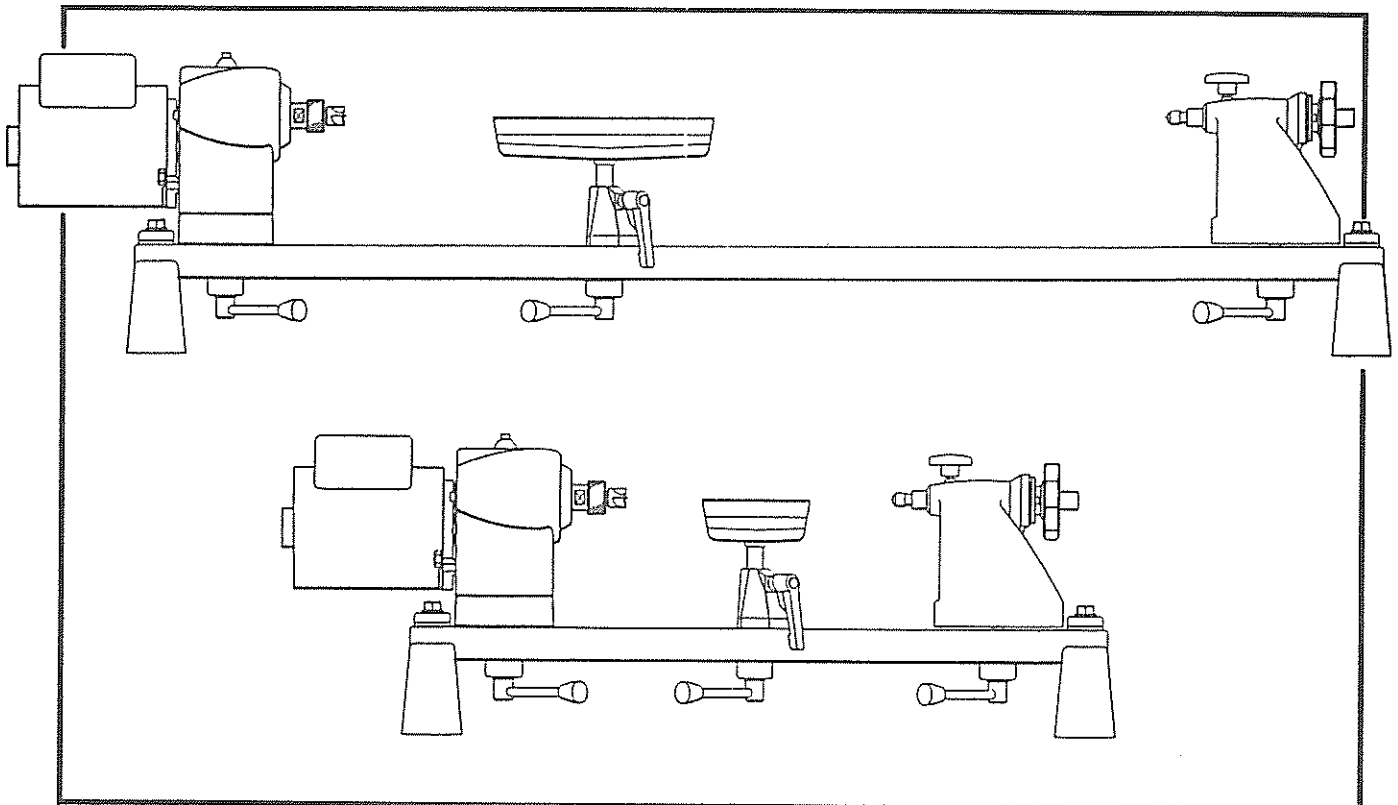


Record

Est.
1898
Sheffield
England

POWER TOOLS

INSTRUCTION MANUAL



WOODTURNING LATHES

CL1 36 x 15

CL5 12 x 15

RECORD POWER LTD., PARKWAY WORKS, SHEFFIELD, S9-3BL
PHONE: (0114) 244 9066 FAX: (0114) 243 4302 / 261 7141
Registered in England No. 2187464

CANADA:

RECORD TOOLS INC.
1920 CLEMENTS ROAD
PICKERING ONTARIO
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Phone: (905) 428 - 1077
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U.S.A.:

Phone:
(716) 824 - 1180

AUSTRALIA:

RECORD (Hand & Power Tools) PTY. LTD.
178 - 180 ADDERLEY STREET,
AUBURN, NSW 2144
Phone: (02) 748 6224
Fax: 008 658 143

SOUTH AFRICA:

RECORD TOOLS PTY
P.O. BOX 5033
37 LIVERPOOL ROAD
BENONI INDUSTRIAL SITE
BENONI SOUTH
Phone: (011) 422 2340
Fax: (011) 42 4151

DEAR CUSTOMER,

THANK YOU FOR INVESTING IN A RECORD POWER WOODTURNING LATHE.
LIKE ALL OUR PRODUCTS, IT IS MADE TO THE HIGHEST PRODUCTION STANDARDS
AND IS DESIGNED TO GIVE YOU YEARS OF SATISFYING SERVICE.

