

DRILLING TOOLS

Our range of drilling tools include: twist drills, dowel drills, countersinks, counterbores, plug makers, machine bits and forstner bits.

- Grades and sizes are geared to satisfy the demanding needs of the building industry, joinery trades and workshops.
- High quality and performance are the prime considerations in the design of our tooling which is manufactured using the latest technology.



DRILLING TOOL GRADES

HSS **High Speed Steel Tooling**
Produced entirely in HSS, ground with a very fine edge. Suitable only for non-abrasive materials, but will give a superior finish in soft timbers. HSS is slightly less expensive than TCT, but can be more suitable for certain applications i.e. drilling or cutting non-abrasive timbers and plastics.

TCT **Tungsten Carbide Tipped Tooling**
Tips are brazed onto a steel body. Designed for use with the most abrasive materials and will outlast HSS tooling by many times. Applications are used for cutting or drilling natural timbers, plywood, medium density fibre board, chipboard and abrasive plastics.

WS **Carbon Steel Tooling**
Less durable than HSS, WS is extensively used in the production of forstner and countersink tooling for use on natural timbers. Offers a cost effective solution for many applications.

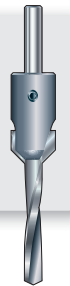
SLOW SPIRAL TWIST DRILLS

- Slow spiral is sometimes preferred for drilling end grain in wood.
 - Ideal for fast drilling operations in open grained material.
- ▲ These drills are not for use with routers and not suitable for masonry work.

COUNTERSINK SETS

See page 207 for full details.

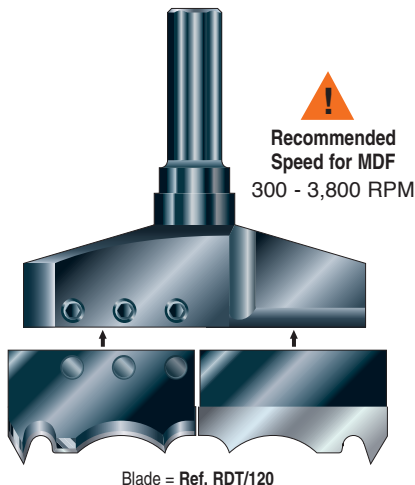
Product Ref.
6200 Group



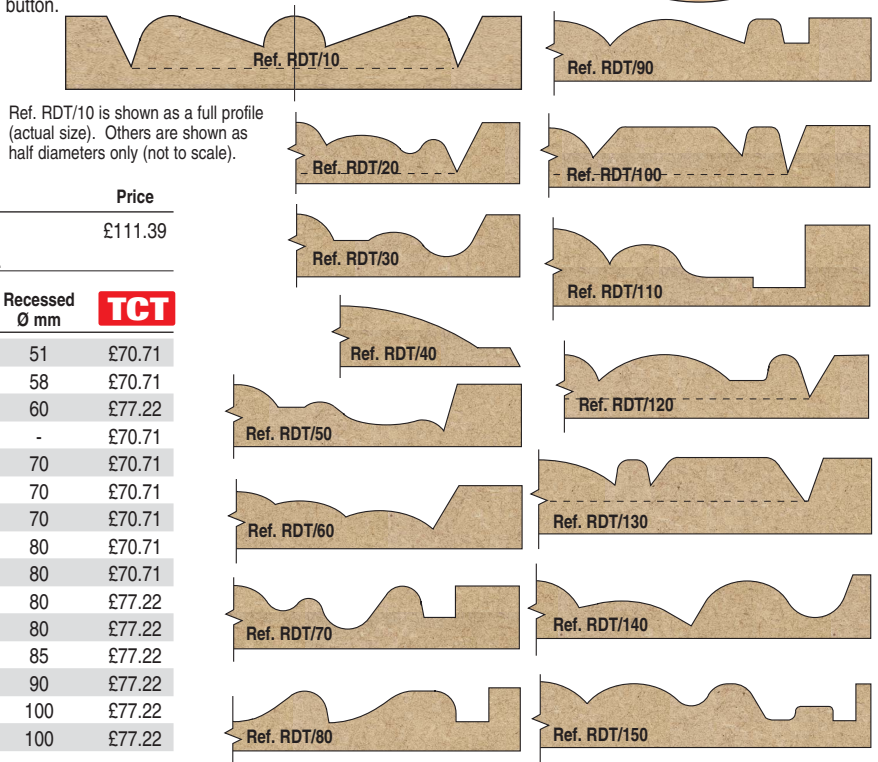
D inch	D mm	OL mm	Product Ref.	HSS
1/8	3.2	65.0	501/18	£3.52
5/32	3.96	74.0	501/532	£3.52
3/16	4.76	85.0	501/316	£4.85
7/32	5.55	93.0	501/732	£5.46
1/4	6.35	92.0	501/14	£7.64
9/32	7.14	111.0	501/932 +	£13.49
5/16	7.9	117.0	501/516 +	£9.99
3/8	9.5	134.0	501/38	£15.99
7/16	11.11	144.0	501/716	£21.68



