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professionals!





# RODIA® Diamond Core Drilling

|  |         |
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# RODIA® Diamond Core Drilling

## System Overview

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### Hand-Operated Drilling

**RODIADRILL Ceramic**



**RODIADRILL 160**



**RODIADRILL 200**



**RODIACUT® 150, RODIADRILL 160**



|  | Hand-Operated      | Hand-Operated     | Hand-Operated            | Hand-Operated/Stationary |
|--|--------------------|-------------------|--------------------------|--------------------------|
| <b>Stationary Drilling in Concrete:</b>    | Ø 6 - 67 mm        | Ø 10 - 132 mm     | Ø 10 - 200 mm            | Ø 10 - 132 mm            |
| <b>Stationary Drilling in Masonry:</b>     | Ø 6 - 67 mm        | Ø 32 - 162 mm     | Ø 32 - 250 mm            | Ø 10 - 152 mm            |
| <b>Hand-Operated Drilling in Concrete:</b> | Ø 6 - 35 mm        | Ø 10 - 82 mm      | Ø 10 - 82 mm             | Ø 10 - 82 mm             |
| <b>Hand-Operated Drilling in Masonry:</b>  | Ø 6 - 67 mm        | Ø 32 - 162 mm     | Ø 32 - 162 mm            | Ø 32 - 162 mm            |
| <b>Output:</b>                             | 800 Watt           | 1400 Watt         | 2400 Watt                | 1400 Watt                |
| <b>Gear:</b>                               | 2 Gear             | 2 Gear            | 3 Gear                   | 2 Gear                   |
| <b>Transmission:</b>                       | 3600 / 6400 r.p.m. | 500 / 1050 r.p.m. | 600 / 1250 / 3200 r.p.m. | 500 / 1050 r.p.m.        |
| <b>Torque:</b>                             | 4 / 7 Nm           | 55 / 27 Nm        | 71 / 34 / 17 Nm          | 55 / 27 Nm               |
| <b>Weight:</b>                             | 3,4 kg             | 6,7 kg            | 7,2 kg                   | 16,7 kg                  |

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### Drill Bits

**High Speed Plus-Nature stone\***



**DX- High Speed Plus\***



**SPEED STAR DX\***



|                             | High Speed Plus-Nature stone*                  | DX- High Speed Plus*   | SPEED STAR DX*   |
|-----------------------------|--|--|--|
| <b>Connection:</b>          | G 1/2"   | G 1/2", 1.1/4" UNC   | G 1/2", 1.1/4" UNC   |
| <b>Drill Bit Diameter:</b>  | Ø 6 - 67 mm                                    | Ø 20 - 300 mm  | Ø 10 - 500 mm  |
| <b>Working length:</b>      | up to Ø 10 mm = 50 mm<br>from Ø 12 mm = 120 mm | G 1/2", 400 mm working length<br>1.1/4" UNC, 430 mm working length | G 1/2", 400 mm working length<br>1.1/4" UNC, 430 mm working length |
| <b>Application:</b>         | wet  | wet & dry  | wet & dry  |
| <b>Tiles:</b>               | ☺☺☺  | ☺  | ☺☺   |
| <b>Granite:</b>             | ☺☺☺  | ☺  | ☺☺   |
| <b>Marble:</b>              | ☺☺☺  | ☺  | ☺☺   |
| <b>Brick:</b>               | ☺☺   | ☺☺☺**  | ☺☺☺**  |
| <b>Masonry:</b>             | ☺  | ☺☺☺**  | ☺☺**   |
| <b>Lime-Sand Brick:</b>     | ☺  | ☺☺☺**  | ☺☺**   |
| <b>Asphalt:</b>             | ☺☺   | ☺☺☺**  | ☺☺☺**  |
| <b>Screed:</b>              | ☺☺   | ☺☺☺  | ☺☺   |
| <b>Concrete:</b>            | ☺☺☺  | ☺☺☺  | ☺☺   |
| <b>Reinforced Concrete:</b> | ☺☺☺  | ☺☺   | ☺☺☺  |

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\* Special lengths and Diameters on request, \*\* Suitable for Dry Drilling, ☺☺☺ Ideally suited ☺☺ very suitable ☺ suitable

# RODIA® Diamond Core Drilling

## System Overview

### Stationary Drilling

**RODIACUT® 150,  
RODIADRILL 200**



**RODIACUT® 250,  
RODIADRILL 200**



**RODIACUT® 250,  
RODIADRILL 500**



**RODIACUT® 400 PRO,  
RODIADRILL 500**



|   | Hand-Operated/Stationary | Hand-Operated/Stationary | Stationary             | Stationary             |
|---|--------------------------|--------------------------|------------------------|------------------------|
| <b>Stationary Drilling in Concrete:</b>   | Ø 10 - 152 mm            | Ø 10 - 200 mm            | Ø 32 - 250 mm          | Ø 32 - 400* (500) mm   |
| <b>Stationary Drilling in Masonry:</b>    | Ø 32 - 225 mm            | Ø 32 - 225 mm            | Ø 32 - 250 mm          | Ø 32 - 400* (500) mm   |
| <b>Hand-Operated Drilling in Concrete</b> | Ø 10 - 82 mm             | Ø 10 - 82 mm             |                        |                        |
| <b>Hand-Operated Drilling in Masonry</b>  | Ø 32 - 250 mm            | Ø 32 - 250 mm            |                        |                        |
| <b>Output:</b>                            | 2.400 Watt               | 2.400 Watt               | 3.000 Watt             | 3.000 Watt             |
| <b>Gear:</b>                              | 3 Gear                   | 3 Gear                   | 3 Gear                 | 3 Gear                 |
| <b>Transmission:</b>                      | 600 / 1250 / 3200 r.p.m. | 600 / 1250 / 3200 r.p.m. | 215 / 430 / 785 r.p.m. | 215 / 430 / 785 r.p.m. |
| <b>Torque:</b>                            | 71 / 34 / 17 Nm          | 71 / 34 / 17 Nm          | 185 / 107 / 55 Nm      | 185 / 107 / 55 Nm      |
| <b>Weight:</b>                            | 17,2 kg                  | 25,2 kg                  | 30,1 kg                | 39,8 kg                |
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# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

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### Space Welding

Cold welding process according to cutting-edge bonding technology: Due to the "neutral zone" the entire diamond segment is used without waste.

