA16-018t	26.91	TA16-018i	26.91	TA16-018b	26.91	TA16-018s	80.73
1/4	19	TA16-014t	38.03	TA16-014i	38.03	TA16-014b	38.03	TA16-014s	114.10
3/8	19	TA16-038t	55.80	TA16-038i	55.80	TA16-038b	55.80	TA16-038s	167.39
1/2	14	TA16-012t	78.55	TA16-012i	78.55	TA16-012b	78.55	TA16-012s	235.65
5/8	14	TA16-058t	103.82	TA16-058i	103.82	TA16-058b	103.82	TA16-058s	311.47
3/4	14	TA16-034t	111.55	TA16-034i	111.55	TA16-034b	111.55	TA16-034s	334.65
7/8	14	TA16-078t	159.62	TA16-078i	159.62	TA16-078b	159.62	TA16-078s	478.86
1	11	TA16-01t	185.03	TA16-01i	185.03	TA16-01b	185.03	TA16-01s	555.09
1-1/4	11	TA16-114t	325.65	TA16-114i	325.65	TA16-114b	325.65	TA16-114s	976.96
1-1/2	11	TA16-112t	365.85	TA16-112i	365.85	TA16-112b	365.85	TA16-112s	1097.56
1-3/4	11	TA16-134t	589.98	TA16-134i	589.98	TA16-134b	589.98	TA16-134s	1769.94
2	11	TA16-200t	632.28	TA16-200i	632.28	TA16-200b	632.28	TA16-200s	1896.83
2-1/4	11	TA16-214t	990.86	TA16-214i	990.86	TA16-214b	990.86	TA16-214s	2972.58
2-1/2	11	TA16-212t	P.O.A.	TA16-212i	P.O.A.	TA16-212b	P.O.A.	TA16-212s	P.O.A.
3	11	TA16-300t	P.O.A.	TA16-300i	P.O.A.	TA16-300b	P.O.A.	TA16-300s	P.O.A.

BSPT		GROUP > TAPH				BSPT			
1/8	28	-	-	-	-	TA17-018b	60.82	-	-
1/4	19	-	-	-	-	TA17-014b	65.82	-	-
3/8	19	-	-	-	-	TA17-038b	101.40	-	-
1/2	14	-	-	-	-	TA17-012b	114.13	-	-
3/4	14	-	-	-	-	TA17-034b	141.89	-	-
1	11	-	-	-	-	TA17-01b	202.81	-	-
1-1/4	11	-	-	-	-	TA17-114b	323.55	-	-
1-1/2	11	-	-	-	-	TA17-112b	427.12	-	-
2	11	-	-	-	-	TA17-200b	697.81	-	-

NPT		GROUP > TAPH				NPT			
1/8	27	-	-	-	-	TA18-018b	47.66	-	-
1/4	18	-	-	-	-	TA18-014b	67.11	-	-
3/8	18	-	-	-	-	TA18-038b	101.40	-	-
1/2	14	-	-	-	-	TA18-012b	116.48	-	-
3/4	14	-	-	-	-	TA18-034b	144.48	-	-
1	11.5	-	-	-	-	TA18-01b	209.00	-	-
1-1/4	11.5	-	-	-	-	TA18-114b	338.32	-	-
1-1/2	11.5	-	-	-	-	TA18-112b	529.14	-	-
2	11.5	-	-	-	-	TA18-200b	842.66	-	-



HSS TAPS

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BA		GROUP TAPH				BA			
Size	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
10	0.35	TA22-100t	57.11	TA22-100i	57.11	TA22-100b	57.11	TA22-100s	171.33
9	0.39	TA22-090t	54.24	TA22-090i	54.24	TA22-090b	54.24	TA22-090s	162.72
8	0.43	TA22-080t	29.68	TA22-080i	29.68	TA22-080b	29.68	TA22-080s	89.04
7	0.48	TA22-070t	30.86	TA22-070i	30.86	TA22-070b	30.86	TA22-070s	92.58
6	0.53	TA22-060t	20.26	TA22-060i	20.26	TA22-060b	20.26	TA22-060s	60.78
5	0.59	TA22-050t	18.69	TA22-050i	18.69	TA22-050b	18.69	TA22-050s	56.07
4	0.66	TA22-040t	17.98	TA22-040i	17.98	TA22-040b	17.98	TA22-040s	53.94
3	0.73	TA22-030t	20.04	TA22-030i	20.04	TA22-030b	20.04	TA22-030s	60.12
2	0.81	TA22-020t	17.98	TA22-020i	17.98	TA22-020b	17.98	TA22-020s	53.94
1	0.90	TA22-010t	20.26	TA22-010i	20.26	TA22-010b	20.26	TA22-010s	60.78
0	1.00	TA22-000t	19.33	TA22-000i	19.33	TA22-000b	19.33	TA22-000s	57.99



Please refer to page 190 - 192
for an explanation of the technical terminology and abbreviations.

HSS SPIRAL POINT GUN TAP

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap made to ISO529 standards, the Intech taps are ready when you are.

Spiral point taps are ideal for machine tapping through holes or blind holes with adequate bottom clearance. They are called "Gun Taps" because they shoot the chips ahead of the tap. This also reduces loading and clogging in the flutes.



Metric
HSS Taps
ISO529

Ground
tolerance
ISO 2

METRIC THREAD		GROUP	TAPH	METRIC	
DIA mm	Dimensions in mm		Part No.	Price	
	Pitch				
3.00	0.50		TA10-030ps	20.52	
4.00	0.70		TA10-040ps	17.02	
5.00	0.80		TA10-050ps	19.02	
6.00	1.00		TA10-060ps	19.55	
7.00	1.00		TA10-070ps	24.47	
8.00	1.25		TA10-080ps	21.07	
10.00	1.50		TA10-100ps	27.95	
12.00	1.75		TA10-120ps	46.33	
14.00	2.00		TA10-140ps	60.06	
16.00	2.00		TA10-160ps	74.47	
18.00	2.50		TA10-180ps	101.40	
20.00	2.50		TA10-200ps	129.27	
22.00	2.50		TA10-220ps	138.75	
24.00	3.00		TA10-240ps	168.34	

METRIC FINE		GROUP	TAPH	METRIC FINE	
DIA mm	Pitch		Part No.	Price	
5.00	0.50		TA11-050ps	36.93	
6.00	0.75		TA11-060ps	44.87	
8.00	1.00		TA11-080ps	21.07	
10.00	1.00		TA11-100ps	62.64	
10.00	1.25		TA11-101ps	27.95	
12.00	1.50		TA11-120ps	46.32	

BSW		GROUP	TAPH	BSW	
DIA mm	Pitch		Part No.	Price	
1/8	40.00		TA12-018ps	30.76	
5/32	32 _{WHIT}		TA12-532ps	29.70	
3/16	24.00		TA12-316ps	24.36	
1/4	20.00		TA12-014ps	20.74	
5/16	18.00		TA12-516ps	22.22	
3/8	16.00		TA12-038ps	30.25	
7/16	14.00		TA12-716ps	43.72	
1/2	12.00		TA12-012ps	48.51	
9/16	12.00		TA12-916ps	98.51	
5/8	11.00		TA12-058ps	78.19	
3/4	10.00		TA12-034ps	109.39	
7/8	9.00		TA12-078ps	138.73	
1	8.00		TA12-001ps	168.31	



HSS SPIRAL POINT GUN TAP

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap made to ISO529 standards, the Intech taps are ready when you are.

Spiral point taps are ideal for machine tapping through holes or blind holes with adequate bottom clearance. They are called "Gun Taps" because they shoot the chips ahead of the tap. This also reduces loading and clogging in the flutes.



UNC		GROUP >	TAPH	UNC
DIA in.	Dimensions in mm	Part No.	Price	
	Pitch			
6G	32.00	TA14-06gps	20.12	
8G	32.00	TA14-08gps	22.37	
10G	24.00	TA14-10gps	20.27	
12G	24.00	TA14-12gps	29.37	
1/4	20.00	TA14-014ps	19.57	
5/16	18.00	TA14-516ps	21.07	
3/8	16.00	TA14-038ps	25.65	
7/16	14.00	TA14-716ps	41.79	
1/2	13.00	TA14-012ps	46.32	
9/16	12.00	TA14-916ps	91.83	
5/8	11.00	TA14-058ps	73.50	
3/4	10.00	TA14-034ps	103.80	
7/8	9.00	TA14-078ps	138.73	
1	8.00	TA14-01tps	168.31	

UNF		GROUP >	TAPH	UNF
DIA in.	Dimensions in mm	Part No.	Price	
	Pitch			
5G	44.00	TA15-05gps	31.21	
6G	40.00	TA15-06gps	31.21	
8G	36.00	TA15-08gps	31.21	
10G	32.00	TA15-10gps	20.52	
12G	28.00	TA15-12gps	29.91	
1/4	28.00	TA15-014ps	19.79	
5/16	24.00	TA15-516ps	21.34	
3/8	24.00	TA15-038ps	28.83	
7/16	20.00	TA15-716ps	41.79	
1/2	20.00	TA15-012ps	46.32	
9/16	18.00	TA15-916ps	80.45	
5/8	18.00	TA15-058ps	73.50	
3/4	16.00	TA15-034ps	103.80	
7/8	14.00	TA15-078ps	138.73	
1	12.00	TA15-01tps	168.31	



Please refer to page 190 - 192

for an explanation of the technical terminology and abbreviations.

HSS SPIRAL FLUTE GUN TAP

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap made to ISO529 standards, the Intech taps are ready when you are.

Regular Spiral Fluted taps have spiral flutes to lift and discharge chips from deep blind holes in steels and tough grades of aluminium.



MADE IN GERMANY



Metric
HSS Taps
ISO529

Ground
tolerance
ISO 2

METRIC THREAD		GROUP	TAPH	METRIC	
DIA mm	Dimensions in mm		Part No.	Price	
	Pitch				
3.00	0.50		TA10-030fs	27.10	
4.00	0.70		TA10-040fs	21.07	
5.00	0.80		TA10-050fs	23.53	
6.00	1.00		TA10-060fs	24.36	
7.00	1.00		TA10-070fs	25.29	
8.00	1.25		TA10-080fs	26.41	
10.00	1.50		TA10-100fs	37.51	
12.00	1.75		TA10-120fs	58.75	
14.00	2.00		TA10-140fs	75.23	
16.00	2.00		TA10-160fs	93.82	
18.00	2.50		TA10-180fs	126.68	
20.00	2.50		TA10-200fs	159.60	
22.00	2.50		TA10-220fs	173.89	
24.00	3.00		TA10-240fs	201.64	

METRIC FINE		GROUP	TAPH	METRIC FINE	
DIA mm	Pitch		Part No.	Price	
5.00	0.50		TA11-050fs	47.63	
6.00	0.75		TA11-060fs	47.63	
8.00	1.00		TA11-080fs	39.51	
10.00	1.00		TA11-100fs	52.37	
10.00	1.25		TA11-101fs	56.63	
12.00	1.50		TA11-120fs	88.87	

BSW		GROUP	TAPH	BSW	
DIA mm	Pitch		Part No.	Price	
1/8	40.00		TA12-018fs	29.90	
5/32	32 ^{WHIT}		TA12-532fs	30.98	
3/16	24.00		TA12-316fs	30.98	
1/4	20.00		TA12-014fs	25.41	
5/16	18.00		TA12-516fs	27.80	
3/8	16.00		TA12-038fs	38.13	
7/16	14.00		TA12-716fs	54.07	
1/2	12.00		TA12-012fs	61.99	
9/16	12.00		TA12-916fs	71.93	
5/8	11.00		TA12-058fs	98.05	
3/4	10.00		TA12-034fs	122.07	
7/8	9.00		TA12-078fs	121.91	
1	8.00		TA12-001fs	201.64	

HSS SPIRAL FLUTE GUN TAP

Intech High Speed Steel Taps are the perfect tool for creating threads. With a high wear resistance and an overall tougher tap made to ISO529 standards, the Intech taps are ready when you are.

Regular Spiral Fluted taps have spiral flutes to lift and discharge chips from deep blind holes in steels and tough grades of aluminium.



Metric
HSS Taps
ISO529

Ground
tolerance
ISO 2

UNC		GROUP	TAPH	UNC	
DIA in.	Dimensions in mm		Part No.	Price	
	Pitch				
6G	32.00		TA14-06gfs	24.80	
8G	32.00		TA14-08gfs	24.80	
10G	24.00		TA14-10gfs	24.80	
12G	24.00		TA14-12gfs	33.88	
1/4	20.00		TA14-014fs	24.36	
5/16	18.00		TA14-516fs	26.63	
3/8	16.00		TA14-038fs	36.53	
7/16	14.00		TA14-716fs	51.72	
1/2	13.00		TA14-012fs	59.30	
9/16	12.00		TA14-916fs	118.05	
5/8	11.00		TA14-058fs	93.82	
3/4	10.00		TA14-034fs	126.68	
7/8	9.00		TA14-078fs	173.89	
1	8.00		TA14-01tfs	201.64	

UNF		GROUP	TAPH	UNF	
DIA in.	Dimensions in mm		Part No.	Price	
	Pitch				
5G	44.00		TA15-05gfs	38.17	
6G	40.00		TA15-06gfs	35.26	
8G	36.00		TA15-08gfs	35.26	
10G	32.00		TA15-10gfs	25.14	
12G	28.00		TA15-12gfs	36.19	
1/4	28.00		TA15-014fs	24.36	
5/16	24.00		TA15-516fs	26.63	
3/8	24.00		TA15-038fs	36.53	
7/16	20.00		TA15-716fs	51.72	
1/2	20.00		TA15-012fs	59.30	
9/16	18.00		TA15-916fs	98.41	
5/8	18.00		TA15-058fs	93.82	
3/4	16.00		TA15-034fs	126.68	
7/8	14.00		TA15-078fs	242.80	
1	12.00		TA15-01tfs	305.25	



Please refer to page 190 - 192

for an explanation of the technical terminology and abbreviations.

ADJUSTABLE BAR TAP WRENCH

- Ideal for hand tapping operations
- Provide positive grip & sensitivity when tapping a blind hole
- Straight handle provides greater leverage, particularly useful with larger diameter taps
- Steel jaws are accurately hardened and tempered
- Made from fabricated steel



FABRICATED STEEL

Part No.	Description	Price
	GROUP >> ENGG	
TDBT2-6	2 mm – 6 mm	20.25
TDBT4-12	4 mm – 12 mm	31.50
TDBT6-20	6 mm – 20 mm	47.70
TDBT10-31	10 mm – 30 mm	79.20
TDBT12-38	12 mm – 39 mm	198.00

T-TYPE TAP WRENCH

- Designed to give reach and leverage required for accurate tapping
- Jaws conform to tool being held making it rigid and less prone to becoming loose
- Sliding handle enables work in tight spaces
- Self centering hardened steel jaws
- Knurled chuck sleeve
- Holds all hand turned tools



Part No.	Description	Price
	GROUP >> ENGG	
TDTT2-4	2mm to 4mm	14.85
TDTT4-6	4mm to 6mm	16.20
TDTT6-12	6mm to 12mm	18.00

T-TYPE EXTRA LONG TAP WRENCH

- Designed to give reach and leverage required for accurate tapping
- Jaws conform to tool being held making it rigid and less prone to becoming loose
- Sliding handle enables work in tight spaces
- Self centering hardened steel jaws
- Knurled chuck sleeve
- Holds all hand turned tools
- Overall length is 9"/225mm



Part No.	Description	Price
	GROUP >> ENGG	
TDTTEL4-6	4mm to 6mm	20.00
TDTTEL6-12	6mm to 12mm	24.00

RATCHET TAP WRENCH

- Designed to give reach and leverage required for accurate tapping
- Jaws conform to tool being held making it rigid and less prone to becoming loose
- Sliding handle enables work in tight spaces
- Ratchet can be set for right or left hand operations or direct engagement in neutral position
- Self centering hardened steel jaws
- Knurled chuck sleeve
- Holds all hand turned tools



Part No.	Description	Price
	GROUP > ENGG	
TDRT2-4	2mm to 4mm	27.00
TDRT4-6	4mm to 6mm	28.80
TDRT6-12	6mm to 12mm	40.50

DIE HOLDER

- Used for holding button dies
- Heavy duty screws that hold die firmly in place
- Rugged construction
- Powder coated in black
- Diamond knurled handle ends for comfortable non-slip grip
- Made from fabricated steel



FABRICATED STEEL

Part No.	Description	Price
	GROUP > ENGG	
TDDH1	1"	14.40
TDDH1.5	1-1/2"	29.70
TDDH13/16	13/16"	18.00
TDDH2	2"	43.20
TDDH2.5	2-1/2"	108.00
TDDH3	3"	153.00

CHROME ALLOY TAP & DIE SET



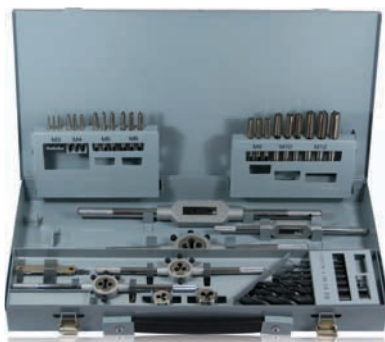
110pc Set

Part No.	Description	GROUP	ENGG	Price
		>		
TDTDS110	110pc Set •35pc dies : 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4"-20, 1/4"-24, 1/4"-28, 1/4"-40, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20, 9/16"-12, 9/16"-18, 5/8"-11, 5/8"-18, 3/4"-10, 3/4"-16, 6x1.0, 8x1.25, 10x1.5, 10x1.0, 11x1.5, 12x1.25, 12x1.75, 14x1.25, 18x1.5, 1/8NPT-27, 1/4NPT-18 •35pc taps: sizes as above •35pc plug taps (bottoming): sizes as above •2pc tap wrench •T type wrench 1/4" capacity, die handle 1"OD, die handle 1-1/2" OD			340.00
TDTDS45M	45pc Set - Metric Sizes •20pc dies : 6x1.0, 6x0.75, 8x1.25, 8x1.0, 10x1.5, 10x1.25, 12x1.75, 12x1.5, 14x2.0, 14x1.5, 16x2.0, 16x1.5, 18x2.5, 18x1.5, 20x2.5, 20x1.5, 22x2.5, 22x1.5, 24x3.0, 24x1.5 •20pc Taps: sizes as above - 1pc tap wrench - 1pc Die handle 2"OD •1pc adaptor •T type tap wrench 1/4" capacity & screwdriver			260.00
TDTDS45i	45pc Set - Imperial Sizes •10pcs UNF dies: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1" •10pcs UNC dies: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1" •10pcs UNF taps: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1" •10pcs UNC taps: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1" •1pc tap wrench •1pc die handle: 2"OD •1pc adaptor •T type wrench 1/4" capacity & screwdriver			260.00

HSS TAP & DRILL SET



29pc Set



46pc Set

HIGH SPEED STEEL

Part No.	Description	GROUP	ENGG	Price
		>		
TDTDR29	29pc Set •M3 - Tap set with 2.5mm tapping drill •M4 - Tap set with 3.3mm tapping drill •M5 - Tap set with 4.2 mm tapping drill •M6 - Tap set with 5.0mm tapping drill •M8 - Tap set with 6.8mm tapping drill •M10 - Tap set with 8.5mm tapping drill •M12 - Tap set with 10.2mm tapping drill •1pc - Bar type wrench			220.00
TDTDR44	46pc Set •M3 - 1pc 2.5mm tapping drill & 1pc button die with 1pc die holder •M4 - 1pc 3.3mm tapping drill & 1pc button die with 1pc die holder •M5 - 1pc 4.2mm tapping drill & 1pc button die with 1pc die holder •M6 - 1pc 5.0mm tapping drill & 1pc button die with 1pc die holder •M8 - 1pc 6.8mm tapping drill & 1pc button die with 1pc die holder •M10 - 1pc 8.5mm tapping drill & 1pc button die with 1pc die holder •M12 - 1pc 10.2mm tapping drill & 1pc button die with 1pc die holder •1pc M1 - M10 adjustable bar tap wrench •1pc M4 - M12 adjustable bar tap wrench •1pc pitch gauge •1pc Flat-head screw driver			450.00

BUTTON DIES & DIE NUTS

Button Die is used for cutting a new male/external thread on studs.
 Die Nut is designed for cleaning and resizing existing damaged threads.
 Carbon Alloy Steel threading tools are not suitable for precision, safety or critical thread. General purpose use only.

Tungsten Chrome Alloy Steel



Metric Coarse		GROUP > DIE				METRIC COARSE			
DIA mm	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
2	0.40	3001-02	23.74	-	-	-	-	-	-
3	0.50	3001-03	23.74	-	-	-	-	-	-
4	0.70	3001-04	20.56	3002-04	35.87	-	-	3005-04	24.38
5	0.80	3001-05	18.72	3002-05	35.87	-	-	3005-05	24.38
6	1.00	3001-06	18.72	3002-06	35.87	-	-	3005-06	24.38
7	1.00	3001-07	18.72	3002-07	35.87	-	-	3005-07	24.88
8	1.25	3001-08	18.72	3002-08	34.40	-	-	3005-08	24.38
9	1.25	3001-09	18.72	3002-09	34.40	-	-	3005-09	24.88
10	1.50	3001-10	18.72	3002-10	34.40	3003-10	44.87	3005-10	35.61
11	1.50	3001-11	21.03	3002-11	34.98	-	-	-	-
12	1.75	3001-12	21.11	3002-12	34.40	3003-12	44.87	3005-12	35.61
14	2.00	-	-	3002-14	34.98	3003-14	44.87	3005-14	45.76
16	2.00	-	-	3002-16	34.98	3003-16	47.32	3005-16	45.76
18	2.50	-	-	-	-	3003-18	49.75	3005-18	57.75
20	2.50	-	-	-	-	3003-20	49.75	3005-20	56.53
22	2.50	-	-	-	-	3003-22	53.75	3005-22	85.99
24	3.00	-	-	-	-	3003-24	65.11	3005-24	105.05
27	3.00	-	-	-	-	-	-	3005-27	145.90
30	3.50	-	-	-	-	-	-	3005-30	179.68
33	3.50	-	-	-	-	-	-	3005-33	216.53
36	4.00	-	-	-	-	-	-	3005-36	256.48

Metric Fine		GROUP > DIE				METRIC FINE			
8	1.00	3011-08	18.72	3012-08	34.40	-	-	3015-08	24.38
10	1.25	3011-10	18.72	3012-10	34.40	-	-	3015-10	35.61
12	1.25	3011-12	21.03	3012-12	34.98	3013-12	44.87	3015-12	35.61
12	1.50	3011-129	21.03	3012-129	34.40	3013-129	44.87	3015-129	35.61
14	1.25	-	-	3012-14	34.98	3013-14	45.45	3015-14	45.76
14	1.50	-	-	3012-149	34.40	3013-149	44.87	3015-149	45.76
16	1.50	-	-	-	-	3013-16	47.32	3015-16	45.76
18	1.50	-	-	-	-	3013-18	49.75	3015-18	56.53
20	1.50	-	-	-	-	3013-20	49.75	3015-20	56.53
22	1.50	-	-	-	-	3013-22	53.75	3015-22	56.53
24	2.00	-	-	-	-	3013-24	65.11	3015-24	56.53
25	1.50	-	-	-	-	3013-25	65.86	3015-25	68.18
SPARK PLUG									
10	1	3011-109	18.72	3012-109	34.40	-	-	3015-11	35.61
12	1.25	3011-12	21.03	3012-12	34.98	3013-12	44.87	3015-12	35.61
14	1.25	-	-	3012-14	34.98	3013-14	45.45	-	-
18	1.5	-	-	-	-	3013-18	49.75	3015-18	56.53
CONDUIT									
16	1.5					3013-16	47.32	3015-16	45.76
20	1.5					3013-20	49.75	3015-20	56.53
25	1.5					3013-25	65.86	3015-25	68.18

BUTTON DIES & DIE NUTS

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Tungsten Chrome Alloy Steel



BSW		GROUP		DIE				BSW	
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	40.00	3021-1/8	19.55	-	-	-	-	3025-1/8	15.26
5/32	32 WHIT	3021-5/32	19.82	-	-	-	-	3025-5/32	25.58
3/16	24.00	3021-3/16	17.64	3022-3/16	32.26	-	-	3025-3/16	15.26
1/4	20.00	3021-1/4	17.64	3022-1/4	32.26	-	-	3025-1/4	17.36
5/16	18.00	3021-5/16	17.64	3022-5/16	32.26	-	-	3025-5/16	19.35
3/8	16.00	3021-3/8	17.64	3022-3/8	32.26	-	-	3025-3/8	19.35
7/16	14.00	3021-7/16	19.82	3022-7/16	32.26	-	-	3025-7/16	20.87
1/2	12.00	3021-1/2	21.31	3022-1/2	32.06	3023-1/2	42.09	3025-1/2	21.66
9/16	12.00	-	-	3022-9/16	35.96	3023-9/16	44.55	3025-9/16	25.80
5/8	11.00	-	-	3022-5/8	35.30	3023-5/8	44.71	3025-5/8	27.67
3/4	10.00	-	-	-	-	3023-3/4	46.37	3025-3/4	34.70
7/8	9.00	-	-	-	-	3023-7/8	50.38	3025-7/8	46.67
1	8.00	-	-	-	-	3023-1	60.18	3025-1	53.75
1-1/8	7.00	-	-	-	-	-	-	3025-1.1/8	90.31
1-1/4	7.00	-	-	-	-	-	-	3025-1.1/4	97.35
1-1/2	6.00	-	-	-	-	-	-	3025-1.1/2	191.38
1-3/4	5.00	-	-	-	-	-	-	3025-1.3/4	269.07
2	4.50	-	-	-	-	-	-	3025-2	339.22

BSF		GROUP		DIE				BSF	
DIA in.	PITCH mm	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
13/16	32.00	3031-3/16	24.88	-	-	-	-	3035-3/16	21.66
1/4	26.00	3031-1/4	24.38	3032-1/4	51.62	-	-	3035-1/4	21.66
5/16	22.00	3031-5/16	24.88	3032-5/16	46.07	-	-	3035-5/16	21.66
3/8	20.00	3031-3/8	24.88	3032-3/8	46.07	-	-	3035-3/8	21.66
7/16	18.00	3031-7/16	27.96	3032-7/16	46.07	-	-	3035-7/16	29.81
1/2	16.00	-	-	3032-1/2	46.07	3033-1/2	68.17	3035-1/2	23.65
9/16	16.00	-	-	-	-	3033-9/16	70.64	3035-9/16	36.24
5/8	14.00	-	-	-	-	3033-5/8	70.64	3035-5/8	39.00
3/4	12.00	-	-	-	-	3033-3/4	74.68	3035-3/4	47.93
7/8	11.00	-	-	-	-	3033-7/8	81.10	3035-7/8	64.83
1	10.00	-	-	-	-	3033-1	96.14	3035-1	78.03

BUTTON DIES & DIE NUTS

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Tungsten Chrome Alloy Steel



UNC		GROUP > DIE				UNC			
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
5G	40	3041-5G	23.79	-	-	-	-	-	-
6G	32	3041-6G	23.79	-	-	-	-	-	-
8G	32	3041-8G	23.79	-	-	-	-	-	-
10G	24	3041-10G	23.79	-	-	-	-	-	-
12G	24	3041-12G	23.79	-	-	-	-	-	-
1/4	20	3041-1/4	19.02	3042-1/4	34.40	-	-	3045-1/4	20.87
5/16	18	3041-5/16	19.02	3042-5/16	34.40	-	-	3045-5/16	20.87
3/8	16	3041-3/8	19.02	3042-3/8	30.57	-	-	3045-3/8	20.87
7/16	14	3041-7/16	21.41	3042-7/16	34.40	-	-	3045-7/16	22.74
1/2	13	3041-1/2	22.89	3042-1/2	34.40	3043-1/2	44.71	3045-1/2	23.65
9/16	12	-	-	3042-9/16	37.62	3043-9/16	48.06	3045-9/16	28.61
5/8	11	-	-	3042-5/8	38.42	3043-5/8	47.61	3045-5/8	30.10
3/4	10	-	-	-	-	3043-3/4	49.75	3045-3/4	37.48
7/8	9	-	-	-	-	3043-7/8	53.75	3045-7/8	49.75
1	8	-	-	-	-	3043-1	64.83	3045-1	58.97
1-1/8	7	-	-	-	-	-	-	3045-1.1/8	63.61
1-1/4	7	-	-	-	-	-	-	3045-1.1/4	72.90
1-3/8	6	-	-	-	-	-	-	3045-1.3/8	82.20
1-1/2	6	-	-	-	-	-	-	3045-1.1/2	87.24
1-3/4	5	-	-	-	-	-	-	3045-1.3/4	115.73
2	4.5	-	-	-	-	-	-	3045-2	142.67

UNF		GROUP > DIE				UNF			
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
5G	44	3051-5G	23.79	-	-	-	-	-	-
6G	40	3051-6G	23.79	-	-	-	-	-	-
8G	36	3051-8G	3.00	-	-	-	-	-	-
10G	32	3051-10G	23.79	-	-	-	-	-	-
12G	28	3051-12G	25.98	-	-	-	-	-	-
3/16	32 UNS	3051-3/16	27.47	3052-1/4	34.40	-	-	3055-3/16	27.42
1/4	28	3051-1/4	18.72	3052-5/16	34.40	-	-	3055-1/4	19.02
5/16	24	3051-5/16	18.72	3052-3/8	34.40	-	-	3055-5/16	20.87
3/8	24	3051-3/8	18.72	3052-7/16	34.40	-	-	3055-3/8	20.87
7/16	20	3051-7/16	21.11	3052-1/2	34.40	-	-	3055-7/16	22.89
1/2	20	3051-1/2	22.41	3052-9/16	37.77	3053-1/2	44.87	3055-1/2	23.65
9/16	18	-	-	3052-5/8	37.77	3053-9/16	47.32	3055-9/16	27.96
5/8	18	-	-	-	-	3053-5/8	47.32	3055-5/8	29.91
3/4	16	-	-	-	-	3053-3/4	49.75	3055-3/4	37.48
7/8	14	-	-	-	-	3053-7/8	53.75	3055-7/8	49.75
1	12	-	-	-	-	3053-1	65.11	3055-1	58.97
1	14 UNS	-	-	-	-	3053-19	96.44	3055-19	76.48
1-1/8	12	-	-	-	-	-	-	3055-1.1/8	98.90
1-1/4	12	-	-	-	-	-	-	3055-1.1/4	119.17
1-3/8	12	-	-	-	-	-	-	3055-1.3/8	159.12
1-1/2	12	-	-	-	-	-	-	3055-1.1/2	199.06

BUTTON DIES & DIE NUTS

Button Die is used for cutting a new male/external thread on studs.
 Die Nut is designed for cleaning and resizing existing damaged threads.
 Carbon Alloy Steel threading tools are not suitable for precision, safety or critical thread. General purpose use only.

