

Magnetic drilling machine

Model Number COMMANDO40/1, COMMANDO40/3

This machine (Serial Number) is CE approved.

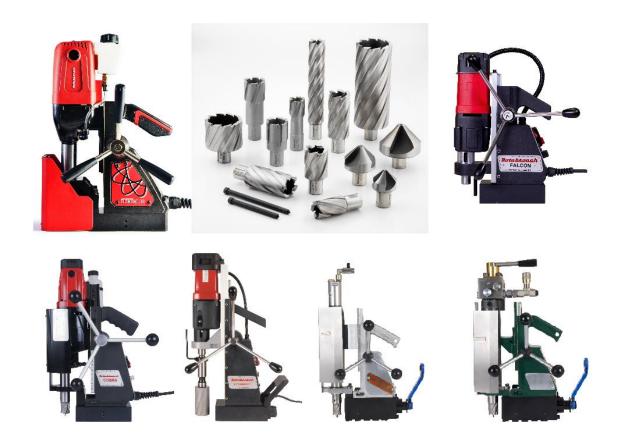
Rotabroach™ Ltd

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Thank you for purchasing our Commando 40 magnetic drill. We would really like your feedback on the machine.

Other Products by Rotabroach™:

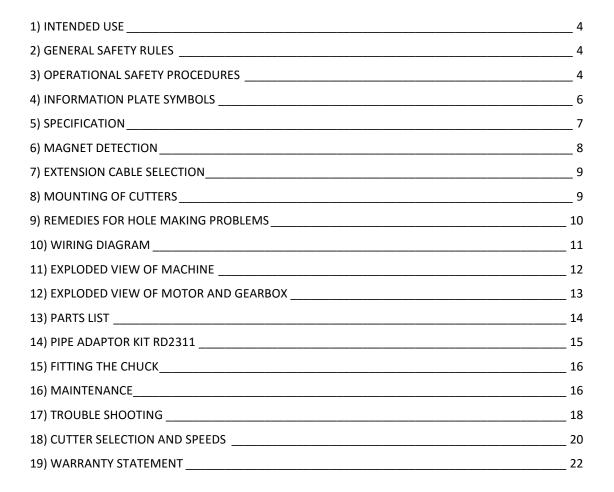


Thank you for your purchase of our product.

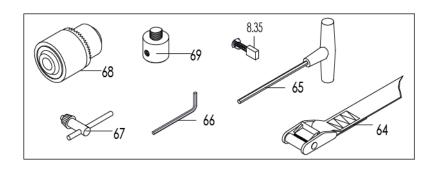
For more information please visit our website at www.rotabroach.co.uk

Or contact our sales department on +44 (0) 114 2212 510

CONTENTS OF THE MANUAL.



P/N	Drawing number	List of Contents with Magnetic Dill Unit	Check list (Y/N)				
RD4329	64	Safety Strip	Safety Strip				
RD4088	65	Hexagon Spanner 4mm	Hexagon Spanner 4mm				
RD4152	66	Hexagon Spanner 3mm					
RD33154	67	Drill Chuck Key					
RD43099	68	13mm Drill Chuck					
RD33153	69	Drill Chuck Adaptor					
RD35612	8.35	Replacement Carbon Brush					



1) INTENDED USE

The intended use of this magnetic drill, is to drill holes in ferrous metals. The magnet is used to hold the drill in place whilst the drill is functioning.

Any deviation from its intended use will not be covered by warranty.

2) GENERAL SAFETY RULES

Read all these instructions before attempting to operate the machine.

WARNING! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following.

Remove the power supply before carrying out any adjustment, servicing or maintenance.

Follow instructions for lubricating and changing accessories.

All repairs to be carried out by an authorized Rotabroach service facility.

