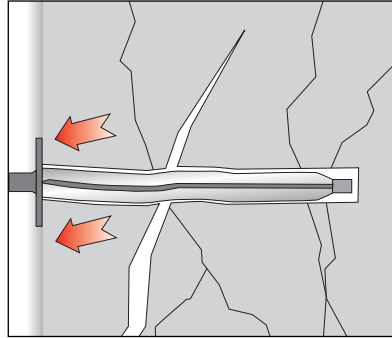


GONLEX



The **GONLEX** rock bolt range features friction bolts with superior product characteristics to meet the most demanding roof support applications. The high load-bearing capacity combined with excellent elongation properties ensure safer working conditions and faster

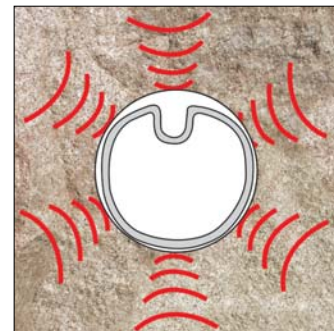
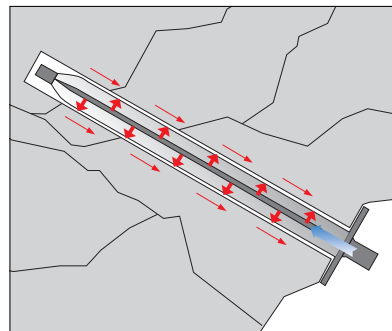
excavation cycles for low costs. Please refer to specification sheets for detailed product information.



GONLEX PERFORMANCE

- Original cross-section shape of the **GONLEX** friction bolt when inserted into drill hole.
- Water is pumped into the bolt at 30 MPa expanding the steel tube.
- The water runs out and the bolt is pressed against the rock providing high load friction capacity.

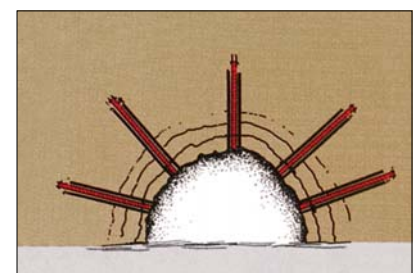
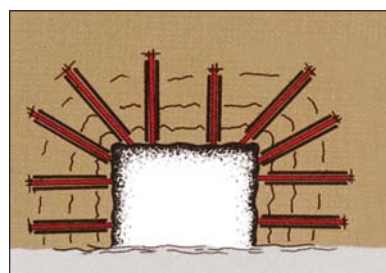
Original cross section shape of The **GONLEX** friction bolt when inserted into the drill hole.



The water runs out and the bolt is pressed against the rock providing high load friction capacity.

GONLEX BENEFITS:

- simple and easy installation
- immediate full length support for faster excavation cycles and safer working conditions
- excellent elongation properties add to application flexibility
- reliable installation quality
- flexible to variations in drill hole diameter
- adjusts to borehole irregularities
- high deformability in case of ground movements
- intensive for explosion vibrations
- no grouting or use of chemicals needed to avoid contaminations
- manual or mechanical installation at choice

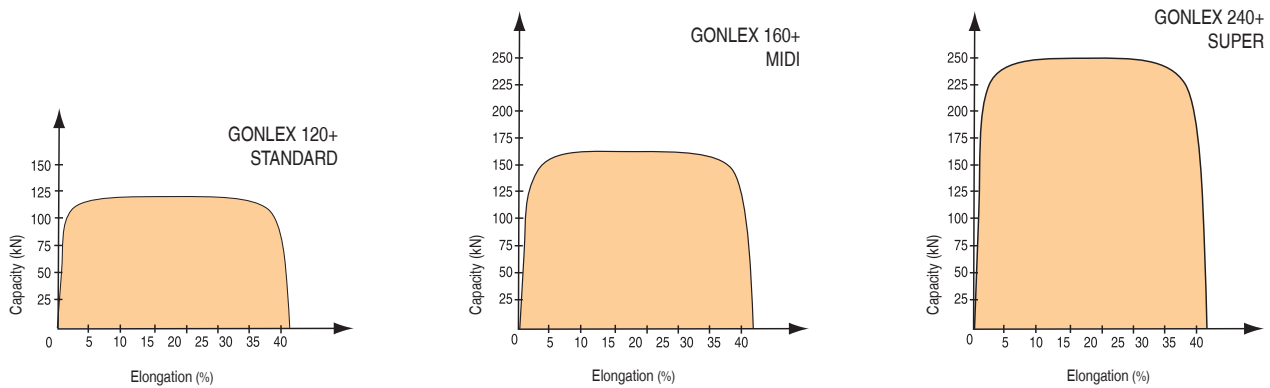


GONLEX SPECIFICATIONS

The **GONLEX** rock bolts are designed to satisfy the most demanding rock support challenges in the construction and mining industries. The high load capacity combined with excellent elongation properties provide for cost savings and safer working environment.

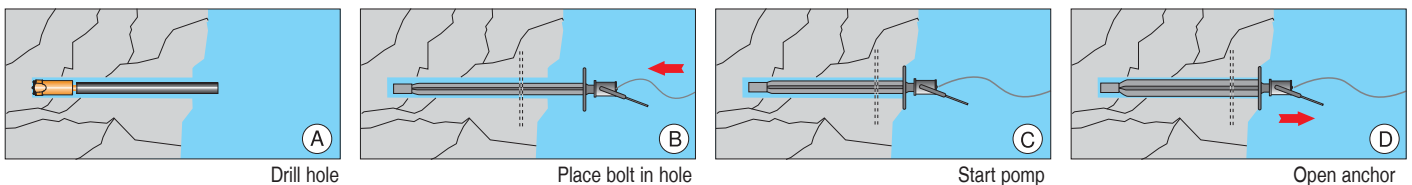
The **GONLEX** range consists of three products. The **GONLEX STANDARD** for lighter applications with a load capacity of 12 metric tons, **GONLEX MIDI** load capacity of 16 tons and the robust **GONLEX SUPER** with a capacity of 24 metric tons.

TECHNICAL SPECIFICATIONS			
TYPE	STANDARD	MIDI	SUPER
Variable length up to	8000 mm	8000 mm	8000 mm
Tube thickness	2 mm	2 mm	3 mm
Bolt diameter	26 mm	36 mm	36 mm
Original tube	41 mm	54 mm	54 mm
Hole diameter	32-39 mm	43-52 mm	43-52 mm
Optimal hole	35-38 mm	45-51 mm	45-51 mm
Breaking load	120 kN	160 kN	240 kN
Minimum elongation	20%	20%	20%
Typical elongation	30%	30%	30%
Face plate	150*150*6	200*200*6	200*200*8
Face plate hole	30 mm	40 mm	40 mm
Weight	2 kgs/m	2.80 kgs/m	3.80 kgs/m



GONLEX INSERTION SEQUENCE

- A – Drilling of a bore hole manually or by using a jumbo or a rock bolter
- B – Insertion of the **GONLEX** friction bolt into the bore hole
- C – Pumping of water into the **GONLEX** friction bolt until the water pressure reaches 30 MPa.
The bolt is now secured into place
- D – Withdrawal of the water pump from the end bushing. Bolting is now completed.



GONLEX ACCESSORIES

- A full range of pneumatic and electric water pumps
- Robust face plates
- Load tester



GONAR-BIS Sp. z o.o.
ul. Obroki 109, 40-833 Katowice
Tel.: +48 32 207 12 95, Kom.: +48 606 447 657
E-mail: m.maltazar@gonar.com.pl
www.gonar.com.pl