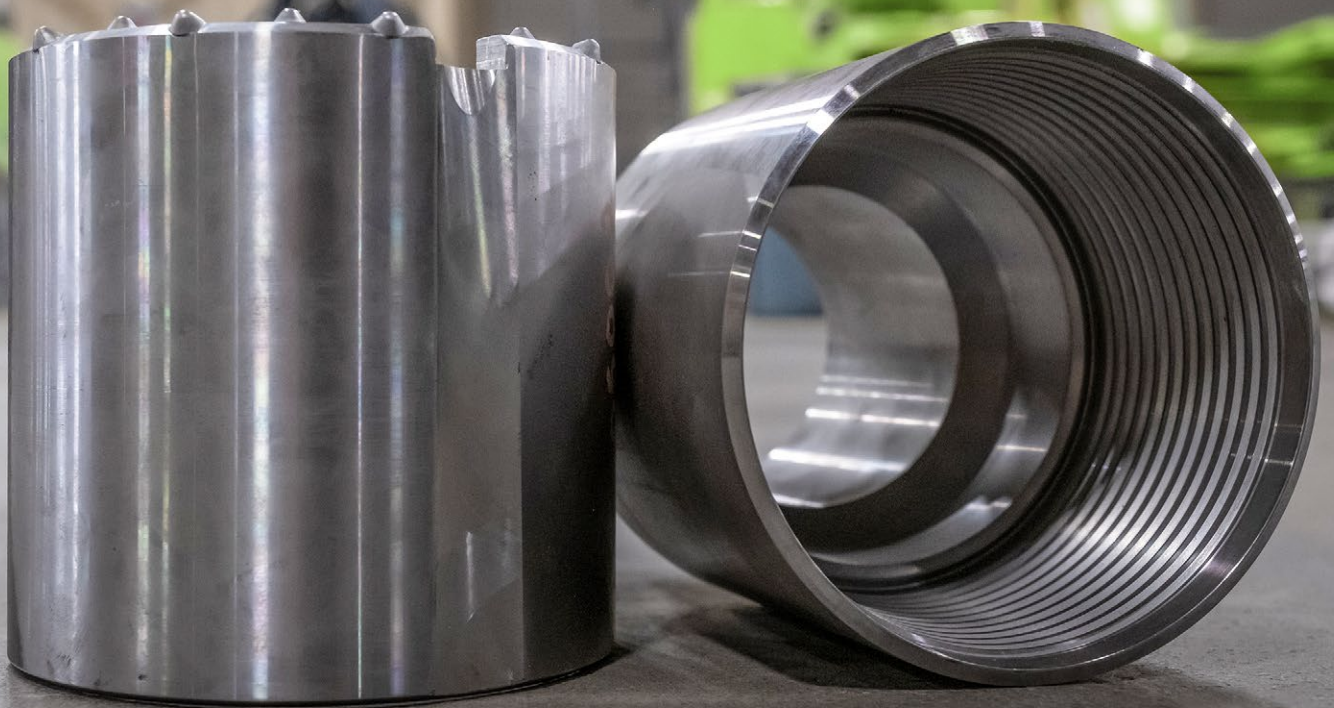


TERRA SONIC TOOLING

SONIC DOWN HOLE TOOLING
& ACCESSORIES CATALOG





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Welcome to Terra Sonic Tooling. Terra Sonic Tooling is the highest quality Sonic Tooling in the world, created by Sonic Drillers for Sonic Drillers. More than 20 years of design modeling and empirical testing have resulted in proven designs that transfer resonant Sonic Energy to the bit with unsurpassed efficiency and reliability.

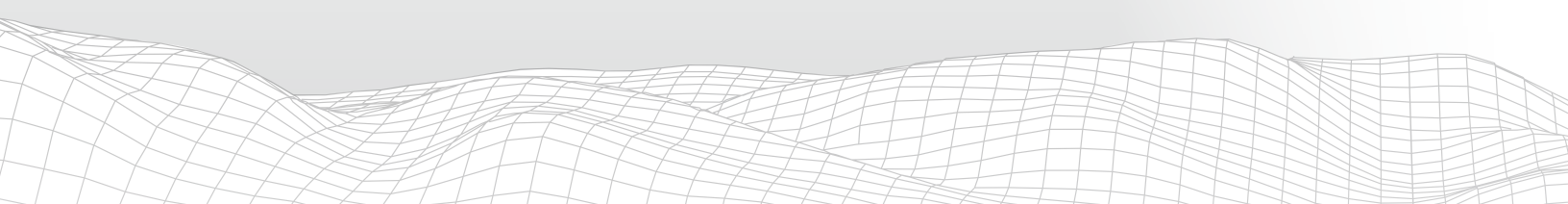
All Terra Sonic Tooling is precision-crafted in the USA at our state-of-art manufacturing center in Marietta, Ohio where intensive quality control is constantly monitored by professionals with more than 400 years of collective experience. The highest quality steel

is heat treated, machined and fabricated for greater productivity and longer life. Terra Sonic Tooling is available for any Sonic Rigs.

From adapters, spindles, casings and rods, to an extensive selection of bits and other specialized tools, including custom orders. TSi is your ultimate Sonic Drilling Solution.

