

# ALFRA Rotabest Piccolo 32/50 Weldon Metal Core Drilling Machine



## Operation Manual



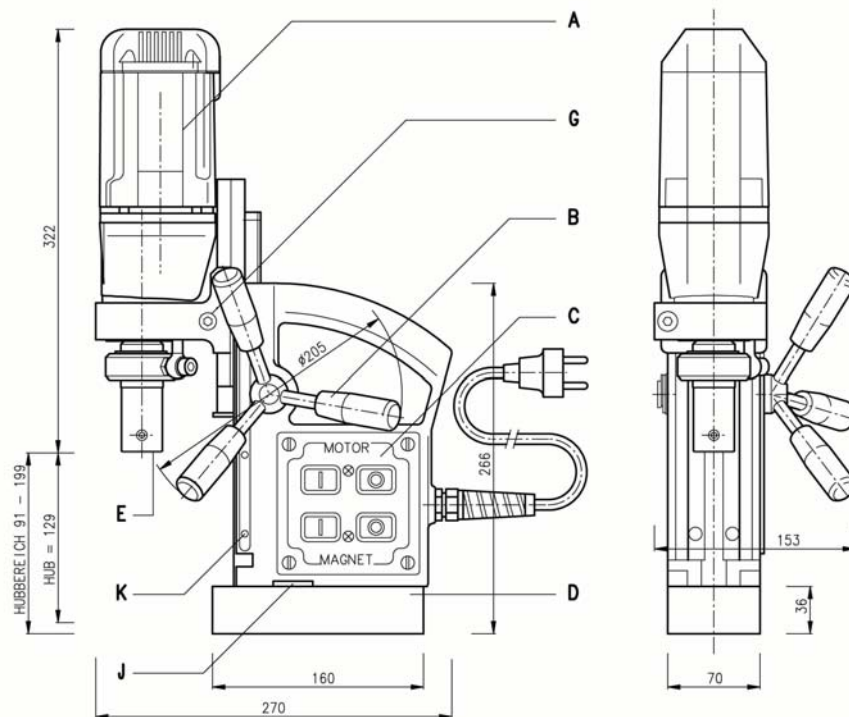
06/2005

## 1. Technical Data

Prod. – No.:	18550
Name :	Rotabest Piccolo 32/50 Weldon
Input:	1050 Watt
Load rpm:	400 rpm
Tool Holder :	¾" (19 mm) Weldon
Coolant supply:	internal, automatically
Voltage:	(see nameplate)
Magnetic Adhesion:	8000 N
Boring Ø max. in Steel:	
- Core Cutter	32 mm (1 17/64")
- Twist Drills	10 mm (13/32")
Cutting Depth:	50 mm (2")
Stroke:	129 mm
Size of Magnet Foot:	70 x 160 mm

## 2. Description

- a) Motor
- b) Spindle
- c) Control Panel
- d) Magnet Foot
- e) Weldon Arbor
- f) Allan key for height adjustment on motor carriage slide
- j) Recess for safety belt
- k) Adjusting screws for adjusting the slide



### 3. Standard scope of supply

- a) Transport Case
- b) Coolant Unit
- c) Safety Belt
- d) Allan Key 2,5 mm
- e) Allan Key 4,0 mm
- f) Allan Key 6,0 mm

### Prior to use:



**Read Operation Manual!**



**Pay attention to Safety Precautions!**

### Appropriate Use

This device is destined to:

Cut material with magnetizable surface with core cutters, twist drills and to tap threads in sheltered environment for commercial use industry and craft. The device is suitable for drilling vertical, horizontal and overhead.

### 4. Safety Precautions

#### Danger of Injuries

During drilling operations on walls and ceilings, the Metal Core Drilling Machine must be safeguarded with the included safety belt (f). **The magnetic adhesion is not maintained in case of a failure of circuit.**

The cut core will be ejected automatically by the ejector pin. **Danger of accident! The ejector pin could possibly break in case of improper use.**

Only use undamaged power cord and extension cords and regularly check on damages!

**Power supply and voltage details at the device must correspond.**

### **Personal protection equipment**

When working with this device, wear the following protection equipment: Safety goggles, appropriate footwear, ear protection, hair net (for long hair), possibly also apron and safety helmet.

## **5. Precautions of use**

The place of installation for the magnet foot must be clean and rustfree. Remove lacquer- and filler.  
For non-magnetizable materials, please use the Rotabest Vacubest (Prod.- No. 18150).