Tungsten Chrome Alloy Steel



BSPF		GROUP > DIE				BSPF			
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	28.00	-	-	-	-	3063-1/8	44.87	3065-1/8	20.87
1/4	19.00	-	-	-	-	3063-1/4	44.87	3065-1/4	26.72
3/8	19.00	-	-	-	-	3063-3/8	60.51	3065-3/8	31.32
1/2	14.00	-	-	-	-	3063-1/2	60.51	3065-1/2	44.24
5/8	14.00	-	-	-	-	3063-5/8	61.72	3065-5/8	67.24
3/4	14.00	-	-	-	-	3063-3/4	60.51	3065-3/4	61.12
7/8	14.00	-	-	-	-	3063-7/8	84.56	-	-
1	11.00	-	-	-	-	3063-1	84.56	3065-1	106.85

BSPT		GROUP > DIE				BSPT			
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	28	-	-	-	-	3073-1/8	91.83	3075-1/8	30.56
1/4	19	-	-	-	-	3073-1/4	91.83	3075-1/4	45.44
3/8	19	-	-	-	-	3073-3/8	97.94	3075-3/8	49.57
1/2	14	-	-	-	-	3073-1/2	121.96	3075-1/2	84.67
3/4	14	-	-	-	-	3073-3/4	121.96	3075-3/4	128.03
1	11	-	-	-	-	3073-1	63.44	3075-1	171.41

NPT		GROUP > DIE				NPT			
DIA in.	PITCH mm	Button Die Outside Dia 1"		Button Die Outside Dia 1-1/2"		Button Die Outside Dia 2"		Die Nut	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	27.00	-	-	-	-	3083-1/8	91.83	-	-
1/4	18.00	-	-	-	-	3083-1/4	91.83	-	-
3/8	18.00	-	-	-	-	3083-3/8	97.94	-	-
1/2	14.00	-	-	-	-	3083-1/2	121.96	-	-
3/4	14.00	-	-	-	-	3083-3/4	121.96	-	-

CHROME ALLOY TAPS

Ideal for routine maintenance, repair work and for rethreading where high accuracy and tolerance thread is not critical. General purpose use only. Made from Tungsten Chrome Alloy (TCA).



METRIC COARSE		GROUP TAPC				METRIC COARSE			
DIA mm	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
2	0.40	TB10-020t	6.52	TB10-020i	6.52	TB10-020b	6.52	TB10-020s	19.58
3	0.50	TB10-030t	10.10	TB10-030i	10.10	TB10-030b	10.10	TB10-030s	30.31
4	0.70	TB10-040t	10.10	TB10-040i	10.10	TB10-040b	10.10	TB10-040s	30.31
5	0.80	TB10-050t	6.92	TB10-050i	6.92	TB10-050b	6.92	TB10-050s	20.75
6	1.00	TB10-060t	6.92	TB10-060i	6.92	TB10-060b	6.92	TB10-060s	20.75
7	1.00	TB10-070t	7.15	TB10-070i	7.15	TB10-070b	7.15	TB10-070s	21.45
8	1.25	TB10-080t	7.16	TB10-080i	7.16	TB10-080b	7.16	TB10-080s	21.48
10	1.50	TB10-100t	9.21	TB10-100i	9.21	TB10-100b	9.21	TB10-100s	27.61
11	1.50	TB10-110t	11.58	TB10-110i	11.58	TB10-110b	11.58	TB10-110s	34.73
12	1.75	TB10-120t	11.89	TB10-120i	11.89	TB10-120b	11.89	TB10-120s	35.64
14	2.00	TB10-140t	17.04	TB10-140i	17.04	TB10-140b	17.04	TB10-140s	51.13
16	2.00	TB10-160t	22.26	TB10-160i	22.26	TB10-160b	22.26	TB10-160s	66.77
18	2.50	TB10-180t	26.53	TB10-180i	26.53	TB10-180b	26.53	TB10-180s	79.62
20	2.50	TB10-200t	26.13	TB10-200i	26.13	TB10-200b	26.13	TB10-200s	78.38
22	2.50	TB10-220t	34.40	TB10-220i	34.40	TB10-220b	34.40	TB10-220s	103.18
24	3.00	TB10-240t	67.64	TB10-240i	67.64	TB10-240b	67.64	TB10-240s	202.90
27	3.00	TB10-270t	89.92	TB10-270i	89.92	TB10-270b	89.92	TB10-270s	269.74
30	3.50	TB10-300t	98.53	TB10-300i	98.53	TB10-300b	98.53	TB10-300s	295.60
33	3.50	TB10-330t	138.24	TB10-330i	138.24	TB10-330b	138.24	TB10-330s	414.72
36	4.00	TB10-360t	160.21	TB10-360i	160.21	TB10-360b	160.21	TB10-360s	480.62

METRIC FINE		GROUP TAPC				METRIC FINE			
DIA mm	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
8	1	TB11-080t	7.15	TB11-080i	7.15	TB11-080b	7.15	TB11-080s	21.45
10	1	TB11-100t	12.91	TB11-100i	12.91	TB11-100b	12.91	TB11-100s	38.74
10	1.25	TB11-101t	9.21	TB11-101i	9.21	TB11-101b	9.21	TB11-101s	27.61
12	1.25	TB11-120t	19.44	TB11-120i	19.44	TB11-120b	19.44	TB11-120s	58.32
12	1.5	TB11-121t	11.89	TB11-121i	11.89	TB11-121b	11.89	TB11-121s	35.64
14	1.25	TB11-140t	23.12	TB11-140i	23.12	TB11-140b	23.12	TB11-140s	69.38
14	1.5	TB11-141t	17.04	TB11-141i	17.04	TB11-141b	17.04	TB11-141s	51.13
16	1.5	TB11-160t	22.26	TB11-160i	22.26	TB11-160b	22.26	TB11-160s	66.77
18	1.5	TB11-180t	26.53	TB11-180i	26.53	TB11-180b	26.53	TB11-180s	79.62
20	1.5	TB11-200t	26.53	TB11-200i	26.53	TB11-200b	26.53	TB11-200s	79.62
22	1.5	TB11-220t	34.09	TB11-220i	34.09	TB11-220b	34.09	TB11-220s	102.30
24	2	TB11-240t	68.80	TB11-240i	68.80	TB11-240b	68.80	TB11-240s	206.42
25	1.5	TB11-250t	75.99	TB11-250i	75.99	TB11-250b	75.99	TB11-250s	227.95
32	1.5	TB11-320t	133.52	TB11-320i	133.52	TB11-320b	133.52	TB11-320s	400.57

SPARK PLUG

10	1	TB11-100t	12.91	TB11-100i	12.91	TB11-100b	12.91	TB11-100s	38.74
12	1.25	TB11-120t	19.44	TB11-120i	19.44	TB11-120b	19.44	TB11-120s	58.32
14	1.25	TB11-140t	17.04	TB11-140i	17.04	TB11-140b	17.04	TB11-140s	51.13
18	1.5	TB11-180t	26.53	TB11-180i	26.53	TB11-180b	26.53	TB11-180s	79.62

CONDUIT

16	1.5	TB11-160t	22.26	TB11-160i	22.26	TB11-160b	22.26	TB11-160s	66.77
20	1.5	TB11-200t	26.53	TB11-200i	26.53	TB11-200b	26.53	TB11-200s	79.62
25	1.5	TB11-250t	75.99	TB11-250i	75.99	TB11-250b	75.99	TB11-250s	227.95
32	1.5	TB11-320t	133.52	TB11-320i	133.52	TB11-320b	133.52	TB11-320s	400.57

CHROME ALLOY TAPS

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UNC		GROUP > TAPC				UNC			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
5G	40	TB14-05gt	10.67	TB14-05i	10.67	TB14-05b	10.67	TB14-05s	32.02
6G	32	TB14-06gt	10.67	TB14-06i	10.67	TB14-06b	10.67	TB14-06s	32.02
8G	32	TB14-08gt	9.48	TB14-08i	9.48	TB14-08b	9.48	TB14-08s	28.45
10G	24	TB14-10gt	7.68	TB14-10i	7.68	TB14-10b	7.68	TB14-10s	23.02
12G	24	TB14-12gt	7.68	TB14-12i	7.68	TB14-12b	7.68	TB14-12s	23.02
1/4	20	TB14-014t	7.68	TB14-014i	7.68	TB14-014b	7.68	TB14-014s	23.02
5/16	18	TB14-516t	7.68	TB14-516i	7.68	TB14-516b	7.68	TB14-516s	23.02
3/8	16	TB14-038t	8.29	TB14-038i	8.29	TB14-038b	8.29	TB14-038s	24.87
7/16	14	TB14-716t	10.01	TB14-716i	10.01	TB14-716b	10.01	TB14-716s	30.02
1/2	13	TB14-012t	12.02	TB14-012i	12.02	TB14-012b	12.02	TB14-012s	36.04
9/16	12	TB14-916t	19.57	TB14-916i	19.57	TB14-916b	19.57	TB14-916s	58.73
5/8	11	TB14-058t	19.00	TB14-058i	19.00	TB14-058b	19.00	TB14-058s	56.97
3/4	10	TB14-034t	24.10	TB14-034i	24.10	TB14-034b	24.10	TB14-034s	72.31
7/8	9	TB14-078t	38.89	TB14-078i	38.89	TB14-078b	38.89	TB14-078s	116.67
1	8	TB14-01t	41.56	TB14-01i	41.56	TB14-01b	41.56	TB14-01s	124.66
1-1/8	7	TB14-118t	79.82	TB14-118i	79.82	TB14-118b	79.82	TB14-118s	239.47
1-1/4	7	TB14-114t	96.71	TB14-114i	96.71	TB14-114b	96.71	TB14-114s	290.13

UNF		GROUP > TAPC				UNF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
5G	44	TB15-05gt	10.67	TB15-05gi	10.67	TB15-05gb	10.67	TB15-05s	32.02
6G	40	TB15-06gt	10.67	TB15-06gi	10.67	TB15-06gb	10.67	TB15-06s	32.02
8G	36	TB15-08gt	9.67	TB15-08gi	9.67	TB15-08gb	9.67	TB15-08s	29.00
10G	32	TB15-10gt	7.68	TB15-10gi	7.68	TB15-10gb	7.68	TB15-10s	23.02
12G	28	TB15-12gt	7.68	TB15-12gi	7.68	TB15-12gb	7.68	TB15-12s	23.02
1/4	28	TB15-414t	7.68	TB15-414i	7.68	TB15-414b	7.68	TB15-414s	23.02
5/16	24	TB15-516t	8.60	TB15-516i	8.60	TB15-516b	8.60	TB15-516s	25.78
3/8	24	TB15-038t	8.60	TB15-038i	8.60	TB15-038b	8.60	TB15-038s	25.78
7/16	20	TB15-716t	11.09	TB15-716i	11.09	TB15-716b	11.09	TB15-716s	33.26
1/2	20	TB15-012t	12.18	TB15-012i	12.18	TB15-012b	12.18	TB15-012s	36.55
9/16	18	TB15-916t	19.15	TB15-916i	19.15	TB15-916b	19.15	TB15-916s	57.41
5/8	18	TB15-058t	18.86	TB15-058i	18.86	TB15-058b	18.86	TB15-058s	56.54
3/4	16	TB15-034t	22.11	TB15-034i	22.11	TB15-034b	22.11	TB15-034s	66.34
7/8	14	TB15-078t	38.74	TB15-078i	38.74	TB15-078b	38.74	TB15-078s	116.20
1	12	TB15-01t	40.05	TB15-01i	40.05	TB15-01b	40.05	TB15-01s	120.13
1	14UNS	TB15-109t	67.08	TB15-109i	67.08	TB15-109b	67.08	TB15-109s	201.22
1-1/8	12	TB15-118t	80.12	TB15-118i	80.12	TB15-118b	80.12	TB15-118s	240.35
1-1/4	12	TB15-114t	96.71	TB15-114i	96.71	TB15-114b	96.71	TB15-114s	290.13

CHROME ALLOY TAPS

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BSW		GROUP TAPC				BSW			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	40	TB12-018t	8.54	TB12-018i	8.54	TB12-018b	8.54	TB12-018s	25.61
5/32	32	TB12-532t	8.29	TB12-532i	8.29	TB12-532b	8.29	TB12-532s	24.87
3/16	24	TB12-316t	8.29	TB12-316i	8.29	TB12-316b	8.29	TB12-316s	17.61
1/4	20	TB12-014t	6.47	TB12-014i	6.47	TB12-014b	6.47	TB12-014s	19.44
5/16	18	TB12-516t	7.15	TB12-516i	7.15	TB12-516b	7.15	TB12-516s	21.45
3/8	16	TB12-038t	8.29	TB12-038i	8.29	TB12-038b	8.29	TB12-038s	24.87
7/16	14	TB12-716t	10.28	TB12-716i	10.28	TB12-716b	10.28	TB12-716s	30.82
1/2	12	TB12-012t	12.02	TB12-012i	12.02	TB12-012b	12.02	TB12-012s	36.04
9/16	12	TB12-916t	19.57	TB12-916i	19.57	TB12-916b	19.57	TB12-916s	58.73
5/8	11	TB12-058t	18.86	TB12-058i	18.86	TB12-058b	18.86	TB12-058s	56.54
3/4	10	TB12-034t	22.11	TB12-034i	22.11	TB12-034b	22.11	TB12-034s	66.34
7/8	9	TB12-078t	35.91	TB12-078i	35.91	TB12-078b	35.91	TB12-078s	107.69
1	8	TB12-001t	40.05	TB12-001i	40.05	TB12-001b	40.05	TB12-001s	120.13
1-1/8	7	TB12-118t	79.80	TB12-118i	79.80	TB12-118b	79.80	TB12-118s	239.40
1-1/4	7	TB12-114t	98.53	TB12-114i	98.53	TB12-114b	98.53	TB12-114s	295.60
1-3/8	6	TB12-138t	146.13	TB12-138i	146.13	TB12-138b	146.13	TB12-138s	438.40
1-1/2	6	TB12-112t	179.81	TB12-112i	179.81	TB12-112b	179.81	TB12-112s	539.46

BSF		GROUP TAPC				BSF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
3/16	32	TB13-316t	6.52	TB13-316i	6.52	TB13-316b	6.52	TB13-316s	19.58
1/4	26	TB13-014t	7.43	TB13-014i	7.43	TB13-014b	7.43	TB13-014s	22.28
5/16	22	TB13-516t	8.60	TB13-516i	8.60	TB13-516b	8.60	TB13-516s	25.78
3/8	20	TB13-038t	10.10	TB13-038i	10.10	TB13-038b	10.10	TB13-038s	30.31
7/16	18	TB13-716t	12.45	TB13-716i	12.45	TB13-716b	12.45	TB13-716s	37.35
1/2	16	TB13-012t	15.58	TB13-012i	15.58	TB13-012b	15.58	TB13-012s	46.76
5/8	14	TB13-058t	31.16	TB13-058i	31.16	TB13-058b	31.16	TB13-058s	93.47
3/4	12	TB13-034t	36.83	TB13-035i	36.83	TB13-034b	36.83	TB13-034s	110.47
7/8	11	TB13-078t	47.51	TB13-078i	47.51	TB13-078b	47.51	TB13-078s	142.53
1	10	TB13-01t	66.76	TB13-01i	66.76	TB13-01b	66.76	TB13-01s	200.30



Please refer to page 190 - 192

for an explanation of the technical terminology and abbreviations.

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BSPF		GROUP > TAPC				BSPF			
DIA in.	Dimensions in mm	Taper		Intermediate		Bottoming		3pc SET	
	Pitch	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	28	TB16-018t	10.67	TB16-018i	10.67	TB16-018b	10.67	TB16-018s	32.02
1/4	19	TB16-014t	13.39	TB16-014i	13.39	TB16-014b	13.39	TB16-014s	40.16
3/8	19	TB16-038t	19.57	TB16-038i	19.57	TB16-038b	19.57	TB16-038s	58.73
1/2	14	TB16-012t	24.32	TB16-012i	24.32	TB16-012b	24.32	TB16-012s	72.98
3/4	14	TB16-034t	42.77	TB16-034i	42.77	TB16-034b	42.77	TB16-034s	128.31
1	11	TB16-01t	76.68	TB16-01i	76.68	TB16-01b	76.68	TB16-01s	230.03
1-1/4	11	TB16-114t	169.13	TB16-114i	169.13	TB16-114b	169.13	TB16-114s	507.36
1-1/2	11	TB16-112t	208.86	TB16-112i	208.86	TB16-112b	208.86	TB16-112s	626.58
2	11	TB16-200t	255.57	TB16-200i	255.57	TB16-200b	255.57	TB16-200s	766.71

BSPT		GROUP > TAPC				BSPT			
DIA in.	Dimensions in mm	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	28	-	-	-	-	TB17-018b	26.13	-	-
1/4	19	-	-	-	-	TB17-014b	26.13	-	-
3/8	19	-	-	-	-	TB17-038b	32.63	-	-
1/2	14	-	-	-	-	TB17-012b	38.56	-	-
3/4	14	-	-	-	-	TB17-034b	54.75	-	-
1	11	-	-	-	-	TB17-01b	93.47	-	-
1-1/4	11	-	-	-	-	TB17-114b	190.80	-	-
1-1/2	11	-	-	-	-	TB17-112b	238.04	-	-
2	11	-	-	-	-	TB17-200b	297.55	-	-

NPT		GROUP > TAPC				NPT			
DIA in.	Dimensions in mm	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/8	27	-	-	-	-	TB18-018b	26.13	-	-
1/4	18	-	-	-	-	TB18-014b	30.87	-	-
3/8	18	-	-	-	-	TB18-038b	40.05	-	-
1/2	14	-	-	-	-	TB18-012b	48.95	-	-
3/4	14	-	-	-	-	TB18-034b	87.54	-	-
1	11.5	-	-	-	-	TB18-01b	137.39	-	-
1-1/4	11.5	-	-	-	-	TB18-114b	228.45	-	-
1-1/2	11.5	-	-	-	-	TB18-112b	314.48	-	-
2	11.5	-	-	-	-	TB18-200b	489.56	-	-



Please refer to page 190 - 192

for an explanation of the technical terminology and abbreviations.

THREAD REPAIR KITS

Intech inserts are manufactured from high quality chromium nickel stainless steel. These inserts provide high strength internal threads that resist the effects of temperature and corrosion. Their unique design ensures superior threads whose compound performance cannot be reproduced by any other single fastening method.



MADE IN GERMANY



Kits include the correct drill up to M12



METRIC COARSE **GROUP** > RTK METRIC COARSE

Description						
Part No.	Tap	Drill	Insert Tool	Tang Break	Inserts Qty.	Price
RTK-MC04	M 4 x 0.7	4.2 mm	No. 6	No. 6	20	60.21
RTK-MC05	M 5 x 0.8	5.2 mm	No. 8	No. 8	20	51.73
RTK-MC06	M 6 x 1.0	6.3 mm	No. 9	No. 9	20	53.02
RTK-MC08	M 8 x 1.25	8.3 mm	No. 11	No. 11	20	64.09
RTK-MC10	M 10 x 1.5	10.4 mm	No. 13	No. 13	15	81.05
RTK-MC12	M 12 x 1.75	12.4 mm	No. 15	No. 15	10	105.66
RTK-MC14	M 14 x 2.0	-	No. 16	-	10	108.98
RTK-MC16	M 16 x 2.0	-	No. 18	-	10	126.90
RTK-MC18	M 18 x 2.5	-	No. 20	-	5	171.20
RTK-MC20	M 20 x 2.5	-	No. 21	-	5	203.30
RTK-MC22	M 22 x 2.5	-	No. 22	-	5	240.75
RTK-MC24	M 24 x 3.0	-	No. 23	-	5	304.95

METRIC FINE **GROUP** > RTK METRIC FINE

RTK-MF08	M 8 x 1.0	8.3 mm	No. 11	No. 11	20	71.58
RTK-MF100	M 10 x 1.25	10.3 mm	No. 13	No. 13	15	84.80
RTK-MF101	M 10 x 1.0	10.3 mm	No. 13	No. 13	15	85.87
RTK-MF121	M 12 x 1.5	12.4 mm	No. 15	No. 15	10	107.80
RTK-MF120	M 12 x 1.25	12.3 mm	No. 15	No. 15	10	109.41
RTK-MF123	M 12 x 1.0	12.3 mm	No. 15	No. 15	10	167.40
RTK-MF141	M 14 x 1.5	-	No. 16	-	10	112.19
RTK-MF140	M 14 x 1.25	-	No. 17	-	10	112.19
RTK-MF142	M 14 x 1.0	-	No. 17	-	10	172.80
RTK-MF16	M 16 x 1.5	-	No. 18	-	10	133.32
RTK-MF180	M 18 x 2.0	-	No. 20	-	5	181.90
RTK-MF181	M 18 x 1.5	-	No. 20	-	5	181.90
RTK-MF200	M 20 x 2.0	-	No. 21	-	5	208.65
RTK-MF201	M 20 x 1.5	-	No. 21	-	5	210.60
RTK-MF220	M 22 x 2.0	-	No. 22	-	5	246.10
RTK-MF221	M 22 x 1.5	-	No. 22	-	5	246.10
RTK-MF24	M 24 x 2.0	-	No. 23	-	5	342.40

THREAD REPAIR KITS

Intech inserts are manufactured from high quality chromium nickel stainless steel. These inserts provide high strength internal threads that resist the effects of temperature and corrosion. Their unique design ensures superior threads whose compound performance cannot be reproduced by any other single fastening method.



Kits include the correct drill up to 1/2" sets



UNC		GROUP >		RTK		UNC	
		Description					
Part No.	Tap	Drill	Insert Tool	Tang Break	Inserts Qty.	Price	
RTK-UNC4G	No. 4 x 40	3.1 mm	No. 4	No. 4	20	67.23	
RTK-UNC6G	No. 6 x 32	3.8 mm	No. 5	No. 5	20	64.21	
RTK-UNC8G	No. 8 x 32	4.4 mm	No. 6	No. 6	20	64.47	
RTK-UNC10G	No. 10 x 24	5.2 mm	No. 8	No. 8	20	59.72	
RTK-UNC12G	No. 12 x 24	5.8 mm	No. 8	No. 8	20	60.75	
RTK-UNC1/4	1/4 x 20	6.7 mm	No. 9	No. 9	20	55.53	
RTK-UNC5/16	5/16 x 18	8.3 mm	No. 10	No. 10	20	60.83	
RTK-UNC3/8	3/8 x 16	9.9 mm	No. 12	No. 12	15	71.85	
RTK-UNC7/16	7/16 x 14	11.6 mm	No. 14	No. 14	10	83.78	
RTK-UNC1/2	1/2 x 13	13.0 mm	No. 15	No. 15	10	89.24	
RTK-UNC9/16	9/16 x 12	-	No. 16	-	10	110.21	
RTK-UNC5/8	5/8 x 11	-	No. 18	-	10	120.21	
RTK-UNC3/4	3/4 x 10	-	No. 20	-	5	165.85	
RTK-UNC7/8	7/8 x 9	-	No. 22	-	5	203.30	
RTK-UNC1	1 x 8	-	No. 23	-	4	242.36	

UNF		GROUP >		RTK		UNF	
		Description					
Part No.	Tap	Drill	Insert Tool	Tang Break	Inserts Qty.	Price	
RTK-UNF6G	No. 6 x 40	3.8 mm	No. 5	No. 5	20	106.33	
RTK-UNF8G	No. 8 x 36	4.4 mm	No. 6	No. 6	20	106.59	
RTK-UNF10G	No. 10 x 32	5.1 mm	No. 8	No. 8	20	58.96	
RTK-UNF1/4	1/4 x 28	6.7 mm	No. 9	No. 9	20	55.53	
RTK-UNF5/16	5/16 x 24	8.3 mm	No. 11	No. 11	20	60.83	
RTK-UNF3/8	3/8 x 24	9.8 mm	No. 13	No. 13	15	71.85	
RTK-UNF7/16	7/16 x 20	11.5 mm	No. 14	No. 14	10	85.49	
RTK-UNF1/2	1/2 x 20	13.0 mm	No. 15	No. 15	10	97.10	
RTK-UNF9/16	9/16 x 18	-	No. 16	-	10	110.21	
RTK-UNF5/8	5/8 x 18	-	No. 18	-	10	120.21	
RTK-UNF3/4	3/4 x 16	-	No. 21	-	5	165.85	
RTK-UNF7/8	7/8 x 14	-	No. 22	-	5	203.30	
RTK-UNF1x12	1 x 12	-	No. 23	-	4	242.36	

THREAD REPAIR KITS

Intech inserts are manufactured from high quality chromium nickel stainless steel. These inserts provide high strength internal threads that resist the effects of temperature and corrosion. Their unique design ensures superior threads whose compound performance cannot be reproduced by any other single fastening method.



Kits include the correct drill up to 1/2" sets

BSW		GROUP >> RTK			BSW	
Description						
Part No.	Tap	Drill	Insert Tool	Tang Break	Inserts Qty.	Price
RTK-BSW1/4	1/4" x 20	6.7 mm	No. 9	No. 9	20	59.29
RTK-BSW5/16	5/16" x 18	8.3 mm	No. 10	No. 11	20	63.66
RTK-BSW3/8	3/8" x 16	9.9 mm	No. 12	No. 12	15	74.68
RTK-BSW7/16	7/16" x 14	11.5 mm	No. 14	No. 14	10	88.45
RTK-BSW1/2	1/2" x 12	13.0 mm	No. 15	No. 15	10	99.14
RTK-BSW9/16	9/16" x 12	-	No. 16	-	10	113.40
RTK-BSW5/8	5/8" x 11	-	No. 18	-	10	126.36
RTK-BSW3/4	3/4" x 10	-	No. 20	-	5	167.40
RTK-BSW7/8	7/8" x 9	-	No. 22	-	5	204.12
RTK-BSW1X8	1" x 8	-	No. 23	-	4	259.20



THREAD INSERTS - 1.5 D

Quality thread inserts for use with our thread repair kits. Manufactured from quality Stainless Steel.



METRIC		GROUP >	RTK	METRIC	
Description					
Part No.	Nominal Dia.	Pack Qty.		Price	
RTC15-MC04	M 4 x 0.7	10		0.67	
RTC15-MC05	M 5 x 0.8	10		0.61	
RTC15-MC06	M 6 x 1.0	10		0.68	
RTC15-MC08	M 8 x 1.25	10		0.75	
RTC15-MF08	M 8 x 1.0	10		0.75	
RTC15-MC10	M 10 x 1.5	10		1.05	
RTC15-MF100	M 10 x 1.25	10		1.05	
RTC15-MF101	M 10 x 1.0	10		1.05	
RTC15-MC12	M 12 x 1.75	10		1.46	
RTC15-MF121	M 12 x 1.5	10		1.46	
RTC15-MF120	M 12 x 1.25	10		1.46	
RTC15-MF123	M 12 x 1.0	10		2.04	
RTC15-MC14	M 14 x 2.0	5		2.31	
RTC15-MF141	M 14 x 1.5	5		2.31	
RTC15-MF140	M 14 x 1.25	5		2.31	
RTC15-MF143	M 14 x 1.0	5		2.31	
RTC15-MC16	M 16 x 2.0	5		2.85	
RTC15-MF160	M 16 x 1.5	5		2.85	
RTC15-MC18	M 18 x 2.5	5		3.89	
RTC15-MF180	M 18 x 2.0	5		3.89	
RTC15-MF181	M 18 x 1.5	5		3.89	
RTC15-MC20	M 20 x 2.5	5		5.35	
RTC15-MF200	M 20 x 2.0	5		5.35	
RTC15-MF201	M 20 x 1.5	5		5.35	
RTC15-MC22	M 22 x 2.5	5		6.68	
RTC15-MF220	M 22 x 2.0	5		6.68	
RTC15-MF221	M 22 x 1.5	5		6.68	
RTC15-MC24	M 24 x 3.0	3		8.26	
RTC15-MF240	M 24 x 2.0	3		8.26	
RTC15-MF241	M 24 x 1.5	3		8.26	

UNC		GROUP >	RTK	UNC	
RTC15-UNC04	No. 4 x 40	10		0.66	
RTC15-UNC06	No. 6 x 32	10		0.66	
RTC15-UNC08	No. 8 x 32	10		0.66	
RTC15-UNC10	No. 10 x 24	10		0.66	
RTC15-UNC12	No. 12 x 24	10		0.74	
RTC15-UNC1/4	1/4" x 20	10		0.67	
RTC15-UNC5/16	5/16" x 18	10		0.75	
RTC15-UNC3/8	3/8" x 16	10		1.05	
RTC15-UNC7/16	7/16" x 14	10		1.24	
RTC15-UNC1/2	1/2" x 13	10		1.43	
RTC15-UNC9/16	9/16" x 12	5		1.95	
RTC15-UNC5/8	5/8" x 11	5		2.79	
RTC15-UNC3/4	3/4" x 10	5		3.88	
RTC15-UNC7/8	7/8" x 9	3		6.56	
RTC15-UNC1	1" x 8	3		8.26	

THREAD INSERTS - 1.5 D

Quality thread inserts for use with our thread repair kits. Manufactured from quality Stainless Steel.



UNF		GROUP	RTK	UNF	
Description					
Part No.	Nominal Dia.	Pack Qty.	Price		
RTC15-UNF06	No. 6 x 40	10	0.66		
RTC15-UNF08	No. 8 x 36	10	0.66		
RTC15-UNF10	No. 10 x 32	10	0.66		
RTC15-UNF1/4	1/4" x 28	10	0.67		
RTC15-UNF5/16	5/16" x 24	10	0.75		
RTC15-UNF3/8	3/8" x 24	10	1.05		
RTC15-UNF7/16	7/16" x 20	10	1.24		
RTC15-UNF1/2	1/2" x 20	10	1.43		
RTC15-UNF9/16	9/16" x 18	5	1.94		
RTC15-UNF5/8	5/8" x 18	5	2.79		
RTC15-UNF3/4	3/4" x 16	5	3.88		
RTC15-UNF7/8	7/8" x 14	3	6.56		
RTC15-UNF1	1" x 12	3	8.26		

BSW		GROUP	RTK	BSW	
Part No.	Nominal Dia.	Pack Qty.	Price		
RTC15-BSW1/4	1/4 x 20	10	0.74		
RTC15-BSW5/16	5/16 x 18	10	0.84		
RTC15-BSW3/8	3/8 x 16	10	1.16		
RTC15-BSW7/16	7/16 x 14	10	1.38		
RTC15-BSW1/2	1/2 x 12	10	1.59		
RTC15-BSW9/16	9/16 x 12	5	2.16		
RTC15-BSW5/8	5/8 x 11	5	3.24		
RTC15-BSW3/4	3/4 x 10	5	4.32		
RTC15-BSW7/8	7/8 x 9	3	7.29		
RTC15-BSW1	1 x 8	3	9.18		



Please refer to page 95

for tables showing you which drill bit to choose for any particular wire thread insert.