When you choose Terra Sonic Tooling, you're choosing precision-crafted tooling systems backed by unparalleled field testing experience and a passionate commitment to innovation, service, and support.

To purchase Terra Sonic Tooling or for more information about any of the items in this catalog please call the Terra Sonic International Sales Department at **740.374.6608** or email sales@terrasonicinternational.com.



Drill Rods

3.5" Rods - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-01007	Rod, Ace, 3.5" O.D., 1' Long, 0.5" Wall, RH	15.8 (7.2)	12 (304.8)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01012	Rod, 3.5" O.D., Deuce, 2.5' Length, 0.5" Wall, RH	39.8 (18.1)	30 (756)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01006	Rod, 3.5" O.D., 5' Long, 0.25" Wall, RH	57.5 (26.1)	60 (1524)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01005	Rod, 3.5" O.D., 10' Long, 0.25" Wall, RH	101 (45.8)	120 (3048)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01029	Rod, 3.5" O.D., 10' Long, 0.25" Wall, RH, 0.75" Water Hole	101 (45.8)	120 (3048)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01011	Rod, 3.5" O.D., 1.5M Long, 0.25" Wall, RH	57 (25.9)	59.1 (1500)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)
100-01010	Rod, 3.5" O.D., 3M Long, 0.25" Wall, RH	99.7 (45.2)	118.11 (3000)	3.5 (88.9)	2.5 (63.5)	0.5 (12.7)

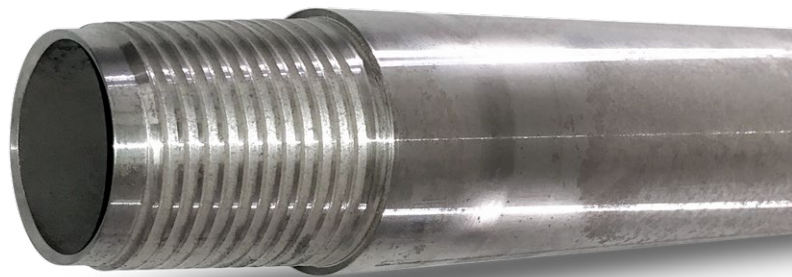
4.25" Rods - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-01027	Rod, Ace, 4.25" O.D., 1' Long, 0.5" Wall, RH	24.5 (11.1)	12 (304.8)	4.25 (107.95)	3 (76.2)	0.625 (15.87)
100-01023	Rod, 4.25" O.D., 5' Long, 0.25" Wall, RH	75.2 (34.1)	60 (1524)	4.25 (107.95)	3 (76.2)	0.625 (15.87)
100-01022	Rod, 4.25" O.D., 10' Long, 0.25" Wall, RH	128.6 (58.3)	120 (3048)	4.25 (107.95)	3 (76.2)	0.625 (15.87)
100-01025	Rod, 4.25" O.D., 1.5M Long, 0.25" Wall, RH	74.4 (33.8)	596 (1500)	4.25 (107.95)	3 (76.2)	0.625 (15.87)
100-01024	Rod, 4.25" O.D., 3M Long, 0.25" Wall, RH	126.9 (57.6)	118.11 (3000)	4.25 (107.95)	3 (76.2)	0.625 (15.87)

* Length measurement does not include thread length.



100-1007



100-01012



100-03041

100-03055

Core Barrels

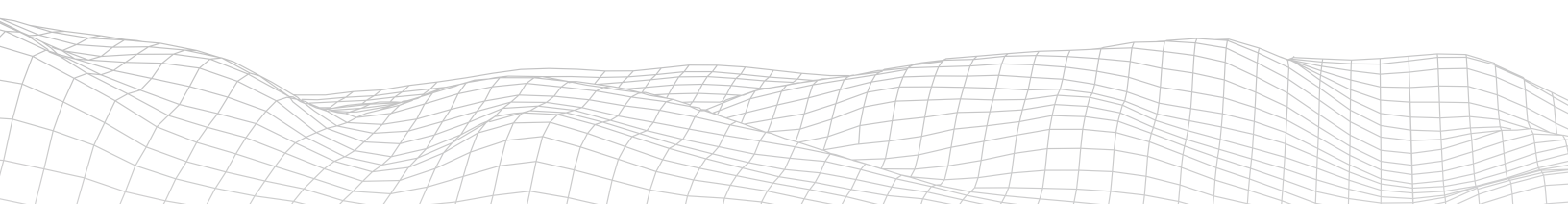
3.75" Core Barrels - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03030	Core Barrel, 3.75" O.D., 5.5' Long, 0.25" Wall, RH	65 (29.5)	66 (1676.4)	3.82 (97.03)	3.22 (81.79)	0.3 (7.62)
100-03029	Core Barrel, 3.75" O.D., 10.5' Long, 0.25" Wall, RH	109.5 (49.7)	126 (3200.4)	3.82 (97.03)	3.22 (81.79)	0.3 (7.62)