A COMPLETE LIST OF ACCESSORIES IS INCLUDED AT THE END OF THIS MANUAL
TO ENHANCE YOUR ENJOYMENT IN WOODTURNING.

PLEASE DO NOT FORGET TO FILL IN AND RETURN YOUR GUARANTEE CARD.

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SAFETY (CONT.)

TURNING LARGE DIAMETER TIMBER

IN ADDITION TO THE USUAL ADVICE GIVEN IN WOODWORKING MANUALS AND BY EXPERIENCED WOODTURNERS ON THE SUBJECT OF WOODTURNING IN GENERAL, IT IS FELT APPROPRIATE HERE TO EMPHASIZE TWO POINTS WHICH ARE PARTICULARLY IMPORTANT FROM A SAFETY ASPECT WHEN TURNING HEAVY, OUT OF BALANCE TIMBER.

FIRST OF ALL MOUNTING OF TIMBER. SINCE EACH PIECE OF TIMBER IS UNIQUE IT IS DIFFICULT TO LAY DOWN PRECISE RULES, BUT IT IS RECOMMENDED THE NEWCOMER TO LARGE DIAMETER TURNING SHOULD GAIN EXPERIENCE ON SMALLER WORK TO START WITH, GRADUALLY WORKING UP TO THE MAXIMUM SIZE HE/SHE IS INTERESTED IN, MAKING FREQUENT CHECKS ON SECURITY OF TIMBER, GAINING A KNOWLEDGE OF WHAT IS ADEQUATE FOR THE TYPE OF WORK BEING DONE.

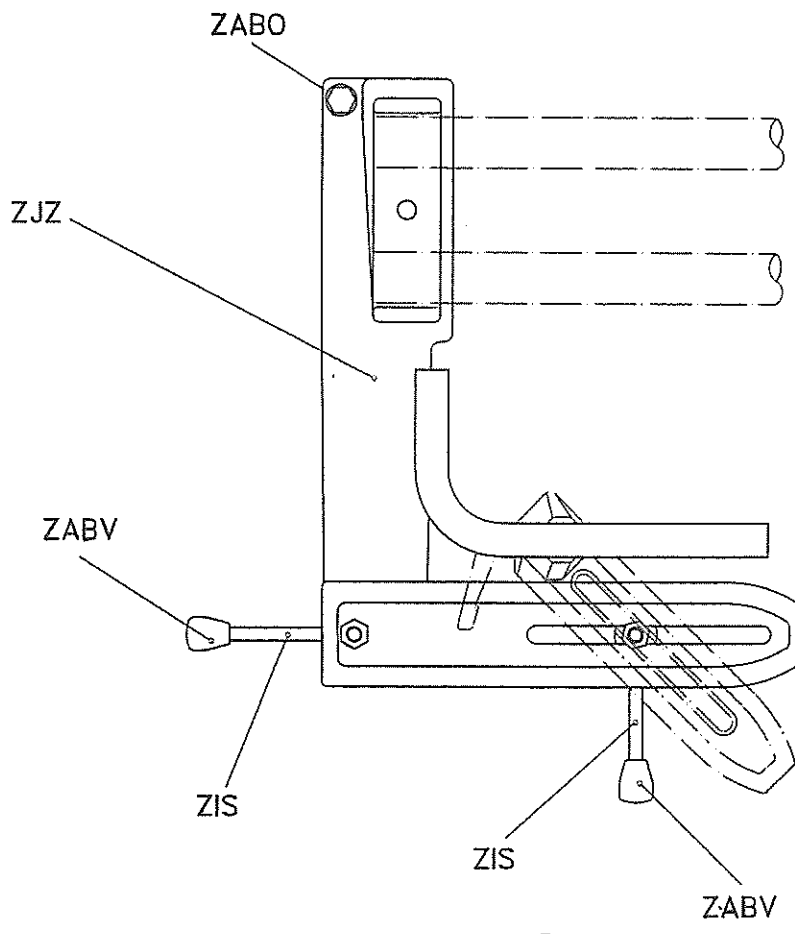
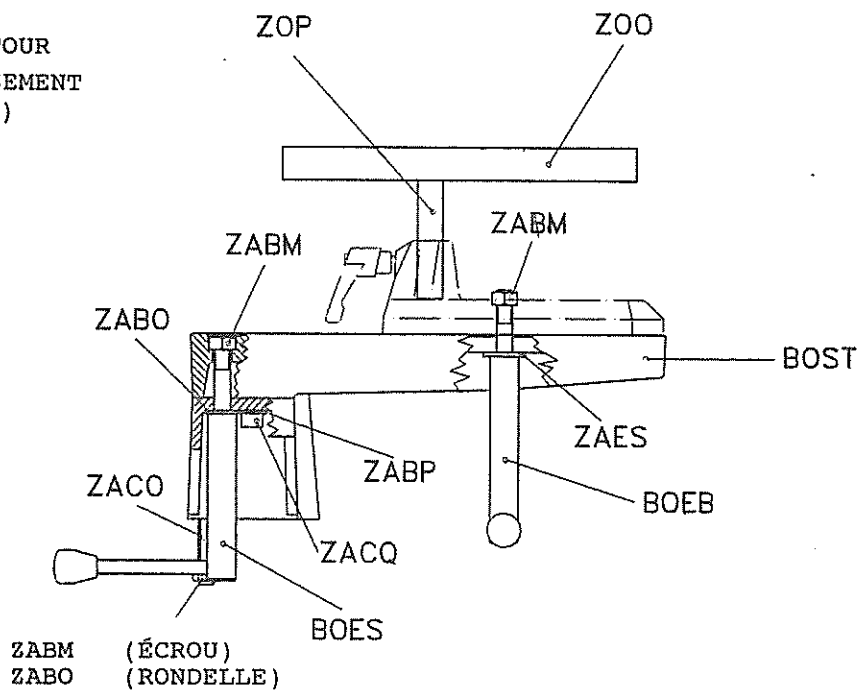
SECONDLY, TO RESIST LARGE FORCES THAT APPLY WHEN HEAVY, OUT OF BALANCE TIMBER ROTATES, THE BENCH MUST BE OF A VERY RIGID CONSTRUCTION. IT IS ALSO IMPORTANT THAT IT DOES NOT ROCK. IF THE SLIGHTEST ROCK IS DETECTED WHEN THE MACHINE IS NOT RUNNING THIS WILL BE MAGNIFIED MANY TIMES WHEN THE TIMBER STARTS TO ROTATE. IT IS THEREFORE WORTH PAYING SPECIAL ATTENTION TO SEATING OF BENCH ON FLOOR, FASTENING DOWN IF NECESSARY.