#### SPACE WELDING

Wet and dry drilling with new technology:

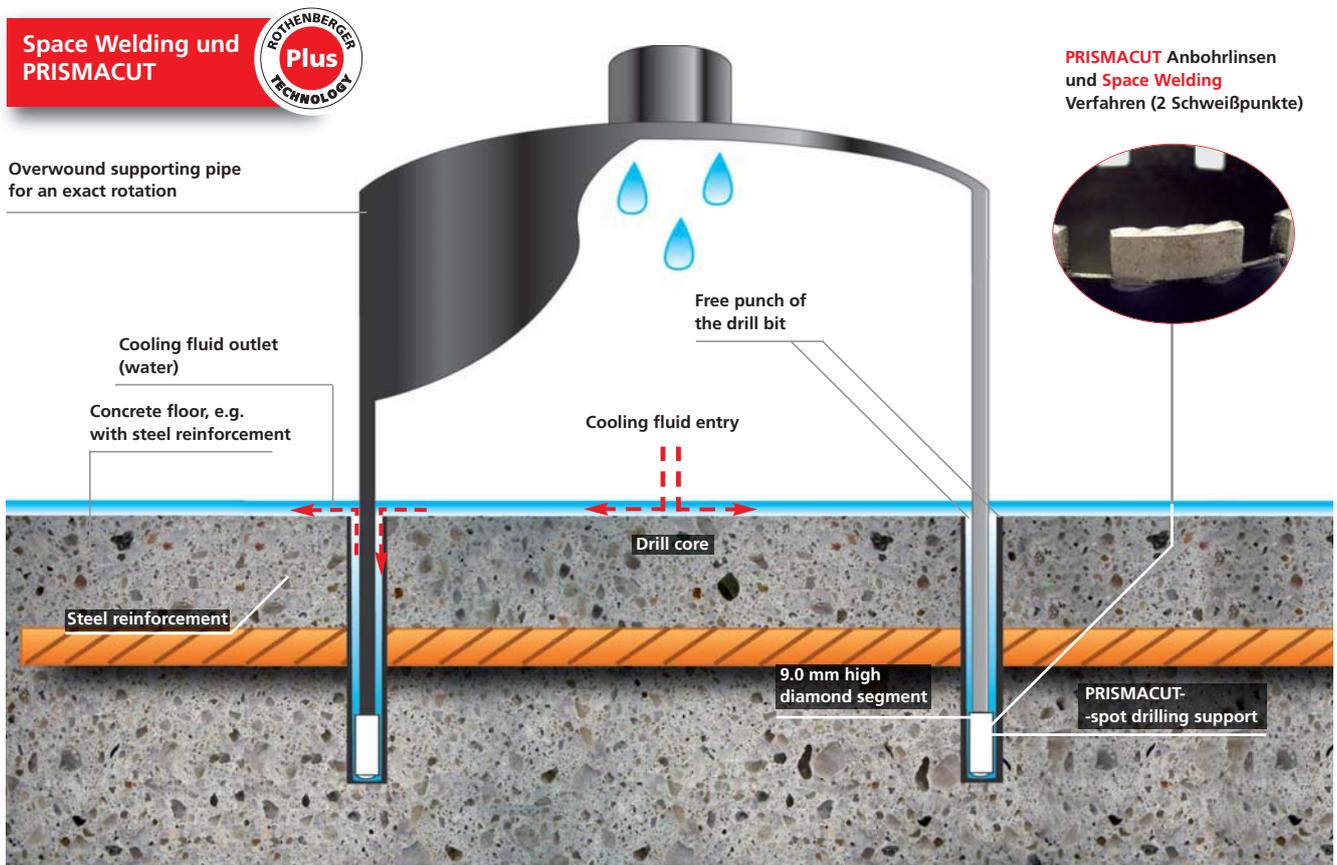
- The innovative high-performance drill bit DURAMANT PRO and SPEED STAR DX is produced using cutting-edge welding technology
- Because of the neutral zone, the "Space Welding" cold welding process guarantees the optimum use of the complete diamond segments without loss
- The service life is up to 20% higher compared to lasered and soldered drill bits

### PRISMACUT

Four drill nodules on the diamond segment improve the drill behaviour and at the same time provides optimum water cooling.

#### PRISMACUT

- The exceptional segment positioning offers optimum free punch size and an excellent cutting speed
- The "PRISMACUT" centre drill nodule is characterised by a better drill behaviour and preservation of the diamond segment
- PRISMACUT guarantees direct water cooling of the diamond segments
- 15% higher cutting speed with steel reinforcement



### DX-High Speed Plus Universal Drill Bits

Space welding universal wet and dry drill bits  
Ø 10 - 300 mm



DX-High Speed Plus  
Universal Drill Bits on  
Page 49

### SPEED STAR DX

Space Welding Wet and Dry Drilling Bits  
for Ø 10 - 500 mm



SPEED STAR DX  
Drill Bits on Page 50

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL Ceramic

#### Hand-operated wet drilling, drill Ø 6 - 67 mm

Ideally suited for HVAC&R, plumbing professionals, tilers, stair builders, remodelling specialists as well as electricians. Everywhere where jolt-free operation is necessary and extremely hard materials need to be processed.



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#### Product Profile

##### APPLICATION AREA

**Hand-operated wet drilling in:**  
(reinforced) concrete Ø 6 - 35 mm, marble, granite, ceramic tiles, masonry, hollow brickwork and glass Ø 6 - 67 mm

##### KEY FEATURES

- For all common G 1/2" drill bits
- Fatigue-free operation with the light weight
- Also drills through material combinations (for example tiles + masonry) without damaging material or surfaces and without cumbersome tool change
- "Aqua-Stop Button" with quantity adjustment
- Ideal for serial drilling with the external water supply
- Toolless exchange of the drill bits with the Quick Change system
- Integrated 1 litre water tank for 4-6 drill holes

##### TECHNICAL DATA

|                                    |                                      |               |
|------------------------------------|--------------------------------------|---------------|
| <b>2-speed transmission:</b>       | 1. Gear speed                        | 2. Gear speed |
| <b>Nominal speed:</b>              | 3,600 rpm                            | 6,400 rpm     |
| <b>Drilling range in mm:</b>       | Ø 25 - 67                            | Ø 6 - 25      |
| <b>Voltage:</b>                    | 230 V                                |               |
| <b>Rated input/output:</b>         | 1,150 Watt / 800 Watt                |               |
| <b>Charging rate:</b>              | 3.6 A                                |               |
| <b>Maximum drilling depth:</b>     | 400 mm (depending on material)       |               |
| <b>Minimum distance to wall:</b>   | 30 mm from drill hole centre         |               |
| <b>Minimum distance to corner:</b> | 30 mm from drill hole centre         |               |
| <b>Weight</b>                      | 3.4 kg Ceramic<br>3.2 kg Ceramic ECO |               |
| <b>Stationary:</b>                 | Ø 67 mm (Ceramic ECO)*               |               |

\*Only in tiles! Otherwise max. 35 mm in concrete.