4.5" Sample Tube Core Barrel and Components - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03041	Core Barrel, Sample Tube, Assembly, 4.5" <i>Consists of 100-03054 and 100-03055</i>	78 (35.4)	66 (1676.4)	4.825 (122.55)	4.1 (104.14)	0.32 (8.13)
100-03054	Core Barrel, Sample Tube, 4.5"	-	66 (1676.4)	4.825 (122.55)	4.1 (104.14)	0.32 (8.13)
100-03055	Valve, Vent, Sample Tube, Assembly, 4.5" <i>For 0.125" Wall (03-02004) Includes Two (2) 09-00054</i>	-	-	-	-	-
09-00054	O-Ring, -417, ¼" CS x 3-½" x 4", Buna-N, for Sample Tube Vent Valve <i>(Note: Two (2) Required for 100-03055 and Two (2) Recommended for Spare)</i>	-	-	-	-	-
03-02004	Sample Tube, Polycarbonate, Clear, 0.125" Wall	-	66 (1676.4)	4 (101.6)	3.875 (98.42)	-
03-02003	End Cap, Polyethylene, For 4" O.D. Sample Tubes	-	-	-	4 (101.6)	-
100-06090	Bit, Core Barrel, Sample Tube, 4.5" Female, Carbide Tips	-	-	-	-	-
100-06092	Bit, Core Barrel, Sample Tube and Basket, 4.5" Female, Carbide Tips	-	-	-	-	-

* Length measurement does not include thread length.



4.75" Double Wall Core Barrel and Components - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03051	Core Barrel, Double Wall, Assembly <i>Consists of 100-03052, 100-03057, 100-04041, 09-00068 and 100-06100</i>	–	66 (1676.4)	4.75 (120.65)	4.1 (111.38)	0.32 (8.13)
100-03052	Core Barrel, Double Wall, 4.75"	–	66 (1676.4)	4.75 (120.65)	4.1 (111.38)	0.32 (8.13)
100-03057	Valve, Vent, Double Wall, Assembly, 4.75"	–	–	4.75 (120.65)	4.1 (111.38)	0.32 (8.13)
100-04041	Adapter, Core Barrel, Double Wall	–	–	–	–	–
09-00068	O-ring, -242, 1/8" CS x 4" x 4-1/4" Buna-N 70D, for 100-06100 <i>(Note: One (1) Required for 100-06100 and One (1) Recommended for Spare)</i>	–	–	–	–	–
100-06100	Bit, Core Barrel, Double Wall, 4.75" Female, Carbide Tips	–	–	–	–	–

4.75" Core Barrels - RH thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03006	Core Barrel, 4.75" O.D., 5.5' Long	71 (32.2)	66 (1676.4)	4.825 (122.55)	4.18 (106.17)	0.32 (8.13)
100-03005	Core Barrel, 4.75" O.D., 10.5' Long	130.9 (59.4)	126 (3200.4)	4.825 (122.55)	4.18 (106.17)	0.32 (8.13)

6" Core Barrels - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03008	Core Barrel, 6" O.D., 5.5' Long	83.3 (37.8)	66 (1676.4)	6 (152.4)	5.4 (137.16)	0.3 (7.62)
100-03007	Core Barrel, 6" O.D., 10.5' Long	160.1 (72.61)	126 (3200.4)	6 (152.4)	5.4 (137.16)	0.3 (7.62)

7" Core Barrels - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03018	Core Barrel, 7" O.D., 5.5' Long	108 (49)	66 (1676.4)	7.05 (179.07)	6.42 (163.07)	0.32 (8.13)
100-03017	Core Barrel, 7" O.D., 10.5' Long	198 (89.8)	126 (3200.4)	7.05 (179.07)	6.42 (163.07)	0.32 (8.13)

8" Core Barrels - RH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-03024	Core Barrel, 8" O.D., 5.5' Long	126 (57.2)	66 (1676.4)	8 (203.2)	–	–
100-03023	Core Barrel, 8" O.D., 10.5' Long	229 (103.9)	126 (3200.4)	8 (203.2)	–	–

* Length measurement does not include thread length.

Casing

4.75" Casing - LH thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02028	Casing, Deuce, 4.75" O.D., 2' Long	51.5 (23.4)	30 (762)	4.83 (122.68)	3.94 (100.076)	0.44 (11.176)
100-02027	Casing, 4.75" O.D., 5' Long	74 (33.6)	60 (1524)	4.83 (122.68)	3.94 (100.076)	0.44 (11.176)
100-02026	Casing, 4.75" O.D., 10' Long	134 (60.8)	120 (3048)	4.83 (122.68)	3.94 (100.076)	0.44 (11.176)
100-02032	Casing, 4.75" O.D., 1.5M Long	73 (33.1)	59.1 (1500.1)	4.83 (122.68)	3.94 (100.076)	0.44 (11.176)
100-02031	Casing, 4.75" O.D., 3M Long	132 (59.9)	118.1 (3000)	4.83 (122.68)	3.94 (100.076)	0.44 (11.176)