GENERAL SPECIFICATION

	CL5 12 x 15	CL1 36 x 15
BETWEEN CENTRES	12" (305mm)	36" (914mm)
DIA. BETWEEN CENTRES (OVER BANJO)	9" (229mm)	9" (229mm)
DIA. OVER BED	12" (305mm)	12" (305mm)
BOWL TURNING CAPACITY (WITH END TURNING REST)	15" (381mm)	15" (381mm)
O/ALL DIMENSIONS		
LONG	38.1/4" (972mm)	63" (1600mm)
HIGH	14" (356mm)	14" (356mm)
FRONT TO BACK	12.1/2" (318mm)	12.1/2" (318mm)
TOTAL WEIGHT OF LATHE INC. MOTOR & STARTER	127.5lb 58(kg)	152lb (69kg)
SPINDLE SPEEDS (RPM)	450,950,2000	450, 950, 2000
MOTOR	1/3 HP, 1425 RPM. 230V. ~ 1 PHASE. CAPACITOR START. INDUCTION RUN.	1/3 HP, 1425 RPM. 230V. ~ 1 PHASE. CAPACITOR START. INDUCTION RUN.
DRIVE	POLY-V	POLY-V
MAIN BEARING	DEEP GROOVE BALL	DEEP GROOVE BALL
SPINDLE NOSE	3/4" DIA. x 16 TPI.	3/4" x 16 TPI.
HEADSTOCK SPINDLE AND TAILSTOCK BARREL BORED TO SUIT NO.1 MORSE TAPER SHANK. SPINDLE HAS SPANNER FLATS (9/16" W. SPANNER TO FACILITATE FITTING AND RELEASE OF SPINDLE NOSE ATTACHMENTS).		

APPUI DE TOUR
D'ABOUTISSEMENT
(EN OPTION)

CL3/B



PARTS LIST (continued)

COMPONENT NO.	DESCRIPTION	QUANTITY	
		CL1	CL5
ZABK	SCREW - MOTOR FIXING	6	6
ZABX	BOLT - CLAMP END BRACKET	2	2
ZABM	NUT - M12	5	5
ZABN	NUT - M10	1	1
ZABO	WASHER - M12	7	7
ZABP	WASHER - M10	1	1
BOBR	BOLT RETAINER	1	1
ZED	WASHER - CAST	2	2
AUAB	ALIGNMENT BUSH	1	1
BORH	RATCHET HANDLE	1	1
ZBZ	7/8" 4 PRONG CENTRE	1	1
ZBY	RING CENTRE	1	1
ZABT	PIN - BELT GUARD HINGE	2	2
ZAFH	PIN - HEADSTOCK NUT RETAINING	1	1
ZACJ	ALLEN KEY - 3mm	1	1
ZACI	SPANNER - SPINDLE	1	1
ZCA	TOMMY BAR	1	1

