

The following pages detail our hollow bar offering. Our standard stock length of bar are 4.92 ft (1.5 m) and 9.84 ft (3 m). The standard bar is non-galvanized. Galvanized bars can be ordered custom. Other accessories such as centralizers, plates, beveled washers, and sleeved bars are available on request. **Special orders can be placed for custom bar lengths, sizes, and bit sizes.**

### Hollow Bar

Part No.	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)

### Coupler

Part No.	Outer Diameter	Length	Weight	Notes
MCR32COUPLER	1.65 in (42 mm)	6.30 in (160 mm)	1.90 lbs (0.86 kg)	With sealing ring
MCR32COUPLER-G	1.65 in (42 mm)	7.48 in (190 mm)	2.20 lbs (1.00 kg)	Galvanized with sealing ring



### Hex Nut

Part No.	Key Size	Length	Weight	Notes
MCR32HEXNUT	1.81 in (46 mm)	1.77 in (45 mm)	0.82 lbs (0.37 kg)	
MCR32HEXNUT-G	1.81 in (46 mm)	2.17 in (55 mm)	0.95 lbs (0.43 kg)	Galvanized



### Drill Bit

Part No.	Bit Diameter	Notes
MCR32-64EXX	2.52 in (64 mm)	
MCR32-76EXX	2.99 in (76 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCR32-90EXX	3.54 in (90 mm)	
MCR32-100EXX	3.94 in (100 mm)	
MCR32-76ESS	2.99 in (76 mm)	Carbide Button Bit for sand, fills, gravel
MCR32-100CLAY	3.94 in (100 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCR32-110CLAY	4.33 in (110 mm)	
MCR32-76EYY	2.99 in (76 mm)	Carbide Tri-Blade for competent ground, strong rock
MCR32-76EY	2.99 in (76 mm)	Tri-Blade for chalk, gravel



### Drill Bit Adapter

Part No.	Length	Weight	Notes
MCR32/R38DBA	1.97 in (50 mm)	0.29 lbs (0.13 kg)	R32 to R38



Hollow Bar

Part No.	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>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)

Coupler

Part No.	Outer Diameter	Length	Weight	Notes
MCR38COUPLER	2.01 in (51 mm)	7.87 in (200 mm)	3.31 lbs (1.50 kg)	With sealing ring
MCR38COUPLER-G	2.01 in (51 mm)	7.87 in (200 mm)	3.31 lbs (1.50 kg)	Galvanized with sealing ring



Hex Nut

Part No.	Key Size	Length	Weight	Notes
MCR38HEXNUT	1.97 in (50 mm)	2.36 in (60 mm)	1.04 lbs (0.47 kg)	
MCR38HEXNUT-G	1.97 in (50 mm)	3.15 in (80 mm)	1.41 lbs (0.64 kg)	Galvanized



Drill Bit

Part No.	Bit Diameter	Notes
MCR38-90EXX	3.54 in (90 mm)	
MCR38-100EXX	3.94 in (100 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCR38-115EXX	4.53 in (115 mm)	
MCR38-150EXX	5.91 in (150 mm)	
MCR38-64ESS	2.52 in (64 mm)	
MCR38-90ESS	3.54 in (90 mm)	Carbide Button Bit for sand, fills, gravel
MCR38-100ESS	3.94 in (100 mm)	
MCR38-115ESS	4.53 in (115 mm)	
MCR38-90CLAY	3.54 in (90 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCR38-100CLAY	3.94 in (100 mm)	
MCR38-115CLAY	4.53 in (115 mm)	
MCR38-130CLAY	5.12 in (130 mm)	
MCR38-150CLAY	5.91 in (150 mm)	



Drill Bit Adapter

Part No.	Length	Weight	Notes
MCR38/T52DBA	2.68 in (68 mm)	0.86 lbs (0.39 kg)	R38 to T52
MCR38/R51DBA	2.68 in (68 mm)	0.93 lbs (0.42 kg)	R38 to R51



Special orders can be placed for custom bar lengths, sizes, and bit sizes.