INSERT TOOL

Thread insert tools are available individually for use with specific tap sizes.



INSERT TOOL		GROUP	RTK				INSERT TOOL	
		For use with						
Part No.	No.	Metric	UNC	UNF	BSW	BSF	Price	
RTIT-05	5	M 3.5 x 0.6	No. 6	No. 6	-	-	17.28	
RTIT-06	6	M 4 x 0.70	No. 8	No. 8	-	-	11.88	
RTIT-08	8	M 5 x 0.80	No. 12	No. 10	-	3/16"	11.88	
RTIT-09	9	M 6 x 1.00	1/4"	1/4"	1/4"	1/4"	11.88	
RTIT-10	10	M 7 x 1.00	5/16"	-	5/16"	-	11.88	
RTIT-11	11	M 8 x 1.00 M 8 x 1.25	-	5/16"	-	5/16"	11.88	
RTIT-12	12	M 9 x 1.00 M 9 x 1.25	3/8"	-	3/8"	-	11.88	
RTIT-13	13	M 10 x 1.00 M 10 x 1.25 M 10 x 1.50	-	3/8"	-	3/8"	11.88	
RTIT-14	14	M 11 x 1.25 M 11 x 1.50	7/16"	7/16"	7/16"	7/16"	12.96	
RTIT-15	15	M 12 x 1.00 M 12 x 1.25 M 12 x 1.50 M 12 x 1.75	1/2"	1/2"	1/2"	1/2"	14.04	
RTIT-16	16	M 14 x 1.50 M 14 x 2.00	9/16"	9/16"	9/16"	9/16"	15.12	
RTIT-17	17	M 14 x 1.25 M 14 x 1.50	-	-	-	-	15.12	
RTIT-18	18	M 16 x 1.50 M 16 x 2.00	5/8"	5/8"	5/8"	5/8"	15.12	
RTIT-20	20	M 18 x 1.50 M 18 x 2.00 M 18 x 2.50	3/4"	-	3/4"	3/4"	15.12	
RTIT-21	21	M 20 x 1.50 M 20 x 2.00 M 20 x 2.50	-	3/4"	-	-	19.44	
RTIT-22	22	M 22 x 1.50 M 22 x 2.00 M 22 x 2.50	7/8"	7/8"	7/8"	7/8"	21.60	
RTIT-23	23	M 24 x 1.50 M 24 x 2.00 M 24 x 3.00	1"	1"	1"	1"	37.80	

TANG BREAK TOOL

Tang break tools are available individually for use with specific tap sizes.



		GROUP > RTK			INSERT TOOL		
		For use with					
Part No.	No.	Metric	UNC	UNF	BSW	BSF	Price
RTBT-04	4	M 3 x 0.50	No. 4	No. 4	-	-	8.10
RTBT-05	5	M 3.5 x 0.60	No. 6	No. 6	-	-	8.10
RTBT-06	6	M 4 x 0.70	No. 8 & 10	No. 8	-	3/16"	8.10
RTBT-08	8	M 5 x 0.80	No. 12	No. 10	3/16"	-	8.10
RTBT-09	9	M 6 x 1.00	1/4"	1/4"	1/4"	1/4"	8.10
RTBT-10	10	-	-	-	-	-	8.10
RTBT-11	11	M 7 x 1.00 M 8 x 1.00 M 8 x 1.25	5/16"	5/16"	5/16"	5/16"	9.13
RTBT-12	12	M 9 x 1.00 M 9 x 1.25	3/8"	-	3/8"	3/8"	9.13
RTBT-13	13	M 10 x 1.00 M 10 x 1.25 M 10 x 1.50	-	3/8"	-	-	9.13
RTBT-14	14	M 11 x 1.25 M 11 x 1.50	7/16"	7/16"	7/16"	7/16"	11.02
RTBT-15	15	M 12 x 1.00 M 12 x 1.25 M 12 x 1.50 M 12 x 1.75	1/2"	1/2"	1/2"	1/2"	11.02

STI TAPS (oversizes taps)

STI Taps are specialised taps used in repairing damaged threads.



METRIC		GROUP >	RTK	METRIC	
Description					
Nominal Dia.	Drill size mm	Part No.	Price		
M 4 x 0.7	4.20	RTT-MC04	30.24		
M 5 x 0.8	5.20	RTT-MC05	30.24		
M 6 x 1.0	6.30	RTT-MC06	30.24		
M 8 x 1.25	8.30	RTT-MC08	35.64		
M 8 x 1.0	8.30	RTT-MF08	37.80		
M 10 x 1.5	10.40	RTT-MC10	43.20		
M 10 x 1.25	10.30	RTT-MF100	43.20		
M 10 x 1.0	10.30	RTT-MF101	48.60		
M 12 x 1.75	12.40	RTT-MC12	59.40		
M 12 x 1.5	12.40	RTT-MF121	59.40		
M 12 x 1.25	12.30	RTT-MF120	64.80		
M 12 x 1.0	12.30	RTT-MF123	102.60		
M 14 x 2.0	14.50	RTT-MC14	70.20		
M 14 x 1.5	14.40	RTT-MF141	70.20		
M 14 x 1.25	14.40	RTT-MF140	73.44		
M 14 x 1.0	14.30	RTT-MF143	73.44		
M 16 x 2.0	16.50	RTT-MC16	81.00		
M 16 x 1.5	16.40	RTT-MF16	86.40		
M 18 x 2.5	18.60	RTT-MC18	129.60		
M 18 x 2.0	18.50	RTT-MF180	140.40		
M 18 x 1.5	18.50	RTT-MF181	129.60		
M 20 x 2.5	20.60	RTT-MC20	140.40		
M 20 x 2.0	20.50	RTT-MF200	151.20		
M 22 x 2.5	22.60	RTT-MC22	162.00		
M 22 x 2.0	22.50	RTT-MF220	172.80		
M 22 x 1.5	22.50	RTT-MF221	162.00		
M 24 x 3.0	24.75	RTT-MC24	194.40		
M 24 x 2.0	24.50	RTT-MF24	205.20		
M 24 x 1.5	24.50	RTT-MF241	194.40		

STI TAPS

STI Taps are specialised taps used in repairing damaged threads.



UNC		GROUP >	RTK	UNC
Description				
Nominal Dia.	Drill size mm	Part No.	Price	
No. 4 x 40	3.0	RTT-UNC4G	34.56	
No. 5 x 40	3.4	RTT-UNC5G	37.50	
No. 6 x 32	3.7	RTT-UNC6G	30.24	
No. 8 x 32	4.4	RTT-UNC8G	32.40	
No. 10 x 24	5.1	RTT-UNC10G	32.40	
No. 12 x 24	5.7	RTT-UNC12G	34.56	
1/4 x 20	6.7	RTT-UNC1/4	32.40	
5/16 x 18	8.3	RTT-UNC5/16	35.64	
3/8 x 16	9.9	RTT-UNC3/8	38.88	
7/16 x 14	11.60	RTT-UNC7/16	51.84	
1/2 x 13	13.00	RTT-UNC1/2	58.32	
9/16 x 12	14.80	RTT-UNC9/16	70.20	
5/8 x 11	16.50	RTT-UNC5/8	81.00	
3/4 x 10	19.75	RTT-UNC3/4	124.20	
7/8 x 9	23.00	RTT-UNC7/8	156.60	
1 x 8	26.52	RTT-UNC1	194.40	

UNF		GROUP >	RTK	UNF
No. 4 x 40	3.0	RTT-UNF4G	54.00	
No. 6 x 32	3.7	RTT-UNF6G	54.00	
No. 8 x 36	4.4	RTT-UNF8G	54.00	
No. 10 x 32	5.1	RTT-UNF10G	32.40	
1/4 x 28	6.6	RTT-UNF1/4	32.40	
5/16 x 24	8.2	RTT-UNF5/16	43.20	
3/8 x 24	9.8	RTT-UNF3/8	38.88	
7/16 x 20	11.50	RTT-UNF7/16	51.84	
1/2 x 20	13.00	RTT-UNF1/2	58.32	
9/16 x 18	14.80	RTT-UNF9/16	70.20	
5/8 x 18	16.25	RTT-UNF5/8	81.00	
3/4 x 16	19.50	RTT-UNF3/4	124.20	
7/8 x 14	22.75	RTT-UNF7/8	156.60	
1 x 12	26.00	RTT-UNF1x12	205.20	
1 x 14	26.00	RTT-UNF1x14	205.20	

STI TAPS

STI Taps are specialised taps used in repairing damaged threads.



BSW		GROUP >	RTK	BSW
Description				
Nominal Dia.	Drill size mm	Part No.	Price	
1/8 x 40	3.4	RTT-BSW1/8	54.00	
3/16 x 24	5.1	RTT-BSW3/16	37.80	
1/4 x 20	6.7	RTT-BSW1/4	35.64	
5/16 x 18	8.3	RTT-BSW5/16	37.80	
3/8 x 16	9.9	RTT-BSW3/8	43.20	
7/16 x 14	11.6	RTT-BSW7/16	56.16	
1/2 x 12	13.0	RTT-BSW1/2	62.64	
9/16 x 12	14.8	RTT-BSW9/16	81.00	
5/8 x 11	16.7	RTT-BSW5/8	91.80	
3/4 x 10	20.0	RTT-BSW3/4	135.00	
7/8 x 9	23.0	RTT-BSW7/8	167.40	
1 x 8	26.5	RTT-BSW1X8	216.00	

DRILL SIZE INFORMATION FOR RETHREAD INSERTS

It is important to use the proper size of drill bit for each wire thread insert.

Metric Thread			
Pitch mm	Drill Size mm	Pitch mm	Drill Size mm
2 x 0.4	2.10	18 x 2.0	18.50
2.5 x 0.45	2.60	18 x 1.5	18.50
3 x 0.5	3.20	20 x 2.5	20.60
3.5 x 0.6	3.70	20 x 2.0	20.50
4 x 0.7	4.20	20 x 1.5	20.50
5 x 0.8	5.20	22 x 2.5	22.60
6 x 1.0	6.30	22 x 2.0	22.50
7 x 1.0	7.30	22 x 1.5	22.50
8 x 1.25	8.30	24 x 3.0	24.75
8 x 1.0	8.30	24 x 2.0	24.50
9 x 1.25	9.30	24 x 1.5	24.50
10 x 1.5	10.40	26 x 1.5	26.50
10 x 1.25	10.30	27 x 1.5	27.50
10 x 1.0	10.30	27 x 2.0	27.50
11 x 1.5	11.40	27 x 3.0	27.75
12 x 1.75	12.40	28 x 1.5	28.50
12 x 1.5	12.40	30 x 1.5	30.50
12 x 1.25	12.30	30 x 2.0	30.50
12 x 1.0	12.30	30 x 3.5	31.00
14 x 2.0	14.50	33 x 2.0	33.50
14 x 1.5	14.40	33 x 3.5	34.00
14 x 1.25	14.40	36 x 1.5	36.50
14 x 1.0	14.30	36 x 2.0	36.50
16 x 2.0	16.50	36 x 3.0	37.00
16 x 1.5	16.40	36 x 4.0	37.00
18 x 2.5	18.60	-	-

UNC	
Pitch inch	Drill Size mm
No. 2 x 56	2.40
No. 4 x 40	3.00
No. 5 x 40	3.40
No. 6 x 32	3.70
No. 8 x 32	4.40
No. 10 x 24	5.10
No. 12 x 24	5.70
No. 1/4 x 20	6.70
5/16 x 18	8.30
3/8 x 16	9.90
7/16 x 14	11.60
1/2 x 13	13.00
9/16 x 12	14.80
5/8 x 11	16.50
3/4 x 10	19.75
7/8 x 9	23.00
1" x 8	26.25
1.1/8 x 7	29.50
1.1/4 x 7	33.00
1.3/8 x 6	36.00
1.1/2 x 6	39.50

UNF	
Pitch inch	Drill Size mm
No. 4 x 48	3.00
No. 6 x 40	3.70
No. 8 x 36	4.40
No. 10 x 32	5.10
1/4 x 28	6.60
5/16 x 24	8.20
3/8 x 24	9.80
7/16 x 20	11.50
1/2 x 20	13.00
9/16 x 18	14.80
5/8 x 18	16.25
3/4 x 16	19.50
7/8 x 14	22.75
1" x 12	26.00
1.1/8 x 12	29.00
1.1/4 x 12	32.50
1.3/8 x 12	35.50
1.1/2 x 12	38.50
-	-
-	-
-	-

BSW	
Pitch inch	Drill Size mm
1/8 x 40	3.40
3/16 x 24	5.10
1/4 x 20	6.70
5/16 x 18	8.30
3/8 x 16	9.90
7/16 x 14	11.60
1/2 x 12	13.00
9/16 x 12	14.80
5/8 x 11	16.70
3/4 x 10	20.00
7/8 x 9	23.00
1" x 8	26.50

BSF	
Pitch inch	Drill Size mm
3/16 x 32	5.00
1/4 x 26	6.60
5/16 x 22	8.30
3/8 x 20	9.90
7/16 x 18	11.60
1/2 x 16	13.00
9/16 x 16	14.80
5/8 x 14	16.40
3/4 x 12	19.50
7/8 x 11	22.70
1" x 10	26.50
-	-

INTECH[®]

BUILDING TOOLS

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BUILDING TOOLS

BUILDING TOOLS



XTREMO GLOVES

- TPR armour for protection against impact and pinch injuries
- 5mm reflective EVA protects metacarpal bones
- Abrasion-resistant on palm and 3 fingers
- Kevlar reinforcement zones provide extreme abrasion protection and enhanced grip
- Kevlar reinforced stitching ensures extreme durability
- Reflective accents ensure high hand visibility



		Description	
		GROUP	GLOV
Part No.			Price
WPHXTR-M	Medium size M		55.00
WPHXTR-L	Large size L		55.00
WPHXTR-XL	Extra large size XL		55.00
WPHXTR-XXL	Double extra large size XXL		55.00

SUREGRIP GLOVES

- Heavy duty synthetic material for rugged use
- Super gripping palm and fingers
- Neoprene knuckle protection
- Reinforced synthetic leather fingertips & thumb saddle
- High visibility reflective piping
- Kevlar reinforced stitching ensures extreme durability
- Terry cloth thumb brow wipe



		Description	
		GROUP	GLOV
Part No.			Price
WPHSG-M	Medium size M		27.50
WPHSG-L	Large size L		27.50
WPHSG-XL	Extra large size XL		27.50
WPHSG-XXL	Double extra large size XXL		27.50

CONSTRUCT PRO GLOVES

- 100% Heavy duty genuine breathable leather
- Double-layer fingertips and thumb saddle provide extreme durability and protection
- Multi-zone padded palm protects against impact, abrasion and fatigue
- TPR moulded ribbing protects knuckles and carpal bones against hard impact
- Kevlar reinforced stitching ensures extreme durability



		Description	
		GROUP	GLOV
Part No.			Price
WPHCPR-M	Medium size M		36.50
WPHCPR-L	Large size L		36.50
WPHCPR-XL	Extra large size XL		36.50
WPHCPR-XXL	Double extra large size XXL		36.50

CONSTRUCT GLOVES

- Heavy duty genuine leather reinforced zones
- Heavy duty synthetic material for rugged use
- Reinforced genuine leather fingertips & thumb saddle
- Padded palm protects against vibration, abrasion and fatigue
- Kevlar reinforced stitching ensures extreme durability



		Description	
		GROUP >	GLOV
Part No.			Price
WPHCON-M	Medium size M		30.00
WPHCON-L	Large size L		30.00
WPHCON-XL	Extra large size XL		30.00
WPHCON-XXL	Double extra large size XXL		30.00

UTILITY GLOVES

- Heavy duty Clarino synthetic leather for lasting use
- Moulded TPR with neoprene padding for knuckle protection against impact and abrasion
- Sensifil material on palm, fingers and thumb saddle
- Terry cloth thumb brow wipe
- Kevlar reinforced stitching ensures extreme durability



		Description	
		GROUP >	GLOV
Part No.			Price
WPHUTI-M	Medium size M		27.50
WPHUTI-L	Large size L		27.50
WPHUTI-XL	Extra large size XL		27.50
WPHUTI-XXL	Double extra large size XXL		27.50

EASYFIT GLOVES

- Heavy duty Clarino synthetic leather for rugged use
- Double-layer synthetic leather on thumb & thumb saddle for protection against impact and abrasion
- One piece seamless synthetic leather for durability
- Breathable and flexible for comfort
- Elastic cuff provides an easy and quick fit
- Kevlar reinforced stitching ensures extreme durability



		Description	
		GROUP >	GLOV
Part No.			Price
WPHEFI-M	Medium size M		20.00
WPHEFI-L	Large size L		20.00
WPHEFI-XL	Extra large size XL		20.00
WPHEFI-XXL	Double extra large size XXL		20.00

MECHANIC GLOVES

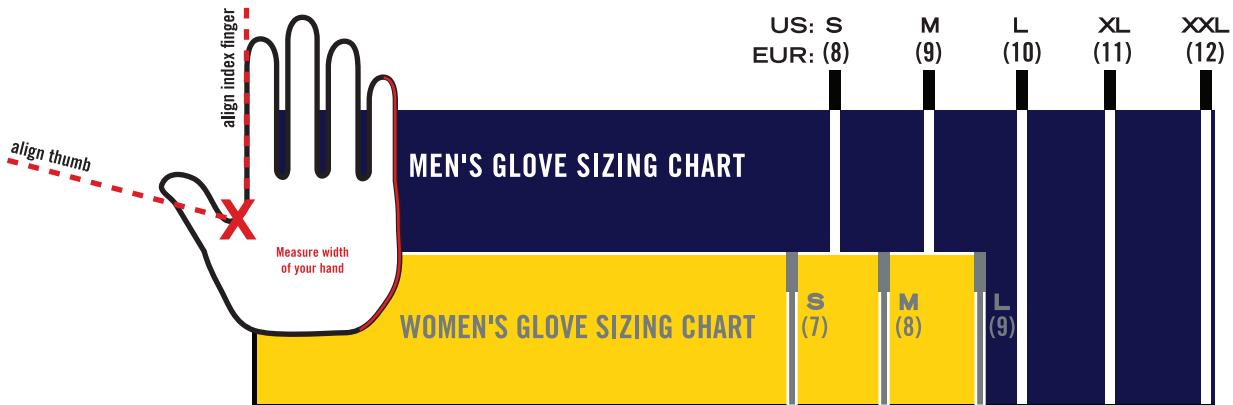
- Heavy duty Clarino synthetic leather for rugged use
- One piece seamless synthetic leather for durability
- Breathable and flexible for comfort
- TPR hook and spandex cuff ensure perfect fit
- Kevlar reinforced stitching ensures extreme durability



Part No.	Description	Price
	GROUP >> GLOV	
WPHMEC-M	Medium size M	22.00
WPHMEC-L	Large size L	22.00
WPHMEC-XL	Extra large size XL	22.00
WPHMEC-XXL	Double extra large size XXL	22.00

GLOVE SIZING CHART

Place your right hand flat on the chart below and align the saddle of your index finger and thumb with the illustrated hand. Once your hand is aligned, mark the sizing bar that is closest to the right edge of your hand.



THICKSKIN
EXTREME WORKWEAR 

13 POCKET OIL TANNED LEATHER TOOL APRON

- Constructed from extra thick full grain oil tanned leather
- 50mm heavy duty leather belt
- Extra large measuring tape holder. Fits 8m & 10m tapes
- Double stitching
- Rivet reinforcement for high stress points
- Oversized pockets
- Two steel hammer holders
- Chisel & square holders



Description		Price
GROUP	LEAT	
Part No.		
LW31012	13 pocket oil tanned leather apron	99.00

11 POCKET OIL TANNED SPLIT LEATHER TOOL APRON

- Heavy duty split oil tanned leather
- Double stitching
- Rivet reinforcement for high stress points
- Two steel hammer holders



Description		Price
GROUP	LEAT	
Part No.		
LWTASP011	11 pocket oil tanned split leather apron	63.00

11 POCKET SUEDE LEATHER TOOL APRON

- High quality suede leather
- Double stitching
- Rivet reinforcement for high stress points
- Adjustable 50mm nylon web belt
- Two steel hammer holders



Description		Price
GROUP	LEAT	
Part No.		
LWTASU11	11 pocket suede leather apron	59.00

10 POCKET SPLIT LEATHER TOOL APRON

- Premium grade split leather
- Rivet reinforcement for high stress points
- Adjustable 50mm nylon web belt
- A leather hammer holder and tape measure holder



Description		
Part No.	GROUP	Price
LWTASPL10	LEAT	27.30
10 pocket split leather tool apron		

10 POCKET COTTON TOOL APRON

- Heavy duty cotton conforms to body
- Rivet reinforcement for high stress points
- Adjustable 50mm nylon web belt
- Two leather hammer holders



Description		
Part No.	GROUP	Price
LWTACT10	LEAT	20.00
10 pocket cotton tool apron		

11 POCKET SUEDE LEATHER TOOL APRON

- High quality suede leather
- Double stitching
- Rivet reinforcement for high stress points
- Adjustable 50mm nylon web belt
- Two steel hammer holders



Description		
Part No.	GROUP	Price
LWTASUBR11	LEAT	50.00
11 pocket suede leather tool apron		

15 POCKET LEATHER TOOL APRON

- Premium grade full grain leather
- Modular system tool apron
- Heavy duty leather belt
- Anti-spill tool holder system
- Rivet reinforcements for high stress points



Description		Price
GROUP	LEAT	
Part No.		
LW31015	15 pocket leather apron	136.36

19 POCKET OIL TANNED SPLIT LEATHER TOOL APRON

- Premium grade split leather
- Modular system tool apron
- Heavy duty leather belt
- Anti-spill tool holder system
- Rivet reinforcements for high stress points



Description		Price
GROUP	LEAT	
Part No.		
LWTASP019	19 pocket oil tanned split leather tool apron	125.00

18 POCKET SUEDE LEATHER TOOL APRON

- Premium grade split leather
- Modular system tool apron
- Heavy duty leather belt
- Anti-spill tool holder system
- Rivet reinforcements for high stress points



Description		Price
GROUP	LEAT	
Part No.		
LWTASU18	18 pocket suede leather tool apron	125.00

RIGGERS BELT TOP GRAIN LEATHER - 5 POCKET

- Premium top grain leather belt and frogs
- Wide back support strap
- Tape holder & clip
- Plain frogs
- Podger frog & clip
- Hammer frog & clip
- Shifter frog & clip
- Level holder



		Description	
		GROUP >	LEAT
Part No.			Price
LWRBC05	Riggers belt - 5 pocket		109.10

10 POCKET OIL TANNED LEATHER NAIL AND TOOL BAG

- Made from premium full grain oil tanned leather
- Rivet reinforcement for high stress points
- Double stitching
- Two steel hammer holders



		Description	
		GROUP >	LEAT
Part No.			Price
LWNBOT10	10 pocket oil tanned leather nail & tool bag		72.00

10 POCKET FULL GRAIN LEATHER NAIL AND TOOL BAG

- Made from premium full grain leather
- Rivet reinforcement for high stress points
- Double stitching
- Two steel hammer holders



		Description	
		GROUP >	LEAT
Part No.			Price
LWNBFG10	10 pocket full grain leather nail & tool bag		43.00

10 POCKET SUEDE LEATHER NAIL AND TOOL BAG

- Made from high quality suede leather
- Rivet reinforcement for high stress points
- Double stitching
- Two steel hammer holders



		Description	
		GROUP >	LEAT
Part No.			Price
LWNGSUBR10	10 pocket suede leather nail & tool bag		40.00

HAMMER HOLDER

- Premium grade saddle leather
- Rivet reinforcement
- Rust resistant hammer holder
- Wide belt slot



		Description	
		GROUP >	LEAT
Part No.			Price
LWHHSSD	Swinging hammer holder		9.00
LWHHFSD	Hammer holder		9.00

SADDLE LEATHER CHISEL HOLDER

- Premium grade leather
- Rivet reinforcement



		Description	
		GROUP >	LEAT
Part No.			Price
LWCHSD	Chisel holder		12.00
LWDCHDT	Double chisel holder		22.00

50mm BELT

- Adjustable 50mm belt
- Fits waists from 60 to 120cm



		Description	
		GROUP >	LEAT
Part No.			Price
LWNAWB	50mm nylon web belt		10.80
LWLBTUS	Leather belt		22.90

LEATHER APRON

- Made from Premium Grade Split Leather
- Made for welding, machinist, wood work, and other trades



		Description	
		GROUP >	LEAT
Part No.			Price
LWWASPG	Leather apron		35.45

PHONE HOLDER

- Made from premium grade split leather
- Fit all kinds of phones, iphone, smartphone, PDA



		Description	
		GROUP >	LEAT
Part No.			Price
LWLPHR	Leather phone holder		15.40

MATERIAL COMPARISON



Oil Tanned Leather

- Weather resistant
- Resists cracking & tears
- Resists moisture absorption
- Heavy duty



Suede Leather

- Resists cracking & tears
- Soft material, conforms to body



Cotton

- Cool material for warm weather
- Lightweight
- Soft material, conforms to body



Full Grain Leather

- Resists cracking & tears
- Heavy duty



Split Leather

- Soft material, conforms to body

G-CLAMP SG IRON

- Unbreakable malleable iron body
- Swivel pad adopts correct angle and applies even pressure on the workpiece
- Tensile strength of over 60,000PSi
- For safety, handle will bend before the frame can become over-stressed

VIRTUALLY UNBREAKABLE



Part No.	Description		Pack Qty	Price
	GROUP	BUILD		
VWGCC04	4" / 100mm	1200lbs / 545kg	6pcs	18.50
VWGCC06	6" / 150mm	1400lbs / 636kg	6pcs	27.00
VWGCC08	8" / 200mm	1700lbs / 773kg	2pcs	39.00

G-CLAMP DROP FORGED HEAVY DUTY

- Drop forged steel body
- Ribs ensure rigidity and strength
- Broad steel swivel pad which adopts correct angle to fit the workpiece
- Handle will bend before the clamp becomes overstressed
- Attractive powder coated finish

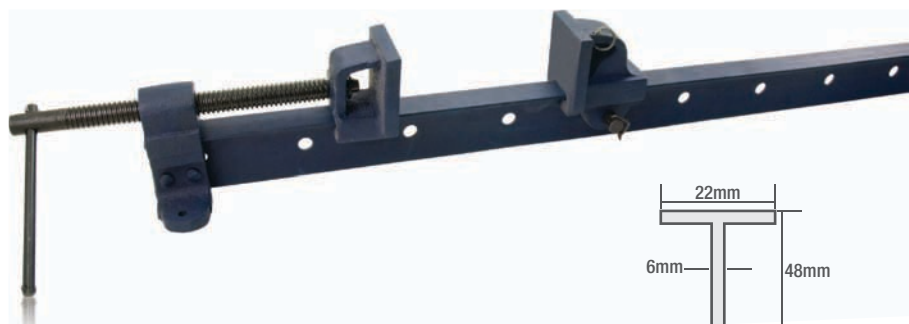


Part No.	Description		Pack Qty	Price
	GROUP	BUILD		
VWGCF100	4" / 100mm	3700lbs / 1675kg		22.73
VWGCF150	6" / 150mm	4700lbs / 2125kg		38.18

DROP FORGED

T-BAR CLAMP

- Useful for clamping large section workpieces during fabrication, gluing joinery and carpentry
- Used where applications require extra resilience under extreme pressure
- Malleable iron head and slides provide rigidity and strength
- Both head and slide have a flat bottom allowing the bar to stand upright
- Main screw and handle are made from high grade steel



Part No.	Description		Price
	GROUP	BUILD	
VWTB04	Capacity mm	OAL mm	99.00
VWTB05	1050	1200	108.00
VWTB06	1350	1500	120.00

CARPENTER SQUARE

- Constructed from thick gauge metal
- Anti rust lacquer
- Correct layout of measurements to suit Australia
- Numbers etched for easy readability
- Punched hole for hanging
- Intech embossed for easy recognition



		Description	
		GROUP	BUILD
Part No.			Price
BTRSP1	1m / 40" Carpenter Square		20.00

MITRE SQUARE

- Stainless steel blade
- Heavy duty cast iron base
- Etched inch and mm markings



		Description	
		GROUP	BUILD
Part No.			Price
BTCTS06	6" / 150mm Mitre Square		22.72
BTCTS08	8" / 200mm Mitre Square		24.54
BTCTS10	10" / 250mm Mitre Square		30.90
BTCTS12	12" / 300mm Mitre Square		33.63

COMBINATION SQUARE

- Extra thick 12"/300mm rule for robust use
- Rule is satin finished for anti-glare
- Accurate metric & imperial measurements on both sides of the rule
- Extra thick Heavy Duty precision cast iron stock
- Precision ground edges for accuracy
- Vial built into frame for extra protection
- Screw in scriber will not drop out



		Description	HEAVY DUTY
		GROUP	BUILD
Part No.			Price
BTCOMS	300mm / 12" Combination Square		54.54

COMBINATION SQUARE SET

- Precision cast zinc stock
- Stainless Steel Blade
- Deep etched graduations
- Centre marker
- Graduated protractor which turns through 360°



Description		
Part No.	GROUP	BUILD
Part No.		Price
MTCOMS	300mm / 12" Combination Set	130.00

* Available soon

1m FOLDING RULE

- Brass hinge and pins for high durability
- Bevelled edge for precise marking
- Markings precisely inscribed into ruler



Description		
Part No.	GROUP	BUILD
Part No.		Price
BTFRPRO	1m Folding Ruler	21.82

CARPENTER PENCILS

- 72 pieces per box
- 12 pieces per internal sleeve
- Box can be used for display packing
- Professional quality



Description		
Part No.	GROUP	BUILD
Part No.		Price
BTCPGH	Green pencil - hard lead, box	1.23
BTCPRM	Red pencil - medium lead, box	1.23

AUTOLOCK MEASURING TAPE

- Strong ABS plastic case with belt clip
- Tough rubber protection at all impact points
- Double nylon coated blade for durability
- Autolocking mechanism enables quick, reliable measurements
- Ergonomic design for comfortable grip
- Easy inside measurements as the case length is easy to add on
- EC Class II accuracy of tape
- Self zeroing end hook for complete accuracy



**27mm
WIDE BLADE**
2.4m STAND-OUT

25mm WIDE BLADE

Description		
GROUP	BUILD	
Part No.		Price
BMTP205SM	5m Metric	15.91
BMTP208SM	8m Metric	21.82
BMTP208SE	8m / 27ft Metric & Imperial	21.82

PROTAPE MEASURING TAPE

- Glossy blade
- Power return
- Positive thumb lock
- 4 rivets on end hook
- Ergonomic design



