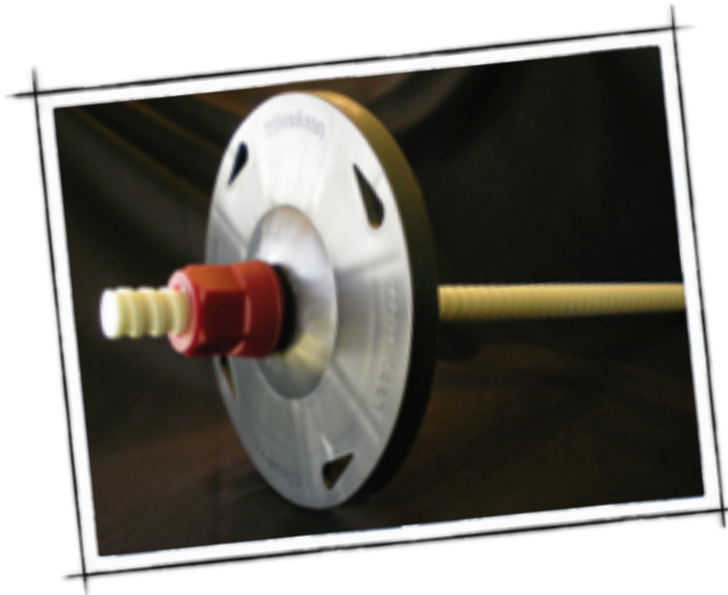




## Standard Mateenbolt™ Diameters



Nominal Diameter	22mm/0.875" <u>MATBOLT22</u>		25mm / 1" <u>MATBOLT25</u>		32mm / 1.25" <u>MATBOLT32</u>		32/12mm Hollow <u>MATBOLT32/12</u>	
	kN	kip	kN	kip	kN	kip	kN	kip
Ult. Strength	> 215	> 48	> 260	> 58	> 430	> 97	> 340	> 76
Single Nut Pull Off	> 65	> 14.5	> 90	> 20	> 90	> 34	> 90	> 34
	<u>MATNUTC22</u>		<u>MATNUTC25</u>		<u>MATNUTC32</u>		<u>MATNUTC32</u>	
Double Nut Pull Off	n/a	n/a	> 147	> 33	> 222	> 50	> 222	> 50
Shear	> 50	> 11	> 58	> 13	> 108	> 24	> 90	> 20
	sq. mm.	sq. in.	sq. mm.	sq. in.	sq. mm.	sq. in.	sq. mm.	sq. in.
Working (Net) Area	285	0.44	385	0.62	645	1.00	532	0.82

Cutable face bolts are commonly used in tunneling excavation either in the TBM Soft Eye opening or in NATM/SEM tunnel excavation where the tunnel face needs supplementary support in order to be excavated safely.

TBM soft eyes are starting to turn away from fiberglass rebar reinforced cussions which can be a large expense. Instead they are turning to a steel fiber reinforced concrete which is then held back by fiberglass soil nails. This is a more economical and expedient solution. Mateenbolt fiberglass bolts are the perfect solution for the cutable soil nail reinforcement for this application.

Sequential Excavation Method (SEM) tunnel driving also frequently needs to make use of cutable reinforcement to temporarily stabilize the face while driving the tunnel forward.



## Cutable Bearing Plate

Max Angle of Inclination - 25°

Load Rating - 10,000 lbs - MATPLATE10K

Load Rating - 25,000 lbs - MATPLATE25K

