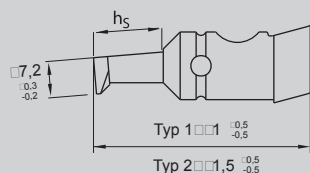


# HS DRILLING TOOLS

# Diamond tipped facade drill bit

515

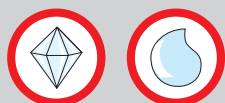


## Execution



► Diamond-tipped undercutting facade drill bit

## For use in



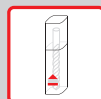
## Application

► For all „hard“ materials, such as ceramics, stoneware, natural stone, glass, artificial stone. Cooling takes place through the centre of the facade drill bit.

## Accessories

- Fastener set 1 ■65
- Fastener set 2 ■65
- Fastener set 3 ■65
- Depth control guide for anchor hole ■56
- Whetstone ■66

## Packaging



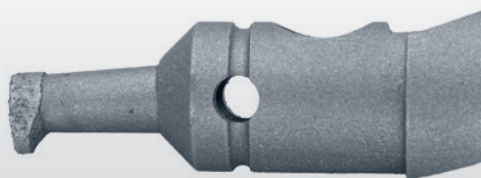
## Comments

► KEIL undercut anchors are monitored by approved bodies

## Usage

- Application only as per approval and KEIL installation instructions
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- For KEIL chucks / undercutting drilling machines
- Recommended speed > 7.000 rpm
- Water pressure > 4 bar

## Diamond tipped facade drill bit



<= 12	7/9 12/0,8	Type 1	2	515 010 022
<= 15	7/9 15/1,3	Type 2	2	515 017 022

## Product information 515

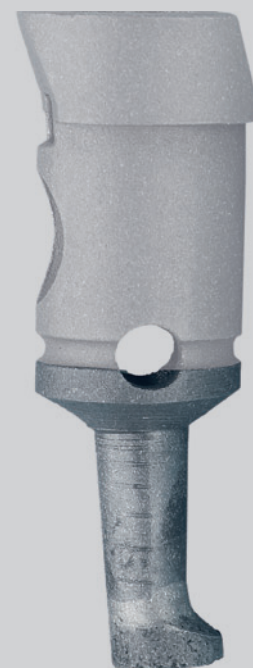
### Diamond facade drill bit

- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Diamond or carbide facade drill bits are used depending on the panel material to be drilled.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- The KEIL facade drill bit is placed in the KEIL drill head.

Typ 1

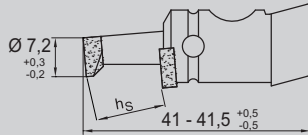


Typ 2



# Diamond tipped facade drill bit with countersink

515

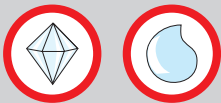


## Execution



► Diamond-tipped facade drill bit with countersink

## For use in



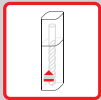
## Application

► For all „hard“ materials, such as ceramics, stoneware, natural stone, glass, artificial stone. Cooling takes place through the centre of the facade drill bit.

## Accessories

- Fastener set 1 ■65
- Fastener set 2 ■65
- Fastener set 3 ■65
- Depth control guide for anchor hole ■56
- Whetstone ■66

## Packaging



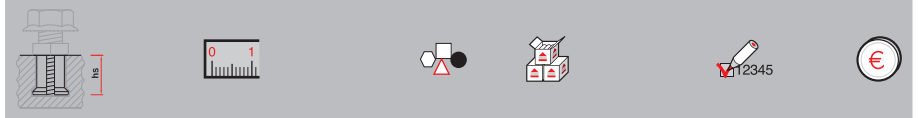
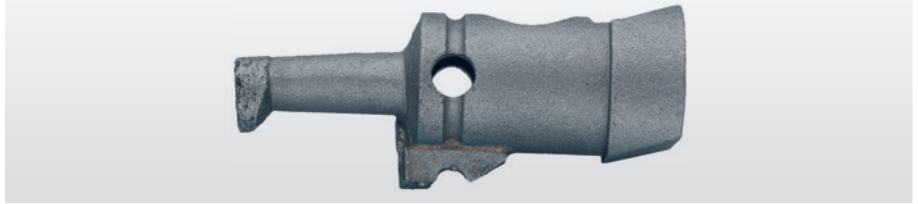
## Comments