#### Integrated 1 litre water tank

Sufficient supply for 4 - 6 drill holes and can be rotated when working in confined spaces

#### Quick Change System drill bit adaptor

Toolless quick change for G 1/2" drill bits

#### Connection for external water supply

Ideal solution for serial drillings

7-part set (No. FF40150) includes: Drill motor RODIADRILL Ceramic (No. FF40150P), 1 high speed plus drill bit each Ø 6 - 8 - 10 mm (No. FF44806, FF44808, FF44810), spanners sizes 24 and 27 (No. FF70024, FF70027), transport case (No. FF60150)



"Aqua-Stop Button" – water pressure valve with quantity adjustment

Perfectly regulated flow of the water quantity

| Model                  | kg  | No.     |
|------------------------|-----|---------|
| RODIADRILL Ceramic set | 3.4 | FF40150 |

#### ACCESSORIES



| Description                          | No.     | Description                           | No.     |
|--------------------------------------|---------|---------------------------------------|---------|
| Freehand drill support up to Ø 83 mm | FF35750 | Water supply hose with "aqua-stop"    | FF35302 |
| Quick change adaptor                 | FF35751 | HSP Nature stone drill bits           | 48      |
| Pressurized water container 10 l     | FF35026 | Water collection ring, stationary     | FF35700 |
| Special water supply hose            | FF35301 | Transport case RODIADRILL Ceramic ECO | FF60150 |

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

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### RODIACUT® 150 / RODIADRILL 160

RODIACUT® 150 drill column with combination drill mounting plate and RODIADRILL 160 drill motor for drilling Ø 10 – 132 mm (Ø 162 mm) in reinforced concrete

| Product Profile                                      |   |
|--|---|
| <b>APPLICATION AREA</b>                              |   |
| <b>RODIADRILL 160:</b>                               |   |
| Stationary wet drilling in (reinforced) concrete:    | Ø 10 - 132 mm   |
| Hand-operated wet drilling in (reinforced) concrete: | Ø 10 - 82 mm  |
| Hand-operated dry drilling in masonry:               | Ø 10 - 162 mm   |
| <b>TECHNICAL DATA (DRILL STAND)</b>                  |   |
| <b>RODIACUT 150:</b>                                 |   |
| <b>Drilling range:</b>                               | w/o water collection ring max. Ø 152 mm<br>with water collection ring max. Ø 132 mm |
| <b>Drill motor adaptor:</b>                          | Ø 60 mm   |
| <b>L x W x H:</b>                                    | 280 x 440 x 810 mm  |
| <b>Hub:</b>  | 480 mm  |
| <b>Weight:</b>                                       | 9,7 kg  |

### 3 Applications with just one unit



### RODIACUT® 150 / RODIADRILL 200

RODIACUT® 150 drill column with combination drill mounting plate and RODIADRILL 200 drill motor for drilling Ø 10 – 152 mm (Ø 250 mm) in reinforced concrete

| Product Profile                                      |               |
|--|---------------|
| <b>APPLICATION AREA</b>                              |               |
| <b>RODIADRILL 200:</b>                               |               |
| Stationary wet drilling in (reinforced) concrete:    | Ø 10 - 152 mm |
| Hand-operated wet drilling in (reinforced) concrete: | Ø 10 - 82 mm  |
| Hand-operated dry drilling in masonry:               | Ø 10 - 250 mm |

### 3 Applications with just one unit



# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL 160

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

|                        |                       |         |  |
|------------------------|-----------------------|---------|--|
| Drill motor:           | RODIADRILL 160        |         |  |
| Threaded adaptor:      | G 1/2" and 1.1/4" UNC |         |  |
| Power Input- / output: | 2000 Watt / 1400 Watt |         |  |
| Gear:                  | 1. Gear               | 2. Gear |  |
| Torque:                | 55 Nm                 | 27 Nm   |  |
| Clamping neck:         | Ø 60 mm               |         |  |

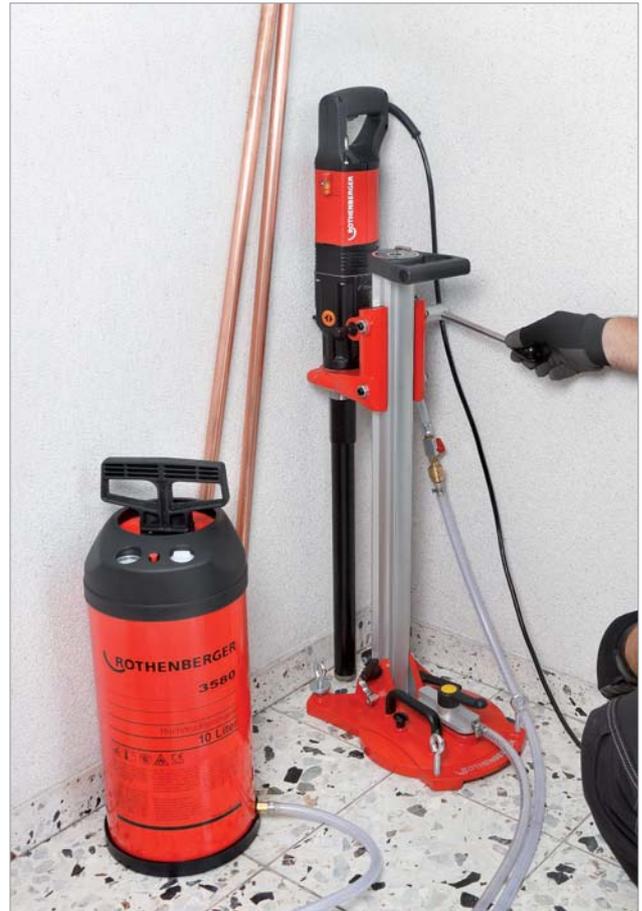
### RODIADRILL 200

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

|                        |                       |         |         |
|------------------------|-----------------------|---------|---------|
| Drill motor:           | RODIADRILL 200        |         |         |
| Threaded adaptor:      | G 1/2" and 1.1/4" UNC |         |         |
| Power Input- / output: | 2700 Watt / 2400 Watt |         |         |
| Gear:                  | 1. Gear               | 2. Gear | 3. Gear |
| Torque:                | 71 Nm                 | 34 Nm   | 17 Nm   |
| Clamping neck:         | Ø 60 mm               |         |         |



Scope of delivery (No. FF34150): (No. FF30150) Drill stand RODIACUT 150, (No. FF40165) Drill motor RODIADRILL 160, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete Fixing Set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No.4100000439) Earplugs SaveRave, (No.4100000443) rubberized gloves, (No. 4100000441) Safety Goggle HC/AF

Scope of delivery (No. FF34160): (No. FF30150) Drill stand RODIACUT 150, (No. FF40220) Drill motor RODIADRILL 200, (No. FF70001) Tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete Fixing Set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety Goggle HC/AF

| Model                                     | kg   | No.            |
|---|------|----------------|
| Drill system RODIACUT® 150/RODIADRILL 160 | 17,3 | <b>FF34150</b> |
| Drill stand RODIACUT® 150                 | 10,5 | <b>FF30150</b> |
| Drill motor RODIADRILL 160                | 6,8  | <b>FF40165</b> |
| Drill system RODIACUT® 150/RODIADRILL 200 | 17,7 | <b>FF34160</b> |
| Drill motor RODIADRILL 200                | 7,2  | <b>FF40220</b> |

