SANDVIK

# Omega-Bolt® 160 / 200

## Product code: OB16 / OB20
## Product specification: Inflatable rock bolts
## Category: Friction rock bolts for tunneling

### Introduction

Omega-Bolt® is manufactured from high-strength steel to assure high loading capacity and good elongation. Omega-Bolt® can accommodate large ground movement and can be utilized to stabilize underground excavation even in weak rocks. Omega-Bolt® is produced with modern tube-forming technology and 100% robotic assembly under strict quality control procedures. After two decades of experience, Omega-Bolt® now features a “full-open gap profile”, which allows the best quality of corrosion protection, avoiding areas with a too thin or too thick coating.

### Main Advantages

- Immediate load-bearing capacity after installation
- Extra elongation to accommodate even large deformations
- Immediate full load-bearing capacity over the entire installed bolt length
- Trouble-free installation in water-bearing boreholes
- Low sensitivity to vibrations caused by blasting works
- Ability to maintain load-bearing capacity even when undergoing deformations
- Safe and easy installation
- No additional grouting materials are required for installation
- Flexibility in case of differing or varying borehole



**Technical Specifications**

| Type | Typical Loading Capacity kN(1) | Elongation $A_{125}$ (2) | Required borehole diameter mm | Water pressure for inflation bar |
|---|---|---|---|---|
| Omega-Bolt® 160 | 160 | 10 % | 45÷53 | 260 |
| Omega-Bolt® 200 | 200 | 10 % | 45÷53 | 300 |

(1) Tensile test performed on the entire bolt, after profile inflation, i.e., simulating real condition after rock bolt’s installation
(2) Elongation measured on expanded profile, simulating real working conditions after installation

### Omega-Bolt® Full Product Range of Bolts and Accessories

- Omega-Bolt® 240 – 240C for extra loading capacity
- Omega-Bolt® 120 kN, the most popular mining bolt, 35-38 mm boreholes
- Connectable Omega-Bolt® 240 for special applications when long inflatable rock bolts are required
- Complete range of flat and domed face plates, including the innovative Omega Opti-Plate 120
- Eye-ball to facilitate installation in broken ground, centralizers to facilitate installation through mining mesh, and ASTM color-code plugs
- Pneumatic, electric, and hydraulic high-pressure inflation pumps and chucks for manual or mechanized installation

All dimensions, weights, quantities and specifications are those applicable at the time of this publication and may be amended from time too time. Please contact your local representative for final confirmation of any key specifications.

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