WORKSHOP RANGE CARBIDE BURS, STEP DRILLS, HSS COUNTERSINKS, HSS DEBURRING TOOLS & HACKSAW

BURS

ITEM NO.	DESCRIPTION	UZR!RANGV	]ENGTH	dHANK	
S918CS06166	Cylinder Square	6.35mm	16mm	6mm	
S918CS08206	Cylinder Square	8mm	20mm	6mm	
S918CS12256	Cylinder Square	12mm	25mm	6mm	
S918CR06166	Cylinder Radius	6.35mm	16mm	6mm	
S918CR10206	Cylinder Radius	10mm	20mm	6mm	
S918CR12256	Cylinder Radius	12mm	25mm	6mm	
S918TR06186	Tree Radius	6.35mm	18mm	6mm	
S918TR10206	Tree Radius	10mm	20mm	6mm	
S918TR12256	Tree Radius	12m	25m	6mm	
S918TP06186	Tree Pointed	6.35mm	18mm	6mm	
S918TP10206	Tree Pointed	10mm	20mm	6mm	
S918TP12256	Tree Pointed	12mm	25mm	6mm	

STEP DRILLS

ITEM NO.	RANGE	STEP	SIZES	SHANK	
P107SD0412	4-12mm	9	4, 5, 6, 7, 8, 9, 10, 11, 12mm	6	
P107SD0420	4-20mm	9	4, 6, 8, 10, 12, 14, 16, 18, 20mm	8	
P107SD0430	4-30mm	14	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30mm	10	
P107SD0636	6-36mm	11	6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36mm	12	

HSS COUNTERSINKS

ITEM NO.	DESCRIPTION	RANGE	LENGTH	SHANK	
P107CS0083	8.3mm	2.0 - 8.3mm	50	6	
P107CS0124	12.4mm	2.8 - 12.4mm	56	8	
P107CS0205	20.5mm	3.5 - 20.5mm	63	10	

HSS DEBURRING TOOLS

ITEM NO.	DESCRIPTION	RANGE	LENGTH	SHANK	
P107CD0510	5-10mm	5 - 10mm	48	8	
P107CD1015	10-15mm	10 - 15mm	65	10	
P107CD1520	15-20mm	15 - 20mm	84	12	

HACKSAW

ITEM NO.	DIA	
P9000010	P&N Hacksaw Soft Grip	

QUICKBITS ROTARY RASPS, COREBITS, SELF CENTERING DRILL BITS & ROSEHEAD COUNTERSINKS

ROTARY RASPS

ITEM NO.	SHAPE	DIA	RASP LENGTH	SHANK LENGTH	
S791CS1530Q	Cylinder	15mm	30mm	30mm	
S791TR1530Q	Tree	15mm	30mm	30mm	
S791BN1512Q	Ball	15mm	12mm	30mm	
S791CO1530Q	Tapered Ball	15mm	30mm	30mm	
S791CP1225	Flame	12mm	25mm	30mm	
S791TP1530Q	Cone	15mm	30mm	30mm	
S791CR1530Q	Bull Nose	15mm	30mm	30mm	
S756ML0150Q	Milling	15mm	30mm	30mm	
S756ML0200Q	Milling	20mm	30mm	30mm	
S756ML0250Q	Milling	25mm	30mm	30mm	

HSS STEP DRILL - TITANIUM NITRIDE COATED

ITEM NO.	DIA		
P149040120	4-12mm	Metric	
P149040250	4-25mm	Metric	

DIAMOND TILE CORE BITS

ITEM NO.	DIA	
P148010006	6.0mm	
P148010008	8.0mm	
P148010010	10.0mm	

* All Metric, Single Pack with Diamond Coated Tip

SELF CENTERING DRILL BITS

ITEM NO.	DIA	SCREW GAUGE	PACK QTY	
P1710781	5/64	Suits #3, #4 Screws	1	
P1710937	3/32	Suits #5, #6 Screws	1	
P1711094	7/64	Suits #5, #6 Screws	1	
P1711250	1/8	Suits #8, #10 Screws	1	
P1711406	9/64	Suits #8, #10 Screws	1	
P1711719	11/64	Suits #12 Screws	1	
P1712031	13/64	Suits #14 Screws	1	
P1714000	5/64, 7/64, 9/64 & ADAPTOR		4 PIECE SET	

ROSEHEAD COUTERSINKS

ITEM NO.	DIA	
P105HCS013	13mm	
P105HCS016	16mm	
P105HCS019	19mm	

QUICKBITS ADAPTOR & CONTERSINK, SETS, HOLE CUTTER, HOLESAW SETS & FILES

QUICKBITS

ITEM NO.	DIA	SCREW GAUGE
P107B00768	1.95mm	2G
P107B00984	2.50mm	4G
P107B01181	3.00mm	6G
P107B01417	3.60mm	8G
P107B01575	4.00mm	10G
P107B01811	4.6mm	12G
P107B01969	5mm	12G
P107B02165	5.50mm	

ADAPTOR & COUNTERSINK

ITEM NO.	DESCRIPTION
P107BADAPT	Quickbit Adaptor
P107BCSINK	Quickbit Countersink 13mm 1/4" Shank