► KEIL undercut anchors are monitored by approved bodies

## Usage

- Application only as per approval and KEIL installation instructions
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- For use with machines which use the front of a panel for the drill hole depth measurement reference.
- For KEIL chucks / undercutting drilling machines
- Recommended speed > 7.000 rpm
- Water pressure > 4 bar

## Diamond tipped facade drill bit with countersink



10	7/9 10/1,3/15	countersink Ø 15	2	515 012 000
15	7/9 15/1,3/15	countersink Ø 15	2	515 017 000

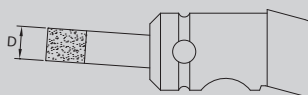
## Product information 515

### Diamond facade drill bit with countersink

- Specially for drilling undercut holes in wall panels of varying thickness.
- Countersinking in thicker and uneven panels is carried out simultaneously in one step during drilling and undercutting.
- The front of the natural stone panel is always the reference dimension.
- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- The KEIL facade drill bit is placed in the KEIL chuck.

# Diamond tipped facade drill bit for through holes

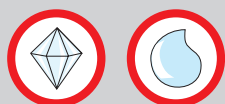
515



## Execution

- ▶ Diamond-tipped facade drill bit for through holes

## For use in



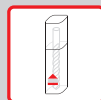
## Application

- ▶ For all „hard“ materials, such as ceramics, stoneware, natural stone, glass, artificial stone. Cooling takes place through the centre of the facade drill bit.

## Accessories

- ▶ Fastener set 1 ■65
- ▶ Fastener set 2 ■65
- ▶ Fastener set 3 ■65
- ▶ Whetstone ■66

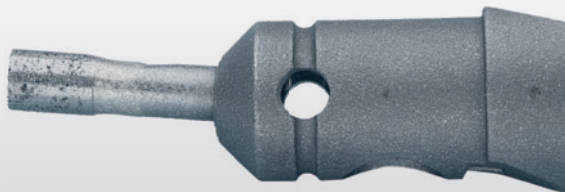
## Packaging



## Usage

- ▶ For KEIL chucks / undercutting drilling machines

## Diamond tipped facade drill bit for through holes



5,0

trough holes

2

515 100 050

10,0

trough holes

2

515 100 100

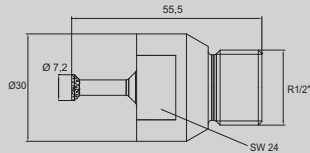
## Product information 515

### Diamond facade drill bit

- ▶ The KEIL facade drill bit for drilling through holes.
- ▶ Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- ▶ The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- ▶ The KEIL facade drill bit is placed in the KEIL chuck.

# Diamond tipped drill bit R1/2"

515

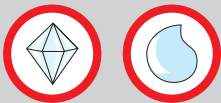


## Execution



► Diamond-tipped undercutting facade drill bit

## For use in



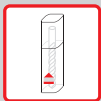
## Application

► For all „hard“ materials, such as ceramics, stoneware, natural stone, glass, artificial stone. Cooling takes place through the centre of the facade drill bit.

## Accessories

- Depth control guide for anchor hole ■56
- Whetstone ■66

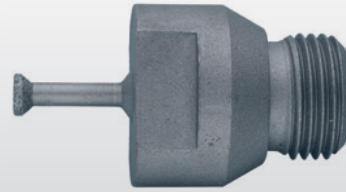
## Packaging



## Usage

- Application only as per approval and KEIL installation instructions
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- CNC machine with R 1/2" chuck
- Undercutting is carried out by CNC control
- Recommended speed > 7.000 rpm
- Water pressure > 4 bar

## Diamond tipped drill bit R1/2"



<= 15



7/9 15/1,3



R 1/2" for CNC



1



515 020 001



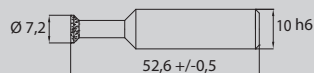
## Product information 515

### Diamond facade drill bit

- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.