25mm WIDE BLADE

Description		
GROUP	BUILD	
Part No.		Price
BMTPE18SM	8m Metric	9.00

LONG MEASURING TAPE

- 3:1 Gear Ratio ensures quick and effortless rewinds
- High impact resistant ABS case
- Tough rubber protection at all impact points
- Nylon coated blade
- Foldable claw end ring
- Retractable winding lever for easy storage



3:1 Gear Ratio
3x Faster Rewind
For fast and effortless rewinds

Description		
GROUP	BUILD	
Part No.		Price
BMTSL320	20m / 66ft Metric & Imperial	31.82
BMTSL330	30m / 100ft Metric & Imperial	45.46

STANDOUT MEASURING TAPE

- Strong ABS plastic case with belt clip
- Tough rubber protection at all impact points
- Double nylon coated blade for durability
- Matte finished blade for anti-glare
- Double lock mechanism
- Shock absorbing blade return bumper
- Ergonomic design for comfortable grip
- EC Class II accuracy of tape
- Self zeroing end hook for complete accuracy
- 10m tape in compact size casing



27mm WIDE BLADE

Description			
GROUP	BUILD		
Part No.		End Hook	Price
BMTP108MM	8m Metric	Magnetic	25.00
BMTP108ME	8m / 27ft Metric & Imperial	Magnetic	25.00
BMTP108SM	8m Metric	Non-Magnetic	23.18
BMTP108SE	8m / 27ft Metric & Imperial	Non-Magnetic	23.18
BMTP110MM	10m Metric	Magnetic	26.36
BMTP110ME	10m / 33ft Metric & Imperial	Magnetic	26.36
BMTP110SM	10m Metric	Non-Magnetic	24.55
BMTP110SE	10m / 33ft Metric & Imperial	Non-Magnetic	24.55

**27mm
WIDE BLADE**
2.7m STAND-OUT

UTILITY KNIFE WITH SPORT BLADE

- Comes with 8 blades
- Easy to remove, auto-load blades
- Heavy duty zinc alloy body withstands the toughest of uses
- Sports blade via quick access button
- On/Off switch for safe use



Description		
Part No.	GROUP >>	Price
BTUKZ10	BUILD	21.80
Utility Knife with 8 blades		

AUTO-LOAD RETRACTABLE KNIFE

- Comes with 5 blades
- Ergonomic design with comfortable rubber grip
- Quick storage access for quick blade replacement
- Quick release button makes blade changes quick and easy



Description		
Part No.	GROUP >>	Price
BTUKR05	BUILD	13.64
Retractable Knife		

SAFETY KNIFE AUTO-RETRACTABLE BLADE

- Comes with 6 blades
- Easy and quick to replace blades
- Spring loaded lever automatically retracts when blade is not in use
- Ergonomic design, well balanced grip is great for industrial use



Description		
Part No.	GROUP >>	Price
BTUKR03	BUILD	16.36
Safety Knife		

UTILITY KNIFE FIXED BLADE

- Interlocking nose design for safety
- Large quick release dial for quick and easy blade changes, easy to operate with gloves on
- Knife swivels open for easy blade change
- Optimized cutting angle for reduced fatigue
- Comfortable, contoured handle
- Comes with bonus belt clip holster



Description		
Part No.	GROUP >>	Price
BTUKFS1	BUILD	14.45
Fixed Knife		

REPLACEMENT BLADES 10 PACK

- 10 Premium SK-5 blades
- Premium quality SK-5 material blades are longer-lasting than other blades
- Designed for maximum durability and precision ground to an ultra sharp edge 0.6mm thick
- Compatible with all **INTECH®** knives



Part No.	Description	Price
	GROUP > BUILD	
BTUKB010	Replacement Blades 10 Pack	2.27

REPLACEMENT BLADES 100 PACK DISPENSER

- 100 Premium SK-5 blades
- Premium quality SK-5 material blades are longer-lasting than other blades
- Designed for maximum durability and precision ground to an ultra sharp edge 0.6mm thick
- Compatible with all **INTECH®** knives



Part No.	Description	Price
	GROUP > BUILD	
BTUKB100	Replacement Blades 100 Pack Dispenser	18.64

PHILLIPS® INSERT BITS



1/4" PH2 Universal insert bit



HIGH-TORQUE IMPACT
RESISTANT MATERIAL

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL mm	Dia. mm					Qty	
PH2	25	6	1/4" x 25mm Bit	6.0mm	PBP225S	0.69	10	-
PH2	25	6	1/4" x 25mm High Torque Bit	6.0mm	PBP225SA	0.71	10	-

PHILLIPS® RIBBED AND REDUCE HEAD INSERT BITS



Insert Bit with ribs designed for additional gripping power to prevent cam-out



Reduced nose cone diameter for badly stamped screws

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL	Dia. mm					Qty	
PH1	25	4	1/4" x 25mm Ribbed Bit	4.0mm	PBP125SR	0.97	10	-
PH2	25	6	1/4" x 25mm Ribbed Bit	6.0mm	PBP225SR	0.97	10	-
PHR2	25	5	1/4" x 25mm Reduced Head Bit	5.0mm	PBPR225S	0.69	10	-

PHILLIPS® POWER BITS



1/4" PH2 Universal power bit



1/4" PH3 Universal power bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL	Dia. mm					Qty	
PH2	50	6	1/4" x 50mm Power Bit	6.0mm	PBP250S	1.10	10	-
PH2	75	6	1/4" x 75mm Power Bit	6.0mm	PBP275S	1.80	10	-
PH2	100	6	1/4" x 100mm Power Bit	6.0mm	PBP2100S	2.21	10	-
PH2	150	6	1/4" x 150mm Power Bit	6.0mm	PBP2150S	3.31	10	-
PH3	50	6	1/4" x 50mm Power Bit	6.0mm	PBP350S	1.10	10	-

PHILLIPS® HIGH TORQUE POWER BITS



ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL	Dia. mm					GROUP	BITS
PH2	50	6	1/4" x 50mm High-Torque Bit	6.0mm	PBP250SA	1.51	10	-
PH2	75	6	1/4" x 75mm High-Torque Bit	6.0mm	PBP275SA	2.34	10	-
PH2	100	6	1/4" x 100mm High-Torque Bit	6.0mm	PBP2100SA	3.03	10	-
PH2	150	6	1/4" x 150mm High-Torque Bit	6.0mm	PBP2150SA	4.97	10	-

PHILLIPS® RIBBED POWER BITS



1/4" power bit with ribs designed to prevent cam-out

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL	Dia. mm					GROUP	BITS
PH2	50	6	1/4" x 50mm Ribbed Power Bit	6.0mm	PBP250SR	2.07	10	-
PH2	100	6	1/4" x 100mm Ribbed Power Bit	6.0mm	PBP2100SR	3.58	10	-

PHILLIPS® DOUBLE ENDED BITS



1/4" Phillips double ended Bit

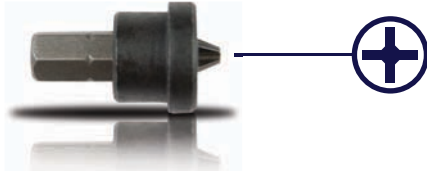
HIGH-TORQUE IMPACT RESISTANT MATERIAL

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Part No.	Price	Pack	
	OAL mm					GROUP	BITS
PH2 - PH2	45		1/4" x 45mm Double-Ended Bit	PBP245D	1.32	10	-
PH2 - PH2	65		1/4" x 65mm Double-Ended Bit	PBP265D	1.80	10	-
PH2 - PH2	75		1/4" x 75mm Double-Ended Bit	PBP275D	1.87	10	-
PH2 - PH2	100		1/4" x 100mm Double-Ended Bit	PBP2100D	2.76	10	-
PH2 - PH2	150		1/4" x 150mm Double-Ended Bit	PBP2150D	3.44	10	-
PH2 - PH2	45		1/4" x 45mm Double-Ended Bit, High-Torque material	PBP245DA	1.93	10	-
PH2 - PH2	75		1/4" x 75mm Double-Ended Bit, High-Torque material	PBP275DA	2.48	10	-

PHILLIPS® DRYWALL BITS



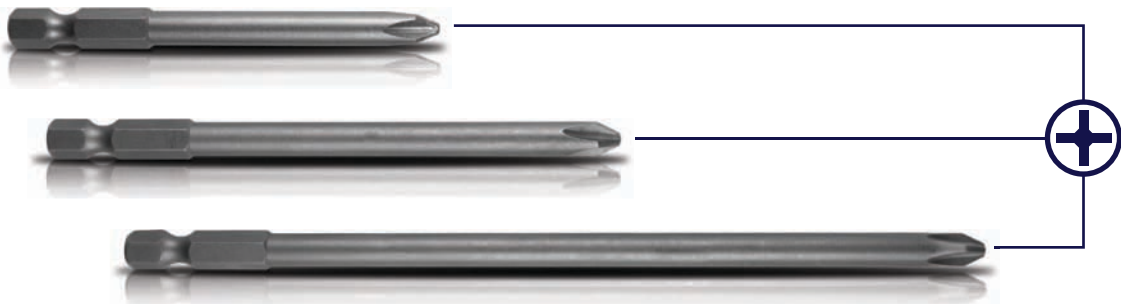
1/4" drywall bit with depth gauge for installing plasterboard and cement fibre sheeting

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Part No.	Price	Pack	
	OAL					Qty	
PH2	25		1/4" x 25mm Drywall Bit	PBP225DW	2.21	4	-

DRIVER BITS FOR MAKITA/HITACHI COLLATED SCREW GUNS



1/4" Extension bits with reduced shank to suit autofeed drywall screw guns

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions		Description	Body Dia.	Part No.	Price	Pack	
	OAL	Dia. mm					Qty	
PH2	109	4.75	Hitachi WF-4DY	4.75mm	PBP2109S	4.14	10	-
PH2	117	4.75	Makita 6831	4.75mm	PBP2117S	3.31	10	-
PH2	122	5	Makita 440 14.4V Lithium Ion	5.00mm	PBP2122S	4.14	10	-
PH2	132	5	Makita 6832 Makita 6833 Makita 6835	5.00mm	PBP2132S	3.31	10	-
SQ2	132	5	Makita 6832 Makita 6833 Makita 6835	5.00mm	PBSQ2132S	4.97	10	-
PH2	146	5	Makita 6834	5.00mm	PBP2146S	4.14	10	-
PH2	152	4.75	Makita 240 Volt Hitachi W4YE and W4YF	4.75mm	PBP2152S	4.14	10	-
PH2	154	5	Wallpro Collated Screw Gun	5.00mm	PBP2154S	4.14	10	-
PH2	164	5	Makita 6842 - 450 14.4V Li-Ion Makita 6843 - 550 18V Li-Ion	5.00mm	PBP2164S	5.24	10	-

HEX INSERT BITS



1/4" Hex drive insert bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description		Part No.	Price	Pack	
		GROUP	BITS			Qty	
5mm	30		1/4" x 30mm Hexagon Insert Bit	PBHEX530S	0.83	10	-

HEX POWER BITS



1/4" Hex drive power bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description		Part No.	Price	Pack	
		GROUP	BITS			Qty	
5mm	50		1/4" x 50mm Hexagon Power Bit	PBHEX550S	1.10	10	-

TORX[®] INSERT BITS



1/4" Torx[®] Insert bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description		Point Dia.	Part No.	Price	Pack	
		GROUP	BITS				Qty	
T30	25		1/4" x 25mm Torx [®] Insert Bit	5.5mm	PBTX3025S	1.38	10	-

TORX® POWER BITS



1/4" Torx® power bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description			Part No.	Price	Pack	
		GROUP	BITS				Qty	
T30	50		1/4" x 50mm Torx® Power Bit	5.5mm	PBTX3050S	2.07	10	-

SQUARE INSERT BITS



1/4" Square drive insert bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description			Part No.	Price	Pack		
		GROUP	BITS				Qty		
SQ2	25		1/4" x 25mm Square Insert Bit	6.0mm	3.0mm	PBSQ225S	0.69	10	-

SQUARE POWER BITS



1/4" Square drive power bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description			Part No.	Price	Pack		
		GROUP	BITS				Qty		
SQ0	50		1/4" x 50mm Square Power Bit	5.0mm	1.8mm	PBSQ050S	1.10	10	-
SQ1	50		1/4" x 50mm Square Power Bit	5.0mm	2.4mm	PBSQ150S	1.10	10	-
SQ2	50		1/4" x 50mm Square Power Bit	6.0mm	3.0mm	PBSQ250S	1.10	10	-
SQ3	50		1/4" x 50mm Square Power Bit	6.0mm	3.4mm	PBSQ350S	1.38	10	-
SQ1	75		1/4" x 75mm Square Power Bit	5.0mm	2.4mm	PBSQ175S	2.07	10	-
SQ2	100		1/4"x100mm Square Power Bit	6.0mm	3.0mm	PBSQ2100S	3.03	10	-
SQ3	100		1/4"x100mm Square Power Bit	6.0mm	3.4mm	PBSQ3100S	3.32	10	-

SLOTTED INSERT BITS



ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Screw Size	Part No.	Price	Pack	
		GROUP > BITS				Qty	
SL6	25	1/4" x 25mm Slotted Insert Bit	6-10	PBSL625S	0.69	10	-

SLOTTED POWER BITS



ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Screw Size	Part No.	Price	Pack	
		GROUP > BITS				Qty	
SL6	50	1/4" x 50mm Slotted Power Bit	6-10	PBSL650S	1.38	10	-
SL8	50	1/4" x 50mm Slotted Power Bit	12-14	PBSL850S	1.38	10	-

POZIDRIV[®] INSERT BITS



ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Body Dia.	Part No.	Price	Pack	
		GROUP > BITS				Qty	
PZ1	25	1/4" x 25mm Pozidriv [®] Insert Bit	4.5mm	PBPZ125S	0.69	10	-
PZ2	25	1/4" x 25mm Pozidriv [®] Insert Bit	6mm	PBPZ225S	0.69	10	-
PZ3	25	1/4" x 25mm Pozidriv [®] Insert Bit	6mm	PBPZ325S	0.69	10	-

POZIDRIV® POWER BITS



1/4" Pozidriv drive power bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Body Dia.	Part No.	Price	Pack	
		GROUP > BITS				Qty	
PZ1	50	1/4" x 50mm Pozidriv® Power Bit	4.5mm	PBPZ150S	1.27	10	-
PZ2	50	1/4" x 50mm Pozidriv® Power Bit	6mm	PBPZ250S	1.10	10	-
PZ3	50	1/4" x 50mm Pozidriv® Power Bit	6mm	PBPZ350S	1.27	10	-
PZ2	75	1/4" x 75mm Pozidriv® Power Bit	6mm	PBPZ275S	1.80	10	-
PZ3	89	1/4" x 89mm Pozidriv® Power Bit	6mm	PBPZ389S	2.61	10	-
PZ2	150	1/4" x 150mm Pozidriv® Power Bit	6mm	PBPZ2150S	3.31	10	-

POZIDRIV® DOUBLE ENDED BITS



1/4" Pozidriv drive double ended bit

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Body Dia.	Part No.	Price	Pack	
		GROUP > BITS				Qty	
PZ2-PZ2	45	1/4" x 45mm Pozidriv® Double End	-	PBPZ245D	1.32	10	-
PZ2-PZ2	65	1/4" x 65mm Pozidriv® Double End	-	PBPZ265D	1.80	10	-
PZ2-PZ2	75	1/4" x 75mm Pozidriv® Double End	-	PBPZ275D	1.93	10	-

MAGNETIC BIT HOLDERS



1/4" Stainless Steel single piece magnetic bit holder with 'C' ring

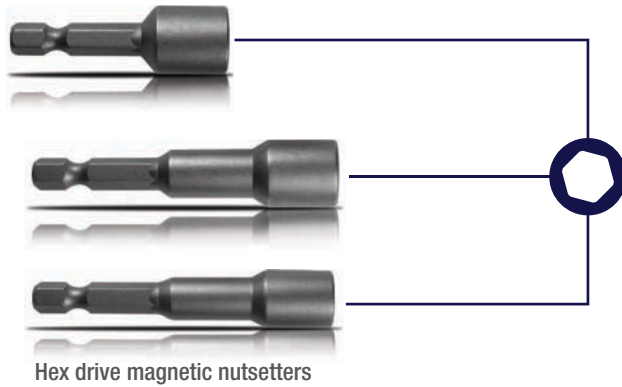
1/4" Two piece magnetic bit holder with 'C' ring

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description	Body Dia.	Part No.	Price	Pack	
		GROUP > BITS				Qty	
1/4"	75	1/4" x 75mm SS 1 piece Bit Holder	11.0mm	PBMBHCS75	10.20	10	-
1/4"	75	1/4" x 75mm 2 piece Bit Holder	11.0mm	PBMBHC75	8.82	10	-
1/4"	150	1/4" x 150mm Quick Release Bit Holder	16.0mm	PBMBHC150	11.79	1	-
1/4"	65	1/4" x 65mm Quick Release Bit Holder	16.0mm	PBMBHC65	8.82	1	-

MAGNETIC NUT SETTERS



- ✓ Uses rare earth magnet that is stronger than common magnets
- ✓ Uses rounded contact surfaces
 - Provides larger clearance on the edges of the fastener where grime/paint build-up can occur



Drives the fastener via sides instead of using edges to turn, thus maintaining the shape of the fastener and increasing the tool life

ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Point size	Dimensions OAL mm	Description		Part No.	Price	Pack	
		GROUP	BITS			Qty	
1/4"	42		1/4" x 42mm Magnetic Nutsetter	PBNS1442	4.14	5	-
1/4"	65		1/4" x 65mm Magnetic Nutsetter	PBNS1465	6.07	5	-
5/16"	42		5/16" x 42mm Magnetic Nutsetter	PBNS51642	4.14	5	-
5/16"	65		5/16" x 65mm Magnetic Nutsetter	PBNS51665	4.68	5	-
5/16"	150		5/16" x 150mm Magnetic Nutsetter	PBNS516150	17.91	5	-
3/8"	42		3/8" x 42mm Magnetic Nutsetter	PBNS3842	5.24	5	-
3/8"	65		3/8" x 65mm Magnetic Nutsetter	PBNS3865	6.62	5	-
7/16"	65		7/16" x 65mm Magnetic Nutsetter	PBNS71665	10.47	5	-

HEX TO SQUARE ADAPTOR



ALL BITS ARE MAGNETISED

GRADE S2 ALLOY | 58-62HRC

Square size	Dimensions OAL mm	Description		Part No.	Price	Pack	
		GROUP	BITS			Qty	
1/4"	75		1/4" Hex to 1/4" Square Adaptor	PBADP14-75	6.07	5	-
3/8"	75		1/4" Hex to 3/8" Square Adaptor	PBADP38-75	2.48	5	-
1/2"	70		1/4" Hex to 1/2" Square Adaptor	PBADP12-70	3.03	5	-

DRIVER BIT MERCHANDISER

Our best driver bits in one attractive merchandiser.



Part No.	Contents		Price
	GROUP	BITS	
PBMERCH			946.30
		30	
		20	
		30	
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		10	

DRIVER BIT SET



Part No.	Contents		Price
	GROUP	BITS	
PBSET100		100pc set Clutch 1, 2, 3 / Torg-set 6, 8, 10 / Spline 5, 6, 8 / Tri-wing 1, 2, 3, 4 / Square 0, 1, 2, 3 / Spanner 4, 6, 8, 10 / Slotted 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 / Phillips 0, 1, 2 (x5), 3 / Pozi 0, 1, 2 (x5), 3 / Hex 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8 / Hex 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" / Security Hex 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" / Security Hex 2, 2.5, 3, 4, 5, 6 / Star T8, T10, T15, T20, T25, T27, T30, T40, T45 / Security star T8, T10, T15, T20, T25, T27, T30, T35, T40 / Magnetic bit holder / Wing nut driver / Socket bit holder / 1/4"SQ.x 1/4" Hex x1" extension / 1/4"SQ.x 1/4" Hex x2" extension /	33.52
PBSET033		33pc set Tri-wing 1, 2, 3, 4 / Torg-set 6, 8, 10 / Spanner 4, 6, 8, 10 / Security Hex 2, 2.5, 3, 4, 5, 6 / Security Hex 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" / Security star T8, T10, T15, T20, T25, T27, T30, T35, T40 / Magnetic bit holder /	17.01

COLD CHISELS

- Hardness at striking end under 42HRC
- Hardness at cutting edge 52-58HRC
- Head design directs striking force through the center for resistance to mushrooming and chipping
- Size markings for easy identification
- Accurately ground cutting edge
- Powder coated



Description		
GROUP	BUILD	
Part No.		Price
HTCC13150	13 x 150mm Chisel	10.91
HTCC16200	16 x 200mm Chisel	13.65
HTCC19200	19 x 200mm Chisel	16.37
HTCC22250	22 x 250mm Chisel	19.09
HTCC25250	25 x 250mm Chisel	23.00

SDS SHANK CHISELS

- Made of high quality tool steel
- SSD Plus shanks



Description			
GROUP	ENGG		
Part No.	Size mm	Type	Price
PWCCF17250	17 x 250	Flat	15.00
PWCCF20250	20 x 250	Flat	15.00
PWCCF40250	40 x 250	Flat	15.00
PWCCP17250	17 x 250	Point	15.00

LONG-DRIVE PIN PUNCH SET

- Precision engineered and machined for an exact fit
- For reaching deeply recessed drive pins
- Size embossed for ease of use
Includes five punches:
1/8", 3/16", 1/4", 5/16", 3/8"
- Made of hardened tool steel
- Diamond knurled body for grip
- Packaged in a vinyl case



Description		
GROUP	BUILD	
Part No.		Price
PTLDPS5	Long drive pin punch set	40.00

INTECH[®]

ENGINEERING TOOLS

INTECH[®]

ENGINEERING TOOLS

ENGINEERING TOOLS



ENGINEER'S SQUARE

- Squareness to BS939 standards
- Spring steel blades hardened to 52-55HRC
- Use of tapered self locking rivets ensures perfect rigidity
- Both blade and stock are precisely ground to ensure straightness and parallelism



Part No.	Description		Price
	GROUP	ENGG	
PRES050	50mm		17.10
PRES075	75mm		18.90
PRES100	100mm		20.70
PRES150	150mm		28.80
PRES200	200mm		37.80
PRES250	250mm		64.80
PRES300	300mm		73.80
PRES450	450mm		360.00
PRES600	600mm		630.00

UNIVERSAL SCREW CUTTING GAUGE

- Hardened and polished stainless steel, accurately ground
- Designed for checking tool angle while cutting threads with lathes



Part No.	Description		Price
	GROUP	ENGG	
PRSCG	Universal screw cutting gauge		15.30

SCREW PITCH GAUGE

- Handy for checking pitch of threads
- All leaves are clearly marked with sizes
- Made of high quality tool steel



Part No.	Description			Price
	GROUP	ENGG		
Part No.	Range	Leafs	Standard	Price
MTSPGW28	4 TPI – 62 TPI	28 leaf	Whitworth 55 deg	12.60
MTSPGM24	0.25mm – 6.00mm	24 leaf	Metric 60 deg	11.70
MTSPGC52	Above models combined	52 leaf	Combined	21.60
MTSPGA31	4 TPI – 42 TPI	31 leaf	American 60 deg	14.40
MTSPGA52	4 TPI – 84 TPI	52 leaf	American 60 deg	21.60

SPRING DIVIDER

- Manufactured from fabricated steel
- Spring joint for precision settings
- Large bearing surface on fulcrum stud prevents side deflection of legs
- Divider points are hardened for increased wear resistance



Part No.	Description	Price
	GROUP >> ENGG	
PRSCD075	3" / 75mm	9.90
PRSCD100	4" / 100mm	9.90
PRSCD150	6" / 150mm	11.70
PRSCD200	8" / 200mm	16.20
PRSCD250	10" / 250mm	20.70
PRSCD300	12" / 300mm	26.10
PRSCD450	18" / 450mm	63.00
PRSCD600	24" / 600mm	99.00
PRSCD900	36" / 900mm	162.00

INSIDE SPRING CALIPER

- Manufactured from fabricated steel
- Spring joint for precision settings
- Large bearing surface on fulcrum stud prevents side deflection of legs



Part No.	Description	Price
	GROUP >> ENGG	
PRSCI075	3" / 75mm	9.90
PRSCI100	4" / 100mm	9.90
PRSCI150	6" / 150mm	11.70
PRSCI200	8" / 200mm	16.20
PRSCI250	10" / 250mm	20.70
PRSCI300	12" / 300mm	26.10
PRSCI450	18" / 450mm	63.00
PRSCI600	24" / 600mm	99.00
PRSCI900	36" / 900mm	162.00

OUTSIDE SPRING CALIPER

- Manufactured from fabricated steel
- Spring joint for precision settings
- Large bearing surface on fulcrum stud prevents side deflection of legs



Part No.	Description	Price
	GROUP >> ENGG	
PRSC0075	3" / 75mm	9.90
PRSC0100	4" / 100mm	9.90
PRSC0150	6" / 150mm	11.70
PRSC0200	8" / 200mm	16.20
PRSC0250	10" / 250mm	20.70
PRSC0300	12" / 300mm	26.10
PRSC0450	18" / 450mm	63.00
PRSC0600	24" / 600mm	99.00
PRSC0900	36" / 900mm	162.00

JENNY SPRING CALIPER

- Manufactured from fabricated steel
- Spring joint for precision settings
- Large bearing surface on fulcrum stud prevents side deflection of legs



Part No.	Description	Price
	GROUP >> ENGG	
PRSCJ100	4" / 100mm	13.50
PRSCJ150	6" / 150mm	14.40
PRSCJ200	8" / 200mm	20.70
PRSCJ250	10" / 250mm	24.30
PRSCJ300	12" / 300mm	32.40

DIVIDER FIRM JOINT

- Manufactured from fabricated steel
- Large bearing surface on fulcrum stud prevents side deflection of legs



Part No.	Description	Price
	GROUP >> ENGG	
PRCFD100	4" / 100mm	9.90
PRCFD150	6" / 150mm	15.30
PRCFD200	8" / 200mm	21.60
PRCFD250	10" / 250mm	20.70
PRCFD300	12" / 300mm	29.70

INSIDE FIRM JOINT CALIPER

- Manufactured from fabricated steel
- Large bearing surface on fulcrum stud prevents side deflection of legs



Part No.	Description	Price
	GROUP >> ENGG	
PRCFI100	4" / 100mm	9.90
PRCFI150	6" / 150mm	15.30
PRCFI200	8" / 200mm	21.60
PRCFI250	10" / 250mm	20.70
PRCFI300	12" / 300mm	29.70

OUTSIDE FIRM JOINT CALIPER

- Manufactured from fabricated steel
- Large bearing surface on fulcrum stud prevents side deflection of legs



		Description	
		GROUP	ENGG
Part No.			Price
PRCF0100	4" / 100mm		9.90
PRCF0150	6" / 150mm		15.30
PRCF0200	8" / 200mm		21.60
PRCF0250	10" / 250mm		20.70
PRCF0300	12" / 300mm		29.70

JENNY FIRM JOINT CALIPER

- Manufactured from fabricated steel
- Large bearing surface on fulcrum stud prevents side deflection of legs



		Description	
		GROUP	ENGG
Part No.			Price
PRFCJ100	4" / 100mm		14.00
PRFCJ150	6" / 150mm		14.00
PRFCJ200	8" / 200mm		20.00
PRFCJ250	10" / 250mm		24.00
PRFCJ300	12" / 300mm		30.00

WING COMPASS

- Manufactured from fabricated steel
- Spring joint for precision settings
- Large bearing surface on fulcrum stud prevents side deflection of legs
- Divider points are hardened for increased wear resistance



		Description	
		GROUP	ENGG
Part No.			Price
PRWC06	6" / 150mm		32.40
PRWC08	8" / 200mm		41.40
PRWC10	10" / 250mm		61.20
PRWC12	12" / 300mm		64.80

VERNIER CALIPER

- Can measure internal and external dimensions as well as depth
- Hardened to ensure accuracy is maintained



Part No.	Description		Price
	GROUP >>	ENGG	
MTVC150	150mm / 6"	- 0.02mm / 0.001"	40.50
MTVC200	200mm / 8"	- 0.02mm / 0.001"	54.00
MTVC300	300mm / 12"	- 0.02mm / 0.001"	85.50
MTVC600	600mm / 24"	- 0.02mm / 0.001"	324.00
MTVC1000	1000mm / 40"	- 0.02mm / 0.001"	630.00
MTVC1500	1500mm / 60"	- 0.02mm / 0.001"	1,800.00

DIGITAL CALIPER

- Stainless steel for a long lasting & rust proof product
- Large & clear display in either metric or imperial units
- Can measure internal and external dimensions as well as depth
- Accuracy to 0.01mm & 0.001"
- Zero setting at any position
- Hardened to ensure accuracy is maintained



Part No.	Description		Price
	GROUP >>	ENGG	
MTDC150	150mm / 6"		72.00
MTDC200	200mm / 8"		110.00
MTDC300	300mm / 12"		300.00
MTDC600	600mm / 24"		480.00

DIGITAL CALIPER - FRACTIONAL

- Stainless steel for a long lasting & rust proof product
- Large & clear display in metric, imperial and imperial fractional units
- Can measure internal and external dimensions as well as depth
- Accuracy to 0.01mm & 0.001"
- Zero setting at any position
- Hardened to ensure accuracy is maintained



Part No.	Description		Price
	GROUP >>	ENGG	
MTDC150FR	150mm / 6"		72.00
MTDC200FR	200mm / 8"		110.00
MTDC300FR	300mm / 12"		300.00

1/2 in.	0.5 in.	12.7 mm
INCH FRACTIONAL	INCH DECIMAL	METRIC DECIMAL

IP67 DIGITAL CALIPER

- Water, oil and coolant proof to IP67 standards
- Hardened stainless steel jaws
- Metric and Imperial measurements
- Large and Crisp LCD Display



Part No.	Description		Price
	GROUP >>	ENGG	
MTDCIP150	6" / 150mm		220.00
MTDCIP200	8" / 200mm		240.00
MTDCIP300	12" / 300mm		420.00

DIAL CALIPER

- Can measure internal and external dimensions as well as depth
- Hardened to ensure accuracy is maintained



		Description	
		GROUP >>	ENGG
Part No.			Price
MTDIC06	6"		76.50
MTDIC08	8"		112.50
MTDIC150	150mm		76.50
MTDIC200	200mm		112.50
MTDVC300	300mm		225.00

BATTERY FOR DIGITAL CALIPER



		Description	
		GROUP >>	ENGG
Part No.			Price
MTDCB01	Battery for digital caliper		5.00

TAPER BORE GAUGE

- Manufactured from stainless steel
- Engraved graduations; Metric/Imperial either side
- Excellent tool for measuring diameters of small holes due to accurate taper



		Description	
		GROUP >>	ENGG
Part No.			Price
MTTBGM15	1 - 15mm and 1/16 - 5/8"		31.50

