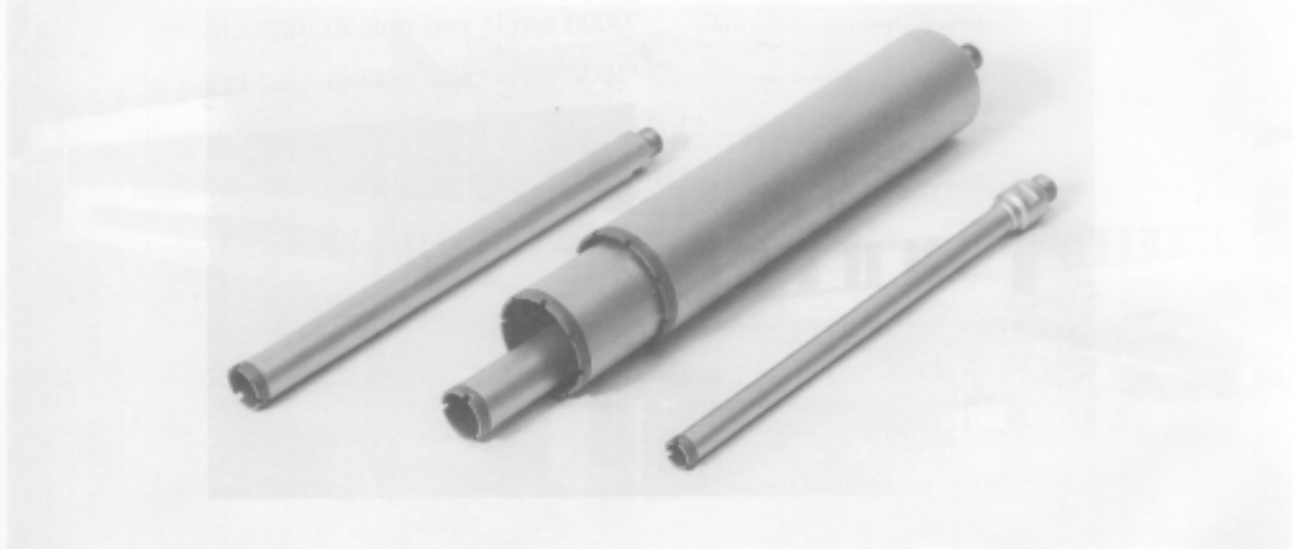


2. Diamond drilling tools and equipment for civil engineering

2.1 Dieckmann diamond core drilling bits "Type 2000"



The Dieckmann "Type 2000" are ringsintered thin kerf bits for low power drills, especially for hand held machines. The rings are exactly circular and very stable considering the thin kerf.

The standard length is 300 mm. Except of Ø 10-12 mm where the standard length is 200 mm. The standard thread connection is R 1/2" pin. Other connections and lengths are available on request.

Dieckmann produces the "Type 2000" diamond drilling bits to drill concrete, reinforced concrete, bricks, marble, granite and refractory materials. In case of inquiry or order please note the material to drill.

If the steel tubes are in a proper state resetting is possible. On request we also deliver the diamond rings separately for custom resetting.

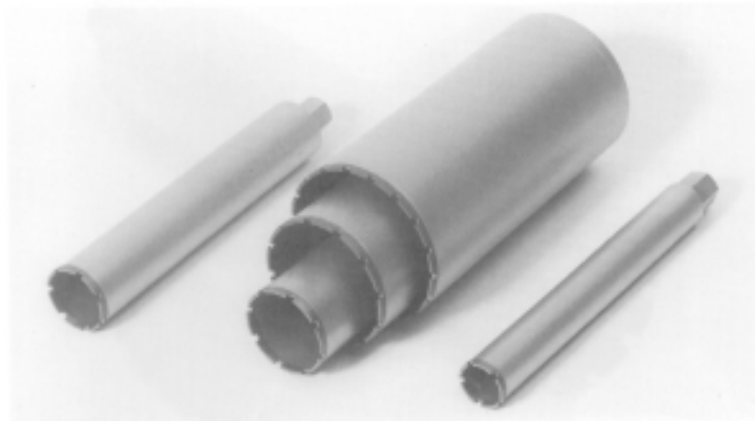
Standard diameters are as follows:

| | | | | | | |
|---------|---------|---------|---------|---------|---------|----------|
| Ø 10 mm | Ø 14 mm | Ø 30 mm | Ø 46 mm | Ø 64 mm | Ø 82 mm | Ø 100 mm |
| Ø 12 mm | Ø 16 mm | Ø 32 mm | Ø 48 mm | Ø 66 mm | Ø 84 mm | |
| | Ø 18 mm | Ø 34 mm | Ø 50 mm | Ø 68 mm | Ø 86 mm | |
| | Ø 20 mm | Ø 35 mm | Ø 52 mm | Ø 70 mm | Ø 88 mm | |
| | Ø 22 mm | Ø 36 mm | Ø 54 mm | Ø 72 mm | Ø 90 mm | |
| | Ø 24 mm | Ø 38 mm | Ø 56 mm | Ø 74 mm | Ø 92 mm | |
| | Ø 25 mm | Ø 40 mm | Ø 58 mm | Ø 76 mm | Ø 94 mm | |
| | Ø 26 mm | Ø 42 mm | Ø 60 mm | Ø 78 mm | Ø 96 mm | |
| | Ø 28 mm | Ø 44 mm | Ø 62 mm | Ø 80 mm | Ø 98 mm | |

