

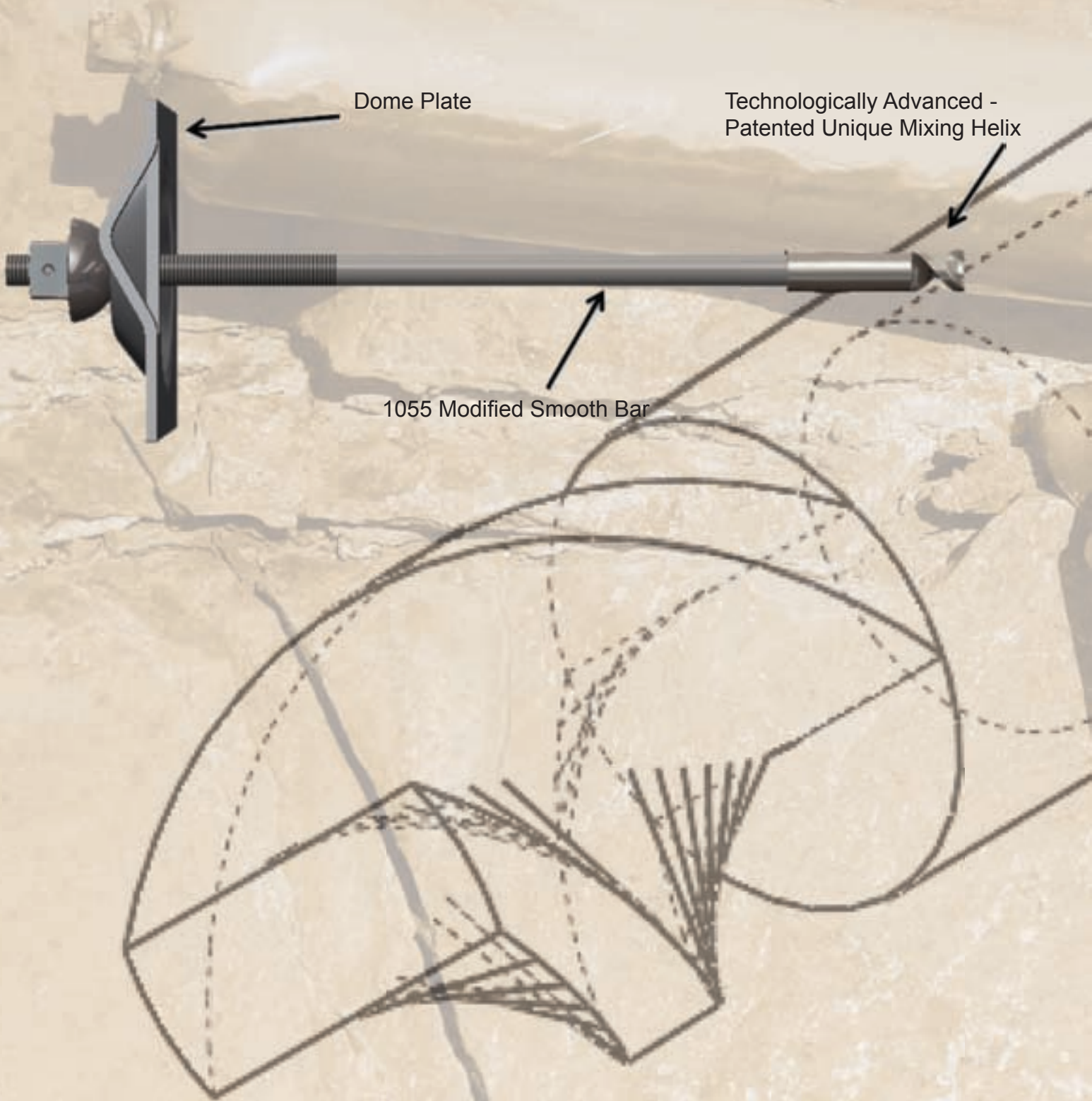
DYNATORK



DYNATORK

DSI Dynamic Rock Support Solution.

The mining industry has recently developed technologies to mine deeper ore bodies. With this technology, there are associated problems such as dynamic rock conditions. Without proper rock support, deep mining cannot be sustained. Due to growing demand and hard rock mining moving deeper, DSI introduces its Dynamic Rock Support Solution.



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Dynamic Bolt Energy Absorption	15 kJ Tested	23 kJ Tested	30 kJ tested
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1055 Modified Steel		
Elongation		10%
Yield Strength	448 MPa	65,000psi
	93 kN	20,904 lb
Ultimate Tensile Strength	660 MPa	65,700 psi
	143 kN	32,160 lb
Recommended Domed Washer Plate	6.3 mm x 150 mm x 150 mm	1/4" x 6" x 6"
Thread Diameter	19.05 mm	3/4 in
Bore Hole Diameter		33mm



Properly mixed resin in any ground support installation is paramount. Dynatork bolt is designed with a spiral mixing blade to ensure ultimate mixing of DSI resin in the borehole. This blade design has a dual propose: to mix the resin properly and provide anchorage for static ground support. The cone is designed to yield and transfer dynamic loads into the resin in rock burst conditions, absorbing the energy through controlled deformation. This ploughing effect through the resin will ensure that most of the kinetic energy in a rock burst is contained within the rock-mass. The Dynatork bolt is the ultimate Dynamic Rock Support Solution for deep mining where it provides proper anchorage in a regular static mining environment, and ultimately yielding support in dynamic rock burst conditions.



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