# Diamond tipped drill bit / CNC

515

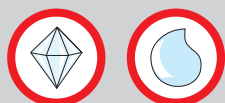


## Execution



- ▶ Diamond-tipped undercutting facade drill bit with cylindrical shaft

## For use in



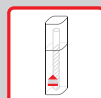
## Application

- ▶ For all „hard“ materials, such as ceramics, stoneware, natural stone, glass, artificial stone. Cooling takes place through the centre of the facade drill bit.

## Accessories

- ▶ Depth control guide for anchor hole ■56
- ▶ Whetstone ■66

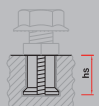
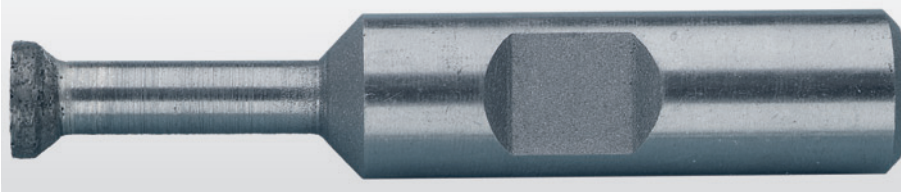
## Packaging



## Usage

- ▶ Application only as per approval and KEIL installation instructions
- ▶ The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- ▶ For CNC machines
- ▶ Recommended speed > 7.000 rpm
- ▶ Water pressure > 4 bar

## Diamond tipped drill bit / CNC



<= 15

7/9/15/1,3

cyl. shaft for CNC

1

515 020 002

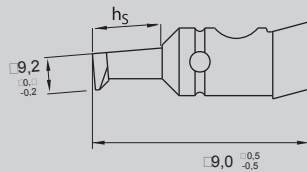
## Product information 515

### Diamond facade drill bit

- ▶ The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- ▶ Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- ▶ Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- ▶ The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.

# Diamond tipped facade drill bit 9/12

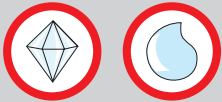
515



## Execution

- ▶ Diamond-tipped undercutting facade drill bit

## For use in



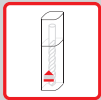
## Application

- ▶ For all „soft“ materials with low strength. Cooling takes place through the centre of the facade drill bit

## Accessories

- ▶ Fastener set 1 ■65
- ▶ Fastener set 2 ■65
- ▶ Fastener set 3 ■65
- ▶ Depth control guide for anchor hole ■56
- ▶ Whetstone ■66

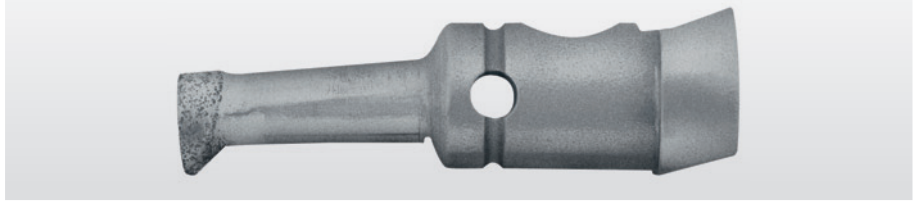
## Packaging



## Usage

- ▶ Application only as per approval and KEIL installation instructions
- ▶ The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- ▶ For KEIL chucks / undercutting drilling machines
- ▶ Recommended speed > 7.000 rpm
- ▶ Water pressure > 4 bar

## Diamond tipped facade drill bit 9/12



<= 20

9/12 20/1,5

2

515 019 001

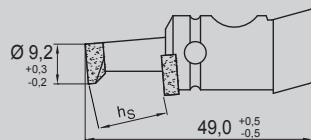
## Product information 515

### Diamond facade drill bit

- ▶ The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- ▶ Diamond or carbide facade drill bits are used depending on the panel material to be drilled.
- ▶ Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- ▶ The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- ▶ The KEIL facade drill bit is placed in the KEIL drill head.