DEPTH GAUGE

- Head made from selected steel and has black finish
- Steel rule is locked in place by a knurled nut



		Description	
		GROUP >>	ENGG
Part No.	Size		Price
MTDG150	6" / 150mm		24.00
MTDG300	12" / 300mm		32.00

VERNIER HEIGHT GAUGE

- Metric and imperial markings on a vernier scale
- Allows for fine adjustment
- Magnifying glass for easy & quick reading of measurements



Part No.	Description		Price
	GROUP >	ENGG	
MTVHG300	300mm / 12"		270.00
MTVHG450	450mm / 18"		360.00
MTVHG600	600mm / 24"		405.00

DIGITAL HEIGHT GAUGE

- Metric and imperial markings on a vernier scale
- Allows for fine adjustment
- Large & clear display in either metric or imperial units



Part No.	Description		Price
	GROUP >	ENGG	
MTDHG0500	500mm / 20"		495.00

VERNIER DEPTH GAUGE

- Made from alloyed stainless steel
- Laser engraved graduations
- Metric measurements
- Accurate to 0.02mm/0.001"



Part No.	Description		Price
	GROUP >	ENGG	
MTVDG200	200mm		74.00
MTVDG300	300mm		120.00

OUTSIDE MICROMETER

- Heavy duty micrometer
- Hold button for measuring precisely
- Measuring faces are fully hardened
- Satin chrome finish on barrel
- Precision down to 0.01mm



Part No.	Description		Price
	GROUP	ENGG	
METRIC			
MTMO 025	0 - 25mm		41.40
MTMO 050	25 - 50mm		45.00
MTMO 075	50 - 75mm		54.00
MTMO 100	75 - 100mm		63.00
MTMO 125	100 - 125mm		109.80
MTMO 150	125 - 150mm		118.80
MTMO 175	150 - 175mm		126.00
MTMO 200	175 - 200mm		144.00
MTMO 225	200 - 225mm		153.00
MTMO 250	225 - 250mm		162.00
MTMO 275	250 - 275mm		175.50
MTMO 300	275 - 300mm		189.00
MTMO 400	300 - 400mm		540.00
MTMO 500	400 - 500mm		589.50
MTMO 600	500 - 600mm		711.00
MTMO 700	600 - 700mm		720.00
IMPERIAL			
MTMOI 1	0 - 1"		41.40
MTMOI 2	1" - 2"		45.00
MTMOI 3	2" - 3"		54.00
MTMOI 4	3" - 4"		63.00

OUTSIDE MICROMETER SET

- Heavy duty micrometer
- Hold button for measuring precisely
- Measuring faces are fully hardened
- Satin chrome finish on barrel
- Precision down to 0.01mm



Part No.	Description		Price
	GROUP	ENGG	
MTMOS 100	0 - 100mm	4pc	180.00
MTMOS 150	0 - 150mm	6pc	252.00
MTMOS 200	0 - 200mm	8pc	432.00
MTMOS 300	0 - 300mm	12pc	810.00
MTMOS 1020	100 - 200mm	4pc	405.00
MTMOS 1530	150 - 300mm	6pc	540.00

INSIDE MICROMETER

- Heavy duty micrometer
- Spindle threads are hardened and ground
- Ratchet stop
- Satin chrome finish on barrel and thimble
- Measuring faces are fully hardened and ground



Part No.	Description		Price
	GROUP	ENGG	
MTMI0530	5 - 30mm		135.00
MTMI150	25 - 50mm		148.50
MTMI175	50 - 75mm		171.00
MTMI100	75 - 100mm		189.00

DIAL INDICATORS

- Dial graduation 0.01mm or 0.001"
- Rotating bezel for zero setting
- Rear lug with 1/4" hole



		Description	
		GROUP >>	ENGG
Part No.		Accuracy	Price
MTDIM10	0 - 10mm	0.01mm	44.00
MTDII1	0 - 1"	0.001"	44.00

TEST DIAL INDICATORS

- Ruby stylus
- 4mm & 8mm dovetail stems included
- Storage case included



		Description	
		GROUP >>	ENGG
Part No.		Accuracy	Price
MTTDI08	0 - 0.8mm	0.01mm	180.00
MTTDI20	0 - 2.0mm	0.01mm	193.50
MTTDI13	0 - 0.03"	0.0005"	180.00

DIAL BORE GAUGE

- Essential testing and measurement tool for machine shops, mechanics and racers
- Includes easy to read dial indicator



		Description	
		GROUP >>	ENGG
Part No.			Price
MTBG06-10	6 - 10mm		247.50
MTBG10-18	10 - 18mm		247.50
MTBG18-35	18 - 35mm		247.50
MTBG35-50	35 - 50mm		247.50
MTBG50-100	50 - 100mm		247.50
MTGB50-160	50 - 160mm		247.50

WIRE & SHEET METAL GAUGE

- Manufactured from heavy gauge hardened stainless steel
- Metric & imperial units marked on the same side
- Gauges have convenient decimal equivalents of each number



		Description	
		GROUP	ENGG
Part No.			Price
MTWG136	200 & 300mm Blades / Gauge #1 to #36		22.50

RADIUS GAUGE

- Designed to measure internal and external radii
- Marked with nominal size on each blade



		Description	
		GROUP	ENGG
Part No.			Price
PRRG1-7	1 – 7mm		38.70
PRRG7-15	7.5 – 15mm		47.70
PRRG15-25	15 – 25mm		77.40

RADIUS GAUGE SET

- Designed to measure internal and external radii
- Marked with nominal size on each blade



		Description	
		GROUP	ENGG
Part No.			Price
PRRGS	0.5 – 13mm (increments in 0.5mm), 26pcs		130.50

WIGGLER & CENTRE FINDER SET

- Used for accurately locating working points on drill presses, lathes, milling & other machines
- Set consists of snap in holder, needle point attachment, ball contact attachment, die contact attachment & offset indicator holder



		Description	
		GROUP	ENGG
Part No.			Price
PRWCF	5pcs set in pouch		63.00

CENTRE GAUGE

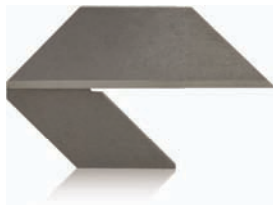
- Manufactured from stainless steel
- Useful for grinding and setting thread cutting tools, also used for checking the pitch of threads



		Description	
		GROUP >>	ENGG
Part No.			Price
PRCGU	UN Threads, 60 deg		13.50
PRCGM	Metric Threads, 60 deg		13.50
PRCGW	Whitworth Threads, 55 deg		13.50

CENTRE SQUARE

- Useful for locating centers of round stocks/parts quickly and easily
- Knife edge made from hardened and ground spring steel for longer life



		Description	
		GROUP >>	ENGG
Part No.	Capacity		
PRCS38	38mm dia. Round Pipe	40.00	
PRCS75	75mm dia. Round Pipe	70.00	

UNIVERSAL SURFACE GAUGE

- Fully hardened and ground base
- Can be used on curved surfaces due to V-groove
- Can be used as a height or depth gauge



		Description	
		GROUP >>	ENGG
Part No.			Price
PRUSG	225mm & 300mm		117.00

DRILL GAUGE

- Manufactured from Stainless Steel
- Useful for checking drill sizes



		Description	
		GROUP >>	ENGG
Part No.	Capacity		
PRDG25	Metric Sizes 1 - 13mm	27.00	
PRDG29	Imperial Sizes 1/16 - 1/2"	27.00	

DRILL STAND

- Made from plastic for storing drill bits



		Description	
		GROUP >	ENGG
Part No.	Capacity	Price	
TGDSTI	Imperial 1/16" - 1/2"	7.00	
TGDSTM	Metric 1 - 13mm	7.00	

FEELER GAUGE SET

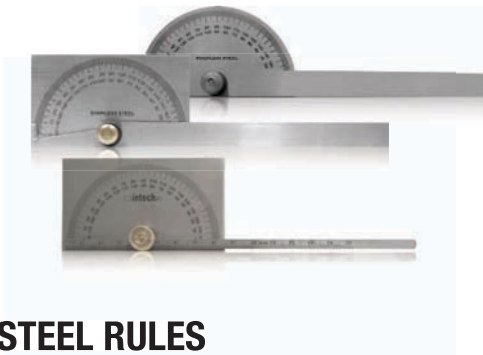
- Made from quality steel
- Each blade has slim tapered ends



		Description	
		GROUP >	ENGG
Part No.		Price	
PRFGS	0.05 - 1.00mm, set of 20 strips	30.00	

PROTRACTORS

- 180° Protractor
- Hardened stainless steel for durability
- Handy for woodworking/metalworking



		Description	
		GROUP >	ENGG
Part No.		Price	
MTPRORH	Protractor - round head	41.40	
MTPROSH	Protractor - square head	41.40	
MTPDGSH	Protractor & depth gauge 150mm	60.00	

STEEL RULES

- Manufactured from stainless steel
- Engraved graduations
- Metric units on one side and imperial units on the other
- Accurate to JIS B 7516-grade one specifications



		Description	
		GROUP >	ENGG
Part No.		Price	
MTSRS0150	150mm / 6"	4.50	
MTSRS0300	300mm / 12"	9.00	
MTSRS0600	600mm / 24"	18.00	
MTSRS1000	1000mm / 40"	31.50	

FEELER STRIPS

- Made from quality steel
- Each blade is 12" long



Metric Strips				Imperial Strips			
GROUP		ENGG		GROUP		ENGG	
Thickness mm	Part No.	Pck Qty	Price	Thickness in.	Part No.	Pck Qty	Price
0.03	PRFSM003	10	6.30	0.008	PRFSI0.008	10	7.20
0.04	PRFSM004	10	6.30	0.001	PRFSI0.001	10	6.30
0.05	PRFSM005	10	6.30	0.0015	PRFSI0.0015	10	6.30
0.06	PRFSM006	10	6.30	0.002	PRFSI0.002	10	6.30
0.07	PRFSM007	10	6.30	0.0025	PRFSI0.0025	10	6.30
0.08	PRFSM008	10	6.30	0.003	PRFSI0.003	10	6.30
0.09	PRFSM009	10	6.30	0.004	PRFSI0.004	10	6.30
0.10	PRFSM010	10	6.30	0.005	PRFSI0.005	10	6.30
0.13	PRFSM013	10	7.20	0.006	PRFSI0.006	10	6.30
0.15	PRFSM015	10	7.20	0.007	PRFSI0.007	10	6.30
0.20	PRFSM020	10	7.20	0.008	PRFSI0.008	10	6.30
0.25	PRFSM025	10	7.20	0.009	PRFSI0.009	10	6.30
0.30	PRFSM030	10	8.10	0.010	PRFSI0.010	10	7.20
0.35	PRFSM035	10	8.10	0.011	PRFSI0.011	10	7.20
0.40	PRFSM040	10	8.10	0.012	PRFSI0.012	10	7.20
0.45	PRFSM045	10	8.10	0.013	PRFSI0.013	10	7.20
0.50	PRFSM050	10	8.10	0.014	PRFSI0.014	10	7.20
0.60	PRFSM060	10	8.10	0.015	PRFSI0.015	10	7.20
0.70	PRFSM070	10	8.10	0.016	PRFSI0.016	10	7.20
0.80	PRFSM080	10	8.10	0.017	PRFSI0.017	10	7.20
0.90	PRFSM090	10	8.10	0.018	PRFSI0.018	10	7.20
1.00	PRFSM100	10	9.00	0.019	PRFSI0.019	10	7.20
1.10	PRFSM110	10	9.00	0.020	PRFSI0.020	10	7.20
1.20	PRFSM120	10	9.00	0.021	PRFSI0.021	10	8.10
1.30	PRFSM130	10	9.00	0.022	PRFSI0.022	10	8.10
1.40	PRFSM140	10	9.00	0.023	PRFSI0.023	10	8.10
1.50	PRFSM150	10	9.00	0.024	PRFSI0.024	10	8.10
1.60	PRFSM160	10	9.00	0.025	PRFSI0.025	10	8.10
1.70	PRFSM170	10	9.00	0.026	PRFSI0.026	10	9.00
1.80	PRFSM180	10	9.00	0.027	PRFSI0.027	10	9.00
1.90	PRFSM190	10	9.00	0.028	PRFSI0.028	10	9.00
2.00	PRFSM200	10	9.00	0.029	PRFSI0.029	10	9.00
-	-	-	-	0.030	PRFSI0.030	10	9.00
-	-	-	-	0.035	PRFSI0.035	10	9.00
-	-	-	-	0.040	PRFSI0.040	10	9.00

MAGNETIC BASE

- Magnet with 60kgs holding power
- Provides axial travel and rotation
- Reaches out up to 12" with flexible joints and easy adjusting posts
- Knurled thumb screws give positive grip



		Description	
		GROUP >	ENGG
Part No.			Price
MTMBF	Magnetic base with fine adjustment		54.00

TELESCOPIC GAUGE

- For quick inside measurement and determination of inside diameters
- Spring loaded plunger that expands in the bore or groove
- Satin chromed body
- Auto extension and direct locking
- Measuring faces are hardened and micro-lapped



		Description	
		GROUP >	ENGG
Part No.		Set	Price
MTTGS	8 - 152mm	6pc	58.50

MARKING GAUGE

- Easier to use and more accurate than marking lines with an adjustable square
- Perfectly square edges
- Hardened marking edge
- Knurled steel knob for positive grip
- Metric 1mm graduations



		Description	
		GROUP >	ENGG
Part No.	Size		
PRMG300	300mm	95.00	

ROUND ROD MARKING GAUGE

- Vernier scale for fine adjustment
- Thumb screw for easy adjustment
- Hardened scriber for increased durability
- Can be used on wood, metals and plastics



		Description	
		GROUP >	ENGG
Part No.	Size		
PRMGR300	300mm	100.00	

L-SHAPED SCRIBERS

- Two point design with one straight scriber and one 90° bend scriber
- Great for marking and etching, lifting O-rings and gaskets and cleaning small grooves
- Knurled body provides excellent grip
- Points are made from hardened and ground steel



Heavy Duty L-Shaped Scriber



L-Shaped Scriber

		Description
		GROUP > ENGG
Part No.		
PRSCRIB	L-shaped steel scriber	
PRSCRIBH	Heavy duty L-shaped scriber	
		Price
		6.30
		14.00

CARBIDE TIPPED SCRIBERS

- Works easily on metals, ceramics and glass
- Great for sheet metal and duct workers
- Durable tungsten carbide point makes precise marks to 1/100"
- Convenient pocket clip



		Description
		GROUP > ENGG
Part No.		
PRSCRIBC	Carbide tipped scriber	
		Price
		11.70

HEAVY DUTY POCKET SCRIBER

- A portable, general purpose scribing and etching tool
- 3/8" knurled body with 2" replaceable point
- Point reverses into body for safety
- Hexagonal head prevents tool from rolling off work surface



		Description
		GROUP > ENGG
Part No.		
PRSCRIBKN	Heavy duty pocket scriber	
		Price
		20.00

BEAM TRAMMEL

- Great tool for scribing, layout, measuring distances and circles
- Each trammel has a free turning knurl, allowing convenience to swing the tool when scribing circles
- Scribes are replaceable



Description		
Part No.	GROUP	Price
PRBM265	ENGG	67.50

TRAMMEL HEADS

- Useful for laying out & scribing large circles
- Trammel heads firmly hold various attachments
- Come in pairs



Description		
Part No.	GROUP	Price
PRTHE33	ENGG	50.00

* Available soon

AUTOMATIC CENTRE PUNCHES

- Fully automatic single hand operation
- Adjustable from light to extra heavy markings
- Point is manufactured from hardened alloy steel
- Knurled round shank for positive non-slip grip



PTACP

PTACPAL

PTACPHD

Description		
Part No.	GROUP	Price
PTACP	ENGG	24.00
PTACPAL	ENGG	33.00
PTACPHD	ENGG	55.00

UNIVERSAL TRANSFER PUNCH & ALIGNER

- A replacement for different size transfer punches
- Spring loaded knurled body down until it is in contact with the work surfaces. The punch will mark the work piece
- Accommodates any hole size in the range of 5mm to 30mm



		Description	
		GROUP >>	ENGG
Part No.			Price
PTUTP	Universal transfer punch		40.00

NUMBER AND LETTER STAMPS

- Manufactured from quality carbon steel
- Punches are induction hardened
- Hardness at stamping end is 58-62HRC while at the striking end it is maintained at 38-43HRC
- Softer striking end prevents splintering and mushrooming during use
- Striking end is chamfered to prevent breakage



		Description		
		GROUP >>	ENGG	
Part No.	Millimetres	Inches	Price	
NUMBERS 0-9				
PTSN1.5	1.5mm	1/16"	20.16	
PTSN2.0	2.0mm	5/64"	19.15	
PTSN2.5	2.5mm	3/32"	19.15	
PTSN3.0	3mm	1/8"	19.15	
PTSN4.0	4mm	5/32"	22.58	
PTSN5.0	5mm	3/16"	23.26	
PTSN6.0	6mm	1/4"	25.99	
PTSN8.0	8mm	5/16"	34.89	
PTSN10	10mm	3/8"	43.10	
PTSN12	12mm	1/2"	72.00	
LETTERS A-Z				
PTSL1.5	1.5mm	1/16"	50.54	
PTSL2.0	2.0mm	5/64"	50.54	
PTSL2.5	2.5mm	3/32"	50.54	
PTSL3.0	3mm	1/8"	50.54	
PTSL4.0	4mm	5/32"	57.67	
PTSL5.0	5mm	3/16"	62.86	
PTSL6.0	6mm	1/4"	71.93	
PTSL8.0	8mm	5/16"	90.72	
PTSL10	10mm	3/8"	113.40	
PTSL12	12mm	1/2"	168.48	

NEEDLE FILES

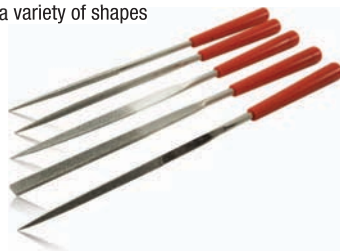
- Suitable for working on a range of materials
- Used by tool and die makers, instrument makers, jewelers and craftspeople
- A common choice for building model trains or custom clocks
- Comfortable plastic handle



Description		Pack Qty	Price
GROUP	ENGG		
Part No.			
FTNF001	Pillar	10pcs	5.40
FTNF002	Half Round	10pcs	5.40
FTNF003	Crossing	10pcs	5.40
FTNF005	Knife Edge	10pcs	5.40
FTNF006	Warding	10pcs	5.40
FTNF007	Three square	10pcs	5.40
FTNF008	Square	10pcs	5.40
FTNF009	Oval	10pcs	5.40
FTNF010	Round	10pcs	5.40
FTNF011	Barret	10pcs	5.40
FTNF014	Slitting	10pcs	5.40
FTNF015	Crochet	10pcs	5.40
FTNF016	Pillar (Round Edge)	10pcs	5.40
FTNFS12	12pc Set		29.70

DIAMOND NEEDLE FILE SET

- Suitable for working on a range of materials
- Used by tool and die makers, instrument makers, jewellers and craftspeople
- A common choice for building model trains or custom clocks
- Diamond particles securely bonded onto steel body
- Comfortable plastic handle
- Each set contains a variety of shapes



Description		Pack Qty	Price
GROUP	ENGG		
Part No.			
FTDNF5	5pc set - 140x70x3mm		54.00

BEARING SCRAPERS

- Designed for removing high spots on machined surfaces
- Made of hardened & tempered steel



Description		Pack Qty	Price
GROUP	ENGG		
Part No.			
HTBSFL06	Flat, 150mm blade length		28.00
HTBSR006	Triangle, 150mm blade length		28.00
HTBSTR06	Round, 150mm blade length		28.00

PIN VICES

- Will hold various bits - from screw driver bits to dremel bits
- Have hollow handles so that they can be used to work with wire
- Knurled body for positive grip



		Description	
		GROUP >>	ENGG
Part No.			Price
VPV1	0 - 1.0mm		16.00
VPV2	0.75 - 1.5mm		16.00
VPV3	1.4 - 3.1mm		16.00
VPV4	3.1 - 5mm		16.00
VPVS	Set of 4pcs - above sizes		50.00

SWIVEL HEAD PIN VICE

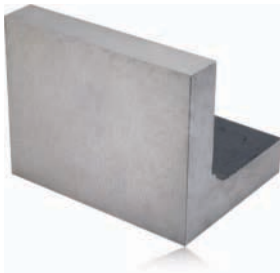
- Four collets stored inside the handle of the vise
- Swivel head permits finger control of the drilling action and is ideal for precision and intricate drilling



		Description	
		GROUP >>	ENGG
Part No.			Price
VPSH	0 to 0.125" & 0 to 3.2mm		14.00

PLAIN ANGLE PLATES

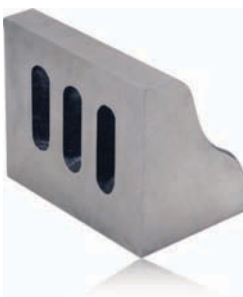
- Fully hardened and ground base
- Can be used on curved surfaces due to V-groove
- Can be used as a height or depth gauge



		Description	
		GROUP >>	ENGG
Part No.			Price
CMAPP100	100 x 100 x 100mm		100.00
CMAPP125	125 x 125 x 125mm		140.00
CMAPP150	150 x 150 x 150mm		250.00

WEBBED & SLOTTED ANGLE PLATES

- Fully hardened and ground base
- Accurately machined 90° angle
- Can be used as a height or depth gauge



		Description	
		GROUP >>	ENGG
Part No.			Price
CMAPW075	75 x 63 x 50mm		80.00
CMAPW088	88 x 75 x 63mm		90.00
CMAPW112	112 x 88 x 74mm		94.50
CMAPW150	150 x 125 x 112mm		157.50
CMAPW175	175 x 138 x 112mm		198.00
CMAPW200	200 x 150 x 125mm		207.00
CMAPW250	250 x 200 x 150mm		333.00
CMAPW300	300 x 225 x 200mm		459.00

VEE BLOCKS - SET OF 2 WITH CLAMPS

- Manufactured from quality steel
- Fully hardened and ground
- Manufactured in numbered pairs
- Each pair of vee blocks comes with a pair of clamps



Part No.	Description		Price
	GROUP	ENGG	
CMVB30	30 x 30 x 50mm		73.80
CMVB40	40 x 40 x 50mm		150.00
CMVB50	50 x 50 x 63mm		175.50

VEE BLOCKS - SET OF 2 CAST IRON

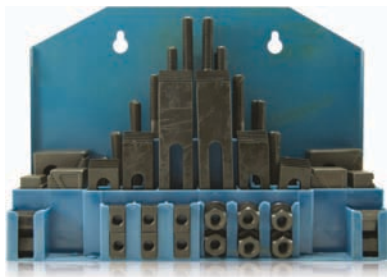
- Made from close grained cast iron
- Precisely ground and machined square and parallel
- Vees are 90° centred in true



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Dimensions	Capacity	Price
CMVBCI 080	80 x 60 x 35mm	Up to 62mm dia shaft	162.00
CMVBCI 100	100 x 75 x 40mm	Up to 80mm dia shaft	198.00
CMVBCI 150	150 x 100 x 50mm	Up to 125mm dia shaft	342.00
CMVBCI 180	180 x 130 x 60mm	Up to 160mm dia shaft	396.00
CMVBCI 220	220 x 160 x 70mm	Up to 200mm dia shaft	486.00

CLAMPING KIT

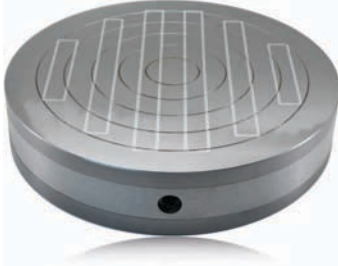
- Supplied are 6pcs Tee nuts, 6pcs flanged nuts, 6pcs step blocks, 4pcs coupling nuts, 12pcs step clamps and 24pcs studs (3" - 8")



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Stud size	T Slot size	Price
CMCKS 3/8	3/8"	1/2"	189.00
CMCKS 1/2	1/2"	5/8"	189.00
CMCKS 5/8	5/8"	3/4"	243.00
CMCKS10	10mm	12mm	189.00
CMCKS12	12mm	16mm	193.50
CMCKS14	14mm	16mm	459.00
CMCKS16	16mm	18mm	247.50
CMCKS18	18mm	20mm	700.00
CMCKS20	20mm	22mm	790.00

MAGNETIC CHUCKS

- Holds workpieces during turning operations on lathes and for grinding on internal, cylindrical or rotary grinding machines
- Rigid assembly, thick top plate and are operated by a removable handle
- Can be partially magnetised to simplify the correct positioning of the workpiece

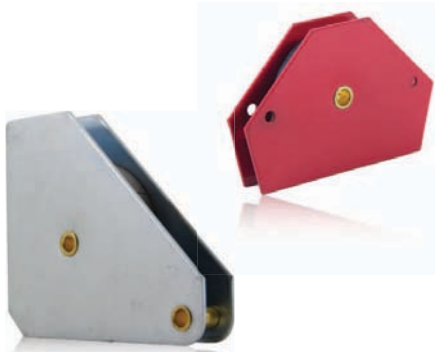


Part No.	Description	Price
	GROUP >> ENGG	
CMROMC04	4" / 100mm Diameter Circular Chuck	570.00
CMROMC06	6" / 150mm Diameter Circular Chuck	630.00
CMROMC08	8" / 200mm Diameter Circular Chuck	783.00
CMROMC10	10" / 250mm Diameter Circular Chuck	1,080.00
CMROMC12	12" / 300mm Diameter Circular Chuck	POA
CMROMC18	18" / 450mm Diameter Circular Chuck	POA
CMROMC20	20" / 500mm Diameter Circular Chuck	POA
CMROMC24	24" / 600mm Diameter Circular Chuck	POA
CMREMC408	4" x 8" Rectangular Chuck	472.50
CMREMC510	5" x 10" Rectangular Chuck	522.00
CMREMC612	6" x 12" Rectangular Chuck	720.00
CMREMC616	6" x 16" Rectangular Chuck	990.00
CMREMC812	8" x 12" Rectangular Chuck	990.00
CMREMC816	8" x 16" Rectangular Chuck	POA
CMREMC824	8" x 24" Rectangular Chuck	POA
CMREMC1236	12" x 36" Rectangular Chuck	POA

- Please inquire as many sizes are brought in on indent only and will have a lead time.