Other diameters are available on request. The kerf is 2.5 mm for all diameters.



2.2 Dieckmann diamond core drilling bits "Type 8000"



The Dieckmann "Type 8000" are ringsintered thick kerf bits for high power drills. The rings are exactly circular and extremely stable.

The standard length is 400 mm. The standard thread connection is 1-1/4" UNC box. Other connections and lengths are available on request.

Dieckmann produces the "Type 8000" diamond drilling bits to drill concrete, reinforced concrete, bricks, marble and granite.

In case of inquiry or order please note the material to drill. If the steel tubes are in a proper state resetting is possible. On request we also deliver the diamond rings separately for custom resetting.

Standard diameters are as follows:

| | | | |
|---------|---------|----------|----------|
| Ø 18 mm | Ø 44 mm | Ø 92 mm | Ø 200 mm |
| Ø 20 mm | Ø 46 mm | Ø 102 mm | Ø 212 mm |
| Ø 22 mm | Ø 48 mm | Ø 107 mm | Ø 220 mm |
| Ø 24 mm | Ø 50 mm | Ø 112 mm | Ø 230 mm |
| Ø 26 mm | Ø 52 mm | Ø 122 mm | Ø 240 mm |
| Ø 28 mm | Ø 58 mm | Ø 126 mm | Ø 250 mm |
| Ø 30 mm | Ø 62 mm | Ø 132 mm | |
| Ø 32 mm | Ø 68 mm | Ø 152 mm | |
| Ø 34 mm | Ø 72 mm | Ø 162 mm | |
| Ø 38 mm | Ø 78 mm | Ø 172 mm | |
| Ø 40 mm | Ø 82 mm | Ø 182 mm | |
| Ø 42 mm | Ø 88 mm | Ø 187 mm | |

Other diameters are available on request. The kerf is 3.5 mm for diameters smaller than 50 mm, 4 mm for diameters from 50 to 112 mm,

4.5 mm for diameters from 122 mm to 212 mm and 5 mm for diameters greater than 212 mm.

2.3 Dieckmann diamond core drilling bits "Type 5001"

4.9.1 Core barrels

Dieckmann delivers the standard type B core barrel in diameters from 52 mm to 600 mm and in lengths of 500 mm.

We also deliver the standard type D core barrels in diameters from 52 mm to 600 mm and in lengths of 150 mm.

Dieckmann developed an open tube core barrel type MC in diameters from 52 mm to 600 mm and in lengths of 150 mm to 6000 mm.

We also deliver the winding core barrel type 8000.

The **Dieckmann "Type 5001"** are segmented medium kerf bits for medium to high power drills. They are cheaper than the **"Type 8000"** bits of the same diameter.

The standard length is 400 mm for diameters smaller than 250 mm and 450 mm for larger diameters. The standard thread connection is 1-1/4" UNC box. Other connections and lengths are available on request. Also bits with open tubes without thread connection

Dieckmann delivers the standard type B tubes in diameters from 52 mm to 600 mm and in lengths up to 6000 mm.



4.9.2 Winding drill rods

Dieckmann produces the winding drill rods in diameters from 52 mm to 600 mm and in lengths of 150 mm to 6000 mm.

We also deliver the standard type D winding drill rods in diameters from 52 mm to 600 mm and in lengths of 150 mm to 6000 mm.

Dieckmann developed an open tube winding drill rod type MC in diameters from 52 mm to 600 mm and in lengths of 150 mm to 6000 mm.

We also deliver the winding core barrel type 8000 in diameters from 52 mm to 600 mm and in lengths of 150 mm to 6000 mm.

called **"Type 5000"** are available on request for diameters up to 212 mm.

Dieckmann produces the **"Type 5001"** diamond drilling bits to drill concrete, reinforced concrete, bricks, marble and granite.

If the steel tubes are in a proper state resetting is possible. On request we also deliver single segments for custom resetting.

