



## When nothing means everything.

When drilling, the end result is a hole, that is, nothing. And it is nature of this hole that is the deciding factor as to whether or not the job is a success.

Diamond core drill bits, in the same way as blades, must be specifically matched to the materials and the machines they will be used with. The range of core drill bits includes several diameters, in order to meet the needs of different users. Therefore we have a wide range of diamond core drill bits with a variety of properties and dimensions.

Efficient drilling equipment is just as much a matter of manoeuvrability and ergonomics as it is of capacity and adaptability to a variety of drilling jobs. Whether drilling handheld or with a stand, the motor as well as the other equipment must be light, manoeuvrable, easy, and efficient to use.

Our ambition is also that all the parts of the drilling equipment should be easy to transport and set up, even in inaccessible locations.

It's when you can avoid unnecessary effort and time wastage, both before and after the job, that you can talk about true efficiency.

Because the main thing is that the equipment produces the hole you want.

## Hydraulic drill motors – Dimas DM 406 H

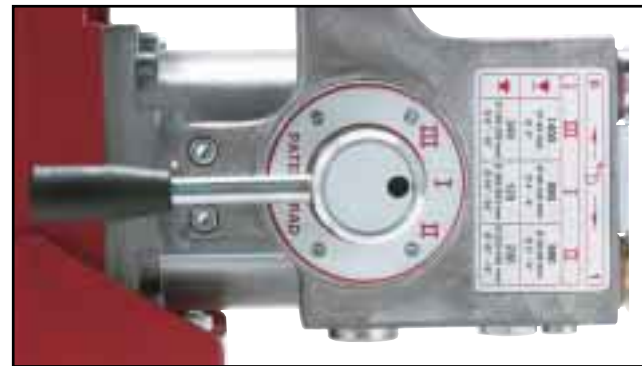
### DIMAS DM 406 H

The Dimas 406 H is a handy hydraulic drill for professional work with core drill bits up to 24" (650 mm). You can optimize the working RPM, by setting the spindle speed to one of six different levels with two mechanical gears and a hydraulic motor with three speeds.

- Hydraulic motor with 4 times the power output compared to electrical.
- Six spindle speeds for the optimal working RPM.
- Possible to change RPM during operation.
- 650 mm (24") drill capacity.
- Power 12 hp (8.8 kW) at 40 l/min (10 gpm). 14 hp (10.3 kW) at 45.4 (12 gpm).
- Low weight, only 15.8 kg (35 lbs).
- Can be used together with Dimas PP 325.

### SPECIFICATIONS, DIMAS DM 406 H

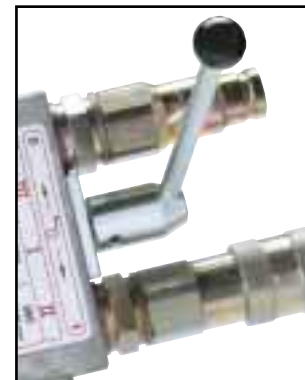
Spindle speed	120/230/340/580/980/1400 RPM
Drill diameter, max	650 mm
Spindle thread	1 1/4" – 7 UNC (CR 28 with adapter)
Water connection	R 1/2
Flow, max	40 l/min
Pressure, max	140 bar
Weight	16 kg



Access to six different spindle speeds and speed regulation during drilling.



DIMAS DM 406 H



Soft start thanks to the hydraulic operation.

## Electric drill motors – Dimas DM 310

### DIMAS DM 310

A powerful, efficient electric drill motor for professional use, with bits from 30 to 300 mm. The machine has four gear stages to provide optimal cutting speed.

The Dimas DM 310 has both Softstart™ and Smartstart™, for maximum safety and control during starts and when drilling, as well as Elgard™, an electronic overload protection.

Thanks to the separate access panels for inspection and for the replacement of carbon brushes, the design of the gearbox and electronic card connection, the DM 310 is very easy to service.