MAGNETIC WELDING CLAMPS

- General purpose magnetic welding clamp



Part No.	Description	Price
	GROUP >> ENGG	
CMMWCM	Multi angle – 180, 90, 75, 60, 45, 30 deg	16.20
CMMWCS	Square type – 90, 45 deg	23.40

POT MAGNETS

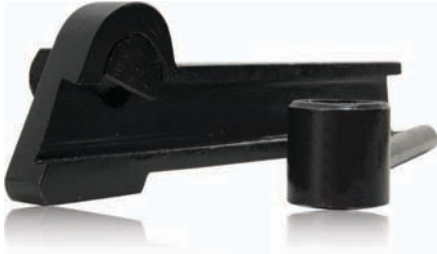
- Numerous applications
- Tapped holes 1/4" x 20



Part No.	Description	Price
	GROUP >> ENGG	
CMPM17	17mm x 16mm	13.20
CMPM20	20mm x 19mm	18.00
CMPM27	27mm x 25mm	18.00
CMPM35	35mm x 30mm	18.00

PARTING TOOL HOLDER

- Manufactured from high grade steel
- Support the blade over a wider area thus reducing chances of blade breakage
- Locking mechanism enables the blade to be held securely



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Tool Size - Bevelled	Shank Size	Price
LPTHS5/16	5/16"	1/8 x 1/2 x 4"	39.60
LPTHS1/2	1/2"	5/16 x 3/4 x 4-1/2"	37.80
LPTHS5/8	5/8"	3/8 x 7/8 x 5"	46.80
LPTHS3/4	3/4"	1/2 x 1-1/8 x 6"	54.00
LPTHS7/8	7/8"	5/8 x 1-3/8 x 7"	72.00
LPTHS1	1"	3/4 x 1-3/4 x 9"	93.60

PARTING TOOL STEEL - HSS

- Accurately ground bevel section with clearance angle at cutting edge
- High speed steel with 5% Cobalt
- Suitable for use on tougher materials and heavy duty applications that require increased depth of cut



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Size	Size	Price
LTPTS18	5/16"	1/16" x 5/16" x 3-1/2"	27.00
LTPTS19	1/2"	3/32" x 1/2" x 4"	29.70
LTPTS20	5/8"	3/32" x 5/8" x 5"	31.50
LTPTS21	3/4"	1/8" x 3/4" x 6"	45.00
LTPTS22	7/8"	1/8" x 7/8" x 7"	70.20
LTPTS23	1"	3/16" x 1" x 8"	95.40

ROUND TOOL STEEL - HSS



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Size	Size	Price
LTTSR1/8	1/8" x 2-1/2"		10.00
LTTSR3/16	3/16" x 3"		11.00
LTTSR1/4	1/4" x 4"		6.00
LTTSR5/16	5/16" x 4"		6.20
LTTSR3/8	3/8" x 4"		9.00
LTTSR7/16	7/16" x 4"		16.00
LTTSR1/2	1/2" x 4"		17.00

TOOL HOLDER

- Manufactured from high grade steel
- Toolbits are held parallel and straight to the shank giving maximum support to the cutting edge
- Locking mechanism enables the blade to be held securely



Description			
GROUP > ENGG			
Part No.	Tool Size - Bevelled	Shank Size	Price
STRAIGHT			
LTTHS1/8	1/8"	5/16 x 1/2 x 4"	31.50
LTTHS3/16	3/16"	5/16 x 3/4 x 4-1/2"	31.50
LTTHS1/4	1/4"	3/8 x 7/8 x 5"	33.30
LTTHS5/16	5/16"	1/2 x 1-1/8 x 6"	36.00
LTTHS3/8	3/8"	5/8 x 1-3/8 x 7"	49.50
LTTHS7/16	7/16"	3/4 x 1-5/8 x 8"	80.00
LTTHS1/2	1/2"	7/8 x 1-3/4 x 9"	91.80
RIGHT HAND			
LTTHR1/8	1/8"	5/16 x 1/2 x 4"	31.50
LTTHR3/16	3/16"	5/16 x 3/4 x 4-1/2"	31.50
LTTHR1/4	1/4"	3/8 x 7/8 x 5"	33.30
LTTHR5/16	5/16"	1/2 x 1-1/8 x 6"	36.00
LTTHR3/8	3/8"	5/8 x 1-3/8 x 7"	49.50
LTTHR7/16	7/16"	3/4 x 1-5/8 x 8"	80.00
LTTHR1/2	1/2"	7/8 x 1-3/4 x 9"	120.00
LEFT HAND			
LTTHL1/8	1/8"	5/16 x 1/2 x 4"	31.50
LTTHL3/16	3/16"	5/16 x 3/4 x 4-1/2"	31.50
LTTHL1/4	1/4"	3/8 x 7/8 x 5"	33.30
LTTHL5/16	5/16"	1/2 x 1-1/8 x 6"	36.00
LTTHL3/8	3/8"	5/8 x 1-3/8 x 7"	49.50
LTTHL7/16	7/16"	3/4 x 1-5/8 x 8"	72.00
LTTHL1/2	1/2"	7/8 x 1-3/4 x 9"	120.00

DROP HEAD TOOL HOLDER

- Manufactured from high grade steel
- Toolbits are held parallel and straight to the shank giving maximum support to the cutting edge
- Locking mechanism enables the blade to be held securely



Description			
GROUP > ENGG			
Part No.	Tool Size - Bevelled	Shank Size	Price
LTTHDS1/8	1/8"	7/16 x 9/16 x 4-1/2"	31.50
LTTHDS3/16	3/16"	1/2 x 5/8 x 5"	31.50
LTTHDS1/4	1/4"	5/8 x 3/4 x 6"	33.30
LTTHDS5/16	5/16"	3/4 x 7/8 x 7"	36.00
LTTHDS3/8	3/8"	7/8 x 1 x 8"	49.50
LTTHDS7/16	7/16"	1 x 1-1/8 x 9"	72.00
LTTHDS1/2	1/2"	1-1/8 x 1-1/4 x 10"	108.00

BORING BARS

- Manufactured from high grade steel
- Accept standard high speed steel or carbide toolbits
- Supplied with a hex key
- One end is 90°, other end is 45°
- Ability to vary the length of the boring bit and to rotate the tool in the holder



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Shank Size	Tool Size	Price
LTBB1/8	9.5mm Dia	1/8"	28.80
LTBB3/16	11mm Dia	3/16"	31.50
LTBB1/4	14mm Dia	1/4"	40.50
LTBB5/16	16mm Dia	5/16"	54.00
LTBB3/8	22mm Dia	3/8"	72.00

FLY TOOL CUTTER

- Manufactured from high grade steel
- Angle provides maximum sweep diameter with minimum tool projection
- 1/2" shank fully counter-balanced to give a smooth finish



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Fly Cutter Dia	Tool Size	Price
LTFTC12-19	12mm x 19mm	3/16"	28.80
LTFTC12-32	12mm x 32mm	1/4"	34.20
LTFTC12-38	12mm x 38mm	5/16"	37.80
LTFTC12S	3pc set of the above sizes		90.00
LTFTC19-38	19mm x 38mm	5/16"	37.80
LTFTC19-50	19mm x 50mm	5/16"	41.40
LTFTC19-63	19mm x 63mm	5/16"	45.00
LTFTC19S	3pc set of the above sizes		108.00

SQUARE TOOL STEEL - HSS

- Accurately ground bevel section with clearance angle at cutting edge
- High speed steel
- Suitable for use on tougher materials and heavy duty applications that require increased depth of cut



Part No.	Description		Price
	GROUP	ENGG	
Part No.			Price
LTTS1/8	1/8" x 2 1/2"		5.85
LTTS3/16	3/16" x 3"		7.20
LTTS1/4	1/4" x 4"		9.00
LTTS5/16	5/16" x 4"		10.80
LTTS3/8	3/8" x 4"		10.35
LTTS7/16	7/16" x 4"		18.00
LTTS1/2	1/2" x 6"		19.80
LTTS5/8	5/8" x 4"		31.50
LTTS3/4	3/4" x 5"		43.20
LTTSC1/2	1/2 x 1/2 x 4" - Cobalt HSS		33.00
LTTSC1/4	1/4 x 1/4 x 4" - Cobalt HSS		15.00
LTTSC3/16	3/16 x 3/16 x 4" - Cobalt HSS		11.70
LTTSC3/8	3/8 x 3/8 x 4" - Cobalt HSS		21.60
LTTSC5/16	5/16 x 5/16 x 4" - Cobalt HSS		19.00

DEAD CENTRES

- Manufactured from high quality carbon steel
- Fully hardened to 60-63 HRC



		Description	
		GROUP >	ENGG
Part No.	Shank Size	Price	
LCDC1	MT1	18.00	
LCDC2	MT2	21.60	
LCDC3	MT3	32.94	
LCDC4	MT4	63.00	
LCDC5	MT5	108.00	

CARBIDE TIPPED DEAD CENTRES

- Manufactured from high quality carbon steel
- Carbide tips are brazed into a close tolerance socket for maximum strength
- Carbide tip centres are used where the workpiece hardness is close to or higher than that of carbon steel
- These tips impart more durability and are fully hardened to 60-63 HRC



		Description	
		GROUP >	ENGG
Part No.	Shank Size	Price	
LCDCT1	MT1	27.00	
LCDCT2	MT2	45.00	
LCDCT3	MT3	49.50	
LCDCT4	MT4	81.00	
LCDCT5	MT5	259.20	

REVOLVING LIVE CENTRES

- Manufactured from high quality carbon steel
- Point is precisely ground to 60°
- Built-in oil seals protect the bearings from coolants, dirt and swarf
- Preloaded needle roller bearings for radial load & heavy duty thrust ball bearings for axial load



		Description	
		GROUP >	ENGG
Part No.	Shank Size	Price	
LCLC1	MT1	90.00	
LCLC2	MT2	94.50	
LCLC3	MT3	112.50	
LCLC4	MT4	157.50	
LCLC5	MT5	213.75	

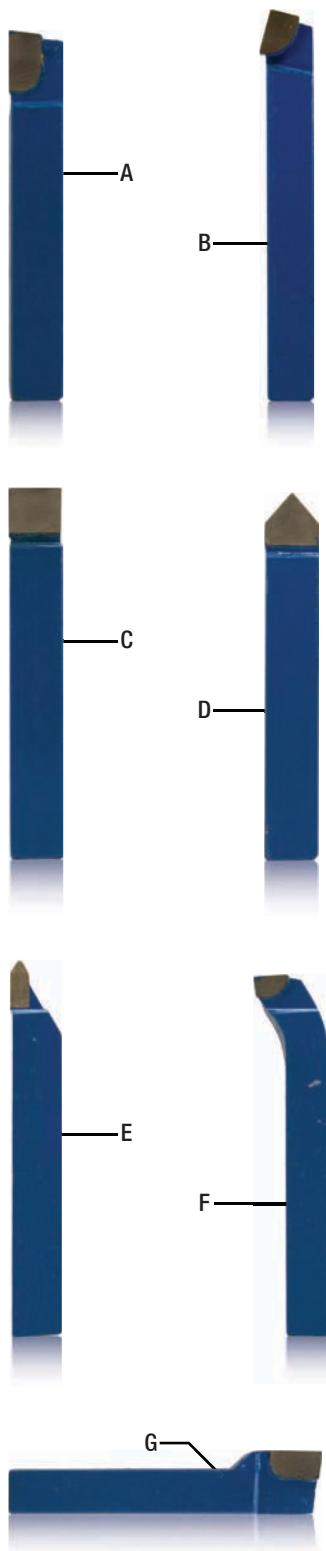
PIPE CENTRE



		Description	
		GROUP >	ENGG
Part No.	Shank Size	Price	
LCBN2	MT2 x 3"	200.00	
LCBN3	MT3 x 4"	270.00	
LCBN4	MT4 x 6"	460.00	
LCBN5	MT5 x 8"	750.00	

CARBIDE TIPPED TURNING TOOLS

- Manufactured from high quality steel
- Fully hardened and precision ground
- Available in a number of shapes
- Suitable for use on lathe machines
- P30 Grade carbide tips



Part No.	Description			Price
	GROUP	ENGG		
Part No.	Shape Type	Orientation	Size mm	Price
LTPTAR06	A	Right	6 X 6	37.80
LTPTAR08	A	Right	8 X 8	48.00
LTPTAR10	A	Right	10 X 10	45.90
LTPTAR12	A	Right	12 X 12	51.30
LTPTAR16	A	Right	16 X 16	61.65
LTPTAR20	A	Right	20 X 20	100.00
LTPTAL06	A	Left	6 X 6	37.80
LTPTAL08	A	Left	8 X 8	50.00
LTPTAL10	A	Left	10 X 10	45.90
LTPTAL12	A	Left	12 X 12	51.30
LTPTAL16	A	Left	16 X 16	61.65
LTPTBR06	B	Right	6 X 6	37.80
LTPTBR10	B	Right	10 X 10	45.90
LTPTBR12	B	Right	12 X 12	51.30
LTPTBR16	B	Right	16 X 16	61.65
LTPTBL06	B	Left	6 X 6	37.80
LTPTBL10	B	Left	10 X 10	45.90
LTPTBL12	B	Left	12 X 12	51.30
LTPTBL16	B	Left	16 X 16	61.65
LTPTC06	C	-	6 X 6	37.80
LTPTC10	C	-	10 X 10	45.90
LTPTC12	C	-	12 X 12	51.30
LTPTC16	C	-	16 X 16	61.65
LTPTD06	D	-	6 X 6	37.80
LTPTD10	D	-	10 X 10	45.90
LTPTD12	D	-	12 X 12	51.30
LTPTD16	D	-	16 X 16	61.65
LTPTER10	E	Right	10 X 10	64.00
LTPTER12	E	Right	12 X 12	68.00
LTPTER16	E	Right	16 X 16	80.00
LTPTEL10	E	Left	10 X 10	64.00
LTPTEL12	E	Left	12 X 12	68.00
LTPTEL16	E	Left	16 X 16	80.00
LTPTFR10	F	Right	10 X 10	47.70
LTPTFR12	F	Right	12 X 12	56.70
LTPTFR16	F	Right	16 X 16	70.20
LTPTFL10	F	Left	10 X 10	47.70
LTPTFL12	F	Left	12 X 12	56.70
LTPTFL16	F	Left	16 X 16	70.20
LTPTGR10	G	Right	10 X 10	47.70
LTPTGR12	G	Right	12 X 12	56.70
LTPTGR16	G	Right	16 X 16	70.20
LTPTGR20	G	Right	20 X 20	90.00
LTPTGL10	G	Left	10 X 10	47.70
LTPTGL12	G	Left	12 X 12	56.70
LTPTGL16	G	Left	16 X 16	70.20

LATHE CHUCKS

- Fully hardened and precisely ground
- Jaw teeth provide maximum grip on workpiece
- Comes with 2 sets of jaws



		Description	
		GROUP >	ENGG
Part No.			Price
LTLC3J080	80mm - 3 Jaw Self Centering		252.00
LTLC3J100	100mm - 3 Jaw Self Centering		270.00
LTLC3J125	125mm - 3 Jaw Self Centering		315.00
LTLC3J160	160mm - 3 Jaw Self Centering		414.00
LTLC3J200	200mm - 3 Jaw Self Centering		486.00

BORING HEADS

- Perfect tool for boring out accurate holes on a vertical mill or lathe
- To be used with boring bar set
- Boring head thread 1-1/2" - 18TPI requires an arbor



		Description	
		GROUP >	ENGG
Part No.	Size	Boring Bar Set	Price
LTBH2	2"	1/2"	262.80
LTBH3	3"	3/4"	396.00
LTBH4	4"	1"	535.50

BORING HEAD ARBOR

- Arbor to suit boring heads



		Description		
		GROUP >	ENGG	
Part No.	Shank	Thread	Tail Thread	Price
LTBHSM2	MT2	1-1/2" x 18 TPI	M10 x 1.5	115.20
LTBHSM3	MT3	1-1/2" x 18 TPI	M12 x 1.75	115.20
LTBHSM4	MT4	1-1/2" x 18 TPI	M16 x 2.0	117.90
LTBHSR8	R 8	1-1/2" x 18 TPI	7/16" - 20 UNF	117.90
LTBHSIS30	ISO 30	1-1/2" x 18 TPI	3/8" - 16 UNC	133.20
LTBHSIS40	ISO 40	1-1/2" x 18 TPI	5/8" - 11 UNC	213.30

CARBIDE TIPPED BORING BAR SET

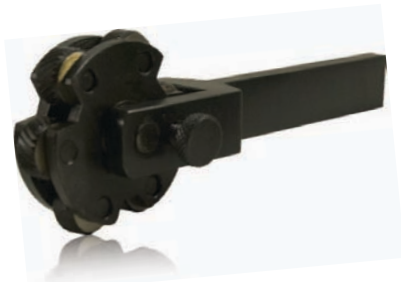
- Tungsten carbide tipped brazed boring bar sets
- Used with boring heads



Description			
Part No.	Size	Set	Price
LTBHBS1/2	1/2"	9pcs	132.30
LTBHBS3/4	3/4"	12pcs	205.20
LTBHBS1	1"	7pcs	226.80

KNURLING TOOL HOLDER

- Heat treated, tempered and has a black powder coated finish



Description					
Part No.	Type of Knurls	Size of Knurls	Knurls	Holder Size	Price
KTH1019	Straight - medium	3/4" x 1/4" x 1/4"	1 knurl	100 x 12 x 12mm	24.00
KTH1017	1pc each of right & left in medium	3/4" x 3/8" x 1/4"	2 knurls	115 x 12 x 12mm	40.00
KTH1015	2pc each of right & left in fine, medium & coarse	3/4" x 3/8" x 1/4"	6 knurls	165 x 25 x 25mm	120.00
AMERICAN TYPE					
KTH1755	1pc each of right & left in medium	5/8" x 5/16" x 7/32"	2 knurls	125 x 19 x 8mm	60.00
KTH1756	1pc each of right & left in medium	5/8" x 5/16" x 7/32"	2 knurls	138 x 22 x 9.5mm	60.00
KTH1758	1pc each of right & left in medium	3/4" x 3/8" x 1/4"	2 knurls	190 x 35 x 16mm	80.00
KTH1112	2pc each of right & left in fine, medium & coarse	5/8" x 5/16" x 7/32"	6 knurls	125 x 19 x 8mm	100.00
KTH1115	2pc each of right & left in fine, medium & coarse	3/4" x 3/8" x 1/4"	6 knurls	190 x 35 x 16mm	130.00
KTHCLAMP	1pc each of right & left in medium	3/4" x 3/8" x 1/4"	2 knurls	Cap: 1/6" to 2-1/4"	120.00

SPARE KNURL WHEELS

- Manufactured from high speed steel
- Fully hardened to over 60 HRC
- Chamfered faces on both sides that produce burr free work



		Description		
		GROUP >	ENGG	
Part No.	Shape	Type	Price	
5/8" x 5/16" x 7/32"				
KW58SF	Straight	Fine	14.40	
KW58SM	Straight	Medium	14.40	
KW58SC	Straight	Coarse	14.40	
KW58SEC	Straight	Extra Coarse	14.40	
KW58CF	Cross	Fine	14.40	
KW58CM	Cross	Medium	14.40	
KW58CC	Cross	Coarse	14.40	
KW58CEC	Cross	Extra Coarse	14.40	
KW58LF	Left	Fine	14.40	
KW58LM	Left	Medium	14.40	
KW58LC	Left	Coarse	14.40	
KW58LEC	Left	Extra Coarse	14.40	
KW58RF	Right	Fine	14.40	
KW58RM	Right	Medium	14.40	
KW58RC	Right	Coarse	14.40	
KW58REC	Right	Extra Coarse	14.40	
3/4" x 3/8" x 1/4"				
KW38SF	Straight	Fine	14.40	
KW38SM	Straight	Medium	14.40	
KW38SC	Straight	Coarse	14.40	
KW38SEC	Straight	Extra Coarse	14.40	
KW38CF	Cross	Fine	14.40	
KW38CM	Cross	Medium	14.40	
KW38CC	Cross	Coarse	14.40	
KW38CEC	Cross	Extra Coarse	14.40	
KW38LF	Left	Fine	14.40	
KW38LM	Left	Medium	14.40	
KW38LC	Left	Coarse	14.40	
KW38LEC	Left	Extra Coarse	14.40	
KW38RF	Right	Fine	14.40	
KW38RM	Right	Medium	14.40	
KW38RC	Right	Coarse	14.40	
KW38REC	Right	Extra Coarse	14.40	
3/4" x 3/8" x 1/4"				
KW14SF	Straight	Fine	14.40	
KW14SM	Straight	Medium	14.40	
KW14SC	Straight	Coarse	14.40	
KW14SEC	Straight	Extra Coarse	14.40	

MORSE TAPER TO JACOBS TAPER ARBOR

- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)
- Case hardened to 54-58 HRC
- Precisely ground to within 10µm



Part No.	Description	Price
	GROUP > ENGG	
DCAMJ11	MT1 - JT1	27.00
DCAMJ12	MT1 - JT2	22.50
DCAMJ13	MT1 - JT 3	22.50
DCAMJ133	MT1 - JT33	21.15
DCAMJ16	MT1 - JT6	19.80
DCAMJ21	MT2 - JT1	19.80
DCAMJ22	MT2 - JT2	19.80
DCAMJ23	MT2 - JT3	19.80
DCAMJ233	MT2 - JT33	19.80
DCAMJ24	MT2 - JT4	51.75
DCAMJ26	MT2 - JT6	21.60
DCAMJ31	MT3 - JT1	40.50
DCAMJ32	MT3 - JT2	25.20
DCAMJ33	MT3 - JT3	25.20
DCAMJ333	MT3 - JT33	26.10
DCAMJ34	MT3 - JT4	25.20
DCAMJ35	MT3 - JT5	81.00
DCAMJ36	MT3 - JT6	25.20
DCAMJ42	MT4 - JT2	49.50
DCAMJ43	MT4 - JT3	49.50
DCAMJ433	MT4 - JT33	50.40
DCAMJ44	MT4 - JT4	58.50
DCAMJ45	MT4 - JT5	122.40
DCAMJ46	MT4 - JT6	50.40
DCAMJ53	MT5 - JT3	122.40
DCAMJ54	MT5 - JT4	139.50
DCAMJ55	MT5 - JT5	153.00
DCAMJ56	MT5 - JT6	103.50

MORSE TAPER TO THREADED ARBOR

- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)
- Case hardened to 54-58 HRC
- Precisely ground to within 10µm



Part No.	Description	Price
	GROUP > ENGG	
DCAMT13824	MT1 x 3/8" x 24 TPI	37.80
DCAMT11220	MT1 x 1/2" x 20 TPI	37.80
DCAMT15816	MT1 x 5/8" x 16 TPI	37.80
DCAMT23824	MT2 x 3/8" x 24 TPI	40.50
DCAMT21220	MT2 x 1/2" x 20 TPI	40.50
DCAMT25816	MT2 x 5/8" x 16 TPI	45.00
DCAMT23416	MT2 x 3/4" x 16 TPI	40.50
DCAMT33824	MT3 x 3/8" x 24 TPI	45.00
DCAMT31220	MT3 x 1/2" x 20 TPI	45.00
DCAMT35816	MT3 x 5/8" x 16 TPI	45.00
DCAMT33416	MT3 x 3/4" x 16 TPI	45.00

MORSE TAPER TO DIN TAPER ARBOR

- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)
- Case hardened to 54-58 HRC
- Precisely ground to within 10µm



Part No.	Description	Price
	GROUP > ENGG	
DCAMD110	MT1 - B10	24.30
DCAMD112	MT1 - B12	24.30
DCAMD116	MT1 - B16	22.50
DCAMD118	MT1 - B18	26.10
DCAMD210	MT2 - B10	23.40
DCAMD212	MT2 - B12	20.70
DCAMD216	MT2 - B16	20.70
DCAMD218	MT2 - B18	20.70
DCAMD222	MT2 - B22	32.40
DCAMD312	MT3 - B12	25.20
DCAMD316	MT3 - B16	26.10
DCAMD318	MT3 - B18	26.10
DCAMD322	MT3 - B22	36.00
DCAMD324	MT3 - B24	43.20
DCAMD416	MT4 - B16	50.40
DCAMD418	MT4 - B18	50.40
DCAMD422	MT4 - B22	58.50
DCAMD424	MT4 - B24	72.00
DCAMD516	MT5 - B16	103.50
DCAMD518	MT5 - B18	103.50
DCAMD522	MT5 - B22	119.70
DCAMD524	MT5 - B24	144.00

STRAIGHT SHANK TO JACOBS TAPER ARBOR

- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)
- Case hardened to 54-58 HRC
- Precisely ground to within 10µm



Part No.	Description	Price
	GROUP > ENGG	
DCASJ121	1/2" Dia - JT1	48.60
DCASJ122	1/2" Dia - JT2	48.60
DCASJ123	1/2" Dia - JT3	48.60
DCASJ126	1/2" Dia - JT6	48.60
DCASJ 1233	1/2" Dia - JT33	48.60
DCASJ582	5/8" Dia - JT2	48.60
DCASJ583	5/8" Dia - JT3	48.60
DCASJ586	5/8" Dia - JT6	48.60
DCASJ5833	5/8" Dia - JT33	48.60
DCASJ342	3/4" Dia - JT2	48.60
DCASJ343	3/4" Dia - JT3	48.60
DCASJ346	3/4" Dia - JT6	48.60
DCASJ 3433	3/4" Dia - JT33	48.60
DCASJ13	1" Dia - JT3	81.00

STRAIGHT SHANK TO DIN TAPER ARBOR

- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)
- Case hardened to 54-58 HRC
- Precisely ground to within 10µm



Part No.	Description	Price
	GROUP > ENGG	
DCASD1212	1/2" Dia - B12	54.00
DCASD1216	1/2" Dia - B16	54.00
DCASD1218	1/2" Dia - B18	54.00
DCASD5816	5/8" Dia - B16	54.00

ISO TAPER TO JACOBS TAPER MILLING MACHINE ARBOR

- Fully hardened and ground
- Metric threads
- Manufactured from High Tensile Steel (SAE 8620)



		Description	
		GROUP >	ENGG
Part No.			Price
DCAMIJ302	ISO 30 - JT2		162.00
DCAMIJ303	ISO 30 - JT3		162.00
DCAMIJ306	ISO 30 - JT6		162.00
DCAMIJ403	ISO 40 - JT3		198.00
DCAMIJ406	ISO 40 - JT6		198.00

ISO TAPER TO DIN TAPER MILLING MACHINE ARBOR

- Fully hardened and ground
- Metric threads
- Manufactured from High Tensile Steel (SAE 8620)



		Description	
		GROUP >	ENGG
Part No.			Price
DCAMIB3016	ISO 30 - B16		162.00
DCAMIB3018	ISO 30 - B18		162.00
DCAMIB4016	ISO 40 - B16		198.00
DCAMIB4018	ISO 40 - B18		198.00

ISO TAPER TO MORSE TAPER MILLING ADAPTOR

- Fully hardened and ground
- Metric threads - M16 x 2.0



		Description	
		GROUP >	ENGG
Part No.			Price
MMAIM302	ISO 30 - MT2		103.50
MMAIM303	ISO 30 - MT3		117.00
MMAIM402	ISO 40 - MT2		135.00
MMAIM403	ISO 40 - MT3		144.00
MMAIM404	ISO 40 - MT4		162.00

EXTENSION DRILL SOCKET

- Used for extending length of taper shank
- Case hardened to 54-58 HRC
- Can be used to fit smaller MT shank tools to larger sockets and larger MT shank tools to smaller sockets
- Fully hardened and ground
- Accuracy to DIN 2187 standard



Part No.	Description		Price
	GROUP	ENGG	
	Outside	Inside	
DSEDS11	MT1	MT1	126.90
DSEDS12	MT1	MT2	128.70
DSEDS13	MT1	MT3	135.00
DSEDS21	MT2	MT1	135.00
DSEDS22	MT2	MT2	135.00
DSEDS23	MT2	MT3	135.00
DSEDS24	MT2	MT4	135.00
DSEDS31	MT3	MT1	150.00
DSEDS32	MT3	MT2	135.00
DSEDS33	MT3	MT3	148.50
DSEDS34	MT3	MT4	175.50
DSEDS35	MT3	MT5	189.00
DSEDS42	MT4	MT2	175.50
DSEDS43	MT4	MT3	183.60
DSEDS44	MT4	MT4	216.00
DSEDS45	MT4	MT5	256.50
DSEDS53	MT5	MT3	270.00
DSEDS54	MT5	MT4	270.00
DSEDS55	MT5	MT5	297.00
DSEDS56	MT5	MT6	405.00

DRILL SLEEVE

- Used to adapt smaller MT shank tools to larger machine spindles
- Fully hardened and ground
- Manufactured from High Tensile Steel (SAE 8620)



Part No.	Description		Price
	GROUP	ENGG	
	Outside	Inside	
DSS21	MT2	MT1	18.90
DSS31	MT3	MT1	24.30
DSS41	MT4	MT1	32.40
DSS51	MT5	MT1	40.50
DSS32	MT3	MT2	24.30
DSS42	MT4	MT2	27.00
DSS52	MT5	MT2	45.90
DSS43	MT4	MT3	29.70
DSS53	MT5	MT3	45.90
DSS54	MT5	MT4	45.90

DRILL DRIFT

- Use to remove taper shank drills and reamers from sleeves and sockets
- Drop forged from medium carbon steel



		Description	
		GROUP >	ENGG
Part No.	Covers Sizes		Price
DSDD1-2	MT1 & MT2		13.50
DSDD2-3	MT2 & MT3		15.00
DSDD3-4	MT3 & MT4		20.70
DSDD4-5	MT4 & MT5		31.50
DSDD5-6	MT5 & MT6		54.00

MORSE TAPER STANDARD SIZES FOR DRILLS & REAMERS

	Metric	Imperial
MT1	3.0 to 14mm	1/8" to 35/64"
MT2	14.5 to 23mm	9/16" to 29/32"
MT3	23.5 to 31.5mm	59/64" to 1-1/4"
MT4	32.0 to 50.5mm	1-17/64" to 2"
MT5	51.0 to 76mm	2-1/32" to 3"

BENCH VICE PROFESSIONAL

- Manufactured from high quality grey iron castings, a very strong material with excellent shock absorbing capabilities and immense strength under compression
- Suitable for industrial, agricultural and mechanical engineering applications
- Jaws are hardened to 45±5 HRC



		Description	
		GROUP	VICE
Part No.			Price
VBV100		100mm Jaw	116.00
VBV150		150mm Jaw	236.00
VBVSB100		Swivel Base for 100mm Vice	36.36
VBVSB150		Swivel Base for 150mm Vice	36.36

ECONOMY DRILL PRESS VICE

- Ideal for general purpose applications



		Description	
		GROUP	VICE
Part No.			Price
VDP100		100mm Jaws	30.00
VDP125		125mm Jaws	42.00
VDP150		150mm Jaws	55.00

PROFESSIONAL DRILL PRESS VICE

- Manufactured from graded cast iron
- Fixed jaw with longitudinal and transversal prisms
- 3 fully ground precision mounting surfaces
- Spindle moves inside the hollow grip allowing the vice to be used away from the table edge
- Precision ground base and vice bed for smooth lateral movement of jaw
- Vice can be tightened in any position on the table, hence increasing the scope of application



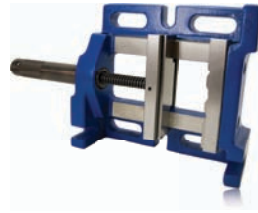
		Description	
		GROUP	VICE
Part No.			Price
VIDPP100		100mm Professional Vice	119.00

PROFESSIONAL DRILL PRESS VICE - 3 WAY

- Manufactured from graded cast iron
- 3 fully ground precision mounting surfaces
- 3 mounting options allow for drilling along all axis and can hold long workpieces
- Fixed jaw with longitudinal and transversal prisms
- Spindle moves inside the hollow grip allowing the vice to be used away from the table edge
- Precision ground base and vice bed for smooth lateral movement of jaw
- Vice can be tightened in any position on the table, hence increasing the scope of application



		Description
		GROUP >> VICE
Part No.		Price
VIDP3100	100mm / 4"	179.00



MILLING MACHINE VICE

- Ideal for applications where workpiece requires machining at an angle
- Swivel base enables 360° rotation of vice
- Precision ground jaws allow the work piece to be held dead square and reduces the strain on the body of the vice

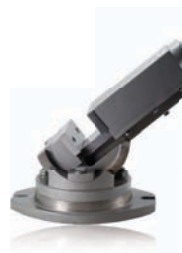


		Description
		GROUP >> VICE
Part No.		Price
VMV100	100mm / 4"	243.00
VMV125	125mm / 5"	351.00
VMV150	150mm / 6"	396.00

ANGULAR MACHINE SUPER PRECISION VICE

- Ideal for applications where workpiece requires machining at an angle
- Fully graduated angular slide on either side enables the vice to lay flat or stand up vertically
- Swivel base enables 360° rotation of vice
- Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground steel jaws
- Ergonomically designed handle allows stress free operation
- Milled slot in vice base allows for accurate placement of vice on machine table using rectangular locating nuts

Part No.	Description			Price
	Jaw Width	Jaw Opening	Weight	
VSPAM075	3" / 75mm	3" / 75mm	9.35kg	540.00
VSPAM100	4" / 100mm	4" / 100mm	17.00kg	672.00
VSPAM125	5" / 125mm	5" / 125mm	29.45kg	1027.50
VSPAM150	6" / 150mm	6" / 150mm	42.80kg	1207.50



THREE WAY TILTING SUPER PRECISION VICE

- Ideal for applications where workpiece requires machining at an angle
- Fully graduated angular slide on either side enables the vice to lay flat or stand up vertically with an additional slide allowing up to 45° of rotation left or right
- Swivel base enables 360° rotation of vice
- Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground steel jaws
- Ergonomically designed handle allows stress free operation
- Milled slot in vice base allows for accurate placement of vice on machine table using rectangular locating nuts

Part No.	Description			Price
	Jaw Width	Jaw Opening	Weight	
VSPTT100	4" / 100mm	4" / 100mm	20.50kg	997.50
VSPTT125	5" / 125mm	5" / 125mm	36.00kg	1470.00
VSPTT150	6" / 150mm	6" / 150mm	54.00kg	1830.00



UNIVERSAL SUPER PRECISION VICE

- Ideal for applications where workpiece requires machining at an angle
- Most versatile of all machines as it has the most degrees of freedom, can be rotated along 3 axis
- Swivel base enables 360° rotation of vice
- Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground steel jaws
- Ergonomically designed handle allows stress free operation
- Milled slot in vice base allows for accurate placement of vice on machine table using rectangular locating nuts

	Description			Price
	GROUP >>	VICE		
Part No.	Jaw Width	Jaw Opening	Weight	
VSPUV100	4" / 100mm	4" / 100mm	13.40kg	990.00



MILLING MACHINE SUPER PRECISION VICE

- Ideal for applications where workpiece requires machining at an angle
- Accurately ground swivel base surface with a flatness within 0.0012" or 30 microns
- Swivel base enables 360° rotation of vice
- Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground steel jaws
- Ergonomically designed handle allows stress free operation
- Milled slot in vice base allows for accurate placement of vice on machine table using rectangular locating nuts

	Description			Price
	GROUP >>	VICE		
Part No.	Jaw Width	Jaw Opening	Weight	
VSPMM100	4" / 100mm	4" / 100mm	17.40kg	585.00
VSPMM150	6" / 150mm	6" / 150mm	38.80kg	990.00



SELF-CENTERING SUPER PRECISION VICE

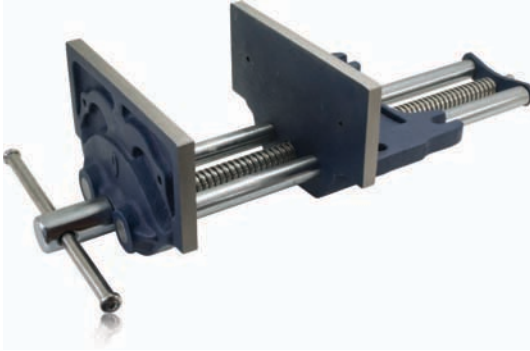
- Ideal for applications where workpiece requires machining at an angle
- Allows for accurate centering of jobs, automatically
- Ideal for recurring jobs where the size of the workpiece varies
- Swivel base enables 360° rotation of vice
- Manufactured from close grained high tensile seasoned cast iron with fully hardened and ground steel jaws
- Ergonomically designed handle allows stress free operation
- Milled slot in vice base allows for accurate placement of vice on machine table using rectangular locating nuts



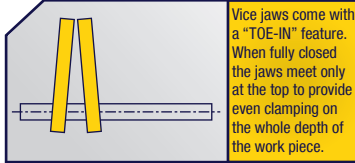
		Description			
		GROUP	VICE		
Part No.	Jaw Width	Jaw Opening	Weight	Price	
VSPSC100	4" / 100mm	4" / 100mm	14.30kg	622.50	

PLAIN SCREW VICE

- Manufactured from close-grained grey cast iron
- Square body seating allows easy fitment under the bench top so that the jaws are flush with the bench top
- Accurately machined housing for smooth operation



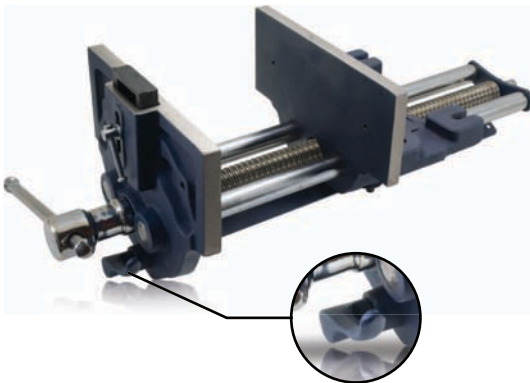
Description				
GROUP >		VICE		
Part No.	Jaw Width	Jaw Opening	Weight	Price
VWPS175	7" / 175mm	8" / 200mm	7.25kg	111.00
VWPS225	9" / 225mm	13" / 330mm	13.75kg	160.00



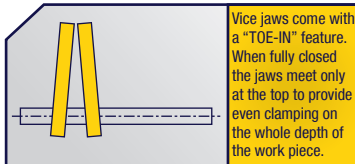
Vice jaws come with a "TOE-IN" feature. When fully closed the jaws meet only at the top to provide even clamping on the whole depth of the work piece.

