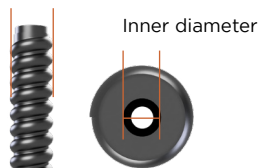


The Magnacore Self-Drilling Anchor (SDA) is a deep foundation element for virtually any soil/rock profile, particularly soil profiles that are collapsible. It is formed in a single, top-down operation by the injection of a high-pressure, neat cement grout mixture, which is pumped through the bar and serves as the drill string. The neat grout mix exits through grout ports at the end of the sacrificial bit and permeates into the looser adjacent soils. This mix and permeation are what forms the competent reinforced grout column. Standard bar lengths are 4.92 ft (1.5 m) and 9.84 ft (3 m) and non-galvanized, though galvanized bars and custom bar lengths, sizes, and bit sizes can be ordered.

### SELF-DRILLING ANCHORS

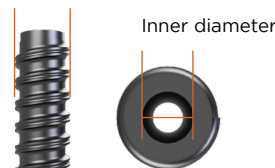
Bar Type	Outer Diameter	Inner Diameter	Area	Ultimate Load (P <sub>u</sub> )	Yield Load (P <sub>y</sub> )	Ultimate Stress (F <sub>u</sub> )	Yield Stress (F <sub>y</sub> )	Weight
<b>MCR32/15</b>	1.26 in (32 mm)	0.59 in (15 mm)	0.79 in <sup>2</sup> (510 mm <sup>2</sup> )	81 kips (360 kN)	63 kips (280 kN)	102 ksi (706 MPa)	80 ksi (549 MPa)	2.69 lbs/ft (4.00 kg/m)
<b>MCR38/18</b>	1.50 in (38 mm)	0.71 in (18 mm)	1.17 in <sup>2</sup> (752 mm <sup>2</sup> )	124 kips (550 kN)	101 kips (450 kN)	106 ksi (731 MPa)	87 ksi (598 MPa)	3.96 lbs/ft (5.90 kg/m)
<b>MCR51/29</b>	2.01 in (51 mm)	1.14 in (29 mm)	1.78 in <sup>2</sup> (1146 mm <sup>2</sup> )	180 kips (800 kN)	142 kips (630 kN)	101 ksi (698 MPa)	80 ksi (550 MPa)	6.05 lbs/ft (9.00 kg/m)
<b>MCT40/20</b>	1.57 in (40 mm)	0.79 in (20 mm)	1.22 in <sup>2</sup> (790 mm <sup>2</sup> )	121 kips (539 kN)	97 kips (430 kN)	99 ksi (682 MPa)	79 ksi (544 MPa)	4.17 lbs/ft (6.20 kg/m)
<b>MCT40/16</b>	1.57 in (40 mm)	0.63 in (16 mm)	1.42 in <sup>2</sup> (917 mm <sup>2</sup> )	148 kips (660 kN)	118 kips (525 kN)	104 ksi (720 MPa)	83 ksi (573 MPa)	4.84 lbs/ft (7.20 kg/m)
<b>MCT52/26</b>	2.05 in (52 mm)	1.02 in (26 mm)	1.92 in <sup>2</sup> (1236 mm <sup>2</sup> )	209 kips (929 kN)	164 kips (730 kN)	109 ksi (752 MPa)	86 ksi (591 MPa)	6.52 lbs/ft (9.70 kg/m)
<b>MCT76/45</b>	2.99 in (76 mm)	1.77 in (45 mm)	3.89 in <sup>2</sup> (2510 mm <sup>2</sup> )	427 kips (1900 kN)	337 kips (1500 kN)	110 ksi (757 MPa)	87 ksi (598 MPa)	13.24 lbs/ft (19.70 kg/m)

Outer diameter



**R Thread (Round)**  
MCR\_

Outer diameter



**T Thread (Trapezoidal)**  
MCT\_

**We're here to help!**  
Contact your Intech business development manager to assist you on your next project. Or, contact Intech Engineering for assistance in designing your next micropile project.

