

# W-VIZ/S DYNAMIC AND W-VIZ/HCR DYNAMIC INJECTION SYSTEM

28.1



## With WIT-VM 100 injection mortar

For use with the Application Gun, Art. No. 0891 003, or HandyMax®, Art. No. 0891 007.

### Individual fastening:

Cracked and uncracked concrete  
Fatigue-relevant effect (dynamic)

**W-VIZ/S dynamic**  
**Galvanized steel**

**W-VIZ/HCR dynamic**  
**Highly corrosion resistant steel**  
(Material number 1.4529)  
**Available on special order**

\* HandyMax® is a registered trademark of the SORATON SA company.

## Proof of performance

### Approvals

**General construction permit**  
Dynamic



### Drill hole cleaning

Clean drill hole: Blow out 2x, brush out mechanically 2x, blow out 2x

M20 drill hole, blow out with compressed air using the appropriate compressed-air nozzles.

### 1. Applications

- Can be used for applications with a fatigue-relevant effect
- With a general building permit, the anchor may be used in reinforced or non-reinforced standard concrete of the strength class of at least C20/25 and maximum C50/60.

- Anchorage with a general building permit in cracked concrete (concrete tensile zone) and in uncracked concrete (concrete pressure zone)
- **The anchor may be used for anchoring** under predominantly static (e.g. own weight, installations, support materials) and **under loads which are not predominantly static (fatigue-relevant effect – dynamic)**
- The temperature in the mortar area may not exceed +50°C (or +80°C briefly)
- W-VIZ/S dynamic (galvanized steel) can be used in dry rooms indoors
- W-VIZ/HCR dynamic (highly corrosion-resistant steel) may be used outdoors, in damp rooms and in especially aggressive conditions (e.g. atmospheres containing chlorine in indoor swimming pools, atmospheres with extreme chemical contamination, road tunnels etc.)
- Suitable for the attachment of slewing cranes, crane rails, guide rails in elevators, ventilation fans, machines, welding robots, conveying systems, street and highway traffic signs, gantries, attachment in road and railway tunnels etc.

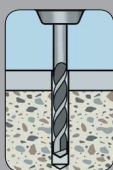
### 2. Advantages

- Pass-through mounting
- Easy mounting: Anchor is supplied prefabricated (no laborious assembly of anchor components required).
- Compared with systems that are currently known, the W-VIZ dynamic injection system is a much more economical dimensioning of the anchorage (in the case of axial and oblique pull, much greater loads are possible and it is possible to distinguish between static and non-static load components. Greater loads are allowed to be transferred when there is a limited number of load changes)
- Hardened injection mortar largely seals off the drill hole
- Attachment with low expansion pressure allows small axial and edge spacings
- Geometry of anchor bar allows safe subsequent expansion performance
- Mechanical drill hole cleaning: Easy handling, very good drill hole cleaning, high load-bearing capacities
- Cartridge can be reused by replacing the static mixer or by re-closing with the sealing cap.

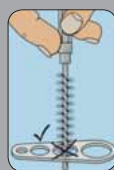
### 3. Features

- Force-controlled/torque-controlled expanding anchor made of electrogalvanized steel in sizes M12, M16, M20 or highly corrosion-resistant steel (HCR, 1.4529) M16
- Force is transferred via the mechanical teeth of individual cones in the composite mortar and also via a combination of retaining and friction forces in the anchoring base (concrete).
- General Construction Permit Z-21.3-1909
- Dimensioned in accordance with the "European Technical Approval Guideline (ETAG) of Metal Anchors for Use in Concrete" Appendix C as per ETA-04/0095 and in accordance with General Construction Permit Z-21.3-1909

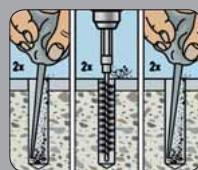
## Setting instructions



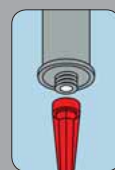
Drill the hole



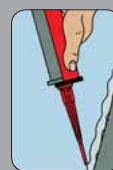
Check cleaning brush dia.



Clean drill hole (blow out 2 x, brush out mechanically 2 x, blow out 2 x), with M20 and larger, blow out with compressed air (compressed-air nozzle)



Screw mixer onto cartridge



Before use, press out approx. 10 cm bead. Do not use this initial mortar!



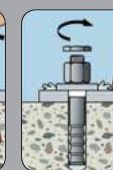
Fill composite mortar starting from base of drill hole.



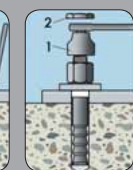
Press in anchor rod up to drill hole base while turning slightly



Comply with hardening time of composite mortar



After the hardening time, remove extruded mortar



1. Apply installation torque  
2. Screw on lock nut, then tighten 1/4 to 1/2 of a turn with the wrench