# Diamond tipped facade drill bit with countersink 9/12

515

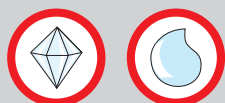


## Execution



- ▶ Diamond-tipped facade drill bit with countersink

## For use in



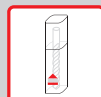
## Application

- ▶ For all „soft“ materials with low strength. Cooling takes place through the centre of the facade drill bit

## Accessories

- ▶ Fastener set 1 ■65
- ▶ Fastener set 2 ■65
- ▶ Fastener set 3 ■65
- ▶ Depth control guide for anchor hole ■56
- ▶ Whetstone ■66

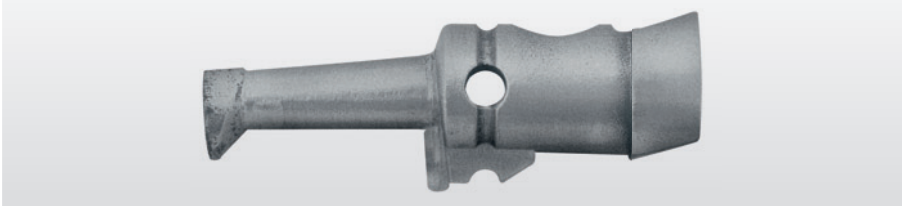
## Packaging



## Usage

- ▶ Application only as per approval and KEIL installation instructions ■22
- ▶ The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- ▶ For use with machines which use the front of a panel for the drill hole depth measurement reference.
- ▶ For KEIL chucks / undercutting drilling machines
- ▶ Recommended speed > 7.000 rpm
- ▶ Water pressure > 4 bar

## Diamond tipped facade drill bit with countersink 9/12



20 9/12 20/1,5/20 countersink Ø 20 2 515 019 002

## Product information 515

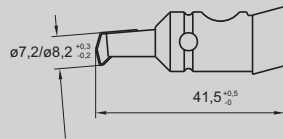
### Diamond facade drill bit with countersink

- ▶ Specially for drilling undercut holes in wall panels of varying thickness.
- ▶ Countersinking in thicker and uneven panels is carried out simultaneously in one step during drilling and undercutting.
- ▶ The front of the natural stone panel is always the reference dimension.
- ▶ The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- ▶ Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- ▶ Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- ▶ The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- ▶ The KEIL facade drill bit is placed in the KEIL chuck.



# Carbide tipped facade drill bit

517



## Execution



- Carbide-tipped undercutting facade drill bit

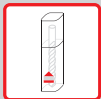
## Application

- For facade panels of fibre cement, laminated materials (HPL), plastics or certain artificial and natural stones, for example.

## Accessories

- Fastener set 1 ■65
- Fastener set 2 ■65
- Fastener set 3 ■65
- Depth control guide for anchor hole ■56

## Packaging



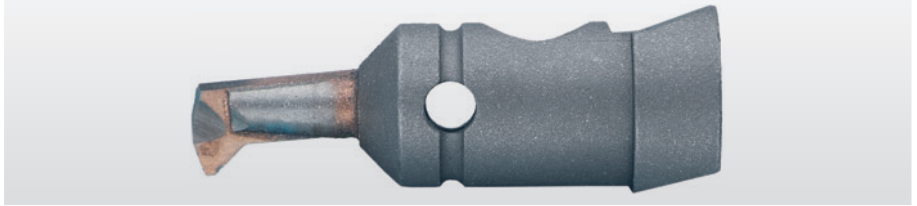
## Comments

- KEIL undercut anchors are monitored by approved bodies

## Usage

- Application only as per approval and KEIL installation instructions ■22
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- For KEIL chucks / undercutting drilling machines

## Carbide tipped facade drill bit



= 4	7/9 12/0,5	x-flat	2	517 010 007
<= 12	7/9 12/0,8	flat	2	517 010 003
<= 12	7/9 12/0,8	standard	2	517 010 002
<= 15	7/9 15/1,3	long	2	517 010 004
<= 12	8/10 12/0,5	Eternit	2	517 010 001
<= 12	8/10 12/0,5	Eternit, flat	2	517 010 006

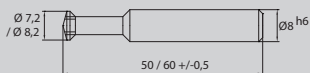
## Product information 517

### Carbide tipped facade drill bit

- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Diamond or carbide facade drill bits are used depending on the panel material to be drilled.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.
- The KEIL facade drill bit is placed in the KEIL drill head.

# Carbide tipped drill bit / CNC

517



## Execution



- Full carbide undercutting facade drill bit with cylindrical shaft

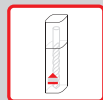
## Application

- For facade panels of fibre cement, laminated materials (HPL), plastics or certain artificial and natural stones, for example.