**Hollow Bar**

Part No.	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>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)

**Coupler**

Part No.	Outer Diameter	Length	Weight	Notes
MCR51COUPLER	2.48 in (63 mm)	7.87 in (200 mm)	4.08 lbs (1.85 kg)	With sealing ring
MCR51COUPLER-G	2.76 in (70 mm)	7.87 in (200 mm)	6.33 lbs (2.87 kg)	Galvanized with sealing ring



**Hex Nut**

Part No.	Key Size	Length	Weight	Notes
MCR51HEXNUT	2.95 in (75 mm)	3.15 in (80 mm)	4.06 lbs (1.84 kg)	
MCR51HEXNUT-G	2.95 in (75 mm)	3.15 in (80 mm)	3.88 lbs (1.76 kg)	Galvanized



**Drill Bit**

Part No.	Bit Diameter	Notes
MCR51-76EXX	2.99 in (76 mm)	
MCR51-100EXX	3.94 in (100 mm)	
MCR51-115EXX	4.53 in (115 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCR51-130EXX	5.12 in (130 mm)	
MCR51-150EXX	5.91 in (150 mm)	
MCR51-200EXX	7.87 in (200 mm)	
MCR51-76ESS	2.99 in (76 mm)	
MCR51-100ESS	3.94 in (100 mm)	
MCR51-115ESS	4.53 in (115 mm)	Carbide Button Bit for sand, fills, gravel
MCR51-130ESS	5.12 in (130 mm)	
MCR51-150ESS	5.91 in (150 mm)	
MCR51-130CLAY	5.12 in (130 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCR51-150CLAY	5.91 in (150 mm)	
MCR51-175CLAY	6.89 in (175 mm)	
MCR51-200CLAY	7.87 in (200 mm)	



**Drill Bit Adapter**

Part No.	Length	Weight	Notes
MCR51/T76DBA	2.34 in (1.06 mm)	1.06 lbs (0.48 kg)	R51 to T76



Special orders can be placed for custom bar lengths, sizes, and bit sizes.

**Hollow Bar**

Part No.	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>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)

**Coupler**

Part No.	Outer Diameter	Length	Weight	Notes
MCT40COUPLER	2.13 in (54 mm)	5.51 in (140 mm)	2.49 lbs (1.13 kg)	With sealing ring
MCT40COUPLER-G	2.13 in (54 mm)	5.51 in (140 mm)	2.51 lbs (1.14 kg)	Galvanized with sealing ring



**Spherical Nut**

Part No.	Key Size	Length	Weight	Notes
MCT40SCNUT	2.56 in (65 mm)	1.97 in (50 mm)	2.12 lbs (0.96 kg)	
MCT40SCNUT-G	2.56 in (65 mm)	1.97 in (50 mm)	2.09 lbs (0.95 kg)	Galvanized



**Drill Bit**

Part No.	Bit Diameter	Notes
MCT40-90EXX	3.54 in (90 mm)	
MCT40-100EXX	3.94 in (100 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCT40-115EXX	4.53 in (115 mm)	
MCT40-150EXX	5.91 in (150 mm)	
MCT40-90ESS	3.54 in (90 mm)	
MCT40-100ESS	3.94 in (100 mm)	Carbide Button Bit for sand, fills, gravel
MCT40-115ESS	4.53 in (115 mm)	
MCT40-100CLAY	3.94 in (100 mm)	
MCT40-130CLAY	5.12 in (130 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCT40-150CLAY	5.91 in (150 mm)	



**Drill Bit Adapter**

Part No.	Length	Weight	Notes
MCT40/R51DBA	2.68 in (68 mm)	0.75 lbs (0.34 kg)	T40 to R51
MCT40/T52DBA	2.68 in (68 mm)	0.66 lbs (0.30 kg)	T40 to T52