3) OPERATIONAL SAFETY PROCEDURES

OPERATING INSTRUCTIONS

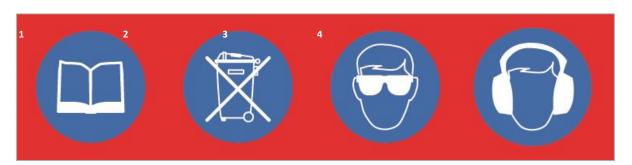
READ BEFORE USING THE MACHINE

- 1. BEFORE operating, the machine MUST be securely restrained to a fixed independent feature (by using safety strap RD4329, or other means), to reduce the potential free movement should the magnet become detached from the work piece. Failure to do so may result in personal injury.
- 2. Keep other persons away. DO NOT let untrained persons, especially children, touch the tool or the extension cord and keep them away from the work area.
- 3. Avoid unintentional starting. Ensure the magnet is OFF before plugging the machine in.
- 4. Consider the toxicity of dust produced from the cutter and material being cut. Use approved extraction and or Personal Protective Equipment (PPE).
- 5. Secure work where possible, use clamps or a vice to hold the work. It is safer than using your hand
- 6. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- 7. Never operate the machine if parts are missing or damaged.
- 8. Never direct jets of water or flammable liquids over the drill.
- 9. Operator must be physically able to handle the weight of the machine.
- 10. Operator should be trained in the use of the machine.
- 11. If the machine is accidentally dropped, ALWAYS thoroughly examine the machine for signs of damage and check that it functions correctly BEFORE resuming drilling.
- 12. ALWAYS ensure when using the machine in an inverted position that only the minimum amount of coolant is used and that care is taken to ensure that coolant does not enter the motor unit.
- 13. Keep work area clear cluttered areas and benches invite injuries.
- 14. Consider work area environment;
 - Do not expose tools to rain.
 - Do not use tools in damp or wet locations.

- Keep work area well lit (500 Lux recommended).
- Do not use tools in the presence of flammable liquid or gases
- Ensure there is adequate space to gain access to the plug, mains and motor on/off switches.
- Regularly clear the work area and machine of swarf and dirt, paying particular attention to the underside of the magnet base.
- 15. Do not force the machine. It will do the job better and safer at the rate for which it was intended.
- 16. Use the right tool;
 - Do not force small tools to do the job of a heavy duty tool.
- 17. When using the drill, always ensure a safe operating distance from any swarf and do not reach into the cutting area, or near the cutter, when the machine is running.
- 18. Do not overreach! Keep proper footing and balance at all times.
- 19. Cutting tools may shatter, ALWAYS position the guard over the cutter before activating the machine. Failure to do so may result in personal injury.
- 20. Apply light pressure when commencing to cut a hole until the cutter is introduced into the work surface. Pressure can then be increased sufficiently to load the motor. Excessive pressure is undesirable, it does not increase the speed.
- 21. Use Personal Protective Equipment (PPE) when using this machine;
 - Use safety glasses to prevent debris from damaging eyes.
 - Use ear defenders or ear plugs for hearing protection.
 - Use face or dust masks if cutting operations create dust.
 - Use protective gloves to prevent swarf or debris cutting the skin.
- 22. Dress properly;
 - Do not wear loose clothing or jewellery; they can be caught in moving parts.
 - Non-skid footwear is recommended when working outdoors.
 - Wear a protective hair covering to contain long hair. This will reduce the risk of entanglement.
- 23. Maintain tools with care;
 - Keep cutting tools sharp and clean for better and safer performance.
 - Regularly check the machine for any wear or damage.
 - Ensure the machine is clean and free from debris prior to use.
 - Remove from the mains prior to any maintenance.
 - Follow instructions for lubricating and changing accessories.
- 24. On completion of the cut, a slug will be ejected. DO NOT operate the machine if the slug has not ejected as it may cause injury.
- 25. If the slug sticks in the cutter, move the machine to a flat surface, switch on the magnet and gently bring the cutter down to make contact with the surface. This will usually straighten a cocked slug and allow it to eject normally.
- 26. Store idle tools when not in use. All tools should be stored in a dry locked-up place, out of reach of children
- 27. WARNING! The vibration emissions during actual use can differ from the declared total value depending on the ways in which the tool is being used.

- 28. Stay alert! Watch what you are doing, use common sense and do not operate the tool when you are tired. DO NOT operate the machine when under the influence of alcohol or ANY illegal substances.
- 29. Warning! The use of any accessory or attachment, other than ones recommended in this instruction manual, may present a risk of personal injury.
- 30. Insecure anchorage, a loosely fitting slide or a worn bearing in the arbor support usually causes cutter breakage.
- 31. Guard against electric shock: Avoid body contact with earthed or ground surfaces (e.g. pipes, radiators, cookers and refrigerators).
- 32. Electric safety can be further improved by using a high-sensitivity (30 m A/0.1s) residual current device (RCD).
- 33. Do not abuse the cord; never pull the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
- 34. Inspect tool cords periodically and if damaged have it repaired by an authorized Rotabroach service facility.
- 35. Only use extension cables approved for site conditions.

4) INFORMATION PLATE SYMBOLS



- 1 Refer to the user manual for operational and safety issues with regard to this machine.
- 2 Dispose of the machine and electrical components correctly.
- **3** Eye protection must be worn when operating the machine.
- **4** Ear defenders must be worn when operating the machine.