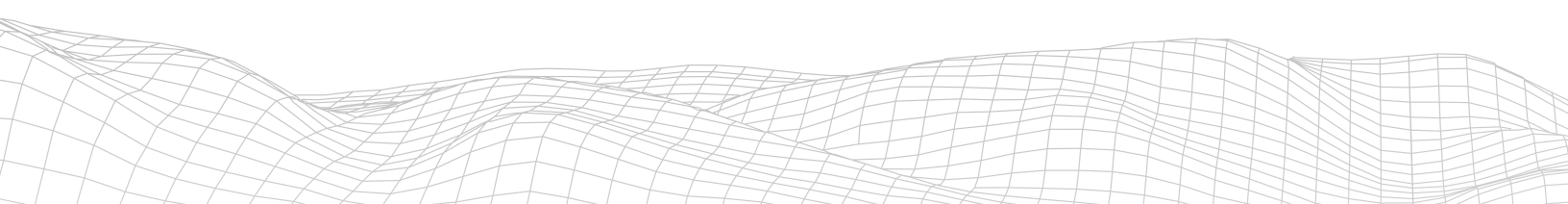
6" Casing - LH Thread

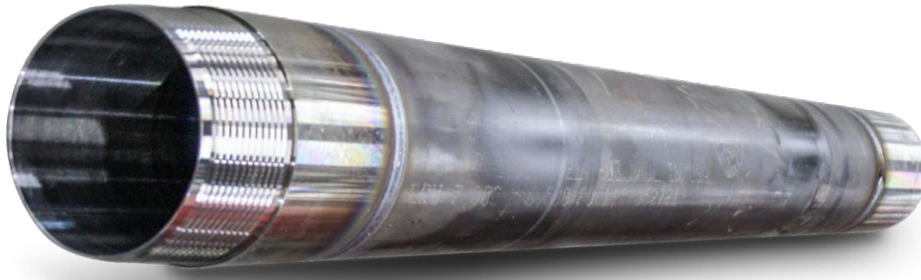
Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02019	Casing, Deuce, 6" O.D., 2.5' Long	75.4 (34.2)	30 (762)	6 (152.4)	5 (127)	0.5 (12.7)
100-02006	Casing, 6" O.D., 5' Long	100.9 (45.8)	60 (1524)	6 (152.4)	5 (127)	0.5 (12.7)
100-02005	Casing, 6" O.D., 10' Long	177.6 (80.6)	120 (3048)	6 (152.4)	5 (127)	0.5 (12.7)
100-02037	Casing, 6" O.D., 1.5M Long	99.8 (45.3)	59.1 (1500.1)	6 (152.4)	5 (127)	0.5 (12.7)
100-02036	Casing, 6" O.D., 3M Long	175.3 (79.5)	118.1 (3000)	6 (152.4)	5 (127)	0.5 (12.7)

* Length measurement does not include thread length.



100-02005





100-02011

7" Casing - LH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02103	Casing Retainer, 7"	–	–	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)
100-02020	Casing, Deuce, 7" O.D., 2' Long	57 (25.9)	24 (609.6)	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)
100-02012	Casing, 7" O.D., 5' Long	111 (50.4)	60 (1524)	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)
100-02011	Casing, 7" O.D., 10' Long	201 (91.2)	120 (3048)	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)
100-02042	Casing, 7" O.D., 1.5M Long	110 (49.9)	59.1 (1500.1)	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)
100-02041	Casing, 7" O.D., 3M Long	198 (89.8)	118.1 (3000)	7.05 (179.07)	6.22 (157.99)	0.42 (10.62)

8" Casing - LH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02104	Casing Retainer, 8"	–	–	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)
100-02049	Casing, Deuce, 8" O.D., 2' Long	66 (29.9)	24 (609.6)	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)
100-02018	Casing, 8" O.D., 5' Long	128 (58.1)	60 (1524)	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)
100-02017	Casing, 8" O.D., 10' Long	232 (105.2)	120 (3048)	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)
100-02047	Casing, 8" O.D., 1.5M Long	126 (57.2)	59.1 (1500.1)	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)
100-02046	Casing, 8" O.D., 3M Long	228 (103.4)	118.1 (3000)	8.1 (205.74)	7.27 (184.66)	0.42 (10.67)

9.25" Casing - LH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02062	Casing, Deuce, 9.25" O.D., 2' Long	79.5 (36.1)	24 (609.6)	9.25 (234.95)	8.4 (213.36)	0.42 (10.67)
100-02056	Casing, 9.25" O.D., 5' Long	151.5 (68.7)	60 (1524)	9.25 (234.95)	8.4 (213.36)	0.42 (10.67)
100-02055	Casing, 9.25" O.D., 10' Long	271.5 (123.2)	120 (3048)	9.25 (234.95)	8.4 (213.36)	0.42 (10.67)
100-02060	Casing, 9.25" O.D., 1.5M Long	149.5 (67.8)	59.1 (1500.1)	9.25 (234.95)	8.4 (213.36)	0.42 (10.67)
100-02059	Casing, 9.25" O.D., 3M Long	268 (121.6)	118.1 (3000)	9.25 (234.95)	8.4 (213.36)	0.42 (10.67)

* Length measurement does not include thread length.