END TURNING REST-ACCESSORY (CL3/B)

BOST	SWIVEL BRACKET	1	1
ZJZ	END TURNING BRACKET	1	1
BOEB	CLAMPING SCREW FOR BANJO	1	1
BOES	CLAMPING SCREW FOR SWIVEL BRACKET	1	1
ZABV	BLACK KNOB	2	2
ZIS	HANDLE - LONG	2	2
ZOP	STEM FOR TUBULAR BOWL REST	1	1
ZOO	TUBE FOR TUBULAR BOWL REST	1	1
ZABM	NUT - M12	3	3
ZABO	WASHER - M12	3	3
ZAES	WASHER - LARGE	1	1
ZABP	WASHER - M10	1	1
ZACO	SCREW - M12 x 65mm	1	1
ZACO	SCREW - M10 x 30mm	1	1

ASSEMBLY INSTRUCTIONS


13. PLACE THE BANJO ON THE BED BARS WITH A M12 NUT IN THE SLOT.
14. THREAD WASHER ONTO BANJO CLAMPING SCREW THEN PLACE INTO A SQUARE STRAP, POSITION BOLT RETAINER OVER BOLT LOCATING LUGS ON RETAINER INTO SQUARE STRAP. THE CLAMPING SCREW THEN LEADS UP THROUGH BED BARS AND SLOT IN BANJO AND SCREWED INTO M12 NUT. ENSURE THAT SINGLE PAD ON SQUARE STRAP CONTACTS FRONT BED BAR. POSITION OF NUT IN ITS SLOT SHOULD BE ROTATED IF NECESSARY TO GIVE OPTIMUM CLAMPING HANDLE POSITION (SEE FIG.2).
15. ENSURE GRUB SCREWS IN THE TWO PULLEYS ARE FULLY TIGHTENED (TWO GRUB SCREWS IN EACH TAPPED HOLE). IT IS ADVISABLE THAT THESE SHOULD BE CHECKED PERIODICALLY. USE 3mm ALLEN KEY.
16. IF LATHE IS ON A BENCH THAT IS WARPED OR UNEVEN THE EFFECT WILL BE TO THROW HEADSTOCK AND TAILSTOCK CENTRES INTO MISALIGNMENT. CORRECT BY PLACING A SPIRIT LEVEL ACROSS BED BARS, FIRST AT HEADSTOCK END, THEN TAILSTOCK END TO DETERMINE DEGREE OF CORRECTION REQUIRED. PLACE PACKING STRIPS EITHER UNDER FRONT OF ONE OF END BRACKETS OR BACK DEPENDING ON DIRECTION OF TILT REQUIRED TO GIVE SAME SPIRIT LEVEL READING AT BOTH ENDS OF BED, WHEN BOTH READINGS ARE IDENTICAL CENTRES SHOULD BE ALIGNED.

WIRING INSTRUCTIONS

THE LATHE IS SUPPLIED FITTED WITH A PLUG. SHOULD THIS BE CHANGED BY THE CUSTOMER, THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODES:

GREEN-AND-YELLOW : EARTH  BLUE : NEUTRAL BROWN : LIVE

"WARNING" THIS APPLIANCE MUST BE EARTHED.

THE GREEN-AND-YELLOW COLOURED WIRE MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER "E", OR BY THE EARTH SYMBOL .

THE BLUE COLOURED WIRE MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER "N".

THE BROWN COLOURED WIRE MUST BE CONNECTED TO THE TERMINAL WHICH IS MARKED WITH THE LETTER "L".

MACHINES SUPPLIED FOR USE IN THE U.K. ARE FITTED WITH A BS1363 13 AMP. 3 PIN PLUG. ENSURE YOU USE THE CORRECT PLUG FOR USE IN OTHER COUNTRIES.

REPLACING POWER SUPPLY CABLE

REPLACEMENT OF POWER SUPPLY CABLE SHOULD BE DONE BY A QUALIFIED ELECTRICIAN.