QUICKBIT SETS

ITEM NO.	DESCRIPTION	PACK QTY
P105SDC000	Screw Pilot Drill / Countersink	5
P150B0FHEX	Quickbit Set - 1.95, 2.5, 3.6, 4, 4.6, 5, Adaptor, Countersink + 9x50mm Screwdriver bits	18
P150BSET6M	Quickbit Set - Metric 2, 3, 4, 5, 6mm	6

HOLE CUTTER

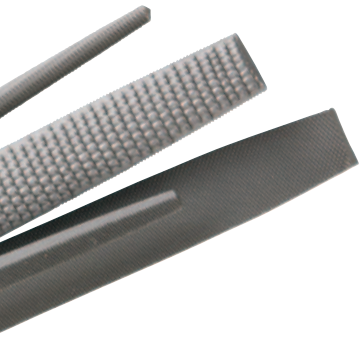
ITEM NO.	DESCRIPTION
P337280007	P&N Hole Cutter TCT 7 Piece

HOLESAW SET

ITEM NO.	DIA	SCREW GAUGE
P9109700	TCT Ceramic Tile Holesaw Set	Holesaws: 29mm, 38mm, 44mm, 57mm. Arbor. Adaptor. 1x HSS pilot drill, 1x crbide tipped pilot bit
P9109907	7 Piece Bi-Metal Holesaw Set	

HANDLED FILES

ITEM NO.	DIA	SCREW GAUGE
ENGINEERS FILE FLAT		
200	Bastard	S300AC1081
250	Bastard	S300AC1101
250	2nd Cut	S300AC1102
250	Smooth	S300AC1103



HANDLED FILES

ITEM NO.	DIA	SCREW GAUGE	
ENGINEERS FILE HALF ROUND			
200	Bastard	S300AE1081	
200	2nd Cut	S300AE1082	
200	Smooth	S300AE1083	
250	Bastard	S300AE1101	
ENGINEERS FILE SQUARE			
150	Bastard	S300AJ1061	
200	Bastard	S300AJ1081	
250	Bastard	S300AJ1101	
ENGINEERS FILE ROUND			
150	Bastard	S300AG1061	
200	Bastard	S300AG1081	
250	Bastard	S300AG1101	
300	Bastard	S300AG1121	
WARDING FILE			
150	Bastard	S300AH1061	
SAW FILE SLIM TAPER			
100	Bastard	S300BE1040	
150	Bastard	S300BE1060	
200	Bastard	S300BE1080	
SAW FILE 2-SQUARE EDGE MILL			
150	Bastard	S300CA1061	
200	Bastard	S300CA1081	
250	Bastard	S300CA1101	
300	Bastard	S300CA1121	
SAW FILE 1 ROUND EDGE MILL			
200	Bastard	S300CC1081	
250	Bastard	S300CC1101	
300	Bastard	S300CC1121	
WOOD RASP HALF ROUND			
200	Bastard	S300EA1081	
250	Bastard	S300EA1101	
300	Bastard	S300EA1121	
CABINET RASP			
200	Bastard	S300EC1081	
250	Bastard	S300EC1101	
CHAINSAW FILE			
200	5/32	S300DA1580	
200	3/16	S300DA1680	
200	7/32	S300DA1780	
200	1/4	S300DA1880	
HANDLES - SOFT GRIP			
100		S300SGK003	
150		S300SGK004	
200-250		S300SGK005	
300		S300SGK006	
SETS			
4 Piece Bastard Cut SetFlat, Half Round, Round, Square x 200mm		S300SET004	

CARBIDE BUR - 6mm SHANK INFORMATION

For shaping or forming metal • For use in air & electric die grinders

SPEED CHART (MAXIMUM)		
DIAMETER (MM)	(INCH)	SPEED
Ø6.0mm	1/4	22,000 RPM
Ø8mm	5/16	20,000 RPM
Ø10mm	3/8	18,000 RPM
Ø12mm	1/2	16,000 RPM

FEATURES

- Made from solid carbide (K30) Shank = S45C Steel
- The double cut bur allows for rapid stock removal in harder materials
- The chisel tooth pattern not only minimises tool chatter but reduces the chip to a granular shape, in most materials
- 6mm shank

HELPFUL HINTS

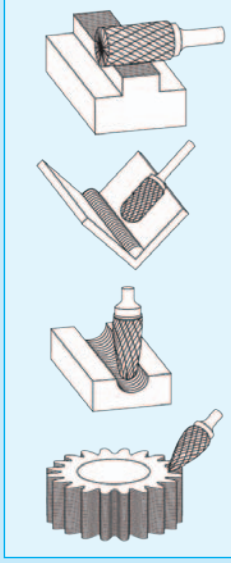
- For use in air & electric die grinders, do not use in conventional electric drills as insufficient speed can cause breakage
- Position bur in drive as close as possible to head of collet
- Allow tool to do its own cutting - do not force the cut or use excessive pressure
- Allow tool to be running at full speed before making contact with the work piece
- If sparks are evident in use, either bur is dull and should be replaced or material is too hard

SAFETY

- Eye protection must be worn at and around bur application
- Do not exceed maximum safe operating speed (see chart)

S918CS12256

APPLICATION



ROTARY RASPS INFORMATION

ROTARY RASPS

- For cutting, shaping or forming timber, plastic & rubber
- Hex shank allows operator to switch from one profile to another quickly when used in conjunction with a PGN Quickbit Adaptor.
- Made in Taiwan.