5) SPECIFICATION



Maximum hole cutting capacity in .2/.3C steel = 40mm dia. x 50mm deep

Arbor bore = 19.05mm (3/4") dia.

Motor Unit	COMMANDO40/1	110V 50-60Hz	1100W (10A)			
(Nominal values)	COMMANDO40/3	230V 50-60Hz	1100W			
Electro Magnet	COMMANDO40/1	110V 50-60Hz	45W			
	45W					
Total Normal Full Loa	1145					
Overall	Height (maximum	extended)	510 mm			
Dimensions	Width (including H	and Wheel)	180 mm			
	Length Overall (inc	luding Guard)	265 mm			
	Magnet Footprint		165mm x 80mm			
Nett Weight			14.6 kg			
Stroke	Stroke					
No Load speed	270-610 rpm					
Tractive Force of Mag	8000N					
magnetic performand the magnet and work possible an alternativ Failure to do so may	ce. If possible substitute of piece to equate to a sure of secure method of res result in personal injury					
Maximum hand/arm						
accordance with ISO5	2.892 m/s ²					
Estimate of vibration	0.13 m/s ² A(8)					
Average noise level d	uring cutting at operator	's ear position.	L _{PA} Max. 88.4 dB(A) L _{WA} Max. 101.4dB(A)			

Ear and eye defenders must be worn when operating this machine. Wear gloves to protect hands when operating the machine.

These tools are UK designed and manufactured with globally sourced components and conform with the requirements of EEC Document HD.400.1 and BS.2769/84

Suitable only for a single phase 50-60Hz A.C. power supply

DO NOT USE ON D.C. SUPPLY

Do not use your magnetic drill on the same structure when arc welding is in progress.

D.C. current will earth back through the magnet and cause irreparable damage.

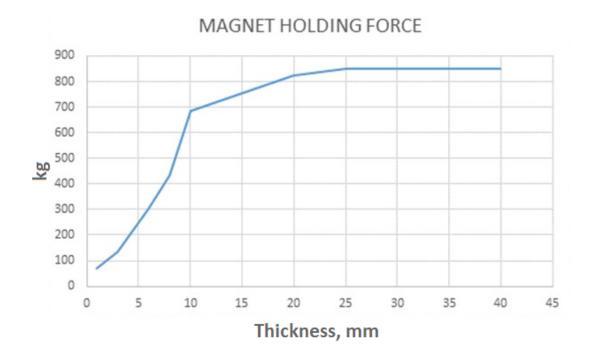
WARNING: THIS APPLIANCE MUST BE EARTHED!

NB: ANY MODIFICATIONS TO THIS MACHINE WILL INVALIDATE THE GUARANTEE

6) MAGNET DETECTION

It is advised that when working on thin material a packing piece should be used to increase the material thickness under the magnet. Working on thin material without a packing piece will reduce the magnet holding force.

It is advised that the drill is to be operated on ferrous material 6mm thick and above. Damage to the magnet base, such as pitting, will affect the strength of the magnet holding force.



7) EXTENSION CABLE SELECTION

The machines are factory fitted with a 3 meter length cable, having three conductors 1.5mm² LIVE, NEUTRAL and EARTH. If it becomes necessary to fit an extension cable from the power source, care must be taken in using a cable of adequate capacity. Failure to do so will result in a loss of traction by the magnet and a reduction of power from the motor.

Assuming a normal AC supply of the correct voltage, it is recommended that the following extension lengths shall not be exceeded:

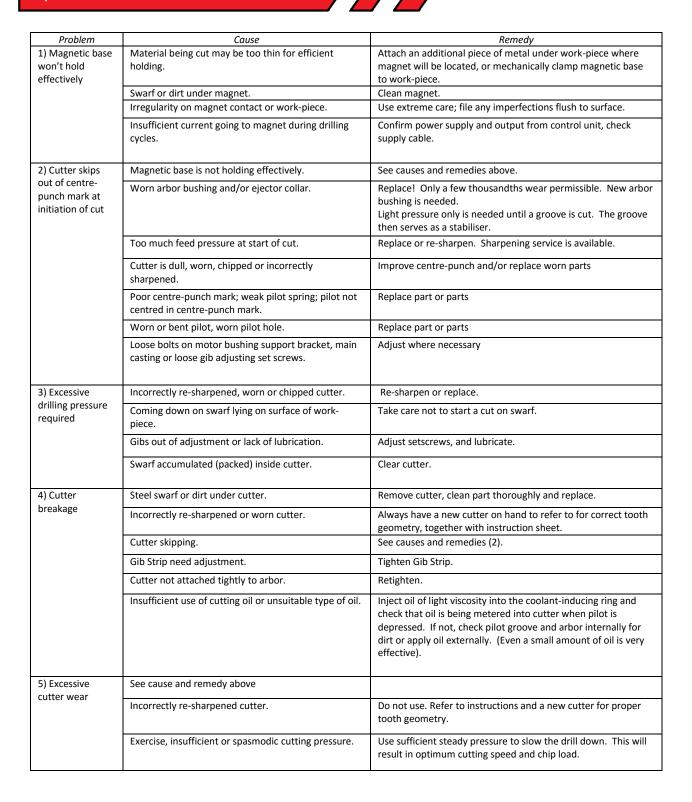
For 110v supply: 3.5metres of 3 core x 1.5mm² For 230v supply: 26metres of 3 core x 1.5mm²

ALWAYS DISCONNECT THE MACHINE FROM THE POWER SOURCE BEFORE CHANGING CUTTERS.

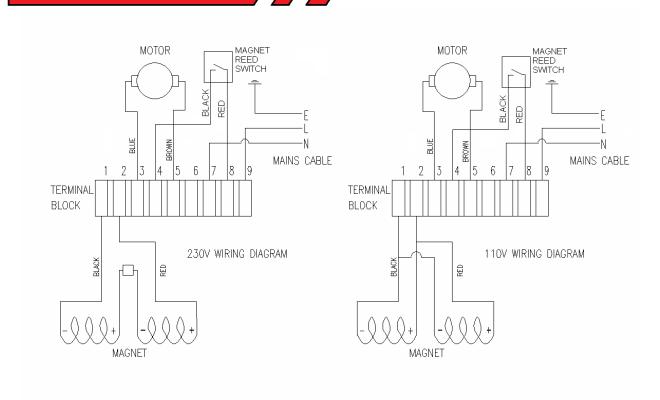
8) MOUNTING OF CUTTERS

- The machine has been made to accept cutters having 19.05mm (3/4") dia. Weldon shanks. The following procedure is to be used when mounting cutters:
 - Lay the machine on its side with feed handles uppermost, ensuring arbor is wound down to its lowest point to enable access to socket screws RD4066.
 - Take appropriate pilot and place through the hole in the cutter shank. Insert shank
 of cutter into bore of arbor, ensuring alignment of two drive flats with socket
 screws.
 - o Tighten both screws using hexagon key.