#### ACCESSORIES



| Model                            | No.                      | Model   | No.                      |
|----------------------------------|--------------------------|---|--------------------------|
| RODIADRILL CERAMIC               | <b>41</b> <b>FF40150</b> | RODIA® DRY CLEANER 1200                         | <b>53</b> <b>FF35148</b> |
| Pressurized water container 10 l | <b>52</b> <b>FF35026</b> | Water collection ring, stationary (for FF30150) | <b>52</b> <b>FF35700</b> |
| Vacuum pump RODIA-VAC            | <b>51</b> <b>FF35200</b> | Drill Bits                                      | <b>48 - 50</b>           |

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIACUT® 250 / RODIADRILL 200

RODIACUT® 250 drill column with combination drill mounting plate and RODIADRILL 200 drill motor for drilling Ø 10 – 200 mm (Ø 250 mm) in reinforced concrete

#### Product Profile

##### APPLICATION AREA

###### RODIADRILL 200:

Stationary dry drilling in reinforced concrete: Ø 10 - 200 mm  
 Stationary dry drilling in Masonry: Ø 10 - 225 mm  
 Hand-operated wet drilling in reinforced concrete: Ø 10 - 82 mm  
 Hand-operated dry drilling in masonry: Ø 10 - 250 mm

##### TECHNICAL DATA (DRILL STAND)

###### RODIACUT 250:

**Drilling range:** w/o water collection ring max. Ø 250 mm  
 with water collection ring max. Ø 225 mm

###### Drill motor-adaptor:

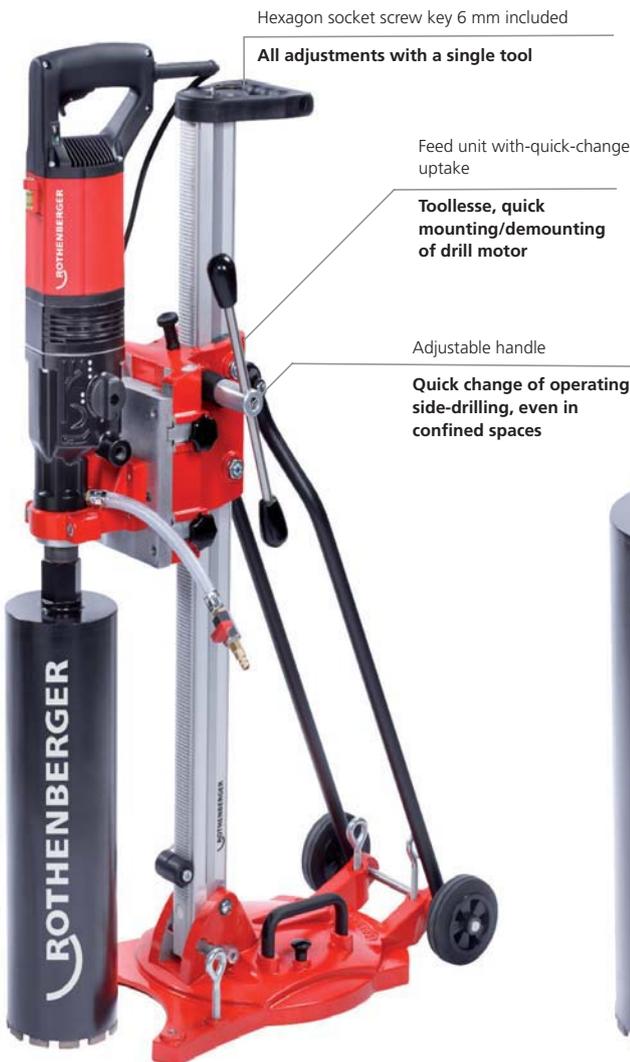
Clamping neck Ø 60 mm and Quick-change recording via dovetail plate

**L x W x H:** 260 x 510 x 980 mm

**Hub:** 650 mm

**Weight:** 19,7 kg

### 4 Applications with just one unit



### RODIACUT® 250 / RODIADRILL 500

RODIACUT® 250 drill column with combination drill mounting plate and RODIADRILL 500 drill motor for drilling Ø 10 – 250 mm in reinforced concrete

#### Product Profile

##### APPLICATION AREA

###### RODIADRILL 500:

Stationary dry drilling in reinforced concrete: Ø 32 - 250 mm  
 Stationary dry drilling in masonry: Ø 32 - 250 mm

### 2 Applications with just one unit



# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling

### RODIADRILL 200

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

|                       |                       |         |         |
|-----------------------|-----------------------|---------|---------|
| Drill motor:          | RODIADRILL 200        |         |         |
| Threaded adaptor:     | G 1/2" and 1.1/4" UNC |         |         |
| Power input / output: | 2700 Watt / 2400 Watt |         |         |
| Gear:                 | 1. Gear               | 2. Gear | 3. Gear |
| Torque:               | 71 Nm                 | 34 Nm   | 17 Nm   |
| Clamping neck:        | Ø 60 mm               |         |         |

### RODIADRILL 500

Drill motor



#### TECHNICAL DATA (DRILL MOTOR)

|                       |   |         |         |
|-----------------------|---|---------|---------|
| Drill motor:          | RODIADRILL 500                            |         |         |
| Threaded adaptor:     | G 1/2" and 1.1/4" UNC                     |         |         |
| Power input / output: | 4000 Watt / 3000 Watt                     |         |         |
| Gear:                 | 1. Gear                                   | 2. Gear | 3. Gear |
| Torque:               | 185 Nm                                    | 107 Nm  | 55 Nm   |
| Drill motor adaptor:  | Quick-change recording via dovetail plate |         |         |
| Clamping neck:        | Ø 60 mm                                   |         |         |



Scope of delivery (No. FF34200): (No. FF30250) Drill stand RODIACUT 250, (No. FF40220) Drill motor RODIADRILL 200, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002468) Instruction manual RODIADRILL 160+200, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety goggle HC/AF

Scope of delivery (No. FF34260): (No. FF30250) Drill stand RODIACUT 150, (No. FF40400) Drill motor RODIADRILL 500, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 150-250, (No. 1300002469) Instruction manual RODIADRILL 500, (No. 4100000439) Earplugs SaveRave, (No. 4100000443) rubberized gloves, (No. 4100000441) Safety goggle HC/AF

| Model                                     | kg   | No.            |
|---|------|----------------|
| Drill system RODIACUT® 250/RODIADRILL 200 | 21,7 | <b>FF34200</b> |
| Drill stand RODIACUT® 250                 | 14,5 | <b>FF30250</b> |
| Drill motor RODIADRILL 200                | 7,2  | <b>FF40220</b> |
| Drill system RODIACUT® 250/RODIADRILL 500 | 31,4 | <b>FF34260</b> |
| Drill motor RODIADRILL 500                | 12,1 | <b>FF40400</b> |

