

Hydrabolt®



New Concept Mining

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The Hydrabolt is a hydraulically expanded rockbolt with superior bond strength for tensile loading applications. The hollow, tubular Hydrabolt is injected with high pressure water upon installation and then expands to adapt to the shape of a pre-drilled support hole. The Hydrabolt incorporates a check valve to prevent the fluid from being released once the inflating nozzle is removed. This system provides a better bond as the inflated tube adapts to the shape, size and irregularities of the hole and distributes the clamping force evenly throughout the length of the hole. As the installed Hydrabolt is sealed, the internal corrosion is self-inhibiting.

Hydrabolts are fitted with an integral load indicator that confirms it has been correctly installed by popping forward once the Hydrabolt has been adequately pressurized; secondly the color of the load indicator identifies which length of Hydrabolt has been installed.

⊕ Main benefits

- Quick and easy to install
- Wide expansion range
- Patented non-return valve which limits "spring-back" giving increased pull-out resistance
- Pressurizing done remotely
- Not affected by blasting vibrations
- No resin or grout required
- No parts to lose in transport
- Not susceptible to rock strength
- Load distributed evenly over entire length of hole
- Provides immediate support

Tri-lobe button



Round button

Technical specifications

Hydrabolt range

Model	Nominal diameter (mm)	Hole size range (mm)	Nominal load capacity (kN)	Typical bond length (mm)
Hydrabolt NT	Ø26	Ø32 – 36	78	250
Hydrabolt Normal	Ø26	Ø32 – 36	98	300
Hydrabolt D29	Ø29	Ø34 – 40	98	300

Hydrabolt lengths range from 0.9 to 3.0 meters in increments of 0.3 meters. Non-standard lengths can be accommodated upon request.

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