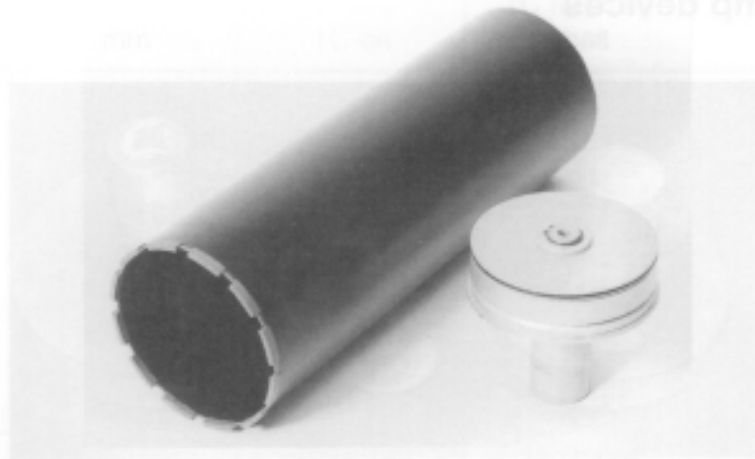
Standard diameters are as follows:

| | | |
|----------|----------|----------|
| ø 52 mm | ø 107 mm | ø 212 mm |
| ø 58 mm | ø 112 mm | ø 250 mm |
| ø 62 mm | ø 122 mm | ø 300 mm |
| ø 68 mm | ø 132 mm | ø 350 mm |
| ø 72 mm | ø 152 mm | ø 400 mm |
| ø 78 mm | ø 162 mm | ø 450 mm |
| ø 82 mm | ø 172 mm | ø 500 mm |
| ø 88 mm | ø 187 mm | ø 600 mm |
| ø 102 mm | ø 200 mm | |

Other diameters are available on request. The kerf is 3.5 mm for diameters smaller than 122 mm, 4 mm for diameters from 122 to 212 mm

and 4.5 mm for diameters greater than 212 mm.

2.4 Dieckmann diamond core drilling bits "Type ASPHALT"



The Dieckmann "Type ASPHALT" are rings-intered thick kerf bits for high power drills. The rings are exactly circular and extremely stable.

The standard length is 400 mm. The standard thread connection is 1-1/4" UNC box. Other connections are available on request. Also bits with open tubes without thread connection are available on request.

Dieckmann produces the "Type ASPHALT" diamond drilling bits especially to drill asphalt.

If the steel tubes are in a proper state resetting is possible. On request we also deliver the diamond rings separately for custom resetting.

Standard diameters are as follows:

- Ø 58 mm x 50 mm
- Ø 107 mm x 99 mm
- Ø 112 mm x 103 mm
- Ø 162 mm x 153 mm

2.5 Additional equipment

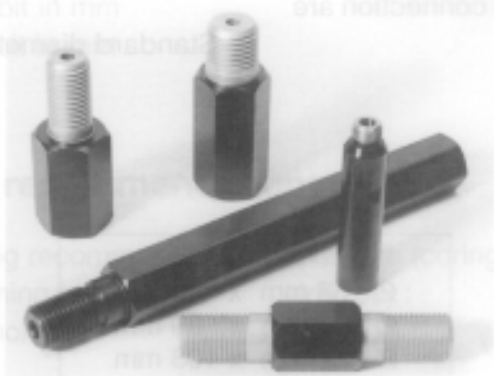
Dieckmann clamp devices



For diamond drilling bits with open tubes **Dieckmann produces clamp devices** with 1-1/4" UNC box thread connection.

The size of the **clamp device** corresponds to the diameter of the bit.

Dieckmann extension rods and thread adaptors



Dieckmann extension rods are necessary when drilling deeper than the length of the bit.

Following types are available:

R 1/2" 100, 200 and 300 mm long for diameters greater than 30 mm

1-1/4" UNC 100, 200, 300, 400 and 500 mm long for diameters greater than 48 mm

If the thread connection of the bit does not fit the thread connection of the drill a **Dieckmann thread adaptor** is necessary.

A wide range of thread adaptors is available from us.

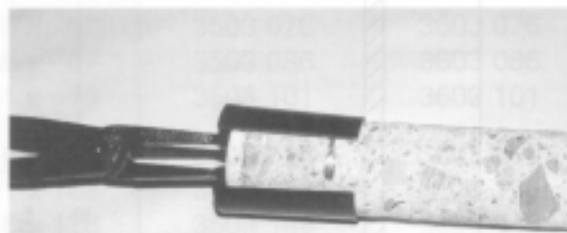
Dieckmann waterswivels



When using a diamond drilling bit with water-cooling together with a normal hand drilling machine a **Dieckmann waterswivel** is necessary.

Dieckmann produces **waterswivels** with a \varnothing 12 mm cylindrical pin or a 1/2"-20 UNF box thread to fit the machine and a R 1/2" box thread to fit the bit.

Dieckmann core catchers



Dieckmann core catchers are useful tools to get the core out of the hole.

The size of the **core catcher** corresponds to the size of the bit.