## Accessories

- Depth control guide for anchor hole ■56

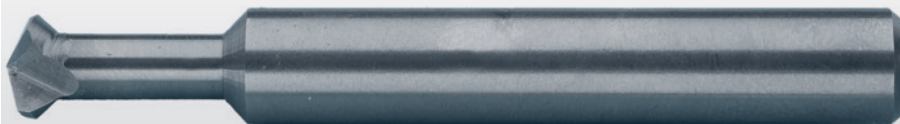
## Packaging



## Usage

- Application only as per approval and KEIL installation instructions ■22
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- For CNC machines

## Carbide tipped drill bit / CNC



<= 13	7/9/13/0,8/8	two cutting edges	1	517 020 005
<= 13	7/9/13/0,8/8	three cutting edges	1	517 020 001
<= 13	8/10/13/0,8/8	two cutting edges	1	517 020 003

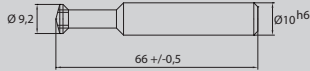
## Product information 517

### Carbide tipped facade drill bit

- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.

# Carbide tipped facade drill bit CNC 9/12

517



## Execution



- Full carbide undercutting facade drill bit with cylindrical shaft

## Application

- For facade panels of fibre cement, laminated materials (HPL), plastics or certain artificial and natural stones, for example.

## Accessories

- Depth control guide for anchor hole ■56

## Packaging



## Usage

- Application only as per approval and KEIL installation instructions ■22
- The depth control guide is used to adjust the insertion depth and to monitor the lifetime of the facade drill bit
- For CNC machines

## Carbide tipped facade drill bit CNC 9/12



<= 20

9/12 20/1,5/20

two cutting edges

1

517 020 017

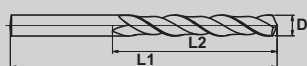
## Product information 517

### Carbide tipped facade drill bit

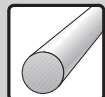
- The KEIL facade drill bit for drilling and undercutting to match the KEIL undercut anchor can be supplied in different versions.
- Diamond or carbide tipped facade drill bits are used depending on the panel material to be drilled.
- Optimised small diameters with a large undercut result in minimum drilling time and maximum tool life.
- The KEIL drilling technology guarantees optimum short drilling times, long tool life and a precise hole geometry.

# HSS DIN 8037 carbide tipped WS-Stopping unit

517



## Drive



## Execution

- ▶ Carbide tip according to DIN 8010
- ▶ Cutting angle 120°
- ▶ Profile-ground
- ▶ Right-hand cutting
- ▶ Short, cylindrical
- ▶ Driver on shaft as per DIN 1809
- ▶ Drill body of HSS
- ▶ Diametral tolerance h8
- ▶ With point thinning

## For use in



- ▶ Insertion depth adjustable with WS-stopping ring

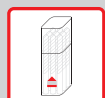
## Application

- ▶ In stationary drilling machines
- ▶ Only for rotary use

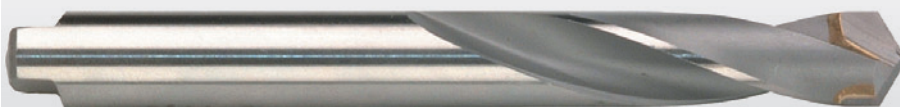
## Accessories

- ▶ WS-Stopping unit ■42

## Packaging



## HSS DIN 8037 carbide tipped



9,00



50



90



9,0



517 000 090



## Product information 517

### HSS DIN 8037 carbide tipped

- ▶ Ground with diamond wheels to the highest accuracy
- ▶ The 2-rake sharpening of the cutting angle
- ▶ form an exact center which makes the drill
- ▶ bit self centering

### Advantages:

- ▶ Very precise holes with perfect surface
- ▶ Less wear on the guide edge
- ▶ More holes between re-grinding
- ▶ High power for drilling with CNC-Machines

517

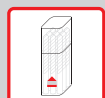
## Execution

- ▶ Adjustable with internal socket grub screw M5

## Application

- ▶ Use with HM-HSS Facade drill bit article 517 000 090

## Packaging



## WS-Stopping unit



1



517 016 050