#### ACCESSORIES



| Description                      | No.               | Description                                     | No.               |
|----------------------------------|-------------------|---|-------------------|
| RODIADRILL CERAMIC               | <b>41 FF40150</b> | RODIA® DRY CLEANER 1200                         | <b>53 FF35148</b> |
| Pressurized water container 10 l | <b>52 FF35026</b> | Water collection ring, stationary (für FF30150) | <b>52 FF35700</b> |
| Vacuum pump RODIA-VAC            | <b>51 FF35200</b> | Drill bits                                      | <b>48 - 50</b>    |

# RODIA® Diamond Core Drilling

## Stationary Drilling

### RODIACUT® 400 PRO / RODIADRILL 500

Drilling system with dowel plate,  
drill Ø 32 - 400 (500)\* mm



2

#### Product Profile

##### APPLICATION AREA

##### 2 applications in one unit:

Stationary wet drilling in (reinforced) concrete Ø 32 - 400 mm  
Stationary dry drilling in masonry Ø 32 - 400 mm

##### KEY FEATURES

- Drill angle adjustments from -15° up to +45°, in 2.5° steps adjustable
- Exchangeable guide rail

#### TECHNICAL DATA (DRILL STANDS)

**Drilling range:** w/o water collection ring: max. Ø 500 mm  
optional with distance plate

**Weight:** 28,4 kg

**L x W x H:** 460 x 260 x 1100 mm

**Hub:** 680 mm



#### 4x roll guides

Precise and low vibration operation, flexible use / module concept



#### Drill angle adjustments

Adjustable from -15° up to +45° in 2.5° steps

#### Rubber transport wheels

Quick and easy transport on the building site

\*Distance plate optional (No. FF35136)

To enlarge the drill hole diameter from Ø 400 to 500 mm with RODIACUT® 400 PRO

# RODIA® Diamond Core Drilling

## Hand-Operated & stationary Drilling



### RODIADRILL 500

Drill motor



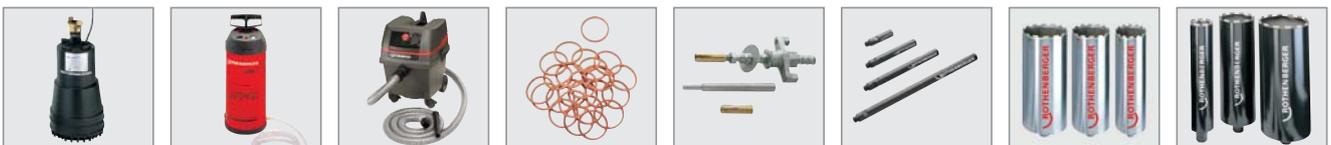
Scope of delivery (No. FF34500): (No. FF30030) Drill stand RODIACUT 400 PRO, (No. FF40400) Drill motor RODIADRILL 500, (No. FF70001) tool bag, (No. FF70019N) Allen key SW19 DIN895, (No. FF70024) Allen key SW24, DIN894, (No. FF70036) Allen key SW36 DIN894, (No. FF70041) Allen key SW41, DIN894, (No. FF35120) Concrete fixing-set, (No. FF35302) Water supply hose + Adapt. f. Gardena coupling, (No. 111429) Hammer drill SDS Plus, 15x160mm, (No. FF35190) Copper ring 1.1/4", (No. 1300002467) Instruction manual Drill stand RODIACUT® 400 PRO, (No. 1300002468) Instruction manual RODIADRILL 500, (No. 4100000439) Earplugs Save-Rave, (No. 4100000443) Rubberized gloves, (No. 4100000441) Safety Goggles HC/AF

#### TECHNICAL DATA (DRILL MOTOR)

|                              |                         |
|------------------------------|-------------------------|
| <b>Drill motor:</b>          | RODIADRILL 500          |
| <b>Threaded adaptor:</b>     | G 1/2" and 1.1/4" UNC   |
| <b>Power input / output:</b> | 4000 Watt / 3000 Watt   |
| <b>Gear:</b>                 | 1. Gear 2. Gear 3. Gear |
| <b>Torque:</b>               | 185 Nm 107 Nm 55 Nm     |
| <b>Drill motor adaptor:</b>  | Dovetail plate          |

| Model   | kg   | No.            |
|---|------|----------------|
| Drill system RODIACUT® 400 PRO/RODIADRILL 500 | 40,5 | <b>FF34500</b> |
| Drill stand RODIACUT® 400 PRO                 | 28,4 | <b>FF30030</b> |
| Drill motor RODIADRILL 500                    | 12,1 | <b>FF40400</b> |

#### ACCESSORIES



| Description                      | No.               | Description          | No.               |
|----------------------------------|-------------------|----------------------|-------------------|
| Submersible water pump RODIAPUMP | 52 <b>FF35029</b> | Distance plate 50 mm | <b>FF35131</b>    |
| Pressurized water container 10 l | 52 <b>FF35026</b> | Distance plate 60 mm | <b>FF35136</b>    |
| RODIA® DRYCLEANER 1200           | 53 <b>FF35148</b> | Copper rings 1.1/4"  | 51 <b>FF35190</b> |
| Mounting articles                | 51                | Extensions           | 52                |
| Drill bits                       | 48 - 50           |                      |                   |

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### High Speed Plus Natural Stone

Soldered diamond core wet cutting drill bit Ø 6 - 67 mm for extremely hard materials

Suitable for all other drilling systems with G 1/2" and 1.1/4" UNC!



2

#### Product Profile

##### APPLICATION AREA

**Special wet drill bits** for drilling in natural stone, granite, marble, (double) baked brick, masonry, (reinforced) concrete, glass or hollow brickwork from Ø 6 - 67 mm

**Typical areas of application** are HVAC&R, plumbing and electronic installations, old building renovations, laying tile, stairs and railing installation, air-conditioning technology, garden and landscaping

##### KEY FEATURES

- Extremely easy cuts, very long service life through 9 mm high segments
- Suitable for all ROTHENBERGER drilling machines
- Balanced rotation reduces wear
- Drilling even through material combinations possible

##### KEY FEATURES

- Drill holes on the seam or edge of material possible with the use of diamond rings
- Conventional G 1/2" threaded attachments

##### TECHNICAL DATA

###### G 1/2" connection

| Drill bits    | Segment       | Segment dimensions (L x W x H) |
|---------------|---------------|--------------------------------|
| Ø 6 - 40 mm   | Ring segments | Ring x (1.15 - 2.0) x 9 mm     |
| Ø 45 - 67 mm* | 4 - 6         | 24 x 2.5 x 8 mm                |

**Effective length:** Ø 6.3 - 10 mm = 50 mm  
Ø 12 - 67 mm = 120 mm

Special length of 300 mm available upon request

\*Single segment mounting from Ø 45 mm

9 mm high segments with high diamond concentration

Extremely easy cutting, very long service life in granite tiles

Threaded adaptor G 1/2"