ROSETTE DRILLING TOOL



- The body of the Trend Rosette drilling tool is made from tool steel which accurately supports a pair of removable Tungsten Carbide knives.
- This tool should be used in a standing drill press, mill, lathe or a CNC drilling machine. The wide choice of removable knives (not supplied) allow a variety of rosette patterns to be created in medium density fibreboard (MDF).
- The shank is 1/2" in diameter with three flats for non-slip.
- Knives with outside spurs can be used to cut the rosette free to form a button.



Ref. RDT/10 is shown as a full profile (actual size). Others are shown as half diameters only (not to scale).

Description	Product Ref.	Price
Rosette drilling tool body only. Supplied with wooden box and hex key (no knives included).	RDT/SET	£111.39

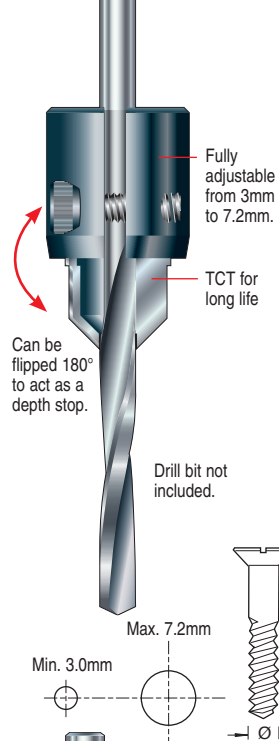
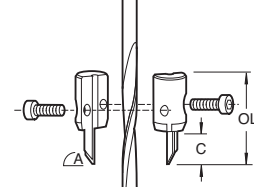
	Pairs of Knives	Button Ø mm	Recessed Ø mm	TCT
RDT/10	43	51	51	£70.71
RDT/20	50	58	58	£70.71
RDT/30	-	60	60	£77.22
RDT/40	57	-	-	£70.71
RDT/50	-	70	70	£70.71
RDT/60	-	70	70	£70.71
RDT/70	-	70	70	£70.71
RDT/80	-	80	80	£70.71
RDT/90	-	80	80	£70.71
RDT/100	74	80	80	£77.22
RDT/110	-	80	80	£77.22
RDT/120	77	85	85	£77.22
RDT/130	84	90	90	£77.22
RDT/140	-	100	100	£77.22
RDT/150	-	100	100	£77.22



SPARE PARTS

Grub screw	SP-RDT/A	£2.90 (ea)
Hex key	SP-RDT/B	£4.48
Shank only	SP-RDT/C	£25.43

COUNTERSINKS



UNIVERSAL COUNTERSINK

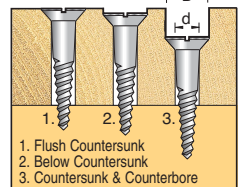
- Clamps onto any drill between 3.0mm and 7.2mm in diameter.
- Recommended for wood and man-made boards.
- By reversing the countersink on the drill, it can be used as a non-cutting depth stop.
- The drill passes through the body of the countersink and is secured by two hex screws which clamp the countersink onto the drill at the required position.
- ▲ Ensure flutes of drill are aligned with flutes of countersink.
- ▲ Do not overtighten screw.
- ▲ Not suitable for production applications and not suitable for ferrous and non-ferrous metals. Not for use with routers.