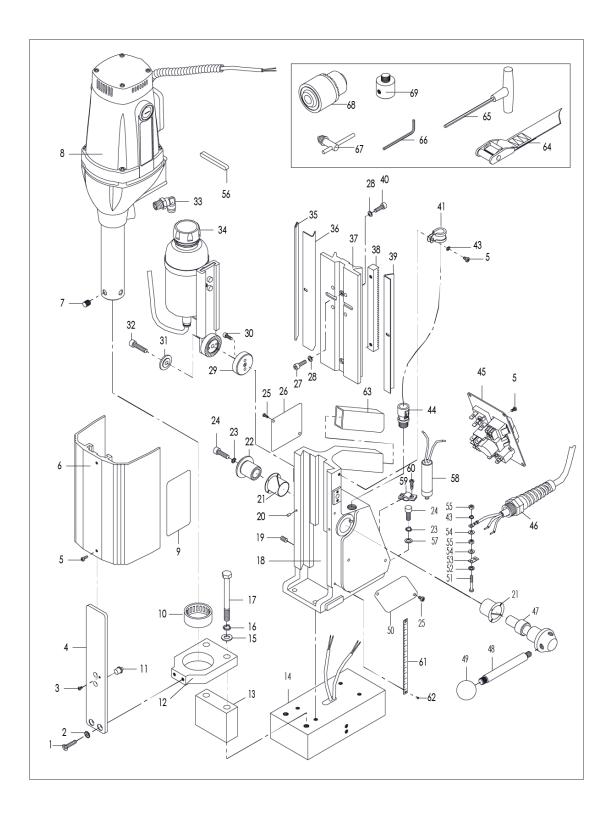
9) REMEDIES FOR HOLE MAKING PROBLEMS



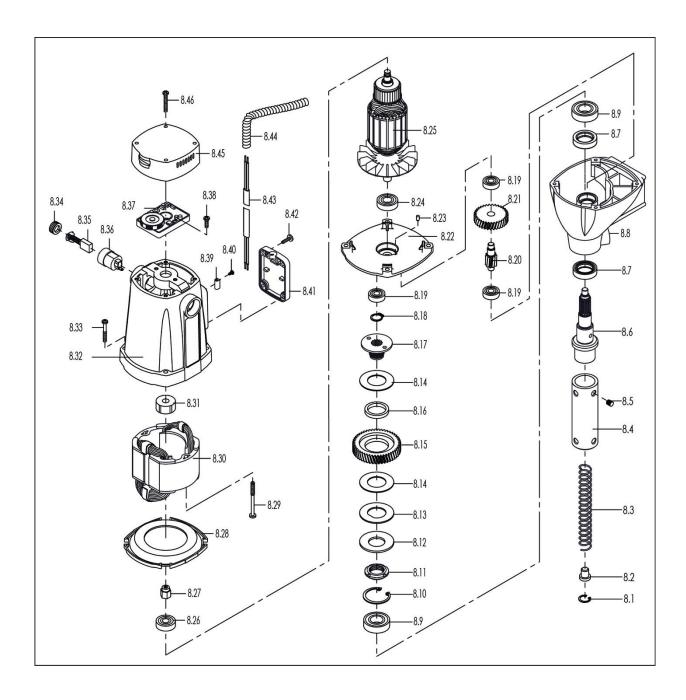
10) WIRING DIAGRAM



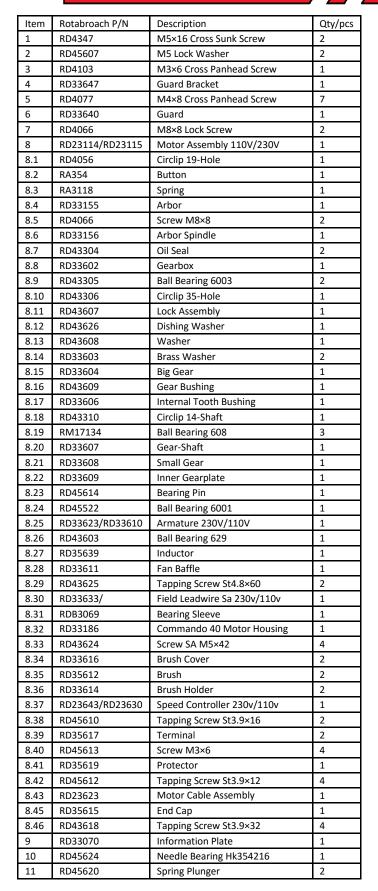
11) EXPLODED VIEW OF MACHINE



12) EXPLODED VIEW OF MOTOR AND GEARBOX



13) PARTS LIST

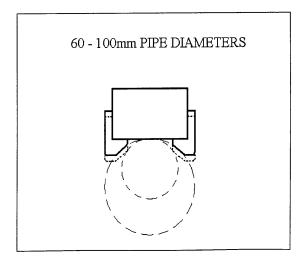


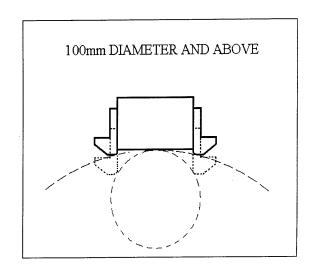
Item	Rotabroach P/N	Description	Qty/pcs
13	RD33148	Spacer For Bearing Bracket	1
14	RD23626/RD23625	Magnet Base Assembly	1
15	RD4078	M8 Flat Washer	2
16	RD4079	M8 Elastic Washer	2
17	RD43619	M8×88 Hex Head Tap Bolt	2
18	RD33632	Housing Assembly	1
19	RD4312	M6×12 Lock Screw	4
20	RD45622	Pin 3×8	2
21	RD4313	Sleeve	2
22	RD3303	Pinion Shaft Sleeve	1
23	RD4096	M6 Elastic Washer	5
24	RD4098	M6×20 Socket Cap Screw	5
25	RD4077	M4×6 Cross Panhead Screw	4
26	RD4302	Warning Label	1
27	RD4325	M5×16 Socket Cap Screw	2
28	RD4092	M5 Elastic Washer	6
29	RD33338	Dirigible Wheel	1
30	RD4414	M4×10 Socket Cap Screw	2
31	RD33320	Clamp Assembly	1
32	RD4269	M6×25 Socket Cap Screw	1
33	RD45605	Coolant Elbow	1
34	RD23603	Cooling Bottle Assembly	1
35	RD33644	Gib Support Strip	1
36	RD33645	Adjustable Gib Strip	1
37	RD33630	Slide	1
38	RD33600	Rack	1
39	RD33646	Fixed Gib Strip	1
40	RD4091	M5×25 Socket Cap Screw	4
41	RD4210	Coil Pipe Clamp	1
43	RD43357	Spring Washer M4	2
44	RD43600	Connector	1
45	RD23110/RD23109	Control Panel Assembly	1
46	RD25620/RD25619	Cable Assembly 230v/110v	1
47	RD33643	Capstan Spindle	1
48	RD33642	Capstan Arm	3
49	RD43091	Capstan Ball	3
50	RD33178	Brand Label	1
51	RD45621	M4×22 Cross Panhead Screw	1
52	RD4069	M4 External Tooth Washer	1
53	RD45604	Earth Tag	1
54	RD4070	M4 Flat Washer	2
55	RD4068	M4 Hexagon Nut	2
56	RD33341	Flat Key	1
57	RD4095	M6 Flat Washer	4
58	RD45606	Protecting Switch	1
59	RD43117	Cable Gland	1
60	RD43093	M4×14 Cross Panhead Screw	2
61	RD33145	Depth Gauge	1
62	RD33146	Label-Plate Rivet	2
63	RD33144	Handle Sheath	1
64	RD4329	Safety Strip	1
65	RD4088	Hexagon Spanner 4mm 1	
66	RD4152	Hexagon Spanner 3mm	1
67	RD33154	Drill Chuck Key	1
68	RD43099	13mm Drill Chuck	1
69	RD33153	Drill Chuck Adaptor	1
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14) PIPE ADAPTOR KIT RD2311



- Dependent upon the size of the pipe to be cut (see illustrations) attach adjustable angle plates RD3328 with cap screws RD4325 and washers RD4205 (4 off each) to the magnet sides. Do not tighten.
- Locate the machine on the centreline of the pipe taking care that the magnet is in line with the longitudinal axis of the pipe.
- Switch on the magnet and move the sliding plates down to the outside diameter of the pipe. Tighten the screws on both