- 3 kW power.
- 4 spindle speeds for maximum cutting speed 30-300 mm.
- Low weight, only 13 kg.
- Softstart™ electronic current limiter ensures a softer start and less load on the network.
- Smartstart™ reduces the RPM by 50% when starting, for easier drilling of starter holes.
- Elgard™ electronic slip clutch protects the motor.
- Multi-stage, electronic overload protection.

### SPECIFICATIONS, DIMAS DM 310

Electric motor	3 kW, single phase
Rated voltage	230 V
Rated wattage	3000 W
Rated current	13 A
Spindle speed, idling	350/750/1350/1900 RPM
Spindle speed, full load	230/480/870/1230 RPM
Drill diameter, max	300 mm
Spindle thread	1 1/4" – 7 UNC
Water connection	G 1/4"
Sound pressure level	98 dB A, 98 dB C
Sound power level	105 dB A weighted
Weight	13 kg



Smartstart™.



Four gear stages to provide optimal cutting speed.



DIMAS DM 310

**DIMAS DM 225**

Handheld drill motor for drilling in concrete, brick and other masonry material. The machine is suitable for professional operators, plumbers, well drillers, electricians and builders with high demands as regards performance and efficiency.

The drill motor has a high power-to-weight ratio, extremely high quality and contains advanced electronics for maximum power and reliability in operation.

The DM 225 is designed for drilling in tight areas and is simple to assemble. Three spirit levels and a handle that can be turned make your work much easier.

The machine is very easy to service, because of its separate access panels for inspection and for the replacement of carbon brushes, the design of the gearbox and electronic card connection.

- 1.8 kW power, 10 A, 15 A.
- Low weight, 5.2 kg.
- 3 speeds, 580/1400/2900, for optimal cutting.
- Can handle drill diameters of up to 152 mm when mounted on stand.
- Can handle drill diameters of up to 75 mm when mounted on stand.
- Softstart™.
- Smartstart™.
- Elgard™.
- Multi-stage, electronic overload protection.



DIMAS DM 225

DIMAS DM 225 D

**DIMAS DM 225 D**

The Dimas DM 225 D is a handy yet powerful 3-speed single-phase electric drill motor, for both dry and wet professional drilling. The machine has a 75 mm capacity during handheld drilling, and a 150 mm capacity when mounted on a stand. Thanks to the three spindle speeds, it's easy to find an appropriate peripheral speed, depending on the drill bit diameter and the material.

- Softstart™.
- Smartstart™.
- Elgard™.
- 2 clutches are included.

**SPECIFICATIONS DIMAS DM 225/DM 225 D**

Electric motor	1.8 kW, single phase
Rated voltage	230 V
Rated wattage	1800 W
Rated current	8 A
Spindle speed, idling	900/2150/4500 RPM
Spindle speed, full load	580/1400/2900 RPM
Drill diameter with stand, max	130 mm
Drill diameter handheld, max	60 mm
Spindle thread, DM 225	G 1/2"
Spindle thread, DM 225 D	1 1/4", 7 UNC and G 1/2"
Water connection, DM 225	G 1/4"
Water connection, DM 225 D	G 3/4"
Sound pressure level	86 dB A, 86 dB C
Sound power level	99 dB A weighted
Weight	5.5 kg

**SOFTSTART™**

The standard version of the machine is equipped with an electronic current limiter, for softer starts. Full speed is reached about three seconds after the switch is turned on.

**SMARTSTART™**

To simplify the initial stages of drilling, there is a button on the side of the switch housing. If this button is pressed in immediately after the machine has been started with the switch, the speed is reduced considerably. This feature is extremely useful when making a starter hole. The motor continues at the reduced speed until the button is pressed again or the power switch is pressed off/on again.

**ELGARD™**

Electronic slip clutch. When the machine is overloaded, the motor pulsates (rapid fluctuations in RPM). This occurs at a level just before the mechanical slip clutch starts to slip. If the load is reduced, the machine then returns to normal RPM level and drilling can continue. There is also an electronic overload protection in several stages.



3 speeds, 580/1400/2900 RPM, for optimal cutting.



Smartstart™.

