

ROTARY HAMMERS, BREAKERS
DIAMOND CORE DRILLS

DUSS

DIA 303 W DIAMOND CORE DRILL

Drilling efficiently – Having time for the essentials



wet · dry · hand-held · stand mounted · 3-speed

DIA 303 W



Applications

- Hand-held dry drilling in masonry, sand-lime brick, poroton, plastic materials, etc., even in confined spaces or up a ladder
- Hand-held or stand mounted wet drilling in concrete, granite, marble, etc.
- Hand-held drilling or drilling with BST drill stand in sewer pipes, depending on material wet or dry
- Electrical installations, gas, plumbing and heating systems
- Domestic utilities and air conditioning systems, renovation of old buildings
- Civil and structural engineering, road building and landscaping

Features

- Enormous drilling range, hand-held diamond core drilling up to dia. 300 mm
- Time-saving positioning with quick centring bit
- Quick release system for rapid core bit change and drill core removal
- Safety clutch with anti-lockup system
- Ultra-efficient dust extraction during dry drilling
- Precise preselection and constant control of water flow rate
- Water-saving precision metering
- Screw-in auxiliary handle for non-fatiguing, back-saving posture when drilling downwards
- LED display for performance monitoring and service planning
- Rapid changeover from hand-held to stand mounted drilling
- Electronic for constant speed control
- Speed infinitely adjustable with adjusting dial
- Electronic overload protection and soft start

Order-No. DIA 303 W

Standard specification: DUSS DIA 303 W diamond core drill with PRCD circuit breaker, side handle, auxiliary handle, ZST centring rod, SW 22 and SW 30 open-end wrenches, teflon spray, carrying case.

3
 SPEED

ALLROUND
 D SYSTEM

The world's first compact, angled diamond core drill
 with a 3-speed gearbox
 >> Machine length 39 cm



| TECHNICAL DATA | DIA 303 W |
|---|-------------------|
| Rated power | 2000 W |
| Rated speed 1st/2nd/3rd gear | 360/680/1270 rpm |
| Drilling range with | |
| diamond core bit, hand-held wet | dia. 32 - 202 mm |
| diamond core bit, with BS drill stand wet | dia. 32 - 202 mm |
| diamond core bit in concrete pipe, hand-held, wet | up to dia. 300 mm |
| diamond core bit, hand-held, dry | dia. 52 - 300 mm |
| LS core cutter in plastic, hand-held | dia. 40 - 322 mm |
| LS core cutter in plastic, with BS drill stand | dia. 40 - 202 mm |
| LS core cutter in plastic, with BST drill stand | dia. 40 - 257 mm |
| Machine weight | 6.4 kg |
| Chuck | G 1/2" |

PREMIUM CHOICE FOR 100% FLEXIBILITY

Builders and craftsmen require machines which allow them to respond with the utmost flexibility and speed to different tasks and technical circumstances occurring on site. Our DIA 303 W provides construction industry professionals with a meticulously designed and engineered system. The enormous drilling range, the compact design as well as an extensive, carefully considered spectrum of different accessories mean that every conceivable application need is catered for.



Wet drilling in concrete, with BS drill stand



Wet electrical socket sinking in concrete, hand-held



Wet drilling in a concrete shaft, hand-held



Dry drilling in masonry with dust extraction*, hand-held



Clean wet drilling in concrete with DUSS suction cup, hand held



Dry drilling of connection holes in flue pipes with dust extraction*, hand-held



Wet drilling in a concrete pipe, with BST drill stand



Dry drilling in a plastic pipe, hand held

* When using an original DUSS diamond core bit there are special extractor holes in the proximity to the diamond core bit thread which allow an effective dust extraction when dry drilling. It permits not only virtually dust-free drilling but also cools the diamond segments to the optimum extent..

INSPIRING TECHNOLOGY

3-speed-gearbox

To achieve best results, the speeds offered by 3-speed-gearbox of DIA 303 W permits an enormous drilling range.



Ventilation

The ventilation slots of the DIA 303 W have two advantages. It specifically directs the air flow away from the user and ensures that the high output from the motor remains constant.



Convenient handling

The DIA 303 W is the lightest and most compact diamond core drill in its performance class with a 3-gear-speedbox for wet and dry drilling.