A Deg.	C mm	OL mm	Product Ref.	TCT
45°	12.0	32.0	UNI/CS	£21.68

SPARE PARTS
Hex key & two screws **SP-O** £1.94

Chart showing recommended drill and screw sizes

For Wood Screw					For Machine Screw		
Screw Gauge No.	Drill Size (Clear Hole) inch	Drill Size (Clear Hole) mm	C/bore (Resulting) inch	C/bore (Resulting) mm	Screw Size mm	Drill Size (Clear Hole) mm	C/bore (Resulting) mm
4 & 5	1/8	3.2	7/16	11.1	M2.5	3.0	11
6 & 7	5/32	3.96	31/64	12.3	M3	3.5	11.5
8 & 9	3/16	4.76	33/64	13.1	M3.5	4.0	12.1
10	7/32	5.55	17/32	13.49	M4	4.5	12.9
12 & 14	1/4	6.35	9/16	14.28	M4.5	5.0	13.1
16	9/32	7.14	39/64	15.47	M5	5.5	13.5
-	-	-	-	-	M5.5	6.0	14.1
-	-	-	-	-	M6	6.5	14.5
-	-	-	-	-	M7	7.2	15.3

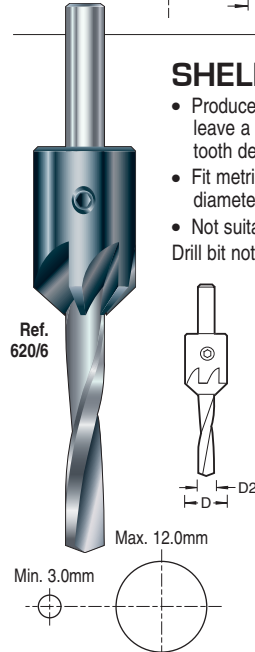


Screw Sizes:

No.4	= 3.0mmØ
No.6	= 3.5mmØ
No.8	= 4.0mmØ
No.10	= 5.0mmØ
No.12	= 5.5mmØ
No.14	= 6.5mmØ

SHELL COUNTERSINK 90°

- Produced from best grade carbon steel, they leave a clean cut finish by virtue of their multi-tooth deep ground gullets.
- Fit metric drills from 3.0mm to 12.0mm diameter inclusive.
- Not suitable for abrasive materials or metal.



D2 mm	D mm	Product Ref.	WS
3.0	16.0	620/3	£8.96
4.0	16.0	620/4	£8.96
5.0	16.0	620/5	£8.96
6.0	16.0	620/6	£11.51
7.0	20.0	620/7	£10.17
8.0	20.0	620/8	£12.73
9.0	20.0	620/9	£15.99
10.0	20.0	620/10	£15.99
12.0	25.0	620/12	£15.99

SPARE PARTS
Hex key & screw (for 3 to 7mmØ) **SP-K** £1.33
Hex key & screw (for 8 to 12mmØ) **SP-P** £1.33

ROSE 90° COUNTERSINKS

- For use in power drills and stationary drill machines only.
 - These countersinks are produced in HSS and should not be confused with carbon steel types.
 - They are designed for countersinking mild steel, iron and plastics.
- Countersink for Window Industry, see Ref. 49/50 page 81.

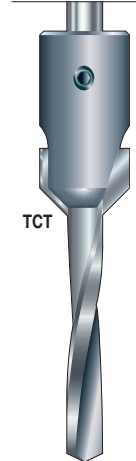
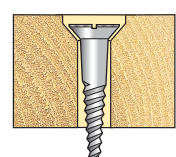


Ref. 49/70

D C/sink mm	No. of Flutes	Product Ref.	Shank Diameter 1/4" 10mm
12.5	5	49/70	£19.74
20.0	5	49/71	£27.97

COUNTERSINK SETS

- Drill & countersink simultaneously a wide variety of materials.
- Supplied with HSS slow spiral drill bits.
- Fully adjustable, hex key is supplied.
- The TCT version is used for plywood, particle boards & plastics (abrasive).
- ▲ Use at drilling speeds only. Not suitable for ferrous & non-ferrous metals. Please ensure drill flutes are aligned with flutes of countersink.
- ▲ For replacement Twist Drills, use slow spiral type e.g. Refs. 501/18 to 501/14. Sizes No.4 & No. 6 have a shouldered body.