**WEKA DK 52**

The Weka DK 52 is the largest model in our series of compact, powerful machines for rig-mounted drilling. By using water as an efficient coolant for the engine, this is a compact three-phase drill with high power and low weight. The DK 52 has three speeds (120/240/360 RPM) and capacity for drill bit diameters from 110 to 500 mm.

- Three speeds: 120/240/360 RPM.
- Drill bit capacity in concrete: 110–500 mm.
- Oil bath lubrication for maximum efficiency and less maintenance.
- Slip clutch protects against overload.
- Overload switch protects the motor.
- Built of metal, for maximum strength and stability.
- Electronic starting current limitation for starts even with a fast main fuse.
- Overhead drilling possible.
- Anti-friction ring for loosening bit.

**WEKA DK 42**

The DK 42 is a uniquely compact and powerful machine for core drilling with bits up to 400 mm in diameter. By using water as an efficient coolant for the engine, this is a compact three-phase drilling motor with high power and low weight. The DK 42 is available in two versions: the DK 42 with spindle speeds of 160/340/510 RPM, and the DK 42 S with the higher spindle speeds of 240/505/760 RPM.

- Three speeds: for DK 42: 160/340/510 RPM; for DK 42 S: 240/505/760 RPM.
- Oil bath lubrication for maximum efficiency and less maintenance.
- Slip clutch protects against overload.
- Overload switch protects the motor.
- Built of metal, for maximum strength and stability.
- Electronic starting current limitation for starts even with a fast main fuse.
- Overhead drilling possible.



WEKA DK 52/DK 42



Three speeds:



Electronic starting current limitation.

SPECIFICATIONS	WEKA DK 52	WEKA DK 42	WEKA DK 42 S
Nominal power	5.2 kW	3.9 kW	3.9 kW
Output power	4.0 kW	3.0 kW	3.0 kW
Voltage	400 V 3-phase	380 V 3-phase	380 V 3-phase
Gearing	120/240/360 RPM	160/340/510 RPM	240/505/760 RPM
Spindle thread	1 1/4"	1 1/4"	1 1/4"
Drill bit diameter, max	110–500 mm	70–400 mm	50–300 mm
Length	580 mm	540 mm	540 mm
Weight	22.9 kg	19 kg	19 kg
Sound pressure	72 dB(A)	72 dB(A)	72 dB(A)
Rated acceleration	2,5 m/s <sup>2</sup>	2,5 m/s <sup>2</sup>	2,5 m/s <sup>2</sup>

**DIMAS DR 300**

The Dimas DR 300 is a well-designed and strong drill stand, suitable for all the drilling motors on the market. It can fit drill bits up to 300 mm (11.8") in diameter. The stand features very high precision and reliability in combination with manoeuvrability and user-friendliness. The carriage has ball bearings, the feed crank can be installed on both sides and the stand has a comfortable carrying handle.

- Column of stainless steel.
- The guide against the column has 8 ball bearings.
- Low gearing, 1:2.5, makes the feed easy.
- Stepless adjustment of drill bit angle, to 60 degrees, forward and backward.
- Integrated quick-change plate makes changing motor easy.
- Robust stop mechanism for the feed.
- Large feed crank.
- 4 level adjustment screws with star grip.

**DIMAS DR 200**

The Dimas DR 200 is another of our well-designed drill stands. It's generously dimensioned to handle medium-sized drill bits up to 200 mm (7.8") in diameter. Great effort has been put into giving the stand high precision and high reliability in combination with manoeuvrability and user-friendliness. For instance the carriage has ball bearings, the feed crank can be installed on both sides and the stand has a comfortable carrying handle.

- Column of stainless steel.
- The guide against the column has 8 ball bearings.
- Stepless adjustment of drill bit angle, to 60 degrees, forward and backward.
- Integrated quick-change plate makes changing motor easy.
- Robust stop mechanism for the feed.
- Convenient feed.
- 4 level adjustment screws.



