

## MAC.RO. SYSTEM - RBS ANCHOR BAR

HIGH CAPACITY SELF DRILLING ANCHOR

### Use

The rock bolting is the most common used system for rock mass stabilization, especially in tunnelling and mining industry. The RBS bar is a high resistance continuous threaded hollow bar, offering the following advantages:

- Can be used as self-drilling bolts with a sacrificial bit
- Can support an overhead anchor device
- Provides a continuous closed circuit for high pressure grout injection for pumping thixotropic grout mixtures
- Can be cut and coupled on site to achieve all lengths
- Smaller diameter bars can be used under the same load, due to the extraordinary steel mechanic properties, i.e.: lower costs of the structure components (bars, couplings, bits), easier drilling and setting, reduced mixture quantity and smaller rigs can be used.



**Figure 1**

Has a lower weight, i.e.: lower handling costs and easier installation operations

ROD TYPE		R32X5 standard	R32x5 termic	R38X8 standard	R38X5 termic	R51X9 standard	R51X7 termic
Tensile strength	kN	260	450	500	530	800	1000
Yield point	kN	180	380	400	480	630	800
Outer diameter	mm	32,0	32,0	38,0	38,0	51,0	51,0
Effective external diameter	mm	31,3	31,3	38,00	38,00	50,40	50,40
Internal diameter	mm	17,0	18,0	18,5	25,0	32,2	37,0
Thickness	mm	5,6	5,2	8,2	5,2	9,4	7,1
Cross area	mm <sup>2</sup>	450	430	750	530	1150	950
Weight	kg/m	3,5	3,3	6,2	4,2	9,4	7,5
Tensile strength	N/mm <sup>2</sup>	>550	>1100	>630	>1100	>630	>1100
Yield stress	N/mm <sup>2</sup>	>370	>900	>345	>900	>345	>900
Thread type		R32 left hand	R32 left hand	R38 left hand	R38 left hand	R51 left hand	R51 left hand

**WARNING:** Install the product in accordance with National Security Requirements! If the job is done with suspension or security ropes, personal protective equipment against fall risk must be connected with anchor points in agreement with EN 795.

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

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