Do not execute any electric welding on the workpiece, on which the Metal Core Drilling Machine is used.

The motor can be continuously adjusted on the slide by releasing the Allan screw (for a maximum enlargement of the stroke, when using twist drills, drill chucks or when tapping).



Prior to all operations, mount coolant unit (b).

### **Danger of injuries! Danger of an electric shock**

For operations on walls and ceilings, we recommend cooling with our spray (Alfra BIO 2000, Prod.- No. 21010).

## Switching on and off.

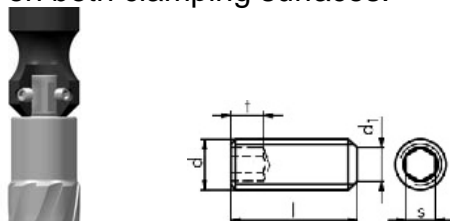


- Check connecting line and plug on damages first!
- Push button MAGNET ON, in order to initiate the magnet and the magnetic adhesion is guaranteed.
- When working on walls and ceilings, safe machine with safety belt (f).
- Push the button MOTOR ON to start the Motor.
- The magnet foot now reaches its maximum magnetic adhesion! In case of a damaged magnet, the motor won't start.
- To switch off machine proceed in reverse order : MOTOR OFF and then MAGNET OFF!

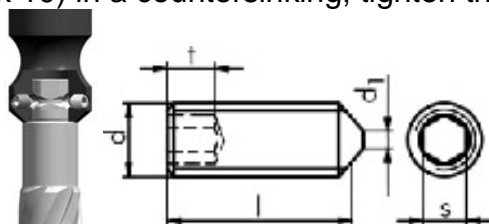
## Change of tools

### **How to work with annular cutters.**

- Push ejector pin (center pin) through head of annular cutter.
- Core drills with Weldon shank are tightened with clamping screws (DIN 913 M8 x 10) on both clamping surfaces.



Core drills with RotaQuick shank are tightened with clamping screws (DIN 914 M8 x 10) in a countersinking, tighten the second clamp screw.



### **How to work with twist drills.**

- The drill chuck is only to be used with twist drills
- Insert drill chuck with adaptor in the Weldon arbor (E).
- Insert twist drill in drill chuck and tighten.



### **Operating tips.**

First, place annular cutter with ejector pin on a marked center or marking. Drilling with ALFRA Rotabest cutters does not require much expenditure of force. Set the cutter and spot-drill, until the entire cut edge is formed as a circle.

During the drilling process, the cutter should be cooled permanently. Optimal Cooling is possible by internal cooling with our coolant unit.

During the drilling process, do not Stop the motor. After the process, cutter draw back with running motor.

Remove chips and core after each drilling. Remove chips with Chip-Remover – do not touch with bare hands – **DANGER OF INJURY!**

## 6. Cleaning.

**Danger of injuries** by unintentional switching on. Pull plug prior to cleaning.

Clean motor by means of dry compressed air ( from the outside).

Check connecting lines on damages.

Clean and grease sliding surfaces regularly. Should, nevertheless, lateral play arise by wear of the dovetail guide, this could be adjusted by adjusting the laterally positioned set screws (K).

Carbon brushes should be replaced after appr. 250 hours running time.

After the work is finished, we recommend to store the Metal Core Drilling Machine in the transport case in a lying position.

## 7. Maintenance and repair.




**Maintenance, check and repairs are only to be made by electronics specialists according to the valid regulations of the respective country.**

The Metal Core Drilling Machine ALFRA ROTABEST should be serviced after appr. 250 hours running time by our Alfra workshop or appointed dealers.

Only use genuine ALFRA spare parts.

Spare part list at the end of this operation manual.

## 8. Accessories

	<b>Alfra Rotabest HSS-Co RQX Core Cutter</b> Ø 12 – 32 mm (Ø 1/2" – 1 17/64") Cutting depth 25 mm (1") and 50 mm (2")
	<b>Alfra Rotabest HSS-Co Eco Core Cutter</b> Ø 12 – 32 mm (Ø 1/2" – 1 17/64") Cutting depth 25 mm (1") and 50 mm (2")
	<b>Center- and ejector pin</b> Product –No. 1926500: 25 mm (1") cutting depth Product –No. 1950500: 50 mm (2")= cutting depth
	<b>Alfra Rota Quick TCT Core Cutter</b> Ø 14 – 35 mm (Ø 11/16" – 1 3/8") Cutting Depth 35 mm (1 3/8") and 50 mm (2")