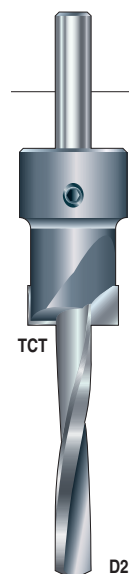
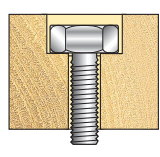


Wood Screw Size No.	D2 Drill Dia. inch	D2 Drill Dia. mm	D Dia. inch	D Dia. mm	Product Ref.	HSS	TCT
4	1/8	3.2	1/2	12.7	6200/4	£14.67	£24.22
6	5/32	3.96	1/2	12.7	6200/6	£14.64	£21.68
8	3/16	4.76	5/8	15.9	6200/8	£14.64	£23.60
10	7/32	5.55	5/8	15.9	6200/10	£15.99	£24.22
12	1/4	6.35	5/8	15.9	6200/12	£15.99	£24.22

SPARE PARTS
Hex key & screw **SP-U** £2.30

COUNTERBORE SETS

- Extensively used for recessing bolt & screw heads.
- Supplied with HSS slow spiral drill bit.
- Fully adjustable, hex key is supplied.
- The TCT version is used for plywood, particle boards & plastics (abrasive).
- ▲ Use at drilling speeds only. Not suitable for ferrous & non-ferrous metals. When setting-up, ensure flutes of drill are aligned with flute of counterbore.
- ▲ For replacement Twist Drills, use slow spiral type, e.g. Refs. 501/532 to 501/14.



D2 Drill Size inch	D2 Drill Size mm	D c/bore Dia. inch	D c/bore Dia. mm	Product Ref.	HSS	TCT
5/32	3.96	3/8	9.5	CB38-532	-	£29.91
3/16	4.76	3/8	9.5	CB38-316	£23.60	£29.91
3/16	4.76	1/2	12.7	CB12-316	£23.60	£31.24
1/4	6.35	1/2	12.7	CB12-14	£24.22	£32.46
1/4	6.35	-	16	CB58-14	£24.22	£33.08
1/4	6.35	3/4	19.1	CB34-14	-	£34.39

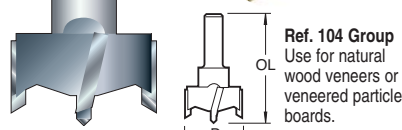
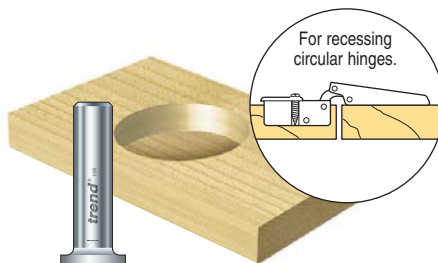
SPARE PARTS
Hex key & screw **SP-U** £2.30

MACHINE BITS

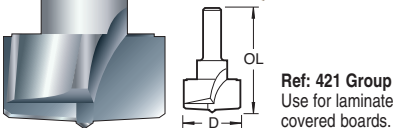
MACHINE BITS FOR HINGE SINKING

- These machine bits are typically used by kitchen furniture manufacturers for recessing circular hinges.
- **Group 104**
This type with scribers are used on natural timber, particle boards and veneered MDF.
- **Group 421**
This type without scribers are for laminate covered boards.
- **Group T421**
This hinge sinker is best suited for thinner laminate covered boards.
- **Group T420 TCT**
This economy range is supplied without scribers and are used for recessing holes in melamine covered chipboard.
- **Ref. T420 WS**
This economy tool is supplied with scribers and centre point and is used for recessing holes in softwoods.

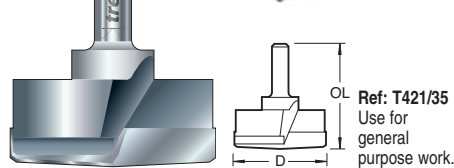
- ▲ Use sizes above 25.0mm at recommended speed range 1,000 - 3,000 RPM maximum to avoid burning.
- ▲ Use with pillar drills only.