DIMAS DR 200

DIMAS DR 300

SPECIFICATIONS	DIMAS DR 300	DIMAS DR 200
Drill bit diameter, max	300 mm	200 mm
With spacer (optional)	600 mm	–
Effective travel	650 mm	650 mm
Dimensions (H x L x W)	1150 x 400 x 240 mm	950 x 300 x 200 mm
Angle drilling	+/- 60 degrees	+/- 60 degrees
Weight without engine	24 kg	17 kg
Weight without carriage	15 kg	10.5 kg

## Drill stands – Dimas DS 350/DS 250/DS 150

### DIMAS DS 350/DS 250

- Wheels on base plate.
- Twin drill feed: 1:1 / 1:2.5.
- Drill bit centring device / water collector support
- Bolt on top of column for floor/ceiling mounting.
- 2 m column version or mini base plate version available.
- Aluminium rig, very light weight.
- Lateral depth scale.
- Angle scale.
- Quick change water coupling.

### ACCESSORIES, DIMAS DS 350/DS 250

Vacuum kit VKP2

Vacuum plate

Complete water collector in 3 sizes (max 250 mm)

Holder for water collector (only DS 350)

Quick connection

Quick connection, 60 mm for handheld drills

### DIMAS DS 150

- Vacuum plate is standard.
- Wheels on base plate.
- Drill bit centring device / water collector support.
- Quick change water coupling.

### ACCESSORIES, DIMAS DS 150

Complete water collector with 3 sizes (max 130 mm)



## Drill stands – Dimas DS 350/DS 250/DS 150



DIMAS DS 350



DIMAS DS 250



DIMAS DS 150

SPECIFICATIONS	DIMAS DS 350	DIMAS DS 250	DIMAS DS 150
Drill bit diameter, max	350 mm	250 mm	150 mm
Drill bit length, max	650 mm	550 mm	450 mm
2 m column	Yes	–	–
Weight	17.5 kg	12.5 kg	8.5 kg
Dimensions (LxWxH)	450x360x1080 mm	400x320x990 mm	280x350x790 mm
Angle drilling	0–45°	0–45°	0–45°

# Diamond core drill bits

Dimas has many years' experience of manufacturing diamond core drill bits. The product range includes a variety of models and dimensions, covering most requirements for drilling in stone and building materials.

Of course, all our core drill bits can be retipped. When using small, high-speed drills, Dimas' thin-walled core drill bit (DTV) B 545 is the most suitable.

## Dimas 600 series

### DIMAS B 645

The 600 series was mainly developed for compatibility with 3-phase electric and hydraulic drills. The drill provides the highest performance within its area of applications, since the segments are manufactured using the so-called sandwich design. The segments have a unique V shape, which provides the optimal cutting characteristics when starting to drill. The technique is based on putting as much force as possible on a very small area of the segments, which in turn leads to a direct exposure of the diamonds.

### Dimas 500 series

High performance, in combination with an extremely wide range of applications, make the 500 series drill bits unique in their field. The drill bits contain diamonds and metal matrices of the latest technology, ensuring the highest performance. The segments

have the same unique for as the 600 series, for the best possible cutting characteristics when starting a new drill bit. Just like with the 600 series, the technique is based on putting as much force as possible on a very small area of the segments, which leads to a direct exposure of the diamonds.

### DIMAS B 515

For drilling in extremely hard materials.

### DIMAS B 520

Fast-cutting drill in hard concrete.

### DIMAS B 530

Drill designed for hard to medium-hard concrete.

### DIMAS B 545

Medium-hard drill with a wide range of applications.

