

K50®

The Concrete Anchor



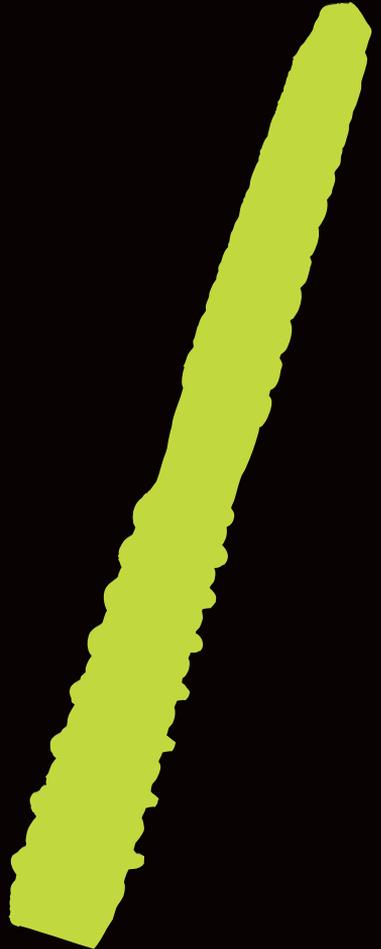
Safety regulations:

1. Follow the accident prevention regulation (VBG9a)
2. Drilling of Ø14mm; depth of 100mm (approx. 4")
3. Check wear and tear marking before use. If it is not longer visible the concrete anchor K50® must not be used!
4. When mounting machines or form works the use of the flange nut K50M SW41 (without spring) or K50MF SW41 (with spring) is recommended to prevent bending
5. Additional safety regulations associated with accessories are specified in the respective manuals
6. Drilling has to be done with an angle of 90° best possible (max. tolerance 5°)
7. When working overhead there has to be an additional safety backup such as a steel tube strut or a quick release shaft



Available lengths:

K50 / 160	concrete anchor 160mm (approx. 6,3")
K50 / 230	concrete anchor 230mm (approx. 9,1")
K50 / 280	concrete anchor 280mm (approx. 11,0")
K50 / 300E	concrete anchor 300mm (for plaster screed) (approx. 11,8")
K50 / 340E	concrete anchor 340mm (for plaster screed) (approx. 13,4")
K50 / 400	concrete anchor 400mm (approx. 15,7")
K50 / 600	concrete anchor 600mm (approx. 23,6")
K50 / 800	concrete anchor 800mm (approx. 31,5")



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The Original

K50®

The Concrete Anchor



Range of applications

The usage of the concrete anchor K50® is generally possible in any load-bearing material. Working with concrete class C20/25 and the anchor's concrete cutting thread fully screwed in (up to the conical shaped transition) forces up to 8kN (approx. 1800lbf) can be sustained in uncracked concrete (extraction force minimum 50kN (approx. 11240lbf)). In high strength concrete higher loads may be possible; other materials may require a load reduction. In this case the load-bearing capacity has to be determined by a load test with the concrete anchors in use.



Wear and tear marking

The concrete anchor K50® has a wear and tear marking.



Load-bearing capacity

Extraction forces with concrete class C30/37

Number of uses	FA	V2	V3	V5
0 (new)	112kN	56kN	37kN	22kN
10	110kN	55kN	36kN	22kN
50	85kN	42kN	28kN	17kN

FA = extraction force

V2 = safety factor 2 times

V3 = safety factor 3 times (with the use of core drilling machines or similar)

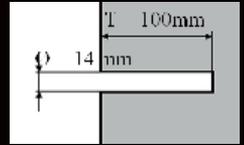
V5 = safety factor 5 times (special load demands (material) or special applications)

100kN approx. 22481lbf



Usage

1. Preparation and drilling
Drilling of $\varnothing 14\text{mm}$; depth 100mm (approx. 4")
Drilling has to be done with an angle of 90° best possible (max. tolerance 5°)
Collect the drilling dust while extracting the drill.
No additional cleansing of the drill hole necessary.

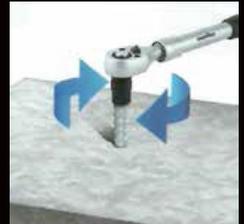


2. Check the wear and tear marking
The concrete anchor K50® can be used up to 50 times
If it is no longer visible the concrete anchor K50® must not be used!



3. Setting the concrete anchor K50®

Drive in the concrete anchor K50® clockwise up to the conical shaped transition. Use a SW13mm socket along with our extractable telescopic wrench 1/2" or an impact screwdriver.



4. Rigging and tightening the flange nut

Now you can mount the base of your core drilling machine or extracting equipment and secure and tighten it with our flange nut K50M/MF SW41.