 sides by hand then check once again that the full length of the moving plates is touching the pipe at the front and back,
 fasten the plate securely. Feed the safety strap through the lugs at the front of the housing, around the pipe and pull
 tight.
- When cutting the hole DO NOT use excessive pressure but rather let the cutter ease into the cutting surface.





15) FITTING THE CHUCK

- To remove the arbor lay the machine on its side.
- Unscrew the two grub screws at the top of the arbor.
- When the arbor has become detached from the spindle this can then be removed.
- Remove the arbor support bracket and guard with the arbor retained.
- Mount the chuck using the chuck adaptor RD33153.
- Replacing the chuck is the reverse sequence.

16) MAINTENANCE

In order to 'get the best life' out of your Rotabroach machine always keep it in good working order.

A number of items must always be checked on Rotabroach machines.

Always before starting any job make sure the machine is in good working order and that there are no damaged or loose parts. Any loose parts must be tightened.

Before proceeding with any maintenance work be certain that the power supply is disconnected.

Description	Every operation	1 week	1 Month
Visual check of machine			
for damage	X		
Operation of machine			
	X		
Check brush wear		Х	
Check magnetic base	Х		
Check alignment of the			Х
machine			
Check grease			Х
Check armature			Х

Visually check the machine for damage.

The machine must be checked before operation for any signs of damage that will affect the operation of the machine. Particular notice must be taken to the mains cable, if the machine appears to be damaged it should not be used, failure to do so may cause injury or death.

Check operation of the machine.

The machines operation must be checked to ensure that all components are working correctly.

Machine Brushes - should be checked to make sure there is no abnormal wear present (this should be checked at least once a week if used frequently). If the brush has worn more than $\frac{2}{3}$ the original length, the brushes should be changed. Failure to do so may cause damage to the machine.

Magnetic base – before every operation the magnetic base should be checked to make sure that the base is flat and there is no damage present. An uneven magnet base will cause the magnet not to hold as efficiently and may cause injury to the operator.

Adjustment of slide and bearing bracket alignment.

An essential requirement of the machine is that the slide can move in a smooth and controlled manner, free of lateral movement and vibration.