10.5" Casing - LH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02075	Casing, Deuce, 10.5" O.D., 2' Long	91 (41.3)	24 (609.6)	10.5 (266.7)	9.65 (245.11)	0.42 (10.67)
100-02069	Casing, 10.5" O.D., 5' Long	173 (80.7)	60 (1524)	10.5 (266.7)	9.65 (245.11)	0.42 (10.67)
100-02068	Casing, 10.5" O.D., 10' Long	310 (140.6)	120 (3048)	10.5 (266.7)	9.65 (245.11)	0.42 (10.67)
100-02073	Casing, 10.5" O.D., 1.5M Long	171 (77.6)	59.1 (1500.1)	10.5 (266.7)	9.65 (245.11)	0.42 (10.67)
100-02072	Casing, 10.5" O.D., 3M Long	306 (138.8)	118.1 (3000)	10.5 (266.7)	9.65 (245.11)	0.42 (10.67)

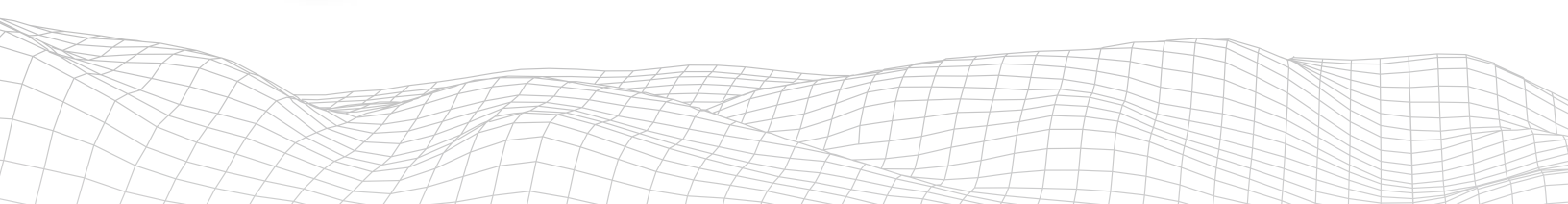
12" Casing - LH Thread

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)	End Wall Thickness in. (MM)
100-02088	Casing, Deuce, 12" O.D., 2' Long	130 (59)	24 (609.6)	12 (304.8)	10.88 (276.35)	0.56 (14.22)
100-02082	Casing, 12" O.D., 5' Long	224 (101.6)	60 (1524)	12 (304.8)	10.88 (276.35)	0.56 (14.22)
100-02081	Casing, 12" O.D., 10' Long	381 (172.8)	120 (3048)	12 (304.8)	10.88 (276.35)	0.56 (14.22)
100-02086	Casing, 12" O.D., 1.5M Long	222 (100.7)	59.1 (1500.1)	12 (304.8)	10.88 (276.35)	0.56 (14.22)
100-02085	Casing, 12" O.D., 3M Long	376 (170.6)	118.1 (3000)	12 (304.8)	10.88 (276.35)	0.56 (14.22)

* Length measurement does not include thread length.



100-02081



Adapters

Core Barrel Adapters

Part No.	Description	Male Connection	Weight lbs. (KG)	Length* in. (MM)
100-04020	Adapter, Core Barrel, 3.5"	3.75"	10.2 (4.6)	6 (152.4)
100-04041	Adapter, Core Barrel, 3.5", Double Wall	4.75"	—	—
100-04001	Adapter, Core Barrel, 3.5"	4.75"	14.5 (6.6)	6 (152.4)
100-04003	Adapter, Core Barrel, 3.5"	6"	17.5 (7.9)	6.5 (165.1)
100-04005	Adapter, Core Barrel, 3.5"	7"	24 (10.9)	7 (177.8)
100-04006	Adapter, Core Barrel, 3.5"	8"	32.8 (14.9)	7.5 (190.5)
100-04031	Adapter, Core Barrel, 4.25"	4.75"	16.7 (7.6)	6 (152.4)
100-04029	Adapter, Core Barrel, 4.25"	8"	32.3 (14.7)	7.5 (190.5)



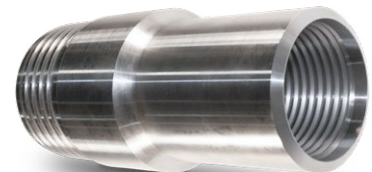
100-04020



100-04003

TSi Rod Box Adapters

Part No.	Description	Male Connection	Weight lbs. (KG)	Length* in. (MM)
100-04034	Adapter, 3.5" TSi Rod Box	NWJ	—	—
100-04048	Adapter, 3.5" TSi Rod Box x 2-3/8" API Regular Box	N/A	—	—
100-04016	Adapter, 3.5" TSi Rod Box	4.5" HWT	11.2 (5.1)	—
100-04028	Adapter, 3.5" TSi Rod Box	4.25" TSi	16.2 (7.4)	6 (152.4)
100-04032	Adapter, 4.25" TSi Rod Box	3.5" TSi	—	—



100-04016

Casing Adapters

Part No.	Description	Male Connection	Weight lbs. (KG)	Length* in. (MM)
100-04008	Adapter, Casing, 6"	4.75"	17.9 (5.4)	6 (152.4)
100-04002	Adapter, Casing, 6"	7"	23.3 (10.6)	6.5 (165.1)
100-04009	Adapter, Casing, 6"	8"	29.9 (13.6)	6.5 (165.1)
100-04010	Adapter, Casing, 6"	9.25"	39.5 (17.9)	7.5 (190.5)
100-04011	Adapter, Casing, 6"	10.5"	44.6 (20.2)	7.5 (190.5)
100-04012	Adapter, Casing, 6"	12"	54.8 (24.9)	7.5 (190.5)
100-04019	Adapter, Casing, 10.5"	12"	—	—



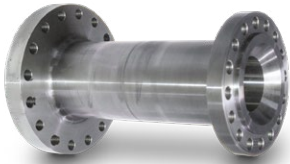
100-04002



100-04011

* Length measurement does not include thread length.

