

NC-Bolt M22 Combination Bolt/Rock Support

Combination Bolt designed for immediate and permanent rock support



NC-Bolt M22 combination bolt for rock anchoring. The bolt is used with an expansion shell for immediate work safety support. The bolt is subsequently grouted for permanent anchoring.

Stock program:

M22x4000

M22x5000

M22x6000

Other lengths can be made to order

Technical information:

Material: HRB 630 compliant with GB 1499.2

Rebar bolt diameter 22mm

Thread length: 2xM22x150mm (the threads are cold rolled)

Weight: 2.98 kg/m

Specifications:

Reference drawing PTC-173 series

Characteristic values:

Dimension:	Tension area A_s Thread-stem	Yield ReH	Tensile Rm	Ductility AGT
M22x2.5	303-380 N/mm ²	Min. 630 N/mm ²	Min. 790 N/mm ²	Min. 7.5%

Minimum load capacity:

Point anchored: Yield: 191kN Failure: 239kN

Fully grouted: Yield: 239kN Failure: 300kN

Recommended torque: 150-250 Nm. Tests show that the specified torque range normally generates 40-60 kN of bolt tension, with the possibility of deviant individual values due to varying friction.

Corrosion protection/Pc-Coat

Hot-dip galvanization is carried out in compliance with NS-EN-ISO 1461 and epoxy powder coating in compliance with NS-EN 13438. With regard to coating thickness and further information, please see Document Q/PTC-T19A – Specification for Pc-Coat – SVV/JBV. Please also refer to the Pc-Coat Product Data Sheet and accompanying FDV documentation.

Grouting: Typical water/cement-ratio is 0,3-0,4. For more detailed information, please see own brochure "Grout recommendations" on www.pretec.no.

Recommended drilling:

Drill diameter: 45-48mm

Drill depth: Bolt length + 150mm

Accessories:

Spherical bearing plate with holes for evacuation of air and expansion shell BL-M22x45/45-48 zinc plate. Spherical bearing plate and expansion shell to be mounted on the bolt before insertion into the borehole.