R.C.D. (RESIDUAL CURRENT DEVICE)

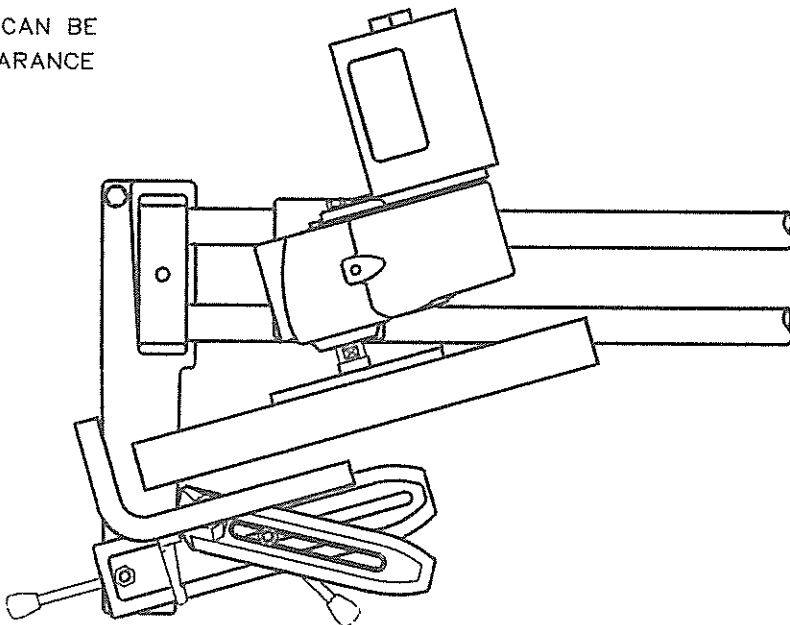
FOR YOUR ADDITIONAL SAFETY WE ALWAYS RECOMMEND THE USE OF AN R.C.D. (RESIDUAL CURRENT CIRCUIT BREAKER OR EARTH LEAKAGE CIRCUIT BREAKER).

PROCEDURE FOR CHANGING BELT

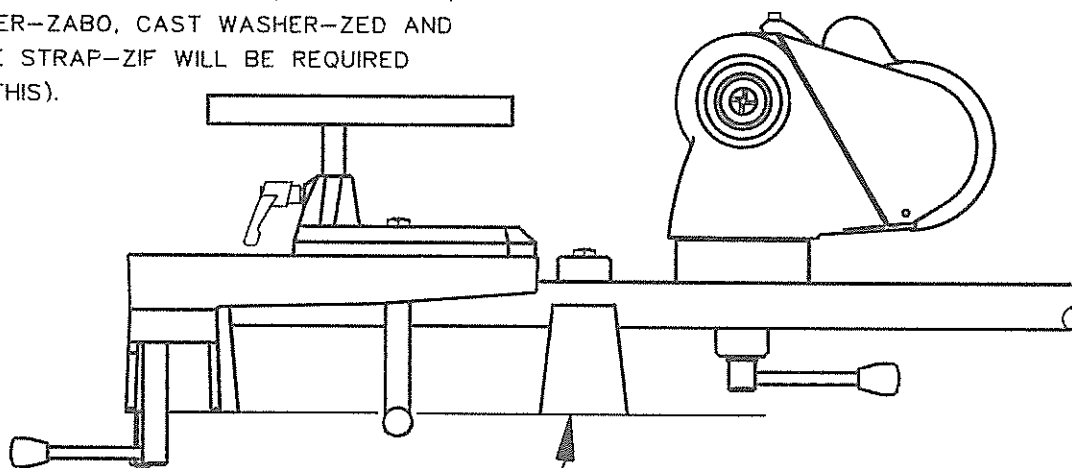
1. DISCONNECT THE ELECTRICAL POWER SUPPLY TO THE MACHINE.
2. ENSURE THE THREAD PROTECTOR IS ON THE SPINDLE NOSE.
3. OPEN THE GUARD.
4. REMOVE THE LOCKING GRUB SCREW FROM THE SPINDLE PULLEY, UNSCREW THE BOTTOM GRUB SCREW A FEW TURNS SO THAT THE PULLEY WILL SLIDE FREELY ALONG THE FULL LENGTH OF THE SPINDLE THAT IS INSIDE THE HEADSTOCK.
5. REMOVE THE SOCKET HEAD CAP SCREW AND WASHER FROM THE LEFT HAND END OF THE SPINDLE.
6. OBTAIN A PIECE OF BRASS OR SIMILAR MATERIAL SOFTER THAN MILD STEEL OF A DIAMETER BETWEEN 11mm (7/16") AND 13mm (1/2") PLACE AT THE LEFT HAND END OF THE SPINDLE AND CAREFULLY TAP WITH A HAMMER, DRIVING THE SPINDLE THROUGH TO THE RIGHT UNTIL IT BECOMES SUFFICIENTLY FREE TO ALLOW THE BELT TO BE CHANGED.
7. CHANGE THE BELT.
8. IF THE LARGE BEARING IS STILL IN THE HEADSTOCK THEN THE SPINDLE SHOULD BE TAPPED BACK IN POSITION USING A PIECE OF WOOD BETWEEN THE HAMMER AND THREAD PROTECTOR. IF THE LARGE BEARING HAS COME OUT WITH THE SPINDLE THEN IT SHOULD BE REPLACED BY TAPPING THE OUTER RING ONLY, TAPPING ROUND THE RING TO ENSURE IT SEATS SQUARELY. IF THE SMALL BEARING HAS BEEN PUSHED OUT BY THE PREVIOUS OPERATION THEN THIS ALSO SHOULD BE TAPPED BACK ON THE OUTER RING ONLY.
9. REPLACE THE SOCKET HEAD CAP SCREW AND WASHER (DO NOT OVER TIGHTEN.)
10. POSITION THE SPINDLE PULLEY SO AS TO LINE UP WITH THE MOTOR PULLEY. TIGHTEN THE SPINDLE PULLEY BOTTOM GRUB SCREW ENSURING THAT IT LOCATES ON THE SPINDLE FLAT THEN REPLACE THE LOCKING GRUB SCREW.
11. WITH THE BELT IN POSITION AND THE GUARD CLOSED THE MACHINE SHOULD BE RUN FOR A LITTLE TIME TO ENABLE THE BELT TO BED IN.

