TITAN Concrete and Rock Anchors
Operating Instructions

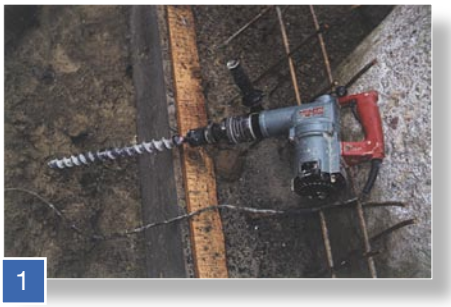
ISCHEBECK TITAN®

TITAN Rock Anchor
SWL 90 kN
Drill hole 35 mm (diameter 1.3/8")
Depth of drill hole 230 mm
Concrete strength approx. 30 N/mm² (C 20/25)
Length 110 mm, weight approx. 0,4 kg

TITAN Concrete Anchor
SWL 90 kN
Drill hole 35 mm diameter (1.3/8")
Depth of drill hole 230 mm
Concrete strength approx. 30 N/mm² (C 20/25)
Length 120 mm, weight approx. 0,3 kg

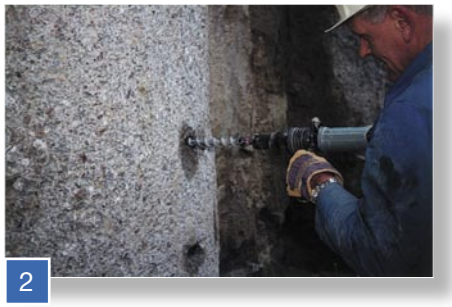
Core drill 35 mm
e.g. SDS-Max-System

total lenght mm	370	570	670
spiral length mm	250	450	550



1

The hole needs to be round and smooth. The use of diamond tipped hollow core drill bits are recommended as they will cut through reinforcement without any problems. The drill should be properly guided by the use of a drill stand with a vacuum foot or a movable drill carriage.



2

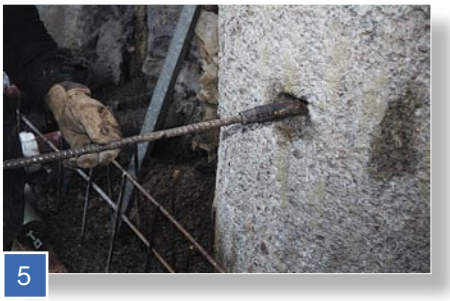
If only a few drill holes are required it may be more economic to use a standard drill with a carbide tipped drill bit. The main disadvantages of this are: the high effort required by the user for holding and pressing, the high amount of dust created, non circular holes and the number unfinished holes due to clashes with reinforcement.

3

The drill hole has to be cleaned from dust. Because of possible dust remaining in the hole, the anchors always have to be inserted in a way that the expandable jaws are in an horizontal position.

4

Screw the anchor onto the tie bar. Greasing the anchor facilitates the movement of the expandable jaws.



5

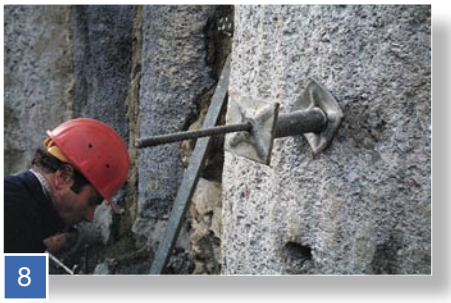
Insert anchor with tie bar into the drill hole and push it all the way to the bottom of the hole.

6

Use 34 mm ø (1") water pipe and put on tie bar.

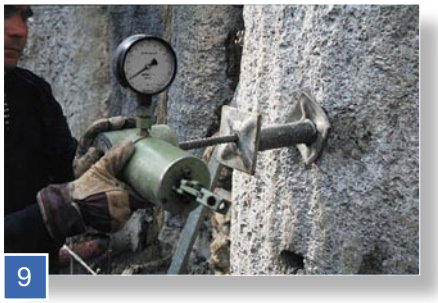
7

Hammer strokes on the pipe enable the expandable jaws to expend and to press their jaws into the concrete.



8

Take away the pipe, put a washer plate, a tube and a second washer plate on the tie bar.



9

Position the hydraulic press onto the tie bar.

10

Fix the hydraulic press with a third washer plate and wing nut and then apply a load of 100kN.

11

Loosen the wing nut and remove all parts.

12

If the tie bar is required for fixing shuttering, insert it into the hole until it touches the back of the hole. This is important since the anchor will slip 10-20mm during the application of the test load (see 10) until the anchor reaches its final safe position. This will prevent the anchor from being loosened should it be accidentally knocked when positioning the formwork shutter.

Different application for the TITAN rock and concrete anchors

DIN EN ISO 9001

CERTIFIED QUALITY-SYSTEM

DVS ZERT

DIN EN ISO 9001 / 2000

Zertifiziert durch DVS ZERT® e. V.

Registriernummer DE-96-010

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