FEATURES

- Made from Tool Steel
- Will not clog
- Hardened for long life
- Hex shank suits quick change adaptors

SAFETY

- DO NOT USE IN DIE GRINDERS
- Ensure tool is fully inserted into the chuck during use
- Do not exceed maximum safe operating speed (see chart)Speed Chart (maximum)

SPEED CHART (MAXIMUM)	
DIAMETER	SPEED
Ø12mm	5,000 RPM
Ø15mm	2,500 RPM
Ø20mm	1,500 RPM
Ø25mm	1,000 RPM

S756ML0150Q

CHOOSING THE RIGHT FILE

1. PROFILE

The profile of your file should be the first consideration in tool selection. Choose a profile that best matches your application.

Flat: Multi-purpose use on flat and curved external surfaces. Designed for smoothing, removing burs & sharp edges.

Square: For filing slots, keyways, splines and the inside corners of rectangular or square holes.

Round: For filing & enlarging holes, circular or rounded grooves.

Half-round: For multi-purpose use on concave surfaces & crevices & the rounding out of holes. Can also be used on the flat face.

Triangular: Used for sharpening saw teeth & internal corners.

2. LENGTH

Desired stroke length will determine the length of the file. This is measured exclusive of the tang, from point to heel.

3. CUT

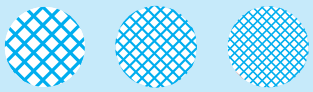
These cuts are selected according to the material of the workpiece, the desired removal of material and the surface finish.

Single Cut: Single cut files (mostly all saw files are single cut) are used for sharpening and edging applications.

Double Cut: Need less effort for filing & also gives a good surface finish.

Rasp Cut: Special cut formation for rapid stock removal from surface of softer materials like wood or leather.

4. COARSENESS



BASTARD CUT: SECOND CUT: SMOOTH CUT:

Bastard Cut: Coarse finish. For stock removal.

Second Cut: Medium - coarse finish. For moderate stock removal.

Smooth Cut: Fine finish. For smooth surface finish.

HOW TO USE A FILE CORRECTLY

There are three methods to use a file:

Straight filing: Pushing the file lengthwise-straight ahead or slightly diagonally-across the workpiece.

Draw filing: Holding the file at each end, pushing and drawing it across the workpiece.

Lathe filing: Holding the file against workpiece in a lathe.

HOLDING THE FILE

Single Handed Operation:

Hold with the handle resting in your palm with your forefinger at the top of the handle pointing to the tip.

Two Handed Operation:

Hold with the handle resting in your palm with your thumb at the top of the handle pointing to the tip. Grip the point of the file in the other hand between the thumb and the first two fingers with the thumb being on the top of the file.

HELPFUL HINTS

- Hold the workpiece in a vice at a suitable height to apply adequate pressure.
- To prevent damage to workpiece, use protectors between the workpiece and vice jaws.
  - When heavy pressure is required, hold file at tip wih thumb pointing forward in line with the file. For lighter pressure, place thumb at right angles to file.
- File on forward stroke only, lifting on back stroke to prevent damaging the file.

CARE OF THE FILE

- A new file should be used with light pressure in the beginning, preferably on a surface which has been filed earlier.
- Keep file stored away from any water or grease.
- Retain the file packaging, or wrap the file in a cloth for protection.
- Use a wire brush to clean the file teeth.
- Do not use oil on the file.

FILE SELECTOR	
Flat file	For general work on iron, steel etc.
Half Round File	For flat, concave and convex surfaces.
Square File	For filing slots, key seats and general surface filing.
Round File	For circular openings and concave surfaces.
1 Edge Round Mill File	For sharpening saws and other tools that require a fine finish. The round edge also allows the filing of saw gullets.
2 Edge Square Mill File	For sharpening saws and other tools that require a fine finish.
3 Edge Square Mill File	For sharpening saws and other tools that require a fine finish.
Slim Taper	For sharpening hand saws.
Chainsaw File	For sharpening round, hooded chainsaw teeth.
Warding File	Locksmiths file for ward notches in keys and narrow places. For narrow slots, toolmaking and hobby applications.
Mill Long Angle Lathe File	Rapid, free cutting files designed for lathe filing.
Wood Rasp	For use on wood and soft metals.Multi-purpose rasp for use on concave surfaces and crevices, and the rounding out of holes.
Cabinet Rasp	Punched teeth for rapid removal of soft materials - wood, soft plastics, fibreglass, soft metals. Gives a finer finish than wood rasp.
Horse Rasp	Double ended, rasp teeth on one side, file teeth on other. Ideal for shoeing racetrack and riding horses.