Suitable for all other ROTHENBERGER drilling machines



Overwound drill bits

Balanced rotation reduces wear

Drilling of the hardest materials



Reinf. concrete



Marble



Granite



Green granite



Masonry



Hollow brickwork



Aerated concrete



Asphalt



#### Suitable for



RD 160



Ceramic



RD 200

| Ø mm | kg   | Adaptor G 1/2" No. |
|------|------|--------------------|
| 6.3  | 0.17 | FF44806            |
| 8.3  | 0.17 | FF44808            |
| 10   | 0.17 | FF44810            |
| 12   | 0.19 | FF44812            |
| 14   | 0.20 | FF44814            |
| 15   | 0.20 | FF44815            |
| 16   | 0.20 | FF44816            |

| Ø mm | kg   | Adaptor G 1/2" No. |
|------|------|--------------------|
| 18   | 0.21 | FF44818            |
| 20   | 0.22 | FF44820            |
| 22   | 0.22 | FF44822            |
| 24   | 0.22 | FF44824            |
| 25   | 0.23 | FF44825            |
| 26   | 0.23 | FF44826            |
| 28   | 0.25 | FF44828            |

| Ø mm | kg   | Adaptor G 1/2" No. |
|------|------|--------------------|
| 30   | 0.25 | FF44830            |
| 32   | 0.25 | FF44832            |
| 35   | 0.30 | FF44835            |
| 36   | 0.32 | FF44836            |
| 38   | 0.34 | FF44838            |
| 40   | 0.34 | FF44840            |
| 42   | 0.35 | FF44842            |

| Ø mm | kg   | Adaptor G 1/2" No. |
|------|------|--------------------|
| 45*  | 0.42 | FF44845            |
| 50*  | 0.60 | FF44850            |
| 55*  | 0.65 | FF44855            |
| 60*  | 0.72 | FF44860            |
| 65*  | 0.76 | FF44865            |
| 67*  | 0.79 | FF44867            |

\* with single segment mounting

### DX-High Speed Plus Universal Drill Bits

Space welding universal wet and dry drill bits  
Ø 20 - 300 mm

Space Welding and  
PRISMACUT!



2

#### Product Profile

##### APPLICATION AREA

**Wet and dry drill bits** for drilling in reinforced concrete, asphalt, masonry, as well as lime sand brick for Ø 20 - 300 mm

**Typical areas of application** are HVAC&R and electronic installations, old building renovations, building industry, air-conditioning technology, garden and landscaping

##### KEY FEATURES

- Extremely easy cutting, safe cut in hand-operated use
- Faster cutting progress and extremely long service life
- Suitable for all other ROTHENBERGER drilling machines
- Balanced rotation reduces wear

##### Suitable for



RD 160\*



RD 200\*



RD 500\*

\* We recommend the optional extraction rotor when using as a dry drill bit

**Highest service life and  
universal application!**

##### Threaded adaptor G 1/2" and 1.1/4" UNC

Suitable for all other  
ROTHENBERGER  
drilling machines



##### Special segment mix

Quicker drilling progress  
and extremely long service life

Extremely easy cuts,  
safe cuts in hand  
operated use

##### Space welding

Allows wet and dry use

##### Overwound drill bits

Balanced rotation reduces wear

Marble



Masonry



Hollow brickwork



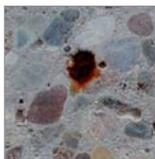
Pavement



Lime sand brick



Reinf. concrete



| Ø mm | kg  | Adaptor<br>G 1/2" No. |
|------|-----|-----------------------|
| 20   | 0.5 | FF44620               |
| 30   | 0.6 | FF44630               |
| 40   | 0.7 | FF44640               |
| 52   | 0.9 | FF44650               |
| 62   | 1.2 | FF44660               |
| 72   | 1.4 | FF44670               |

| Ø mm | kg  | Adaptor<br>G 1/2" No. |
|------|-----|-----------------------|
| 82   | 1.6 | FF44680               |
| 92   | 1.9 | FF44690               |
| 102  | 2.1 | FF44700               |
| 112  | 2.4 | FF44710               |
| 122  | 2.6 | FF44720               |
| 132  | 2.9 | FF44730               |

| Ø mm | kg  | Adaptor<br>1.1/4" No. | Ø mm | kg   | Adaptor<br>1.1/4" No. |
|------|-----|-----------------------|------|------|-----------------------|
| 30   | 0.7 | FF44030               | 132  | 4.6  | FF44130               |
| 40   | 1.2 | FF44040               | 142  | 5.0  | FF44140               |
| 52   | 1.6 | FF44050               | 152  | 6.4  | FF44150               |
| 62   | 1.9 | FF44060               | 162  | 7.0  | FF44160               |
| 72   | 2.3 | FF44070               | 172  | 7.5  | FF44170               |
| 82   | 2.6 | FF44080               | 182  | 8.0  | FF44180               |
| 92   | 3.0 | FF44090               | 200  | 9.0  | FF44200               |
| 102  | 3.4 | FF44100               | 220  | 11.4 | FF44220               |
| 112  | 3.8 | FF44110               | 250  | 13.6 | FF44250               |
| 122  | 4.2 | FF44120               | 300  | 19.3 | FF44300               |

Suitable for all other drilling systems with G 1/2" and 1.1/4" UNC!

# RODIA® Diamond Core Drilling

## RODIA® Diamond Drill Bits

### SPEED STAR DX

Space welding wet and dry drill bits Ø 10 - 500 mm

Space Welding and PRISMACUT!



2

#### Product Profile

##### APPLICATION AREA

**Wet and dry drill bits** for asphalt, masonry, as well as natural and artificial stone of Ø 10 - 500 mm

**Typical areas of application** are HVAC&R, plumbing, old building renovations, building industry, air-conditioning technology, gardening and landscaping

##### KEY FEATURES

- Extremely easy cuts, safe cut in hand-operated use
- Balanced rotation reduces wear
- Suitable for all other ROTHENBERGER drilling machines
- Standard lengths 400 / 500 mm, special lengths available on request
- Conventional G 1/2" and 1.1/4" UNC threaded adaptors

##### TECHNICAL DATA

| Drill bits     | Segment | Segment dimensions (L x W x H) |
|----------------|---------|--------------------------------|
| Ø 10 - 38 mm   | 1       | 16 x 3.0 x 7.0 mm              |
| Ø 40 - 48 mm   | 1 - 4   | 24 x 3.0 x 9.0 mm              |
| Ø 50 - 55 mm   | 5 - 6   | 24 x 3.5 x 9.0 mm              |
| Ø 56 - 72 mm   | 6 - 7   | 24 x 3.5 x 9.0 mm              |
| Ø 75 - 102 mm  | 7 - 8   | 24 x 3.5 x 9.0 mm              |
| Ø 107 - 142 mm | 9 - 11  | 24 x 4.0 x 9.0 mm              |
| Ø 142 - 182 mm | 11 - 14 | 24 x 4.0 x 9.0 mm              |
| Ø 182 - 250 mm | 14 - 16 | 24 x 4.0 x 9.0 mm              |
| Ø 300 - 500 mm | 16 - 26 | 20 x 5.0 x 9.0 mm              |

**Connection G 1/2":** Effective length 400 mm  
**Connection 1.1/4" UNC:** Effective length 500 mm

Durable (DURAMANT) PRISMACUT

Extremely easy cutting, safe cut in hand-operated use

Extremely high diamond concentration

Faster drilling progress



Special drill bits for pavement, asphalt, as well as special lengths up to 1000 mm available upon request!