High performance motor

With a motor of 2000 W, the DIA 303 W is designed for continuous use under the most demanding conditions.

LED display

Performance monitoring by means of an LED display ensures the optimum drilling progress. A service display permits the requisite servicing operations to be planned well in advance.

Electronic overload protection

If the drill becomes overloaded, the motor switches off. After it has been switched on again, work can be resumed immediately.

Anti-lockup system

A robust safety clutch, rotating in an oil bath with gentle starting torque, not only ensures complete safety for hand-held drilling but also protects the mechanical components of the drill.



Ergonomic

The DIA 303 W is fitted with an ergonomic trigger grip into which an auxiliary handle can be screwed if needed. This grip assures the user of a non-fatiguing, back-saving posture when drilling downwards – for maximum convenience and productivity.



Straightforward centring

The integrated soft start permits reliable hole starting. With the use of a DUSS quick centring bit, drilling can be started in seconds, no pilot hole is necessary.

Precision metering for wet drilling

A practical water metering valve allows a precise preselection and constant control of the needed water amount and controls the flow rate, independently of the stopcock, even while drilling is taking place.

Core bits changed in seconds

With the DUSS quick release system, core bits can be changed and drill cores removed rapidly and easily.

DIA 303 W ACCESSORIES OVERVIEW



1 · Diamond core drills

for wet and dry drilling,
drilling dia. 32 - 300 mm

2 · Core cutters

for drillings in plastic materials,
drilling dia. 40 - 322 mm

3 · Wood core cutters

for drillings in wood and wood
composites, drilling dia. 42 - 322 mm

4 · Drill stands

5 · Centring aids

- Centring rods
- Quick centring bits
- Pilot drill bits

6 · Adapter for quick release system

- for diamond core drills
- for core cutters
- for wood core cutters
- for keyless chuck

7 · Adapter for screw connection

- for core cutters
- for wood core cutters
- for keyless chuck

8 · Extensions

9 · Sharpening plate

10 · Bubble level

for accurate alignment when
drilling vertical or horizontal

11 · Water supply unit

12 · Accessories for extraction

- Suction cups
- Suction tubes
- Suction heads
- Reducing ring
- Industrial vacuum cleaner

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DRY

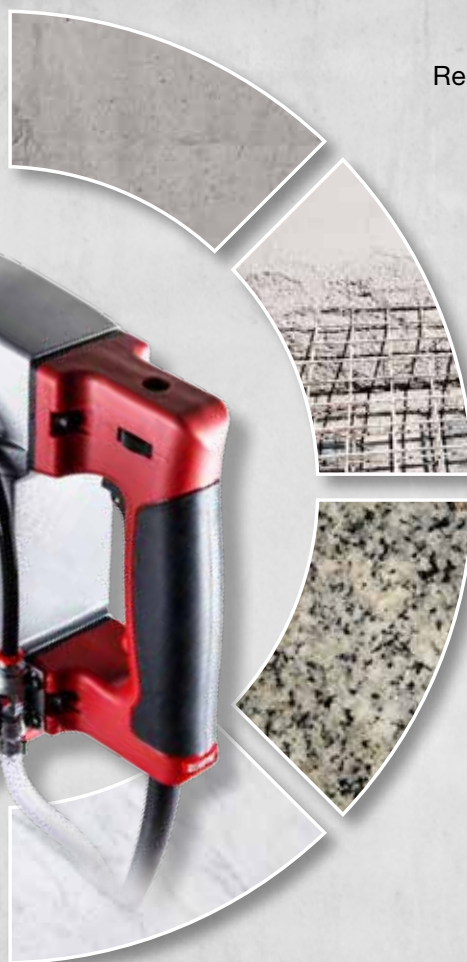
Masonry
Brick
Poroton
Aerated concrete
Sand-lime brick
Wood
Plastics



WET



Concrete
Reinforced concrete
Granite
Marble



lightweight · compact · convenient · universal · reliable · highly efficient

DUSS DIAMOND CORE DRILLS



DIA 303 diamond core drill

For hand-held or stand mounted drillings in wood, plastic materials and masonry.

