

Virsbolt 160/160+

General Product Description

Virsbolt 160 and 160+ are mostly used for tunneling and construction, but could also be used in the mines.

Virsbolt 160 and 160+ are delivered in thickness of 2 mm, and the bolts are delivered in bundles of 50 bolts per bundle.

The bolts have a loading capacity of 160 kN. Virsbolt 160+ is made of special steel and has gone through a precise annealing process to give the bolts excellent elongation characteristics whilst maintaining good load bearing capacity. This gives Virsbolt 160+ better capacity to follow rock deformation with squeezing ground or high strain concentration areas. The products are available within the length range of 2.4 - 6.0 meters.

Advantages using Virsbolt:

- Provides immediate and full support action
- Accommodates large rock movements and still maintain its high load bearing capacity
- High deformability to accommodate ground movements in tension as well as in shear

Dimension Range

Virsbolt, which is JENNMARs expandable rock bolts comes in a variety of dimensions and load carrying specifications. Please contact your local sales person for more information.

Product	Virsbolt 160/160+
Profile diameter (mm)	36
Original tube diameter (mm)	54
Upper bushing diameter (mm)	38
Bushing head diameter (mm)	41 / 48
Standard length ¹⁾ (m)	2.4 - 6.0

¹⁾ Other lengths upon request.

Mechanical Properties

Product	Wall Thickness (mm)	Minimum yield load (kN)	Typical Elongation A (%), not guaranteed	Elongation A (min %)	Typical breaking load (kN), not guaranteed	Minimum breaking load (kN)	Weight (kg/m)
Virsbolt 160	2.0	130	20	15	170	160	2.8
Virsbolt 160+	2.0	120	30	25	160	160	2.8

Tolerances

Tolerances according to JENNMAR's specifications.

Please contact your local sales person for more information regarding tolerances.

Delivery Conditions

Dry/oiled/ plastic coated. Virsbolt expandable rock bolts are delivered bundled. Virsbolt 160 and Virsbolt 160+ are delivered in bundles of 50 bolts per bundle as standard. Delivery requirements can be found in our brochure Virsbolt, expandable rock bolt for rock reinforcement or at www.jennmar.se.

Fabrication and Other Recommendations

Product	Virsbolt 160/160+
Recommended hole diameter (mm)	43 - 52
Recommended inflation pressure (bar)	240

Contact Information

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