	<p><b>Center- and ejector pin</b>  <b>Product –No. 2001500: 35 mm (1 3/8”) cutting depth</b>  <b>Product –No. 2001501: 50 mm (2”) cutting depth</b></p>
	<p><b>HSS Countersink and Deburrer Ø 25 mm</b>  <b>Product -No. 18533</b>  <b>HSS Countersink and Deburrer Ø 40 mm</b>  <b>Product -No. 18534</b></p>
	<p><b>Drill Chuck Ø 1-13 mm</b>  <b>Product -No. 18107</b></p>
	<p><b>Attachment for clamping pipes</b>  <b>Product -No. 18019</b></p>
	<p><b>Vacuum device Vacubest</b>  <b>Product -No. 18150</b></p>
	<p><b>Coolant unit</b>  <b>Product -No. 18104</b></p>
	<p><b>Alfra Bio 2000 Cutting Oil</b>  <b>Product -No. 21010</b></p>
	<p><b>Alfra Magnetic Chip Remover</b>  <b>Product -No. 18654</b></p>

## **9. Guarantee**

For our ALFRA Rotabest Metal Core Drilling Machines we grant guarantee according to the legal and regional regulations (proven by invoice).

## **10. CE Declaration of Conformity**

We declare in our exclusive responsibility, that this product correspond to the following standards and specifications:

**Specification 89/392/EWG, 91/368/EWG  
DIN EN 292 part 1 and 2  
DIN EN 60204 part 1  
DIN VDE 0740 T**

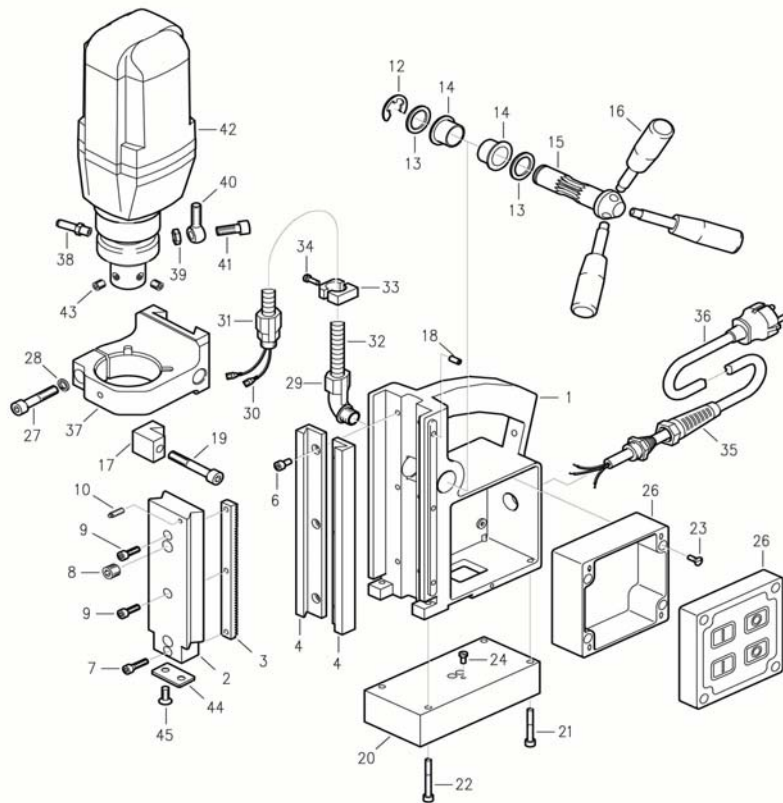
**The proof of an electromagnetic amicability took place according the appropriate EC-Specification 89/336/EWG after the following norms:**

**EN 61000-3-2:1995/A1:1998/A2:1998  
EN 61000-3-3:1995  
EN 55014-1:1993/ A1:1997 55014-2:1997**

**If the electric tool is modified without our authorization, this declaration will lose ist validity and the guarantee expires.**

The sound pressure level at the work place might exceed 85 dp(A). In case the user must wear hearing protectors.