#### Suitable for



RD 160\*

RD 200\*



RD 500\*

\* We recommend the optional extraction rotor when using as a dry drill bit

Threaded adaptor G 1/2" and 1.1/4" UNC

Suitable for all other ROTHENBERGER drilling machines

Reinf. concrete

Marble

Asphalt



Overwound drill bits

Balanced rotation reduces wear

| Ø mm | kg  | Adaptor G 1/2" No. | Ø mm | kg  | Adaptor G 1/2" No. | Ø mm | kg  | Adaptor 1.1/4" No. | Ø mm | kg   | Adaptor 1.1/4" No. |
|------|-----|--------------------|------|-----|--------------------|------|-----|--------------------|------|------|--------------------|
| 10   | 0.3 | FF00610            | 52   | 0.9 | FF00650            | 20   | 0.5 | FF00020            | 122  | 4.2  | FF00120            |
| 12   | 0.4 | FF00612            | 56   | 1.2 | FF00655            | 25   | 0.6 | FF00025            | 125  | 4.3  | FF00125            |
| 14   | 0.4 | FF00614            | 62   | 1.2 | FF00660            | 30   | 0.7 | FF00030            | 132  | 4.6  | FF00130            |
| 15   | 0.4 | FF00615            | 66   | 1.3 | FF00665            | 40   | 1.2 | FF00040            | 142  | 5.0  | FF00140            |
| 16   | 0.4 | FF00616            | 72   | 1.4 | FF00670            | 46   | 1.4 | FF00045            | 152  | 6.4  | FF00150            |
| 18   | 0.4 | FF00618            | 76   | 1.5 | FF00675            | 52   | 1.6 | FF00050            | 162  | 7.0  | FF00160            |
| 20   | 0.5 | FF00620            | 82   | 1.6 | FF00680            | 56   | 1.7 | FF00055            | 172  | 7.5  | FF00170            |
| 24   | 0.5 | FF00624            | 87   | 1.7 | FF00685            | 62   | 1.9 | FF00060            | 182  | 8.0  | FF00180            |
| 25   | 0.5 | FF00625            | 92   | 1.9 | FF00690            | 66   | 2.1 | FF00065            | 200  | 9.0  | FF00200            |
| 26   | 0.5 | FF00626            | 95   | 2.0 | FF00695            | 72   | 2.3 | FF00070            | 220  | 11.4 | FF00220            |
| 28   | 0.6 | FF00628            | 102  | 2.1 | FF00700            | 76   | 2.4 | FF00075            | 250  | 13.6 | FF00250            |
| 30   | 0.6 | FF00630            | 108  | 2.3 | FF00705            | 82   | 2.6 | FF00080            | 280  | 17.6 | FF00280            |
| 32   | 0.6 | FF00632            | 112  | 2.4 | FF00710            | 87   | 2.8 | FF00085            | 300  | 19.3 | FF00300            |
| 35   | 0.7 | FF00635            | 117  | 2.5 | FF00715            | 92   | 3.0 | FF00090            | 350  | 23.6 | FF00350            |
| 38   | 0.7 | FF00638            | 122  | 2.6 | FF00720            | 102  | 3.4 | FF00100            | 400  | 28.4 | FF00400            |
| 40   | 0.7 | FF00640            | 127  | 2.8 | FF00725            | 108  | 3.6 | FF00105            | 450  | 33.6 | FF00450            |
| 46   | 0.7 | FF00645            | 132  | 2.9 | FF00730            | 112  | 3.8 | FF00110            | 500  | 39.1 | FF00500            |

# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & stationary Drilling

### Vacuum Pump RODIA-VAC

This vacuum pump is suitable for all diamond core drilling units. An extraction tank prevents the vacuum plate from loosening quickly during a sudden power failure. Oil-free vacuum pump with pressure gauge.

1.1 KW motor power  
85% Vacuum  
200 l/min extraction volume

10 l extraction tank

Safety during a power failure



**Drill stand can only be mounted with a combination of vacuum plate and vacuum set!**

### Vacuum-Sets



No. FF35710  
No. FF35740

### Quick Clamping Column

Toolless and reliable bracing between floor and wall or wall and wall. Maximum operation range from 1.7 m up to 3.0 with a load capacity up to 500 kg with sideways guidance.



No. FF35015

| Description                               | kg   | No.            |
|---|------|----------------|
| Quick Clamping Column                     | 9.0  | <b>FF35015</b> |
| Vacuum pump RODIA-VAC 230 V               | 20.0 | <b>FF35200</b> |
| Vacuum set, RODIACUT® 130, 131 DWS, 170 C | 1.1  | <b>FF35710</b> |
| Spare foamed rubber for drill base        | 0.1  | <b>FF50007</b> |
| Vacuum set RODIACUT® 202 DWS, 270 C       | 1.1  | <b>FF35740</b> |
| Spare foamed rubber for drill base        | 0.1  | <b>FF50008</b> |

### Concrete / Masonry Fixing Set

Includes (No. FF35120): Knurled thread rod Type G-B 160 mm, screw thread M 12/20 mm (No. FF35129), U-washer (No. FF70166), winged nut M 12 (No. FF55150), 25 x drive-in anchor M 12 (No. FF 35122) and drive-in iron (No. FF35128)

Includes (No. FF35121): Knurled thread rod Type G-M 280 mm, screw thread M 12/85 mm (No. FF35130), U-washer (No. FF70166), winged nut M 12 (No. FF55150), hexagonal nut M12 (No. FF70167), 5 x Rawl-Anchor M 12 (reusable) (No. FF35126) and drive-in iron (No. FF35128)



No. FF35120

No. FF35121

### Thread Interfaces

Between motor connection and drill bit



No. FF35095



No. FF35080



No. FF35091

### Copper Rings 1.1/4

Levels out the unevenness between motor connection and drill bit. Easy loosening prevents drill bits from getting stuck on the driveshaft.

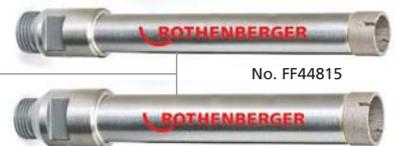


### Special Diamond Drills for Tiles and Natural Stone

For use when hammer drills can not do the job. Various material combinations, such as tiles on concrete, can be easily drilled without damage.