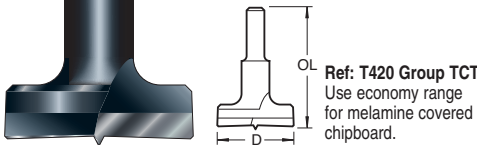
Ref. 104 Group
Use for natural wood veneers or veneered particle boards.



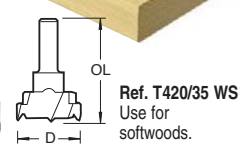
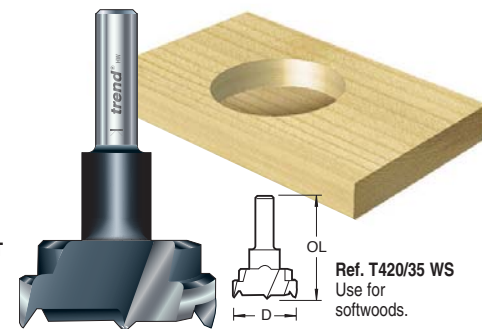
Ref. 421 Group
Use for laminate covered boards.



Ref. T421/35
Use for general purpose work.



Ref. T420 Group TCT
Use economy range for melamine covered chipboard.



Ref. T420/35 WS
Use for softwoods.

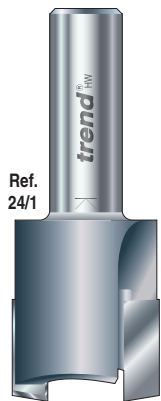
Head Design	D mm	OL mm	Product Ref.	TCT	
				1/4"	3/8"
Two wings, two scribers & centre point	15.0	60.0	104/15	£42.02	£42.02
	20.0	60.0	104/20	-	£43.96
	25.0	65.0	104/25	-	£43.96
	26.0	65.0	104/26	-	£43.96
	30.0	65.0	104/30	-	£45.41
35.0	65.0	104/35	£45.76	£44.57	
Two wings, no scribers & centre point	15.0	60.0	421/15	£49.05	£49.05
	20.0	60.0	421/20	-	£40.09
	25.0	65.0	421/25	-	£40.09
	26.0	65.0	421/26	-	£42.02
	35.0	65.0	421/35	£38.16	£38.16
Two wings & no centre point	35.0	45.0	T421/35	£22.27	£23.60

Head Design	D mm	OL mm	Product Ref.	TCT	
				8mm	
Two wings & centre point	20.0	57.0	T420/20	£10.13	
	25.0	57.0	T420/25	£10.13	
	26.0	57.0	T420/26	£10.13	
	30.0	57.0	T420/30	£10.13	
	35.0	57.0	T420/35	£10.29	

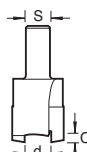
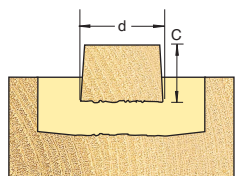
Head Design	D mm	OL mm	Product Ref.	WS	
				8mm	
Two wings & centre point	35.0	54.0	T420/35	£6.64	

TAPERED PLUG MAKER

- A tapered plug ensures an exceptionally tight fit is achieved.
- Tapered plug cutters with Tungsten Carbide Tips will produce many hundreds of plugs before re-sharpening is required.
- ▲ For use in drilling machines at a recommended speed of 2,000 RPM (max. 3,000 RPM). Material must be well clamped.



Ref. 24/1



d Suitable for Hole Size inch	d Suitable for Hole Size mm	C Plug Depth mm	S Shank Dia. inch	Product Ref.	TCT
1/2	12.7	15.0	1/2	24/1	£71.93
5/8	15.9	15.0	1/2	24/2	£71.93
3/4	19.1	15.0	1/2	24/3	£73.75

MACHINE BITS LIP & SPUR

- These machine bits have two wings, two scribers and a centre point.
- Tungsten Carbide Tipped for extensive drilling of particle boards and plastics of soft to medium density.
- The scribes give a very clean entrance hole.
- ▲ Not for use on hard dense materials, such as laminate covered board, phenolic Tufnol®, Wareite® & GRP. For such materials, choose from Group 421 tools which have no scribers. For use in drilling machines only.