END TURNING UNIT

FOR THIN WORK THE HEADSTOCK CAN BE SWIVELLED TO GIVE MAXIMUM CLEARANCE FOR THE TURNING TOOL HANDLE.



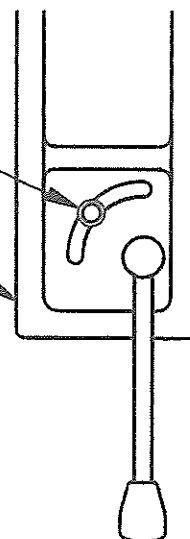
FOR EXCEPTIONALLY HEAVY DUTY WORK THE END BRACKET FROM THE STANDARD MACHINE CAN BE INCORPORATED. (AN EXTRA M12 NUT-ZABX, BOLT-ZABM, WASHER-ZABO, CAST WASHER-ZED AND ANGLE STRAP-ZIF WILL BE REQUIRED FOR THIS).



END BRACKET TO
IMPROVE RIGIDITY.

SWIVEL BRACKET
SECONDARY SCREW

UNDERSIDE OF END
TURNING BRACKET.



FOR NORMAL DUTY WORK THE SWIVEL BRACKET CLAMPING SCREW IS SUFFICIENT TO SECURE THE SWIVEL BRACKET IN POSITION BUT IF MOVEMENT IS ANTICIPATED THEN THE SWIVEL BRACKET SECONDARY SCREW SHOULD BE TIGHTENED ALSO.