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Hollow Bar

Part No.	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>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)

Coupler

Part No.	Outer Diameter	Length	Weight	Notes
MCT52COUPLER	2.76 in (70 mm)	6.30 in (160 mm)	5.20 lbs (2.36 kg)	With sealing ring
MCT52COUPLER-G	2.76 in (70 mm)	6.30 in (160 mm)	5.31 lbs (2.41 kg)	Galvanized with sealing ring



Spherical Nut

Part No.	Key Size	Length	Weight	Notes
MCT52SCNUT	3.15 in (80 mm)	2.76 in (70 mm)	5.07 lbs (2.30 kg)	
MCT52SCNUT-G	3.15 in (80 mm)	2.76 in (70 mm)	5.07 lbs (2.30 kg)	Galvanized



Drill Bit

Part No.	Bit Diameter	Notes
MCT52-115EXX	4.53 in (115 mm)	
MCT52-130EXX	5.12 in (130 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCT52-150EXX	5.91 in (150 mm)	
MCT52-200EXX	7.87 in (200 mm)	
MCT52-115ESS	4.53 in (115 mm)	Carbide Button Bit for sand, fills, gravel
MCT52-130ESS	5.12 in (130 mm)	
MCT52-130CLAY	5.12 in (130 mm)	
MCT52-150CLAY	5.91 in (150 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCT52-175CLAY	6.89 in (175 mm)	
MCT52-200CLAY	7.87 in (200 mm)	



Drill Bit Adapter

Part No.	Length	Weight	Notes
MCT52/T76DBA	2.56 in (65 mm)	2.36 lbs (1.07 kg)	T52 to T76



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### Hollow Bar

Part No.	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>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)

### Coupler

Part No.	Outer Diameter	Length	Weight	Notes
MCT76COUPLER	3.74 in (95 mm)	8.66 in (220 mm)	10.58 lbs (4.80 kg)	With sealing ring
MCT76COUPLER-G	3.74 in (95 mm)	8.66 in (220 mm)	10.58 lbs (4.80 kg)	Galvanized with sealing ring



### Hex Nut

Part No.	Key Size	Length	Weight	Notes
MCT76HEXNUT	3.94 in (100 mm)	3.15 in (80 mm)	5.89 lbs (2.67 kg)	
MCT76HEXNUT-G	3.94 in (100 mm)	3.15 in (80 mm)	6.08 lbs (2.76 kg)	Galvanized



### Drill Bit

Part No.	Bit Diameter	Notes
MCT76-130EXX	5.12 in (130 mm)	
MCT76-150EXX	5.91 in (150 mm)	Carbide Cross Cut Bit for softer sedimentary rocks such as marls, mudstones, siltstone
MCT76-175EXX	6.89 in (175 mm)	
MCT76-200EXX	7.87 in (200 mm)	
MCT76-130ESS	5.12 in (130 mm)	
MCT76-150ESS	5.91 in (150 mm)	Carbide Button Bit for sand, fills, gravel
MCT76-175ESS	6.89 in (175 mm)	
MCT76-200ESS	7.87 in (200 mm)	
MCT76-150CLAY	5.91 in (150 mm)	
MCT76-175CLAY	6.89 in (175 mm)	Clay Bit for clay, soft soil, marls, loose sand, or gravel
MCT76-200CLAY	7.87 in (200 mm)	



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**Additional Accessories**

Accessory	Notes
Sleeved Pipe	Available in PVC and HDPE for all bar sizes. Used to create a bond break in the active zone of the pile.
Centralizer	Available in PVC and used to center the bar assembly in the drill hole.
Bearing Plate	Customized for each application.
Bevel Washer	Assists with terminating angled tiebacks.



Note: Slurry additives for drilling fluids as well as other consumable supplies are available.

**Special orders can be placed for custom bar lengths, sizes, and bit sizes.**