QUICK RELEASE VICE

- Manufactured from high quality grey iron castings, a very strong material with excellent shock absorbing capabilities and immense strength under compression
- Suitable for industrial, agricultural and mechanical engineering applications
- Jaws are hardened to 45±5 HRC



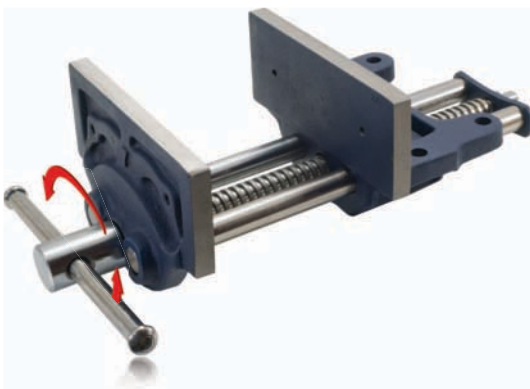
Description				
GROUP >		VICE		
Part No.	Jaw Width	Jaw Opening	Weight	Price
VWQR175	7" / 175mm	8" / 200mm	8.25kg	132.00
VWQR225	9" / 225mm	13.5" / 340mm	15.50kg	198.00
VWQR270	10.5" / 270mm	16" / 400mm	17.00kg	208.00



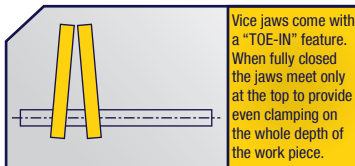
Vice jaws come with a "TOE-IN" feature. When fully closed the jaws meet only at the top to provide even clamping on the whole depth of the work piece.

RAPID ACTION VICE

- Manufactured from close-grained grey cast iron
- As soon as the handle is turned anti-clockwise the screw is disengaged and the front jaw slides freely
- Square body seating allows easy fitment under the bench top so that the jaws are flush with the bench top
- Accurately machined housing for smooth operation
- Great for repetitive work



Description				
GROUP >		VICE		
Part No.	Jaw Width	Jaw Opening	Weight	Price
VWRA175	7" / 175mm	8" / 200mm	7.25kg	140.00
VWRA225	9" / 225mm	13" / 330mm	13.75kg	210.00



Vice jaws come with a "TOE-IN" feature. When fully closed the jaws meet only at the top to provide even clamping on the whole depth of the work piece.

HAND TIGHTENING PLASTIC & METAL CHUCK

- Knurled body for positive grip
- Tightening ring is ergonomically designed to reduce slippage whilst tightening



Part No.	Description			Price
	Capacity	Mount	Sleeve	
DCHTP1038	10mm	3/8" x 24	Plastic + Metal	33.00
DCHTP1012	10mm	1/2" x 20	Plastic + Metal	33.00
DCHTP1338	13mm	3/8" x 24	Plastic + Metal	44.00
DCHTP1312	13mm	1/2" x 20	Plastic + Metal	44.00

HAND TIGHTENING FULL METAL BODY CHUCK

- Knurled body for positive grip and reduced slippage whilst tightening
- Hammer capable
- Can be used for impact drills
- Suitable for use in reversible drills



Part No.	Description			Price
	Capacity	Mount	Sleeve	
DCHTPMC1312	13mm	1/2" x 20	Full Metal	55.00
DCHPTMC1338	13mm	3/8" x 24	Full Metal	52.80

KEYED CHUCK

- Knurled body for positive grip and reduced slippage whilst tightening



Part No.	Description			Price
	Capacity	Mount	Key	
DCKTHP1038	10mm	3/8" x 24	S2	19.80
DCKTHP1012	10mm	1/2" x 20	S2	19.80
DCKTHP1338	13mm	3/8" x 24	S2	24.20
DCKTHP1312	13mm	1/2" x 20	S2	24.20
DCKTHP1612	16mm	1/2" x 20	S2	66.00
DCKTHP1658	16mm	5/8" x 16	S2	55.00

KEYED HEAVY DUTY CHUCK

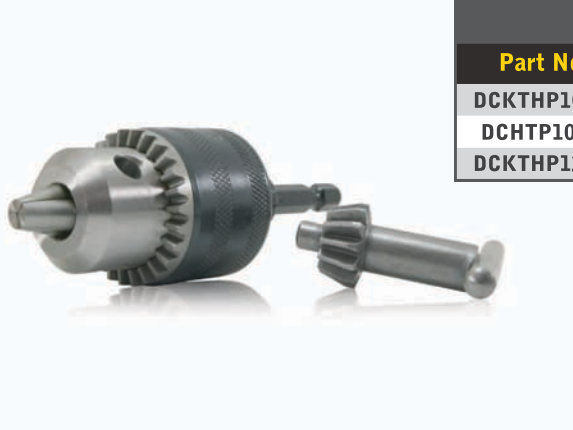
- Knurled body for positive grip and reduced slippage whilst tightening
- Heavy duty chuck
- Made to Japanese standards



		Description			
		GROUP >	ENGG		
Part No.	Capacity	Mount	Key	Price	
DCKTBB1312	13mm	1/2" x 20	S8	46.20	
DCKTBB1338	13mm	3/8" x 24	S8	46.20	

DRILL CHUCK WITH SCREW DRIVER SHANK

- Knurled body for positive grip and reduced slippage whilst tightening
- Available as a keyed or keyless chuck



		Description			
		GROUP >	ENGG		
Part No.	Chuck	Capacity	Shank	Key	Price
DCKTHP10HA	Keyed	10mm	1/4" Hex	S2	30.58
DCHTP10HA	Keyless	10mm	1/4" Hex	S2	38.50
DCKTHP13HX	Keyed	13mm	1/4" Hex	S2	35.20

DRILL CHUCK WITH SDS SHANK

- Knurled body for positive grip and reduced slippage whilst tightening
- Available as a keyed or keyless chuck



		Description			
		GROUP >	ENGG		
Part No.	Chuck	Capacity	Shank	Key	Price
DCKTHP13SD	Keyed	13mm	SDS	S2	35.20
DCHTP13SD	Keyless	13mm	SDS	S2	55.00

KEYED CHUCK WITH TAPERED MOUNT

- Rugged all steel construction
- Suitable for use in drill press, milling machines and all types of lathes



Part No.	Description				Price
	Capacity	Mount	Quality	Key	
GROUP >> ENGG					
DCKTA10J2	10mm	JT2	Heavy Duty	S2	44.00
DCKTA10B12	10mm	B12	Heavy Duty	S2	44.00
DCKTA10B16	10mm	B16	Heavy Duty	S2	44.00
DCKTA13J6	13mm	JT6	Heavy Duty	S2	55.00
DCKTA13J33	13mm	JT33	Heavy Duty	S2	55.00
DCKTA13B12	13mm	B12	Heavy Duty	S2	55.00
DCKTA13B16	13mm	B16	Heavy Duty	S2	55.00
DCKTA16J3	16mm	JT3	Heavy Duty	S3	66.00
DCKTA16J6	16mm	JT6	Heavy Duty	S3	66.00
DCKTA16J33	16mm	JT33	Heavy Duty	S3	66.00
DCKTA16B16	16mm	B16	Heavy Duty	S3	66.00
DCKTA16B18	16mm	B18	Heavy Duty	S3	66.00
DCKTA20J3	20mm	JT3	Heavy Duty	S3	121.00

KEYED CHUCK AND ARBOR FOR PEDESTAL DRILLS



Part No.	Description			Price
	Capacity	Arbor	Key	
GROUP >> ENGG				
DCKTA13MT2	13mm	MT2	S2	68.20
DCKTA13MT3	13mm	MT3	S2	70.40
DCKTA16MT2	16mm	MT2	S3	81.40
DCKTA16MT3	16mm	MT3	S3	85.80

KEYLESS DRILL CHUCK

- Rugged all steel drill chucks
- Suitable for use in drill presses, milling machines and all types of lathes
- Industrial grade



Part No.	Description			Price
	Capacity	Mount		
DCIN1038	10mm	3/8" x 24		88.00
DCIN1012	10mm	1/2" x 20		88.00
DCIN10J2	10mm	JT2		88.00
DCIN10B12	10mm	B12		88.00
DCIN1338	13mm	3/8" x 24		99.00
DCIN1312	13mm	1/2" x 20		88.00
DCIN13J2	13mm	JT2		99.00
DCIN13J33	13mm	JT33		99.00
DCIN13J6	13mm	JT6		99.00
DCIN13J3	13mm	JT3		99.00
DCIN13B16	13mm	B16		99.00
DCIN13B18	13mm	B18		99.00
DCIN1612	16mm	1/2" x 20		99.00
DCIN1658	16mm	5/8" x 16		99.00
DCIN16J33	16mm	JT33		110.00
DCIN16J6	16mm	JT6		110.00
DCIN16J3	16mm	JT3		110.00
DCIN16B16	16mm	B16		99.00
DCIN16B18	16mm	B18		99.00

KEYLESS CHUCK AND ARBOR SET

- Rugged all steel drill chucks
- Suitable for use in drill presses, milling machines and all types of lathes
- Industrial grade



Part No.	Description			Price
	Capacity	Arbor		
DCIN13MT2	13mm	MT2	-	99.00
DCIN13MT3	13mm	MT3	-	99.00
DCIN16MT2	16mm	MT2	-	121.00
DCIN16MT3	16mm	MT3	-	132.00

KEYLESS DRILL CHUCK HIGH PERFORMANCE

- Excellent chuck where performance really matters
- Rugged all steel drill chucks
- Suitable for use in drill presses, milling machines and all types of lathes
- Industrial grade



Part No.	Description				Price
	Capacity	Mount	Precision	Weight	
DCLLP13J6	0.2 - 13mm	JT6	0.05mm	0.95kg	180.00
DCLLP16J6	0.2 - 16mm	JT6	0.05mm	1.27kg	220.00

RIGHT ANGLE DRILL ATTACHEMENT



Part No.	Description		Price
	GROUP	ENG	
PWAAJS	Capacity 10mm		90.00

KEYS FOR DRILL CHUCKS



Part No.	Description			Price
	ROHM Part	JACOBS Part	LFA Part	
DKEYKG	S14	KG	C14	4.95
DKEYK0	-	K0	-	17.10
DKEYK1	S7	K1	-	8.10
DKEYS2	S2	K8/10, S2	C2	5.40
DKEYK2	-	K2	-	10.35
DKEYS3	S3	-	C3	9.90
DKEYK3	S10	K3	-	13.50
DKEYS4	S4	-	-	36.00
DKEYK4	S13	K4	-	17.10
DKEYS8	S8	K30	C30	12.00
DKEYK32	S9	K32	-	11.25
DKEYKK	-	KK	-	11.70

KEYS COMPARISON TABLE

INTECH Part	Description		Pilot Diameter		No. of Teeth
	JACOBS Part	ROHM Part	mm	inch	
DKEYK0	K0	-	3/17	1/8	11
DKEYK1	K1	S7	3.97	4/32	11
DKEYK2	K2	-	6.35	1/4	11
DKEYK3	K3	S10	7.94	5/16	11
DKEYK32	K32	S9	6.35	1/4	10
DKEYK4	K4	S13	9.52	3/8	12
DKEYKG	KG	S14	6.35	1/4	11
DKEYKK	KK	-	8.73	11/32	10
DKEYS2	KD8/10, S2	S2	6.00	-	12
DKEYS3	-	S3	8.00	-	12
DKEYS4	-	S4	9.00	-	14
DKEYS8	K30	S8	5.95	16/64	10

ADAPTORS FOR DRILL CHUCKS



USEFUL INFORMATION ?

- DCTA51: Enables drills having female threads to use normal 3/8" chucks.
- DCTA52: Used to connect female threads 3/8" x 24 and 1/2" x 20.
- DCTA53: Enables any 1/2" chuck to be used by an SDS+ Hammer.
- DCTA54: Enables any screwdriver using 1/4" Hex to be used as a drill
- DCTA55 & DCTA56: Used with 3/8" spindle drill 1/2" threaded chucks.
- DCTA57: Used with 1/2" spindle drill & 5/8" x 16 threaded chucks.

Description		
GROUP >		ENGG
Part No.		Price
DCTA51	Adaptor 3/8"x 24 Male to 3/8"x24 Male	5.00
DCTA52	Adaptor 3/8"x 24 Male to 1/2"x20 Male	8.10
DCTA53	Adaptor 1/2"x 20 to SDS - PLUS	25.00
DCTA54	Adaptor 3/8"x 24 to Hex 1/4"	16.00
DCTA55	Adaptor 1/2"x 20 Male to 3/8"x24 Female hex	8.10
DCTA56	Reducing Bush 1/2"x20 to 3/8"x24	7.20
DCTA57	Reducing Bush 5/8x16 to 1/2"x20	9.90

HSS PLANER BLADES



Part No.	Description	Price
	GROUP > ENGG	
PWPBM19	Makita 1900 B	13.50
PWPBH20	Hitachi F 20 A	13.50
PWPBH30	Hitachi F 30 A	18.00

CARBIDE PLANER BLADES

- Reversible carbide straight blades



Part No.	Description	Price
	GROUP > ENGG	
PWPTC82	82 mm TC planer reversible blades – display card	13.50
PWPTC82B	Pack of 10 sets – 82 mm TC blades	117.00
PWPTC80	80.5mm TC planer blades	18.00

ADAPTOR FOR CARBIDE PLANER BLADES

- 3mm thick plate
- Chroma plated finish
- Suits Makita models: 1100, 1125, 1900, 1900B, 1923B, N1900B, 1923H
- Suits Hitachi models: F20, FU20, F20A, P20SA, P20SB
- Suits Ryobi models: L1323A, HL82, L282



Part No.	Description	Price
	GROUP > ENGG	
PWPTCA82	Adaptor set for 82mm TC sleeves	18.00

CARBIDE PLANER BLADES & ADAPTOR SET

- Includes carbide planer blades & adaptors for carbide planer blades



Description		
GROUP >		ENGG
Part No.		Price
PWPTCS82	82mm TC sleever + adaptor	27.00

PIN SPANNER

- PWPIN35 fits most 4½" to 9" angle grinders, sanders and polishers
- PWPIN20 fits 4" angle grinders from Makita, Bosch and some Hitachi models



Description		
GROUP >		ENGG
Part No.		Price
PWPIN35	35mm spacing, 5mm pin dia.	9.90
PWPIN20	20mm spacing, 4mm pin dia.	6.00
PWPINAJ	Adjustable spacing, suits nearly all configurations	12.60

WELDING CHALK

- Great for marking steel, concrete, masonry & timber
- Water resistant
- Industrial quality



Description		
GROUP >		ENGG
Part No.		Price
PEEC	10x10mm sticks: Box of 50pcs	12.60
PEECB	10x10mm sticks: 20 Boxes	234.00
PEECS	10x5mm sticks: Box of 100pcs	21.15
PEECSB	10x5mm sticks: 20 Boxes	420.00

BACKING PADS FOR ANGLE GRINDERS

- For angle grinders and polishing machines
- Made in Europe



Part No.	Description		Price
	GROUP	ENGG	
Part No.	Thread Size	Type/Colour	Price
PWBP100S	100mm - M10 x 1.25	Black	9.90
PWBP100	100mm - M10 x 1.5	Black	9.90
PWBPT100	100mm - M10 x 1.5	Turbo	18.00
PWBP115	115mm - M14 x 2	Black	14.40
PWBPW115	115mm - M14 x 2	White	18.00
PWBPT115	115mm - M14 x 2	Turbo	18.00
PWBP125	125mm - M14 x 2	Black	16.65
PWBPW125	125mm - M14 x 2	White	18.00
PWBPT125	125mm - M14 x 2	Turbo	18.00
PWBP178	178mm - M14 x 2	Black	18.00
PWBPW178	178mm - M14 x 2	White	22.50
PWBPT178	178mm - M14 x 2	Turbo	22.50

BACKING PADS FOR MAKITA & FESTO SANDERS

- For sanders by Makita & Festo
- Made in Europe



Part No.	Description		Price
	GROUP	ENGG	
Part No.			Price
PWBPSM	Makita orbital sander velcro backing - 9 hole		60.00
PWBPSF	Festo orbital sander velcro backing - 9 hole		60.00
PWBPSFP	Festo orbital sander PSA backing - 9 hole		76.00
PWBPSF6	Festo orbital sander velcro backing - 6 hole		76.00
PWBPSF6P	Festo orbital sander PSA backing - 6 hole		76.00

POLISHING BONNETS



Part No.	Description		Price
	GROUP	ENGG	
Part No.			Price
PEPB125	125mm - Lambswool Bonnet	String Tie	7.00
PEPB200	185mm - Lambswool Bonnet	String Tie	12.00

DIAMOND WHEEL DRESSERS

- Manufactured with quality industrial diamonds
- Used to 'true' a grinding wheel to a higher degree of accuracy
- Rapid dressing, reshaping, deglazing all grinding wheels



		Description	
		GROUP >	ENGG
Part No.	Thread Size		Price
PWDIA05	0.50ct - wheels up to 200mm		35.00
PWDIA10	1.00ct - wheels over 200mm		60.00

DIAMOND WHEEL DRESSER - WORKING FACE

- Useful for dressing across width of grinding wheel
- Produces flatter surface than conventional diamond dressers



		Description	
		GROUP >	ENGG
Part No.			Price
PWDIABL	Working face 12x45mm, 12mm dia shank		65.00

WHEEL DRESSER - CUTTER TYPE

- Used for dressing, truing and removal of glaze from grinding wheels
- Ergonomically designed handle is heat treated for extra strength



		Description	
		GROUP >	ENGG
Part No.			Price
PWWD0	Dresser #0 - for small grinders		27.90
PWWD1	Dresser #1 - for 8"/200mm grinders		32.40
PWWD2	Dresser #2 - for large grinders		55.80
PWWDC0	Spare cutters for dresser #0		7.20
PWWDC1	Spare cutters for dresser #1		9.90
PWWDC2	Spare cutters for dresser #2		14.40

FLANGE SET - 3pc

- Flange 14x2.0mm (45mm diameter)
- Hard Washer (82mm diameter)
- Bottom Flange (82mm diameter)



Part No.	Description	Price
	GROUP > ENGG	
PWFGS3	Flange Set 3pc	27.00

TAPER SPINDLES FOR BENCH GRINDERS

- Used on bench grinders for fitting various mops
- Smaller spindles suit straight grinders



Part No.	Description	Price
	GROUP > ENGG	
PWTS ML12	12mm – left	18.90
PWTS MR12	12mm – right	18.90
PWTS BL1/2	1/2" BSW – left	18.90
PWTS BR1/2	1/2" BSW – right	18.90
PWTS ML16	16 mm – left	21.60
PWTS MR16	16 mm – right	21.60
PWTS BL5/8	5/8" BSW – left	21.60
PWTS BR5/8	5/8" BSW – right	21.60
PWTS UL5/8	5/8" UNF – left	21.60
PWTS UR5/8	5/8" UNF – right	21.60
PWTS MR14	14mm right for straight grinder	18.90

POLISHING MOPS SISAL STITCHED



Part No.	Description		Price
	GROUP >	ENGG	
Part No.	Capacity		Price
PEMSS501	50mm - 1 Section		9.90
PEMSS502	50mm - 2 Sections		14.85
PEMSS751	75mm - 1 Section		9.90
PEMSS752	75mm - 2 Sections		17.82
PEMSS1001	100mm - 1 Section		11.88
PEMSS1002	100mm - 2 Sections		21.78
PEMSS1501	150mm - 1 Section		16.83
PEMSS1502	150mm - 2 Sections		26.73
PEMSS2001	200mm - 1 Section		19.80
PEMSS2002	200mm - 2 Sections		32.67

POLISHING MOPS CALICO UNSTITCHED



Part No.	Description		Price
	GROUP >	ENGG	
Part No.	Capacity		Price
PEMCU5005	50mm x 50 fold		26.73
PEMCU5010	50mm x 100 fold		20.79
PEMCU7505	75mm x 50 fold		17.82
PEMCU7510	75mm x 100 fold		22.27
PEMCU10005	100mm x 50 fold		14.85
PEMCU10010	100mm x 100 fold		23.76
PEMCU15005	150mm x 50 fold		23.76
PEMCU15010	150mm x 100 fold		38.61
PEMCU15015	150mm x 150 fold		44.55
PEMCU15020	150mm x 200 fold		69.30
PEMCU20005	200mm x 50 fold		37.62
PEMCU20010	200mm x 100 fold		55.44
PEMCU20015	200mm x 150 fold		79.20
PEMCU20020	200mm x 200 fold		94.05
PEMCU25005	250mm x 50 fold		44.55
PEMCU25010	250mm x 100 fold		84.15

POLISHING MOPS RAG STITCHED



Part No.	Description		Price
	GROUP	ENGG	
PEMRS 501	Capacity		
PEMRS 501	50mm - 1 Section		11.88
PEMRS 502	50mm - 2 Sections		19.80
PEMRS 751	75mm - 1 Section		12.87
PEMRS 752	75mm - 2 Sections		20.79
PEMRS 1001	100mm - 1 Section		15.84
PEMRS 1002	100mm - 2 Sections		21.78
PEMRS 1501	150mm - 1 Section		21.78
PEMRS 1502	150mm - 2 Sections		29.70
PEMRS 2001	200mm - 1 Section		21.78
PEMRS 2002	200mm - 2 Sections		35.64

POLISHING COMPOUNDS

- Different compounds are used for polishing different materials to various finishes



Part No.	Description		Price
	GROUP	ENGG	
PEPCHYF	Compound : White	HYFIN	18.00
PEPCVFI	Compound : Green	V. FINE	28.00
PEPCTRI	Compound : Brown	TRIPOLI	18.00
PEPCFER	Compound : Grey	FERROPOL	13.86
PEPCMUL	Compound : Blue	MULTISHINE	21.00
PEPCSTE	Compound : Wax	STEARENE	20.00
PEPCALY	Aluminium Lubricant		20.90

POLISHING TIPS

- Never contaminate or cross use mops
- Sisal (rope) mops are used for cutting back or deep scratch eradication
- Rag mop is used for heavy polishing of light scratches and dull lustre polishing
- Loose leaf mop is used for finish polishing or high lustre polishing
- Ferropol (grey) is used for cutting back - sisal mop
- Tripoli (red) is used for cutting back - stitched mop
- Hyfin (white) is used for quality finish on alloys - loose leaf
- Rouge (green) is used for high gloss finish on brass, copper, stainless steels and aluminium - loose leaf
- Blue compound is used for plastics, silver, gold & die cast metals - loose leaf
- Brown compound is used for general purpose lustre - loose leaf
- Select the correct mop and compound for the job, avoid using different compounds on one mop and keep a separate mop for each compound. Dress the mop with the compound across the face of the mop whilst it is rotating for a few seconds - do not apply too much soap to mop. Use light pressure moving job back & forth until desired finish is achieved. Remove excess compound (scuffing) with mineral turps or methylated spirits.

Polishing Compound	Best for Polishing	Mops to be used with
Tripoli	Copper, Brass, Aluminium, non-ferrous metals & plastics. General purpose compound for first stage polishing.	Rag Mops
Ferropol (Fastcut)	Steel & stainless steel. Initial polishing('Cut Back') work on non-ferrous metals, prior to polishing with correct compound.	Sisal Mops
Hyfin	Stainless steel, chrome plate, non-ferrous metals - for high gloss finishing. Fast cutting compound. Effective in removing marks from previous polishing operations.	Calico Mops
V. Fine	Very high gloss finish on non-ferrous & ferrous materials.	Calico Mops
Multishine	High gloss finish on non-ferrous & plastic materials. To be used after first stage polishing.	Calico Mops
Stearene	Aluminium cutting lubricant.	