- + Enormous drilling range, hand-held dia. 40 - 322 mm
 - + Screw-in auxiliary handle for non-fatiguing, back-saving posture when drilling downwards
 - + Quick release system for rapid core bit and core cutter change and drill core removal
 - + Safety clutch
 - + Rapid changeover from hand-held to stand mounted drilling
- >> 2000 W, rated speed 1st/2nd/3rd gear 360/680/1270 rpm, machine length 39 cm, 6.2 kg, G 1/2"

3
SPEED

DIA 200 - DIA 300 diamond core drills

Hand-held dry drilling for installing plumbing, heating and air conditioning systems, building chimneys, fireplaces and furnaces, installing fitted kitchens and bathrooms.

- + Easy and simple to use
- + Hand-held, dust-free drilling
- + Quick release system for rapid core bit change and drill core removal
- + Convenient drilling supported by suction effect

| TECHNICAL DATA | DIA 200 | DIA 300 |
|---------------------|---------------|----------------|
| Rated power (W) | 1700 | 1700 |
| Rated speed (rpm) | 380 - 490 | 230 - 320 |
| Drilling range (mm) | | |
| hand-held, dry | dia. 82 - 250 | dia. 127 - 300 |
| Machine weight (kg) | 5.0 | 5.0 |
| Chuck | G 1/2" | G 1/2" |



DIA 80 diamond core drill

It is the perfect machine for quick and safe electrical socket sinking.

- + High drilling speed thanks to powerful and reliable drive motor with constant electronic speed control
 - + Prolonged core bit service life and dust-free working
 - + Electrical socket sinking without interruption
 - + Very simple removal of drill cores and tool changes in seconds
- >> 1700 W, rated speed 650 - 1100 rpm, drilling range, hand-held, dry dia. 68, 72, 82 mm, 5.1 kg, quick release system

DIA 50 W diamond core drill

Drilling holes with dia. 8 - 42 mm with pinpoint accuracy, drilling depth up to 600 mm, in reinforced concrete, marble sand-lime brick, natural stone and tiles.

- + Trouble-free drilling through reinforced concrete
- + Rapid release of the drill core from the core bit

>> 1800 W, rated speed 3000 - 4000 rpm, drilling range hand-held or stand mounted, wet dia. 8 - 42 mm, 6.1 kg, quick release system

DIA 100 W - DIA 150 W - DIA 300 W diamond core drills

For hand-held dry drilling in masonry, sand-lime brick, etc., even in confined spaces or up a ladder, for hand-held or stand mounted wet drilling in concrete, granite or marble.

- + Time-saving positioning with quick centring bit
- + Quick release system for rapid core bit change and drill core removal
- + Water-saving precision metering

| TECHNICAL DATA | DIA 100 W | DIA 150 W | DIA 300 W |
|----------------------------------|---------------|----------------|----------------|
| Rated power (W) | 1800 | 1800 | 1800 |
| Rated speed (rpm) | 900 - 1200 | 480 - 630 | 260 - 350 |
| Drilling range (mm) | | | |
| hand-held, wet | dia. 32 - 102 | dia. 52 - 162 | dia. 112 - 202 |
| with BS drill stand, wet | dia. 32 - 102 | dia. 52 - 162 | dia. 112 - 202 |
| in concrete pipe, hand-held, wet | | up to dia. 202 | up to dia. 300 |
| hand-held, dry | dia. 52 - 112 | dia. 82 - 212 | dia. 127 - 300 |
| Machine weight (kg) | 6.1 | 6.1 | 6.1 |
| Chuck | G 1/2" | G 1/2" | G 1/2" |



DIA 400 W diamond core drill

Outstanding drilling performance even when core drilling in heavy reinforced concrete or in hardest stones.

- + Air cooled, 3200 W drive motor with 3-speed-gearbox
- + Reliable, long life overload clutch
- + Robust, long-life design with high reserves

>> 3200 W, rated speed 1st/2nd/3rd gear 230/480/720 rpm, drilling range in BS 400 drill stand, wet dia. 67 - 400 mm, 12.0 kg, 1 1/4" UNC external

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SPEED

ROTARY HAMMERS, BREAKERS
DIAMOND CORE DRILLS

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MADE IN 
GERMANY

Subject to change without notice · 03/2017