This situation can be maintained by periodic adjustment of the slide and is accomplished in the following manner:

- Place the machine in an upright position and, by means of the capstan, raise the slide to its highest position. Clean the brass Gib Strips and apply a small amount of light machine oil to the wear surfaces.
- 2. Now lower the slide back to its lowest position. Bring the slide into the center of the dovetail slide housing and loosen screws thus allowing free movement of the arbor support bracket.
- 3. Commencing with the middle screws, gently feed in all the screws until slight resistance is encountered.
- 4. Operate the slide up and down a few times to test the movement and make any further necessary adjustments. Try to ensure that all the screws are exerting a uniform pressure on the slide from top to bottom. A perfectly adjusted slide will operate freely up and down without any sideways movement.
- 5. Now raise the slide to its highest position. Slightly undo the arbor bearing bracket and, using fingers only, tighten the screws.
- 6. Place the machine on a steel plate, connect to power supply and switch on the magnet. Start up the motor. If the arbor is incorrectly aligned, the arbor support bracket will be seen to oscillate. Make any necessary further adjustments to the bracket to ensure correct alignment of the spindle and finally tighten the screws using a spanner. Lastly tighten the arbor bearing bracket.

Check machines grease.

The gearbox grease should be checked once a month to ensure all moving components are covered to prevent wear. The grease should be changed at least once a year to ensure you gain the best from your machine.

Check Armature of the machine.

This should be checked at least once a month to check that there are no visual signs of damage to the body or to the commutator. Some signs of wear will be seen on the commutator over a period of time but this is normal (this is the part that comes into contact with the brushes) however, if there are any signs of abnormal damage the part should be replaced.

17) TROUBLE SHOOTING

Magnetiadelmoltangelo not function	Theorem and determination minimum and control to the newer cumply
Miagreeuauerimonalgeo not function	- Danaman et al. Dana
	- Defeative oragefective wiring
	- Defeative respect with
	- Defective magnet switch
	- Defective control unit
	- Defective power supply
Magnet does function, the motor	- Damaged or defective wiring
does not	- Carbon brushes are stuck or worn out
	- Defective magnet switch
	- Defective on / off switch
	- Defective Control Unit
	- Defective armature and/or field
	- Defective magnet protective switch
Magnet does not function, the motor	- Defective magnet
does	- Defective control unit
Hole cutters break quickly, holes are	- Play in the guide
bigger than the hole cutter	- Bent spindle
	- Defective magnet causing movement
	- Shaft extending from the motor is bent
	- Uneven work surface causing lack of magnetic adhesion.
	- Bent pilot
Motor running roughly and/or seizing	- Bent spindle
up	- Shaft extending from the motor is bent
	- Triangular guide not mounted straight
	- Dirt between spindle and triangular guide
Motor making a rattling sound	- Gear bearing (bottom of the armature) worn out
	- Gear(s) worn out
	- No grease in gear box
Motor humming, big sparks and	- Armature burned
motor has no force	- Field burned
	- Carbon brushes worn out
Motor does not start or fails.	- Damaged or defective wiring
initial does not start or rails.	- Dirt in sensor of speed control unit
	- Defective speed control unit
	- Defective speed control or its wiring
	- Defective or loose magnet on top of armature
	- Damaged or defective brushes
Guiding takes a great deal of effort	- Guide is set too tight
duding takes a great dear or enort	- Guide is dry
	- Guide/gear- rack/rotation system dirty or damaged
Insufficient magnetic force	
Insufficient magnetic force	- Damaged or defective wiring
	- Bottom of magnet not clean and dry
	- Bottom of magnet not flat
	- Work piece is not bare metal
	- Work piece is not flat
	- Work piece is too thin less than 10mm
	- Defective control unit
	- Defective magnet
Motor only runs at maximum rpm	- Defective speed switch
	- Damaged / defective wiring
	- Defective control unit

Fuse blows when magnet switch is	- Damaged or defective wiring			
turned on	- Wrong value fuse			
	- Defective magnet switch			
	- Defective control unit			
	- Defective magnet			
Fuse blows when motor is started up	- Damaged or defective wiring			
	- Wrong value fuse			
	- Motor running roughly			
	- Defective armature and / or field			
	- Carbon brushes worn out			
	- Defective control unit			
Rotation system free stroke too long	- Loose or defective gear-rack			
	- Defective rotation system			