Spindle Adapters



100-04004



100-04040



100-08001

Sonic Head Flange Adapters

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)
100-04004	Adapter, TSi 150 Head Flange to TSi Spindle Flange	44.5 (20.2)	12 (304.8)
100-04037	Adapter, CRS Water Swivel to TSi Spindle Flange	9.2 (4.2)	-
100-04040	Adapter, Sonikor 50K Head Flange to TSi Spindle Flange	56.4 (25.6)	17 (431.8)
100-08004	Adapter, CRS Head Flange to TSi 4.25" Male, RH, 6.5" Long	21.8 (9.9)	6.5 (165.1)

Two-Stage Spindles

Part No.	Description	Weight lbs. (KG)
100-08001	Spindle, TSi, 6" Male, LH, 3.5" Male, Rh	27.4 (12.4)
100-08005	Spindle, 6" Male, LH, 4.25" Male, Rh	27.3 (12.4)
04-18912	Screw, Cap, Socket HD, ½"-20 x 1-½", GR8, ZP <i>16 Needed with 100-08001 or 100-08005</i>	-
05-33626	Washer, Lock, ½" Helical Spring <i>16 Needed with 100-08001 or 100-08005</i>	-
09-00029	O-Ring, -047, 70D, EPR <i>One (1) Needed with 100-08001 or 100-08005</i>	-
100-08051	Spindle, Geoprobe, GV4 to TSi, 6" Male, LH, 3.5" Male, RH	-
100-08050	Spindle, Geoprobe, GV5 to TSi, 6" Male, LH, 3.5" Male, RH	-



100-01013



100-04015

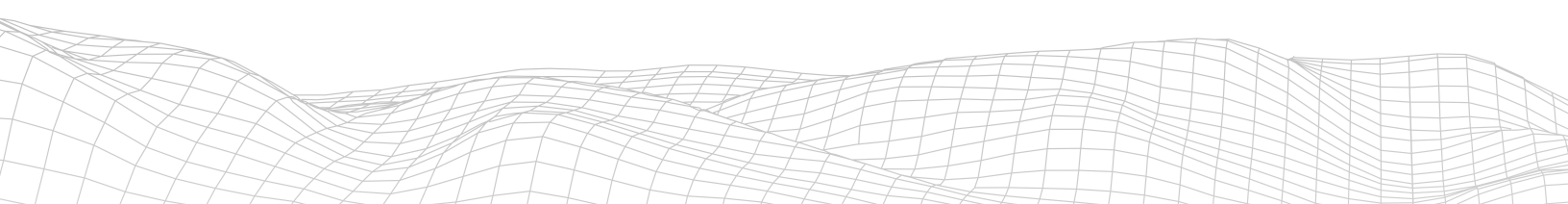


100-04024

Sub Savers (Box to Pin)

Part No.	Description	Weight lbs. (KG)	Length* in. (MM)	Outside Diameter in. (MM)	Inside Diameter in. (MM)
100-01013	Sub-Saver, Rod, 3.5" O.D., 6" Long	7.8 (3.5)	6 (152.4)	3.5 (88.9)	2.5 (63.5)
100-04015	Sub-Saver, Pig Launcher, 3.75" O.D., Core Barrel, 6" Long	5.4 (2.5)	6 (152.4)	3.75 (95.25)	2.75 (69.85)
100-04024	Sub-Saver, Rod, 4.25" O.D., 6" Long	12 (5.4)	6 (152.4)	4.25 (107.95)	3 (76.2)
100-02091	Sub-Saver, Casing, 6" O.D., 6" Long	14.6 (6.6)	6 (152.4)	6 (152.4)	5 (127)
100-02102	Sub-Saver, Casing, 7" O.D., 6" Long	-	-	-	-
100-10098	Sub-Saver, Casing, 8" O.D., 6" Long	-	-	-	-

* Length measurement does not include thread length.