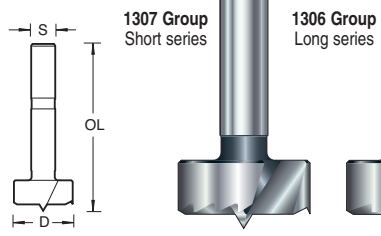
Ref. 1004/32



Max. Speed	D mm	OL mm	S mm	Product Ref.	TCT	
10,000 RPM	10.0	90.0	10.0	1004/10	£24.83	
	12.0	90.0	10.0	1004/12	£25.43	
	13.0	90.0	10.0	1004/13	£37.54	
	14.0	90.0	10.0	1004/14	£37.54	
	15.0	90.0	10.0	1004/15	£37.54	
	16.0	90.0	10.0	1004/16	£38.88	
	17.0	90.0	10.0	1004/17	£38.88	
	18.0	90.0	10.0	1004/18	£38.88	
	19.0	90.0	10.0	1004/19	£38.88	
	20.0	90.0	10.0	1004/20	£38.88	
	21.0	90.0	10.0	1004/21	£37.54	
	22.0	90.0	10.0	1004/22	£39.49	
	23.0	90.0	10.0	1004/23	£39.49	
	24.0	90.0	10.0	1004/24	£39.49	
	25.0	90.0	10.0	1004/25	£39.49	
6,000 RPM	26.0	90.0	10.0	1004/26	£39.49	
	28.0	90.0	10.0	1004/28	£42.02	
	29.0	90.0	10.0	1004/29	£42.02	
	30.0	90.0	10.0	1004/30	£42.02	
	31.0	90.0	10.0	1004/31	£42.02	
	32.0	90.0	10.0	1004/32	£42.02	
	34.0	90.0	10.0	1004/34	£42.62	
	3,000 RPM	35.0	90.0	10.0	1004/35	£42.62
		36.0	90.0	10.0	1004/36	£42.62
38.0		90.0	10.0	1004/38	£48.32	
40.0		90.0	10.0	1004/40	£48.32	
45.0		90.0	10.0	1004/45	£68.67	
50.0		90.0	10.0	1004/50	£75.09	
55.0	90.0	10.0	1013/55	£100.14		
60.0	90.0	10.0	1013/60	£111.39		

SAW TOOTH FORSTNER BITS

- Saw tooth forstner bits are made from high grade Carbon Steel and meticulously heat treated.
 - They cut fast, with the grain or across it.
 - They can drill overlapping holes in any direction and are chosen for exacting and delicate work, such as scroll and scalloping operations.
 - Suitable for non-abrasive timber.
 - Please see website for recommended speeds.
- ▲ Not for use with routers.



SHORT SERIES

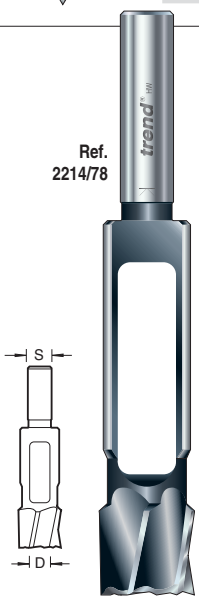
D Dia. inch	S mm	S inch	Overall Length	Product Ref.	WS
3/8	6.35	1/4	3-1/2	1307/38	£15.25
1/2	6.35	1/4	3-1/2	1307/12	£15.25
5/8	8	-	3-1/2	1307/58	£17.19
3/4	9.5	3/8	3-1/2	1307/34	£17.81
7/8	9.5	3/8	3-1/2	1307/78	£19.74
1	9.5	3/8	3-1/2	1307/1	£21.68
1-1/8	9.5	3/8	3-1/2	1307/118	£26.16
1-1/4	9.5	3/8	3-1/2	1307/114	£28.70
1-3/8	9.5	3/8	3-1/2	1307/138	£29.91
1-1/2	9.5	3/8	3-1/2	1307/112	£35.61
1-5/8	9.5	3/8	3-1/2	1307/158	£38.88
1-3/4	9.5	3/8	3-1/2	1307/134	£43.25
2	9.5	3/8	3-1/2	1307/2	£48.32