18) CUTTER SELECTION AND SPEEDS

Material	Material Hardness	Cutter				
Mild and free cutting steels	<700N/mm²	RAP or RAPL				
Mild and free cutting steels	<850N/mm²	SRCV or SRCVL				
Steel angle and joists	<700N/mm²	RAP or RAPL				
Steel angle and joists	<850N/mm²	SRCV or SRCVL				
Plate and sheet steel	<700N/mm²	RAP or RAPL				
Plate and sheet steel	<850N/mm²	SRCV or SRCVL				
Aluminium	<750Nmm²	RAP or RAPL				
Aluminium	<850N/mm²	SRCV or SRCVL				
Brass	<700N/mm²	RAP or RAPL				
Brass	<850N/mm²	SRCV or SRCVL				
Cast iron	<700N/mm²	RAP or RAPL				
Cast iron	<850N/mm²	SRCV or SRCVL				
Stainless steel	<700N/mm²	RAP or RAPL				
Stainless steel	<850N/mm²	SRCV or SRCVL				
Stainless steel	>850N/mm²	CWC to CWCX				
Rail track	>850N/mm²	SCRWC or SCRWCL				
Tool steel	>850N/mm²	CWC to CWCX				
Die Steel	>850N/mm²	CWC to CWCX				

Possible speed selection for mild steel with ideal conditions at 30 M/min.

Speed selector position.	Cutter diameter	Nominal RPM			
1	40	270			
2	32	330			
3	24	400			
4	19	470			
5	16	570			
6	14	610			

This data is presented for guidance only, and should be adjusted to suit site and material condition.

The data listed below is for reference purposes only, and indicate potential starting conditions. It is the responsibility of the site operation manager to determine correct application requirements.

Retuktoach	Cutting surface	Cutter diameter/Material/RPM relationship													
	speed Meters/min	13		14		18		22		30		50		65	
Material to be cut	Lower - Upper	L	U	L	U	L	U	L	U	L	U	L	U	L	U
Aluminium	60 - 90	1469	2203	1364	2046	1061	1591	868	1302	637	955	382	573	294	441
Brass & Bronze	40 - 50	979	1224	909	1137	707	884	579	723	424	530	255	318	196	245
Iron: cast(soft)	30 - 50	734	1224	682	1137	530	884	434	723	318	530	191	318	147	245
cast(hard)	15 - 21	367	514	341	477	265	371	217	304	159	223	95	134	73	103
cast(malleable)	15 - 30	367	734	341	682	265	530	217	434	159	318	95	191	73	147
Steel: mild	24 - 30	588	734	546	682	424	530	347	434	255	318	153	191	118	147
high tensile	3 - 5	73	122	68	114	53	88	43	72	32	53	19	32	15	24
stainless (free cutting)	15 - 18	367	441	341	409	265	318	217	260	159	191	95	115	73	88
stainless (heat resisting)	6 - 13	26	318	136	296	106	230	87	188	64	138	38	83	29	64

These are only starting points. They will vary with application and work piece condition.

Material or Application Type	Feed Per Tooth (mm)
Thin Walled Workpieces Oblique Entry / Curved Surfaces Semi-Circles / Fragile Setups	.0254 / .0508 (.0762 FPT with Work Hardening Materials)
Soft / Gummy Materials	.1016 / .127
Typical / Average Applications	.0762 / .1016
Deep Holes	.1016 / .127

Difficult-to-machine materials will require reduced feed rates.



Rotabroach™ warrants its machines to be free from faulty materials, under normal usage of machines, for a period of 12 months from initial date of purchase. All other parts (excluding cutters) are under warranty for 90 days, provided that the warranty registration card (or online registration) has been completed and returned to Rotabroach™ or its designated distributor within a period of (30) days from the purchase date. Failure to do so will void the warranty. If the stated is adhered to, Rotabroach™ will repair or replace (at its option) without charge any faulty items returned.

This Warranty does not cover:

- Components that are subject to natural wear and tear caused by the use not in accordance with the
 operators instructions
- Defects in the tool caused by non-compliance with the operating instructions, improper use, abnormal environment conditions, inappropriate operating conditions overload or insufficient servicing or maintenance.
- 3. Defects caused by using accessories, components or spare parts other than original Rotabroach™ parts.
- 4. Tools to which changes or additions have been made.
- 5. Electrical components are subject to manufacturer's warranty.

Your online registration can be submitted at www.rotabroach.co.uk

The warranty claim must be logged within the warranty period. This requires the submission or sending of the **complete** tool in question with the original sales receipt which must indicate the purchase date of the product. A complaint form must also be submitted prior to the return.

This can be found online at www.rotabroach.co.uk. Failure to complete this form will result in the delay of your claim.

All goods returned defective must be returned pre-paid to Rotabroach™, in no event shall Rotabroach™ be liable for subsequent direct, or indirect loss or damage.

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