#### Special Diamond Drills

for Tiles and Natural Stone



No. FF44815

No. FF44820

### SDS-plus Hammer drill



| Description                                    | kg   | No.            |
|--|------|----------------|
| Concrete fixing set                            | 1.90 | <b>FF35120</b> |
| Drive-in anchor concrete M12                   | 0.04 | <b>FF35122</b> |
| Threaded rod, B15 concrete set                 | 0.20 | <b>FF35129</b> |
| Threaded rod, B15 masonry                      | 0.30 | <b>FF35130</b> |
| Wet drill bit Ø 15 mm                          | 0.20 | <b>FF44815</b> |
| Masonry fixing set                             | 1.10 | <b>FF35121</b> |
| Rawl anchor M 12                               | 0,08 | <b>FF35126</b> |
| SDS-plus Hammer drill Ø 20 mm, NL. 300 mm      | 0,22 | <b>111449</b>  |
| Wet drill bit Ø 20 mm, G1/2"                   | 0,22 | <b>FF44820</b> |
| G 1/2" outer thread to 1.1/4" UNC outer thread | 0,50 | <b>FF35080</b> |
| 1.1/4" UNC inner thread to G 1/2" inner thread | 0,70 | <b>FF35095</b> |
| Adaptor DD-BI to G 1/2" + 1.1/4"               | 0,50 | <b>FF35091</b> |
| Adaptor DD-BU to G 1/2" + 1.1/4"               | 0,80 | <b>FF35092</b> |
| Threaded interface WÜRTH to 1.1/4"             | 0,60 | <b>FF35101</b> |
| Copper ring 1.1/4"                             | 0,05 | <b>FF35190</b> |

# RODIA® Diamond Core Drilling

## Accessories Hand-Operated & stationary Drilling

### Water Supply

The sturdy 10 litre pressurized water container made of steel is perfectly suited for individual drilling. When drilling large diameters or series drillings, the fully submersible RODIAPUMP enables a mobile supply of water from buckets or other containers up to a delivery height of 5 meters using a 1" water hose.

2

#### Comfortable water connection

Quick connection with the GK adaptor and quick-plug coupling

#### Rust-free motor shaft

Prevents the quick jamming of the rotor

#### Fine filter

Prevents entry of foreign materials and protects the motor shaft

No. FF35029



| Description                      | kg   | No.            |
|----------------------------------|------|----------------|
| Submersible water pump RODIAPUMP | 4,40 | <b>FF35029</b> |
| Water supply hose with Aqua-Stop | 0,20 | <b>FF35302</b> |

#### Manometer

pressure indicator

#### 2.5 meter hose length

Ideal use for ceiling holes



No. FF35026



#### Connection Quick plug-in coupling

Drip-free connection even under water pressure

| Description                 | kg   | No.            |
|-----------------------------|------|----------------|
| Pressurized water container | 5,50 | <b>FF35026</b> |
| Special water supply hose   | 0,20 | <b>FF35301</b> |

### Water Extraction Systems

The dirty cooling water is extracted in connection with a wet and dry vacuum (FF35148, FF35210)



No. FF35730

Only for RODIACUT® 202 DWS, 250 and 270 C



No. FF35700

Only for RODIACUT® 131 DWS, 150 and 170 C

| Description  | kg  | No.            |
|--|-----|----------------|
| Water collection ring, stationary (up to Ø 132 mm) | 1,2 | <b>FF35700</b> |
| Spare rubber membrane (for FF35700)                | 0,3 | <b>FF55131</b> |
| Water collection ring, stationary (up to Ø 200 mm) | 2,5 | <b>FF35730</b> |
| Spare rubber membrane (for FF35730)                | 0,6 | <b>FF55201</b> |

### Extensions

#### G 1/2" and 1.1/4" UNC

Easy extension of the drilling depth  
High-quality and robust steel design



Extensions G 1/2"



Extensions 1.1/4" UNC

| Nominal length mm | kg   | G 1/2" No.     | kg   | 1.1/4" UNC No. |
|-------------------|------|----------------|------|----------------|
| 100               | 0,40 | <b>FF35040</b> | 1,00 | <b>FF35060</b> |
| 200               | 0,90 | <b>FF35045</b> | 2,00 | <b>FF35065</b> |
| 300               | 1,40 | <b>FF35050</b> | 3,00 | <b>FF35070</b> |
| 500               | 2,40 | <b>FF35055</b> | 5,10 | <b>FF35075</b> |

### Extraction Rotor "RODIADUST"

#### Universal adaptor for wet drilling machines for dust-free dry drilling

Provides optimum extraction results in conjunction with RODIA DRY CLEANER (FF35148) and increases the drilling process, prevents jamming of drill bit and reduces segment wear.

| Model                                       | kg   | No.            |
|---|------|----------------|
| Extraction Rotor 1.1/4" UNC (G1/2" Machine) | 1,90 | <b>FF40056</b> |



# RODIA® Diamond Core Drilling Extraction systems

## RODIA DRY CLEANER 1200

### Wet and dry extraction unit

Especially good performance when used with WALL CUT 6540, RODIADRILL 1800 DRY or other ROTHENBERGER extraction-friendly system products



Fig. Folded filter  
No. FF55374

| Model                                   | kg   | No.            |
|---|------|----------------|
| RODIA DRY CLEANER 1200                  | 10.8 | <b>FF35148</b> |
| Folded filter (2 piece) for wet suction | 1.0  | <b>FF55374</b> |
| Fleece filter (5 piece) for dry suction | 0.3  | <b>FF55388</b> |

**Constant extraction power!  
Automatic filter-cleaning function!**

### High cleaning efficiency

2 polyester-filter cassettes with 99.9% dust retention (max. 20 l), water retention of 15 litres



**Separate automatic outlet**

Adaptor for further electric tools

**User comfort with a wide operating range**

5 m long suction hose and 8 m long AC power cord

## RODIA CLEANER 1400

### Water suction unit

#### KEY FEATURES

- Easy-to-handle and powerful 1400 watt water extraction unit
- 35 litre container made of zinc-plated steel plate with acrylate coating: Rust-free
- Separate automatic outlet connection for an additional electrical tools



Set (No. FF35210) includes various extraction tubes and extraction nozzles. Wet-suction is possible when used with the cartridge filter system. When used with a cloth filter, dry suction possible. Suitable for use with our core drilling systems.

| Model                  | kg  | No.            |
|------------------------|-----|----------------|
| RODIA CLEANER 1400     | 9.0 | <b>FF35210</b> |
| Cartridge filter       | 1.0 | <b>FF55447</b> |
| Paper filter (5 piece) | 1.0 | <b>FF55448</b> |

**Separate automatic outlet**

Connection for additional electrical tools



**Light and easy-to handle**

Impact protective ring at base with 4 double roller wheels, 9 kg weight