LONG SERIES

D Dia. inch	S inch	Overall Length	Product Ref.	WS
1/2	1/2	4-3/4	1306/12	£17.19
5/8	1/2	4-3/4	1306/58	£18.53
3/4	1/2	4-3/4	1306/34	£19.13
7/8	1/2	5	1306/78	£21.68
1	1/2	5-1/4	1306/1	£23.60
1-1/8	1/2	5-1/4	1306/118	£26.76
1-1/4	1/2	5-1/4	1306/114	£31.24
1-3/8	1/2	5-1/2	1306/138	£31.48
1-1/2	1/2	5-3/4	1306/112	£36.33
1-5/8	1/2	5-3/4	1306/158	£46.50
1-3/4	1/2	6	1306/134	£46.05
17/8	1/2	6	1306/178	£51.59
2	1/2	6	1306/2	£52.19

PLUG MAKERS

- Precision made plug makers for use on natural timber, exactly matching the holes produced by the saw tooth Forstners groups 1306 & 1307.
 - These have four, five or six wings to ensure a clean cut.
 - Use a slow, constant feed rate ensuring timber is clamped to bed of drilling machine.
 - 5-1/2" to 6-1/2" overall lengths.
- ▲ Not suitable for use on abrasive timber, hard plastics or metal.
- ▲ Not for use with hand held power tools or routers.



D Plug Dia. inch	S inch	No. of Wing	Max. Speed RPM	Product Ref.	WS
3/8	1/2	4	2000	2214/38	£52.07
1/2	1/2	4	1500	2214/12	£55.69
5/8	1/2	4	1500	2214/58	£55.69
3/4	1/2	4	1000	2214/34	£64.18
7/8	1/2	5	1000	2214/78	£67.81
1	1/2	5	800	2214/1	£71.44
1-1/8	1/2	5	800	2214/118	£75.09
1-1/4	1/2	5	800	2214/114	£77.50
1-3/8	1/2	5	800	2214/138	£83.56
1-1/2	1/2	5	500	2214/112	£93.24
1-5/8	1/2	6	500	2214/158	£83.56
1-3/4	1/2	6	500	2214/134	£95.64
1-7/8	1/2	6	500	2214/178	£94.09
2	1/2	6	400	2214/2	£115.66

ADJUSTABLE MACHINE BIT - LIGHT DUTY

- Supplied with two interchangeable blades offering a range of drilling sizes from 15mm to 45mm.
 - Made from specially hardened Carbon Steel.
 - Suitable for soft timbers only.
 - Use at low speeds only.
- ▲ Not for use with hand held power tools or routers.



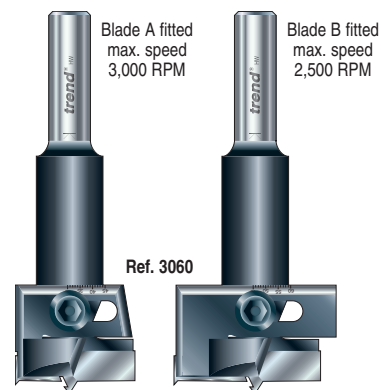
Adjustable Drilling Sizes	D min. mm	D max. mm	Product Ref.	WS
Blade A	15.0	25.0	349	£26.04
Blade B	25.0	45.0		

REPLACEMENT PARTS

Blade A	SP-349A	£7.27
Blade B	SP-349B	£7.64

ADJUSTABLE MACHINE BITS - HEAVY DUTY

- These variable diameter drill bits are of heavier construction than Ref. 349.
 - Suited for production work e.g. repetitive machining in abrasive materials. Regular checking of hole diameter is recommended.
 - Ref. 3060 is supplied as standard with two variable TCT blades.
- ▲ Not for use with hand held power tools or routers.



D mm	S mm	OL mm	Max. Speed RPM	Product Ref.	TCT
30-60	10.0	80.0	3000	3060	£106.19
60-80	12.7	80.0	2500	3061	£156.40

REPLACEMENT BLADES

For 3060

A	30-45	-	-	SP-3060A	£31.24
B	45-60	-	-	SP-3060B	£35.00

For 3061

-	60-80	-	-	SP-3061A	£71.93
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REPLACEMENT SCREWS

For 3060

-	-	-	-	SP-3060C	£0.72 (ea)
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For 3061

-	-	-	-	SP-3061C	£0.72 (ea)
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