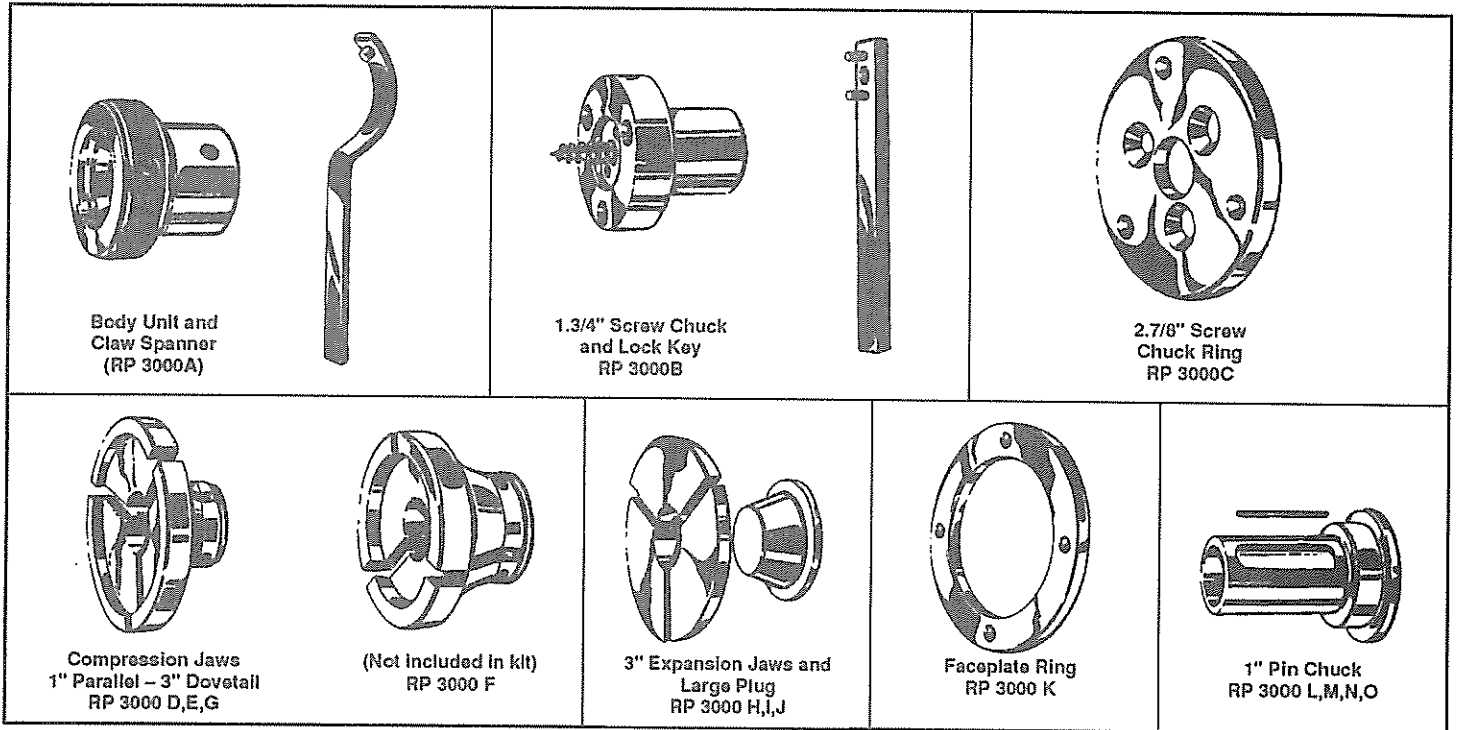
WOODTURNING ACCESSORIES

Power Chucks – Manufactured in Sheffield by RECORD

Cat. No. Description

RP3000 X1 Power Chuck Set RP3000 X1 – Complete Chucking System designed to fit all Record Power, Coronet and other makes of Lathes with 3/4" x 16 TPI Thread.

COMPLETE SET COMPRISES OF:- RP3000 A,B,C,G,J,K & N. (SHOWN BELOW)



All the above components, plus a range of alternate sizes, can be bought as individual accessories.

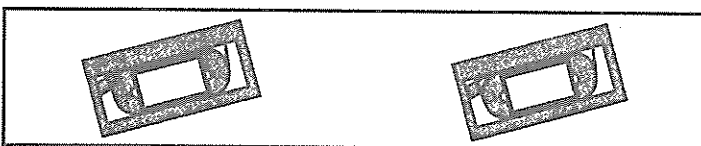
Cat. No. Description

- RP3000 A1 Chuck Body 3/4" x 16 TPI
- RP3000 B Screw Chuck & Lock Key 1 3/4"
- RP3000 C Screw Chuck Ring 2 7/8"
- RP3000 D Compression Jaws
3/8" Parallel – 5/8" Dovetail
- RP3000 E Compression Jaws
5/8" Parallel – 1.1/4" Dovetail
- RP3000 F Compression Jaws
3/4" Parallel – 2" Dovetail
- RP3000 G Compression Jaws
1" Parallel – 3" Dovetail
- RP3000 H Expanding Jaws
1" Jaw and small Plug

Cat. No. Description

- RP3000 I Expanding Jaws
1.3/4" Jaw and large Plug
- RP3000 J Expanding Jaws
3" Jaw and large Plug
- RP3000 K Face Plate Ring 4.1"
- RP3000 L Centrifugal Spigot
(Pin Chuck) 5/8"
- RP3000 M Centrifugal Spigot
(Pin Chuck) 3/4"
- RP3000 N Centrifugal Spigot
(Pin Chuck) 1"
- RP3000 O Centrifugal Spigot
(Pin Chuck) 1 3/8"

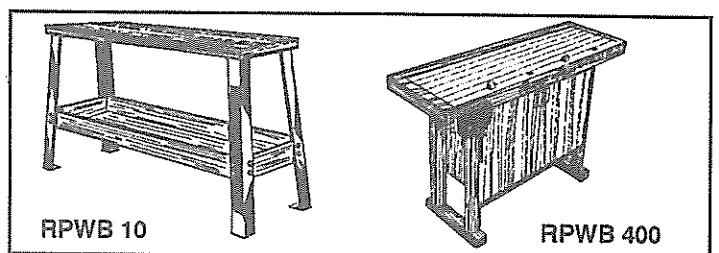
Videos



Cat. No. Description

- RPVID 1 Woodturning Workshop – 90 mins
- RPVID 3 Record Power's Popular Woodturning Projects – 2 1/2 hrs.