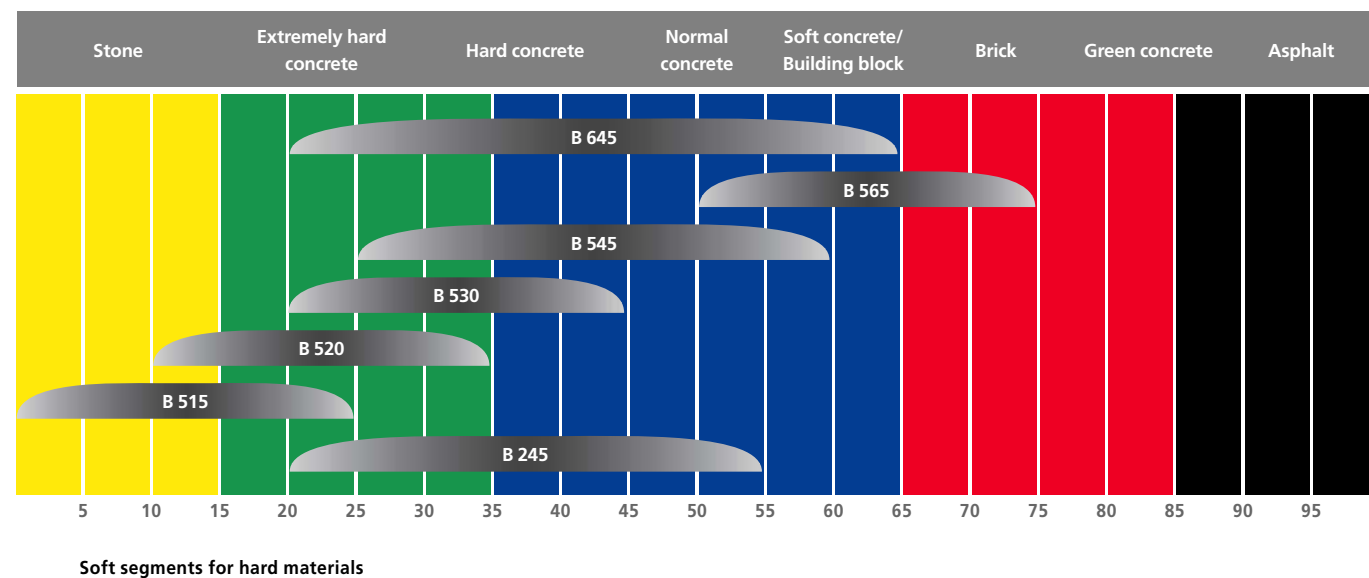
### DIMAS B 565

The drill bit for abrasive materials.

## Dimas 200 series

### DIMAS B 245

Universal drill bit with low investment cost. Excellent properties when drilling in the most common types of concrete in the building and construction industry.



# Diamond core drill bits

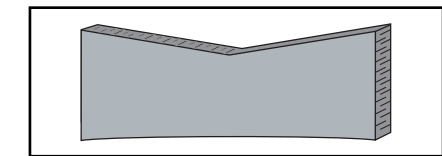
## Diamond core drill bits, Standard

Diameter	Segment width	Core length
20	Ring	500
25	Ring	500
28	Ring	500
30	Ring	500
32	Ring	500
35	3.5	500
41	3.5	500
47	3.5	500
52	3.5	500
62	3.5	500
72	3.5	500
82	3.5	500
92	3.5	500
102	3.5	500
112	3.5	500
122	3.5	500
132	3.5	500
142	3.5	500
152	3.5	500
161	3.5	500
171	4.0	500
186	4.0	500
200	4.0	500
226	4.5	500
250	4.5	500
270	4.5	500
310	4.5	500
325	4.5	500
350	4.5	470
410	5.0	470
425	5.0	470
450	5.0	470
500	5.0	470
550	5.0	470
600	5.0	470

## Diamond core drill bits, DTV

Diameter	Segment width	Core length
18	Ring	350
20	Ring	350
22	Ring	350
24	Ring	350
25	Ring	350
28	Ring	350
30	Ring	350
32	Ring	350
35	2.5	350
40	2.5	350
45	2.5	350
51	2.5	350
61	2.5	350
71	2.5	350
81	2.5	350
91	2.5	350
101	2.5	350
111	2.5	350
120	2.5	350
131	3.0	350

All diameters are supplied with 1/2" R external thread. Diameters and dimensions not listed in the table can also be supplied.



All standard core drill bits (diameter 52 mm and larger) have V-formed segments.

All diameters are supplied standard with connection thread 1 1/4". Diameters, dimensions and other connection threads not listed in the table can also be supplied. Diameter 20-47 mm only supplied for B 545.