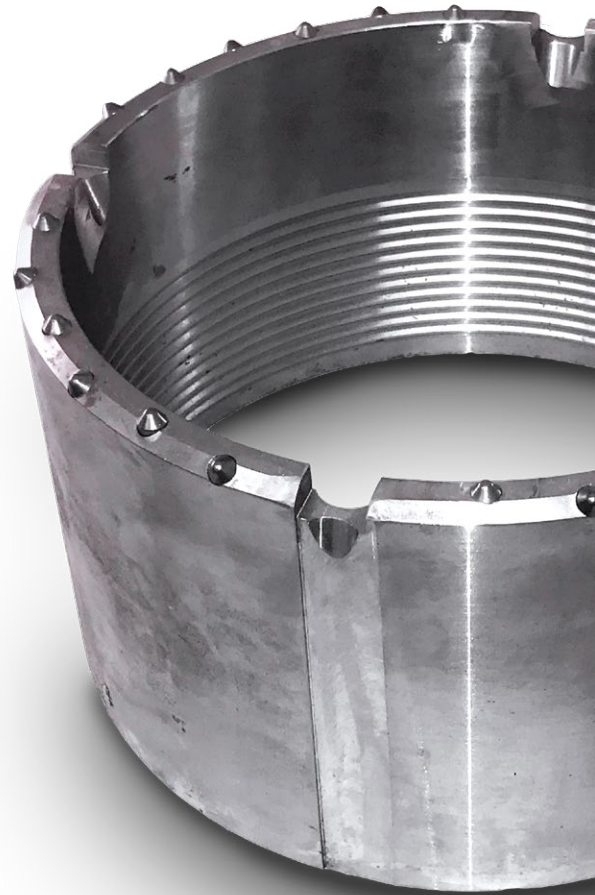
Casing Shoes

Standard Casing Shoes (with Carbide Tips)

Part No.	Description	Weight lbs. (KG)
100-05008	Shoe, Casing, 4.75" Female, LH	7.2 (3.3)
100-05002	Shoe, Casing, 6" Female, LH	12 (5.4)
100-05004	Shoe, Casing, 7" Female, LH	12.4 (5.6)
100-05006	Shoe, Casing, 8" Female, LH	14 (6.4)
100-05010	Shoe, Casing, 9.25" Female, LH	17.3 (7.9)
100-05012	Shoe, Casing, 10.5" Female, LH	20.6 (9.3)
100-05014	Shoe, Casing, 12" Female, LH	30 (13.6)



100-05004



100-05012

Core Barrel Bits



100-06085



100-06023



100-06027

Core Barrel Bits (with Carbide Tips)

Part No.	Description	Weight lbs. (KG)
100-06031	Bit, Core Barrel, 3.75" Female, RH	5 (2.3)
100-06005	Bit, Core Barrel, 3.75" Female, RH, WW	5 (2.3)
100-06090	Bit, Core Barrel, Sample Tube, 4.5" Female, RH	7 (3.2)
100-06100	Bit, Core Barrel, Double Wall, 4.75" Female	-
100-06002	Bit, Core Barrel, 4.75" Female	7 (3.2)
100-06085	Bit, Core Barrel, 4.75" Female, WW	6.7 (3)
100-06013	Bit, Core Barrel, 6" Female	8.7 (4)
100-06097	Bit, Core Barrel, 6" Female, WW	8.3 (3.8)
100-06033	Bit, Core Barrel, 7" Female	10.2 (4.6)
100-06035	Bit, Core Barrel, 8" Female	15.5 (7)

Auger Core Barrel Bits (with Carbide Tips)

Part No.	Description	Weight lbs. (KG)
100-06036	Bit, Auger, 3.75" Female	-
100-06023	Bit, Auger, 4.75" Female	7 (3.2)
100-06020	Bit, Auger, 6" Female	9.2 (4.2)
100-06039	Bit, Auger, 7" Female	-
100-06042	Bit, Auger, 8" Female	16.4 (7.4)

Core Barrel Scraper Bits

Part No.	Description	Weight lbs. (KG)
100-06086	Bit, Core Barrel, Scraper, 4.75"	7.8 (3.5)

All bits add 4" to the length of the core barrels.

Core Catcher Bits

(for use of Core Catcher Baskets to retain loose core samples)

Part No.	Description	Weight lbs. (KG)
100-06092	Bit, Core Barrel, Sample Tube and Basket, 4.5" Female	7 (3.2)
100-06027	Bit, Core Catcher, 4.75" Female HF	5.9 (2.7)
100-06029	Bit, Core Catcher, 6" Female, HF	6.3 (2.9)

Flapper Bit (Hinged Flap retains loose core samples)

Part No.	Description	Weight lbs. (KG)
100-06006	Bit, Flapper, 4.75" Female	8.5 (3.9)
100-06014	Bit, Flapper, 6" Female	12.6 (5.7)
100-06051	Bit, Flapper, 7" Female	15.8 (7.2)
100-06057	Bit, Flapper, 8" Female	20.9 (9.5)



100-06086



100-06014

Fishing Tools



100-07003



100-07012



100-07013



100-07007

Fishing Tools

Part No.	Description	Weight lbs. (KG)
100-07003	Tap, Fishing Tool, Rod, 3.5"	16.3 (7.4)
100-07012	Tap, Fishing Tool, Over-Rod, Over-Shot, 3.5"	32 (14.5)
100-07017	Tap, Fishing Tool, Rod, 4.25"	21 (9.5)
100-07018	Tap, Fishing Tool, Over-Rod, Over-Shot, 4.25"	42 (19)
100-07014	Tap, Fishing Tool, 6" Casing Female x 3.5" Rod Tap	25 (11.3)
100-07010	Tap, Fishing Tool, 3.75" Core Barrel	19.3 (8.8)
100-07002	Tap, Fishing Tool, 4.75" Core Barrel	31.7 (14.4)
100-07015	Tap, Fishing Tool, 6" Core Barrel	61 (27.7)
100-07004	Tap, Fishing Tool, 7" Core Barrel	52 (23.6)
100-07016	Tap, Fishing Tool, 8" Core Barrel	117 (53.1)
100-07013	Tap, Fishing Tool, Casing, 4.75"	24 (10.9)
100-07001	Tap, Fishing Tool, Casing, 6"	43.6 (19.8)
100-07005	Tap, Fishing Tool, Casing, 7"	51.3 (23.3)
100-07006	Tap, Fishing Tool, Casing, 8"	59.6 (27)
100-07007	Tap, Fishing Tool, Casing, 9.25"	71 (32.2)
100-07008	Tap, Fishing Tool, Casing, 10.5"	76 (34.5)
100-07009	Tap, Fishing Tool, Casing, 12"	110 (50)