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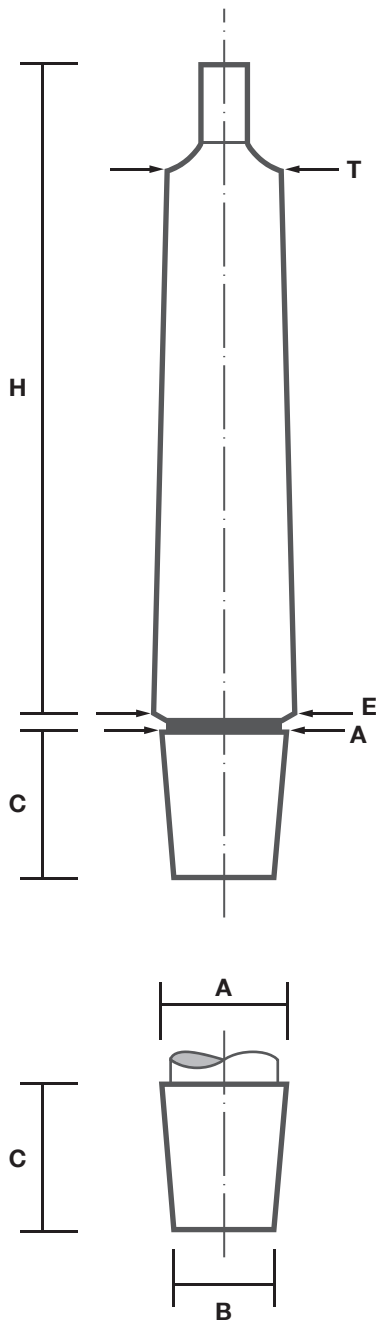
APPENDIX TOOLS

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APPENDIX TOOLS

APPENDIX TOOLS

DIMENSIONS OF TAPERS



Morse Taper Shank

Size	E mm	T mm	H mm
MT1	12.06	9.70	66
MT2	17.78	14.90	80
MT3	23.82	20.20	99
MT4	31.27	26.50	124
MT5	44.40	38.20	156
MT6	63.35	54.60	218

Jacobs Taper Shank

Size	A mm	B mm	C mm
JT0	6.35	5.80	11.11
JT1	9.75	8.47	16.67
JT2	14.20	12.39	22.23
JT33	15.85	14.24	25.40
JT6	17.17	15.85	25.40
JT3	20.60	18.95	30.90
JT4	28.55	26.37	42.10
JT5	35.89	33.43	47.60

DIN 238 - Taper Shank

Size	A mm	B mm	C mm
B6	6.35	5.85	10.00
B10	10.09	9.40	14.50
B12	12.06	11.10	18.50
B16	15.73	14.50	24.00
B18	17.78	16.20	32.00
B22	21.79	19.80	40.50
B24	23.82	21.30	50.50

INCHES TO MILLIMETRES

Inches	Millimetres	Inches	Millimetres
1/64	0.397	33/64	13.097
1/32	0.794	17/32	13.494
3/64	1.191	35/64	13.890
1/16	1.588	9/16	14.287
5/64	1.984	37/64	14.684
3/32	2.381	19/32	15.081
7/64	2.778	39/64	15.478
1/8	3.175	5/8	15.875
9/64	3.572	41/64	16.272
5/32	3.969	21/32	16.669
11/64	4.366	43/64	17.065
3/16	4.762	11/16	17.462
13/64	5.159	45/64	17.859
7/32	5.556	23/32	18.256
15/64	5.953	47/64	18.653
1/4	6.350	3/4	19.050
17/64	6.747	49/64	19.447
9/32	7.144	25/32	19.844
19/64	7.541	51/64	20.240
5/16	7.938	13/16	20.637
21/64	8.334	53/64	21.034
11/32	8.731	27/32	21.431
23/64	9.128	55/64	21.828
3/8	9.525	7/8	22.225
25/64	9.922	57/64	22.622
13/32	10.319	29/32	23.019
27/64	10.716	59/64	23.415
7/16	11.113	15/16	23.812
29/64	11.509	61/64	24.209
15/32	11.906	31/32	24.606
31/64	12.303	63/64	25.003
1/2	12.700	1	25.400

RECOMMENDED OPERATING INSTRUCTIONS FOR COUNTERSINKS



Material	Single Flute					Cross-Hole					Three Flute				
	Speed (m/min)		ø10	ø20	ø30	Speed (m/min)		ø10	ø20	ø30	Speed (m/min)		ø10	ø20	ø30
Steels ≤500N/mm ²	34-45	Feed* RPM	275 1250	138 625	90 430	34-45	Feed* RPM	275 1250	138 625	90 430	17-22	Feed* RPM	210 620	100 310	75 210
Steels ≤500-800 N/mm ²	20-30	Feed* RPM	136 800	68 400	45 260	20-30	Feed* RPM	136 800	68 400	45 260	10-15	Feed* RPM	150 480	76 240	50 160
Steels 800-1000 N/mm ²	15-20	Feed* RPM	68 520	34 260	23 180	15-20	Feed* RPM	68 520	34 260	23 180	8-12	Feed* RPM	100 380	50 190	36 130
Stainless Steels 1000-1300 N/mm ²	12-15	Feed* RPM	45 380	25 200	17 140	12-15	Feed* RPM	45 380	25 200	17 140	6-8	Feed* RPM	32 320	16 160	11 110
Stainless Steels Inconel-Nimonic											4-6	Feed* RPM	15 180	8 90	5 65
Cast Iron						20-40	Feed* RPM	150 1200	130 550	100 430	15-25	Feed* RPM	80 630	60 320	50 210
Aluminium	50-60	Feed* RPM	400 1600	200 800	150 600		Feed* RPM	400 1600	200 800	150 600	35-45	Feed* RPM	375 1250	190 625	130 430
Brass - Bronze							Feed* RPM	300 1200	150 600	90 370	20-30	Feed* RPM	240 800	120 400	80 260
Copper	20-30	Feed* RPM	200 800	100 400	65 260		Feed* RPM	200 800	100 400	65 260					
Laminates							Feed* RPM	1600 3200	800 1600	250 1000	35-70	Feed* RPM	720 1600	360 800	240 530
Plastics	50-100	Feed* RPM	1600 3200	800 1600	250 1000		Feed* RPM	1600 3200	800 1600	250 1000	35-70	Feed* RPM	720 1600	360 800	240 530

RECOMMENDED CUTTING SPEEDS FOR HSS BI-METAL HOLESAWS



Material		High Carbon structural steel up to 700 N/mm ²	Alloyed steel up to 1000 N/mm ²	Cast iron over 250 N/mm ²	CuZn alloy	Aluminium alloy up to 11% Si	Thermo-plastics	Duro-plastics	Wood
V _c m/min		30	20	10	35	30	20	15	40
Coolant		Cutting 7	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
ø mm	ø inch	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
14.0	9/16	682	455	227	796	682	455	341	910
16.0	5/8	597	398	199	697	597	398	299	796
17.0		562	375	187	656	562	375	281	749
19.0	3/4	503	335	168	587	503	335	251	670
21.0		455	303	152	531	455	303	227	607
22.0	7/8	434	290	145	507	434	290	217	579
24.0	15/16	398	265	133	464	398	265	199	531
25.0	1	382	255	127	446	382	255	191	510
27.0	1 1/16	354	236	118	413	354	236	177	472
28.0	1 3/32	341	227	114	398	341	227	171	455
29.0	1 1/8	329	220	110	384	329	220	165	439
30.0	1 3/16	318	212	106	372	318	212	159	425
32.0	1 1/4	299	199	100	348	299	199	149	398
33.0		290	193	97	338	290	193	145	386
35.0	1 3/8	273	182	91	318	273	182	136	364
36.0		265	177	88	310	265	177	133	354
37.0		258	172	86	301	258	172	129	344
38.0	1 1/2	251	168	84	293	251	168	126	335
40.0		239	159	80	279	239	159	119	318
41.0	1 5/8	233	155	78	272	233	155	117	311
43.0	1 11/16	222	148	74	259	222	148	111	296
44.0	1 3/4	217	145	72	253	217	145	109	290
46.0	1 3/4	208	138	69	242	208	138	104	277
48.0	1 7/8	199	133	66	232	199	133	100	265
51.0	2	187	125	62	219	187	125	94	250
52.0		184	122	61	214	184	122	92	245
54.0	2 1/8	177	118	59	206	177	118	88	236
57.0	2 1/4	168	112	56	196	168	112	84	223
59.0		162	108	54	189	162	108	81	216
60.0	2 3/8	159	106	53	186	159	106	80	212
63.0		152	101	51	177	152	101	76	202
64.0	2 1/2	149	100	50	174	149	100	75	199
65.0		147	98	49	171	147	98	73	196
67.0	2 5/8	143	95	48	166	143	95	71	190
68.0		141	94	47	164	141	94	70	187

RECOMMENDED CUTTING SPEEDS FOR HSS BI-METAL HOLESAWS



Material		High Carbon structural steel up to 700 N/mm ²	Alloyed steel up to 1000 N/mm ²	Cast iron over 250 N/mm ²	CuZn alloy	Aluminium alloy up to 11% Si	Thermo-plastics	Duro-plastics	Wood
V _c m/min		30	20	10	35	30	20	15	40
Coolant		Cutting 7	Cutting spray	Compressed air	Compressed air	Cutting spray	Water	Compressed air	Compressed air
ø mm	ø inch	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
70.0	2 3/4	136	91	45	159	136	91	68	182
73.0	2 7/8	131	87	44	153	131	87	65	175
76.0	3	126	84	42	147	126	84	63	168
79.0	3 1/8	121	81	40	141	121	81	60	161
83.0	3 1/4	115	77	38	134	115	77	58	153
86.0	3 3/8	111	74	37	130	111	74	56	148
89.0	3 1/2	107	72	36	125	107	72	54	143
92.0	3 5/8	104	69	35	121	104	69	52	138
95.0	3 3/4	101	67	34	117	101	67	50	134
98.0	3 7/8	97	65	32	114	97	65	49	130
102.0	4	94	62	31	109	94	62	47	125
105.0		91	61	30	106	91	61	45	121
108.0	4 1/4	88	59	29	103	88	59	44	118
111.0	4 3/8	86	57	29	100	86	57	43	115
114.0	4 1/2	84	56	28	98	84	56	42	112
121.0	4 3/4	79	53	26	92	79	53	39	105
127.0	5	75	50	25	88	75	50	38	100
140.0	5 1/2	68	45	23	80	68	45	34	91
152.0	6	63	42	21	73	63	42	31	

CARBIDE BURRS TECHNICAL DATA

DO

- Always operate the burr within the recommended speed range
- Select the appropriate shape, diameter and cut style for the application
- Ensure the appropriate grinder is used and that it is regularly maintained
- Fix the maximum length of burr in the collet (recommended max 10mm overhang)
- Check that the burr is running true in the grinder before use
- Securely fix workpiece and hold the grinder firmly
- Use a smooth cutting action with constant movement in both directions. Use light pressure, letting the burr do the work
- For best finish, always end on a reverse stroke

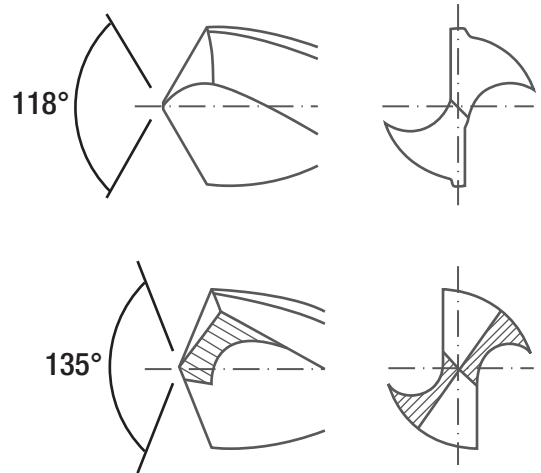
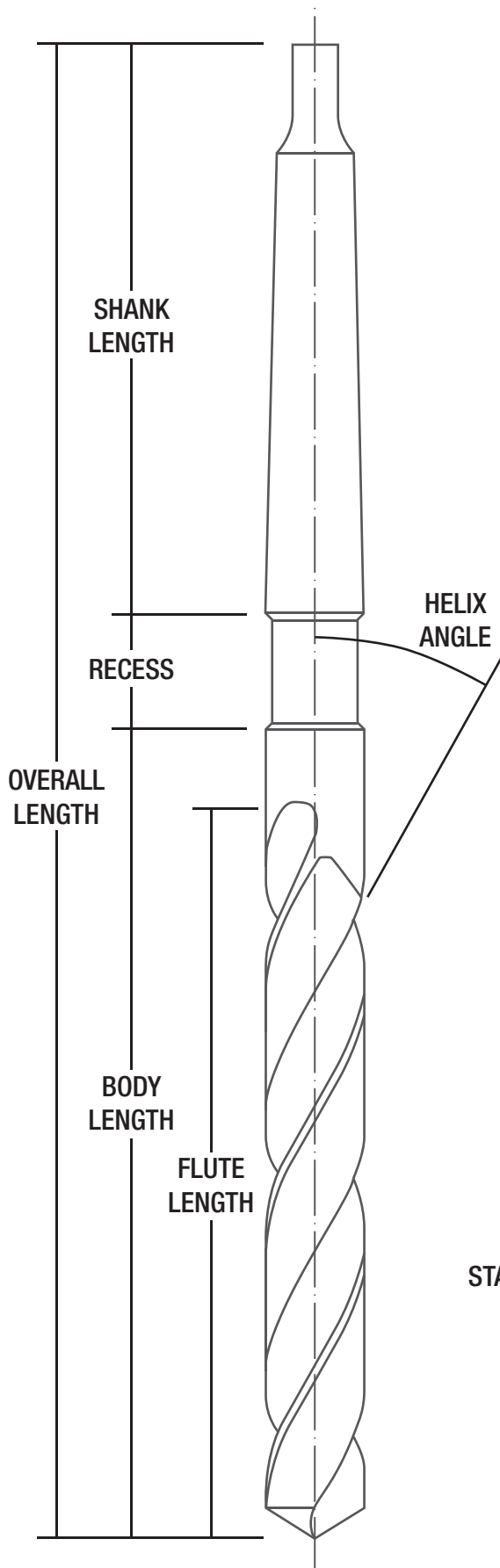
DON'T

- Run burr above the Maximum Operating Speed
- Run burr too slowly (refer to recommended speed guide)
- Allow burr to be exposed to excessive mechanical or thermal shock
- Sink the burr to more than one-third of its periphery
- Jam the burr into grooves, crevices and cavities
- Allow burr to become too hot, causing braze to weaken (applies to burrs where head diameter is greater than the shank diameter)

Recommended Speed Guide

Diameter inch	RPM	Max RPM
1/16	55,000 - 85,000	90,000
3/32	50,000 - 60,000	85,000
1/8	35,000 - 65,000	80,000
3/16	30,000 - 55,000	75,000
1/4	25,000 - 50,000	70,000
5/16	18,000 - 38,000	65,000
3/8	17,000 - 38,000	63,000
7/16	13,000 - 37,000	55,000
1/2	14,000 - 36,000	50,000
5/8	11,000 - 23,000	40,000
3/4	8,000 - 19,000	30,000
1	7,000 - 18,000	25,000

DRILL TERMINOLOGY



SLOW



STANDARD

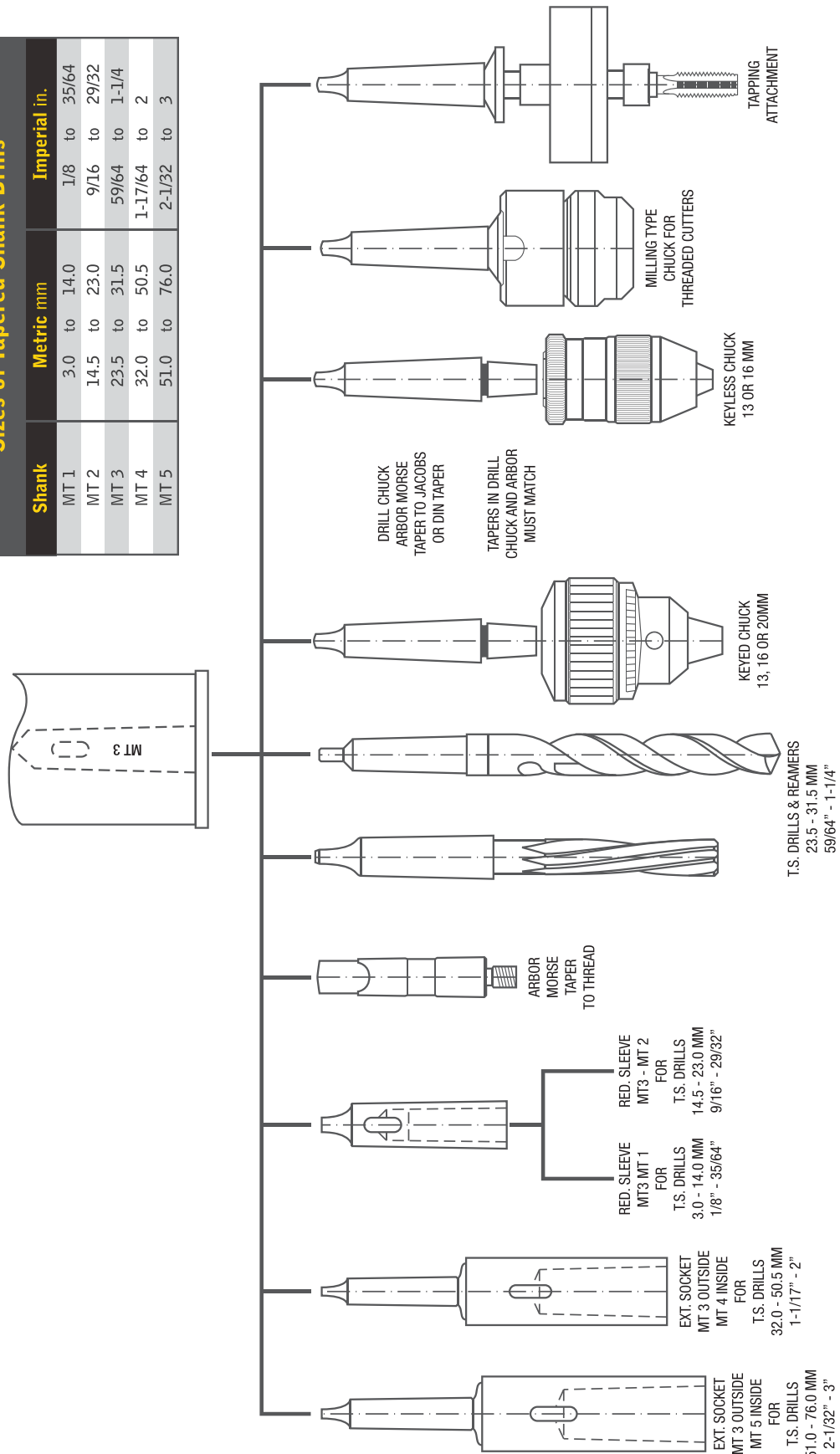


QUICK

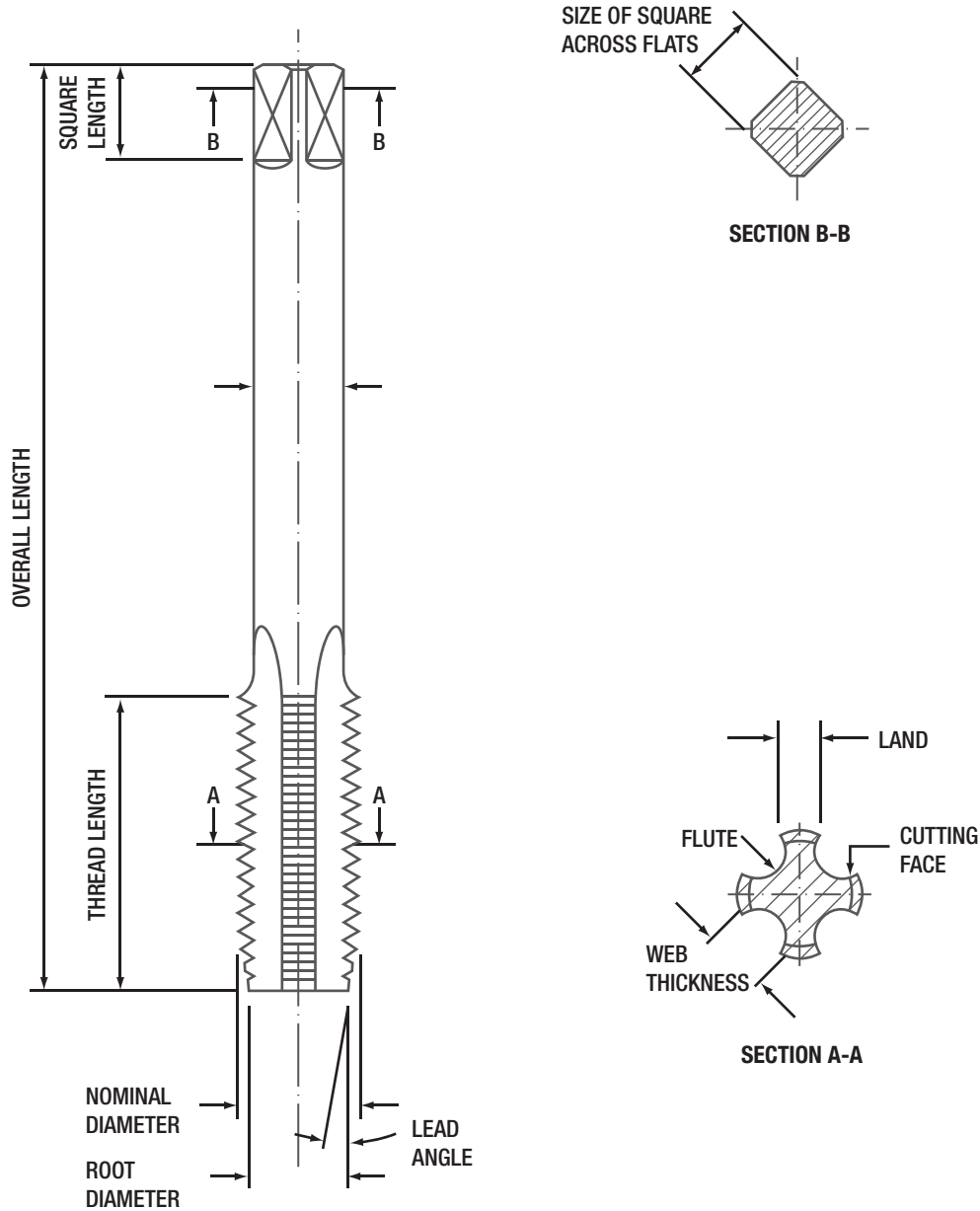


ACCESSORIES FOR PEDESTAL DRILL MORSE TAPER No. 3

Sizes of Tapered Shank Drills		
Shank	Metric mm	Imperial in.
MT 1	3.0 to 14.0	1/8 to 35/64
MT 2	14.5 to 23.0	9/16 to 29/32
MT 3	23.5 to 31.5	59/64 to 1-1/4
MT 4	32.0 to 50.5	1-17/64 to 2
MT 5	51.0 to 76.0	2-1/32 to 3



TAP TERMINOLOGY



General Specifications

Thread	General Specifications	Threads Ground to
Metric	ISO 529	ISO 2857 - 1973, CLASS 2
Metric Long Series	ISO 2283	ISO 2857 - 1973 CLASS 2
Metric	DIN 371 / DIN 374 / DIN 376	DIN 802 CLASS 6H
UNC, UNF	ISO 529	ANSI B1.1 1982 2B
BSW, BSF, BA, BSB	ISO 529	BS 949: 1976 CLASS 2
BSP, BSPT	ISO 2284	BS 949: 1976 1976-G SERIES
NPS, NPT	ANSI 94.9 1979	ANSI 94.9 1979

MAIN TYPES OF TAPS

HAND TAPS (SHORT MACHINE)

This regular type is the basic tap designed as a general purpose tool for hand and machine operation.

As this basic tap will give acceptable performance in most materials and for short production runs, it is usually the most economical tap to use. However, it performs best in materials where the cutting action results in chips which break up readily and do not present problems of chip disposal.

The regular hand tap has four flutes in sizes larger than 1/4 inch diameter. These taps may not be suitable because of inadequate chip space when deep or blind holes have to be tapped in soft stringy materials. This applies particularly to the coarser pitch threads such as BSW and UNC.

If a gun tap or spiral fluted tap cannot be used, a three fluted tap which permits extra chip space, is recommended.

PIPE TAPS

Pipe taps are supplied with PARALLEL threads or with TAPER threads.

These taps are shorter than a similar size of regular hand tap, but the design features are the same. They are suitable for hand or machine use.

GUN NOSE TAPS (SPIRAL POINT) FOR MACHINE USE ONLY

Gun nose taps have straight flutes supplemented by angular cutting faces at the point. These faces cut with a shearing action which propels the chips ahead of the tap leaving the flutes clear for the free flow of coolant to the point.

Primarily designed for use in through holes, these taps can be used in blind holes providing that there is ample clearance beyond the threaded section to accommodate the chips. The advantages of a gun nose tap are, the shearing action of the angular cutting faces which produce fine finish on the threads and, shallower flutes which permit a stronger cross section throughout the tap.

SPIRAL FLUTE TAPS FOR MACHINE USE ONLY

These taps are designed primarily for machine tapping of blind holes, are used to the best advantage in materials which produce long stringy chips. The shearing action provided by the spiral flutes produces a better finish on difficult to machine metals and causes the chips to be drawn back, eliminating clogging at the cutting chamfer.

SERIAL TAPS

Serial taps comprise of one or more undersized roughing taps which remove most of the material before final sizing with a finishing tap.

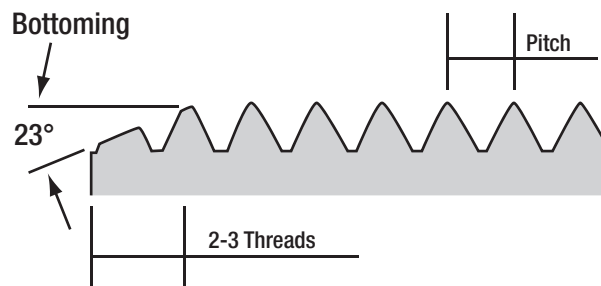
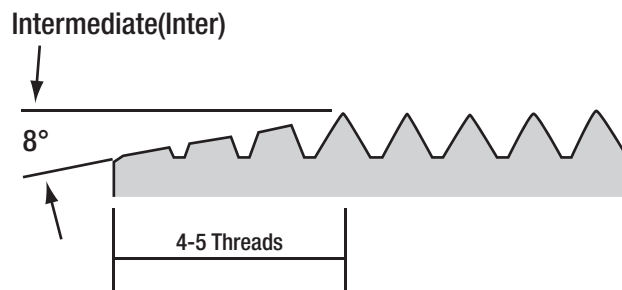
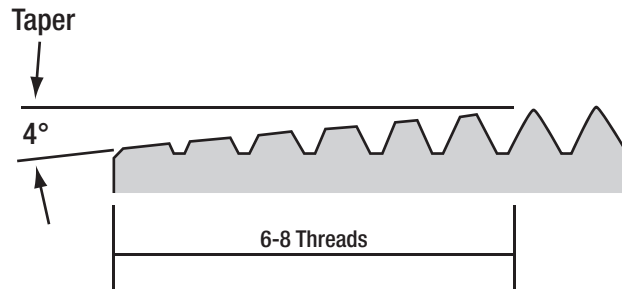
Some reasons for using serial taps are:

- The toughness of the material being tapped
- The amount of material to be removed could cause swarf choking with a single tap
- The very small tolerance on pitch diameter
- An extremely good finish required

FLUTELESS (ROLL) TAPS (Fluteless Chipless Tapping)

These taps are designed for machine tapping in ductile materials, "Fluteless" taps have no flutes or cutting faces, but have special roll forming lobes with a circular lands and have long or short taper leads for through or blind holes

TAPS STANDARD LEAD CHAMFER ANGLE



In some countries the name "PLUG" is commonly used to indicate a Bottoming tap. In America it is used to indicate an Intermediate tap. To avoid confusion with American terms, the terminology adopted by the British Standard 949 1979 as shown above, should be used.

Description	
Tap	Angle
Short Hand and Machine, Long Shank Machine and Pipe Taps	4° (6-8 Threads) for Taper 8° (4-5 Threads) for Intermediate 23° (2-3 Threads) for Bottoming
Spiral Point Taps	8° (4-5 Threads)
Spiral Flute Taps	23° (2-3 Threads)
Fluteless Taps	23° (2-3 Threads)

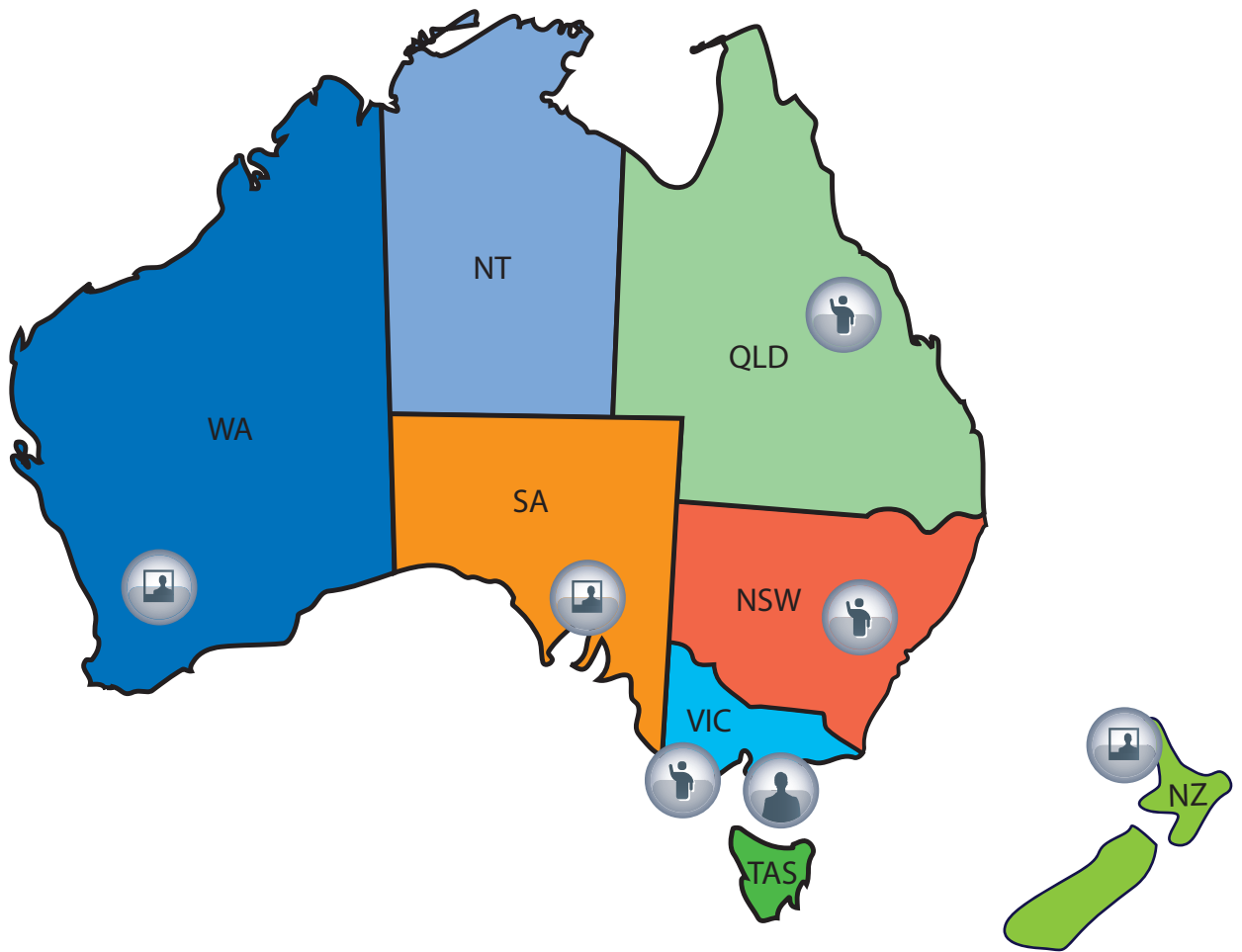
RETURN AND CREDIT POLICY & PROCEDURES

RETURNED FOR WARRANTY

1. All goods returned to Intech Tools Pty Ltd must be accompanied by a RAN (Return Authorisation Number). Goods returned to Intech Tools Pty Ltd without an RAN will not be accepted.
2. All RA(Return Authorised) returns are to be delivered to Intech Tools Pty Ltd, 12 Hanrahan Street, Thomastown VIC 3074, Australia.
3. Cost of returning goods under warranty, transport and insurance, is the customer's responsibility.
4. Goods must be properly packaged for return, goods damaged in transit will void warranty.
5. Goods returned for warranty will be repaired or replaced at Intech Tool's discretion.
6. Whilst Intech Tools Pty Ltd will endeavour to return warranted goods to customer as quickly as possible, temporary replacement items will not be supplied.
7. A copy of the original invoice must accompany all warranty returns.
8. Intech Tools Pty Ltd warrants that the products it manufactures will be free from defects in materials and workmanship. Damage due to usage is not in accordance with product instructions, failure to perform required preventive maintenance, acceptable wear and tear, and problems caused by use of parts and components not supplied by Intech Tools Pty Ltd will be excluded from warranty claims.
9. Goods returned with no fault found may be charged a minimum administration fee of \$25.00+GST per item.

RETURNED FOR CREDIT

1. All credit requests must be made to your account/sales representative OR to Intech Tools Customer Service.
2. All goods returned to Intech Tools Pty Ltd must be accompanied by a RAN (Return Authorisation Number). Goods returned to Intech Tools Pty Ltd without and RAN will not be accepted.
3. Specifically ordered non-stock items will not be accepted for credit.
4. Credit will be issued at Intech Tool's discretion and, where applicable, re-stocking fees will apply.
5. All RA(Return Authorised) returns are to be delivered to Intech Tools Pty Ltd, 12 Hanrahan Street, Thomastown VIC 3074, Australia.
6. Goods may be considered as eligible for credit return provided that all of the following criteria are met:
 - a) a credit RAN, RA, is obtained prior to sending the returned goods; and
 - b) the goods are returned unopened, undamaged and in original packaging, and as such must not have additional price, warranty, freight and/or other sticker, tags or labels attached; and
 - c) the returned goods are received by Intech Tools Pty Ltd within 14 days of receipt of goods by the customer.
7. If returned goods are deemed by Intech Tools Pty Ltd not to be in a re-saleable condition, credit will be denied and it will be the customer's responsibility to arrange the collection of the goods.
8. Unless Intech Tools Pty Ltd have incorrectly shipped products, transport charges will be paid by the customer unless otherwise agreed by Intech Tools Pty Ltd in writing.



Sales Team Locations



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