Benches


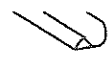

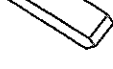
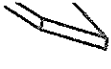


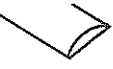



Cat. No. Description

- RPWB 10 Wood Turners Workbench
- RPWB 400 Woodbench and Vice

WOODTURNING TOOLS

HIGH SPEED STEEL - Manufactured in Sheffield by RECORD

ROUGHING GOUGES	SPINDLE GOUGES	SKEW CHISELS	SQUARE END CHISELS	PARTING AND BEADING	DEEP BOWL GOUGE	DOMED SCRAPER	OVAL SKEW CHISELS	DISC CHISEL
								
CH 100 CH 120	CH 200 CH 210 CH 220	CH 300 CH 310 CH 320 CH 330	CH 410 CH 420	CH 500 CH 520	CH 600 CH 601	CH 700 CH 701 CH 702	CH 900 CH 910 CH 920	CH 1000

						
STRAIGHT SCRAPER CH 800	FULL ROUND SCRAPER CH 810	DOMED SCRAPER CH 820	HALF ROUND L/H SCRAPER CH 830	HALF ROUND R/H SCRAPER CH 831	SKEW L/H SCRAPER CH 840	SKEW R/H SCRAPER CH 841

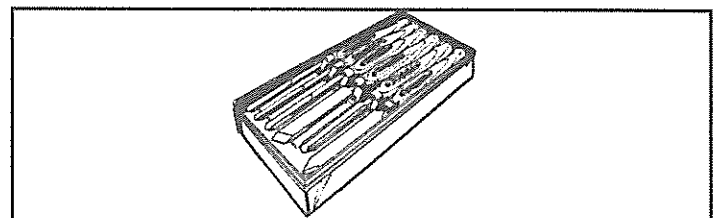
Cat. No. Description

CH 100 3/4" Roughing Gouge
 CH 120 1.1/4" Roughing Gouge
 CH 200 1/4" Spindle Gouge
 CH 210 3/8" Spindle Gouge
 CH 220 1/2" Spindle Gouge
 CH 300 1/2" Skew Chisel
 CH 310 3/4" Skew Chisel
 CH 320 1" Skew Chisel
 CH 330 1.1/4" Skew Chisel
 CH 410 3/4" Square End Chisel
 CH 420 1" Square End Chisel
 CH 500 1/8" Parting & Beading
 CH 520 3/8" Parting & Beading
 CH 600 1/2" Deep Bowl Gouge
 CH 601 1/4" Deep Bowl Gouge

Cat. No. Description

CH 700 1/2" Domed Scraper
 CH 701 3/4" Domed Scraper
 CH 702 1" Domed Scraper
 CH 800 Straight Scraper
 CH 810 Full Round Scraper
 CH 820 Domed Scraper
 CH 830 Half Round Left Hand Scraper
 CH 831 Half Round Right Hand Scraper
 CH 840 Skew Left Hand Scraper
 CH 841 Skew Right Hand Scraper
 CH 900 Oval Skew 3/4"
 CH 910 Oval Skew 1"
 CH 920 Oval Skew 1.3/4"
 CH 1000 Disc Chisel

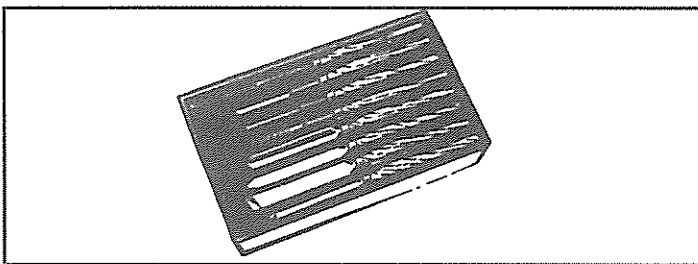
Carbon Steel Turning Tool Set



Cat. No. Description

DML A1 Set includes: 1/2" Round Nose Chisel, 1/2" Skew Chisel, 1/2" Diamond Nose Chisel, 1/2" Gouge, 1/4" Gouge, Parting Tool

HSS Turning Tool Sets



Cat. No. Description

RPCHS 3 3/4" Roughing Gouge, 1" Skew Chisel, 3/8" Spindle Gouge
 RPCHS 3A 1/8" Parting Tool, 1/4" Spindle Gouge, 1/2" Spindle Gouge
 RPCHS 5 1/4" + 1/2" Deep Bowl Gouge, 1/2", 3/4", 1" Scrapers
 RPCHS 6 3/4" Roughing Gouge, 1" Skew Chisel, 1/8" Parting Tool, 1/4" + 3/8" + 1/2" Spindle Gouge
 RPCHS 7 3/4" Roughing Gouge, 3/8" Spindle Gouge, 1/2" Spindle Gouge, 1.1/4" Skew Chisel, 3/8" Parting/Beading Tool, 1/2" Bowl Gouge, 1" Domed Scraper
 RPCHS 8 3/4" Roughing Gouge, 1" Skew Chisel, 1/8" Parting Tool, 1/4" + 3/8" + 1/2" Spindle Gouge, 1/4" Deep Bowl Gouge plus 3/8" Parting Tool