# 11. Spare Parts

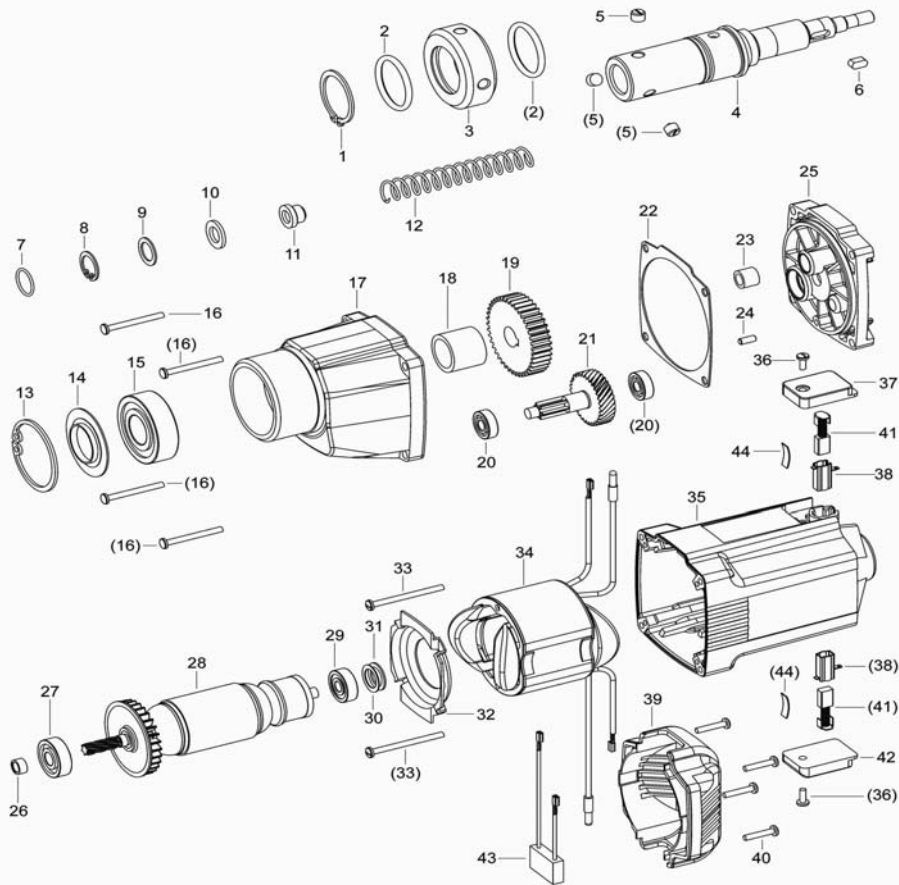


Änderungen vorbehalten

Pos.	N°	Stück
1	189301050	1
2	189301088	1
3	189301003	1
4	189301052	2
6	189020512	6
7	189020520	1
8	189041210	2
9	189020516	2
10	189030516A	1
12	189100015	1
13	189112028	2
14	189301014	2
15	189301015	1
16	189301055	3
17	189501076	1

18	189040510	3
19	189010850	1
20	189411022	1
21	189010535	2
22	189010540	2
23	189140416	4
24	189120410	1
26	189491003 (230 Volt=)	1
26	189491005 (110 Volt)	1
27	189010840	1
28	189060008	1
29	189301031	1
30	189301030	1
31	189490603	1
32	189301032	1

33	189301033	1
34	189140416	1
35	189490602	1
36	189480276	1
36	189480276GB	1
37	189301089	1
38	189302043	1
39	189050008	1
40	189301090	1
41	189010820	1
42	18214	1
42	18214.110	1
44	189301091	1
45	189140616	2



Pos	N°	Stück
1	189311051	1
2	189311006	2
3	189311007	1
4	189311052	1
5	189621036	3
6	189311017	1
7	189311009	1
8	189311010	1
9	189311011	1
10	189311012	1
11	189311013	1
12	189311014	1
13	189311018	1
14	189311019	1
15	189311020	1
16	189311016	1

16	189311021	4
17	189311022	1
18	189311023	1
19	189311024	1
20	189311025	2
21	189311026	1
22	189311027	1
23	189311028	1
24	189311029	1
25	189311030	1
26	189311031	1
27	189311032	1
28	189311033	1
28	189311033.110	1
29	189311034	1
30	189311035	2
31	189311036	1

32	189311037	2
33	189311038	1
34	189311039	1
34	189311039.110	1
35	189311040	1
36	189311041	2
37	189311042	1
38	189311044	2
39	189311045	1
40	189311046	4
41	189311047	2
42	189311048	1
43	189311049	1
44	189311050	2