100-07016



Lifting Tools



100-10003



100-10002



100-10031



24-00014



24-00010

Lifting Bales

(for vertical drill pipe handling with male threads)

Part No.	Description	Weight lbs. (KG)
100-10003	Lifting Bale, 3.5" Rod, Non-Swivel	6.3 (2.9)
100-10070	Lifting Bale, 4.25" Rod, Non-Swivel	9.3 (4.2)
100-10002	Lifting Bale, 6" Casing, Non-Swivel	14.2 (6.4)
100-10001	Lifting Bale, 7" Casing, Non-Swivel	16.2 (7.4)
100-10013	Lifting Bale, 8" Casing, Non-Swivel	-
100-10017	Lifting Bale, 9.25" Casing, Non-Swivel	-
100-10021	Lifting Bale, 10.5" Casing, Non-Swivel	-
100-10025	Lifting Bale, 12" Casing, Non-Swivel	-
100-10031	Lifting Bale, 3.5" Rod, Swivel	-
100-10030	Lifting Bale, 6" Rod, Swivel	-
100-10029	Lifting Bale, 7" Rod, Swivel	-

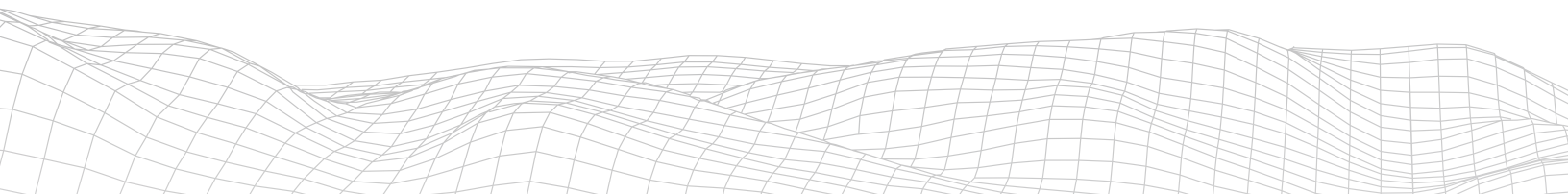
Lifting Cups

(Rods fit into bottom of Lifting Cup when stacking pipe vertically)

Part No.	Description	Weight lbs. (KG)
100-10032	Cup, Lifting, Rod, 3.5"	3.5 (1.6)
100-10071	Cup, Lifting, Rod, 4.25"	-



100-10071



Pipe Tongs

(for horizontal tooling handling)

Part No.	Description	Material	Safe Working Load lbs. (KG)	Weight lbs. (KG)
24-00018	3.5" for 3.5" Pipe	steel	3000 (1361)	–
24-00006	5" for 4.75" Pipe	aluminum	2000 (907)	–
24-00004	6" for 6" Pipe	aluminum	2000 (907)	14.6 (6.6)
24-00005	7" for 7" Pipe	aluminum	2000 (907)	14.6 (6.6)
24-00009	8" for 8" Pipe	steel	5000 (2268)	39 (17.7)
24-00014	9.75" for 9.25" Pipe	aluminum	3000 (1361)	–
24-00010	10.5" for 10.5" Pipe	steel	5000 (2268)	60.6 (27.5)
24-00015	12" for 12" Pipe	aluminum	3000 (1361)	–

Rod Grapples

(Closes tightly on rod when lifted by winch cable)

Part No.	Description	Weight lbs. (KG)
100-10035	Grapple, Assembly, Rod, 3.5" O.D., Includes Cable and Hook	16 (7.3)
100-10072	Grapple, Assembly, Rod, 4.25" O.D., Includes Cable and Hook	16 (7.3)

TUG System

Part No.	Description	Weight lbs. (KG)
180500	Terra Sonic TUG Pipe Handling Grapple Assembly	1750 (793.8)

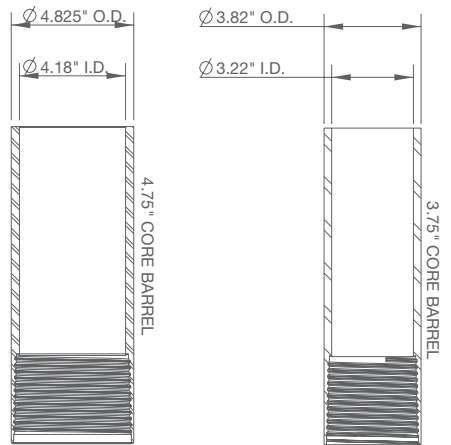
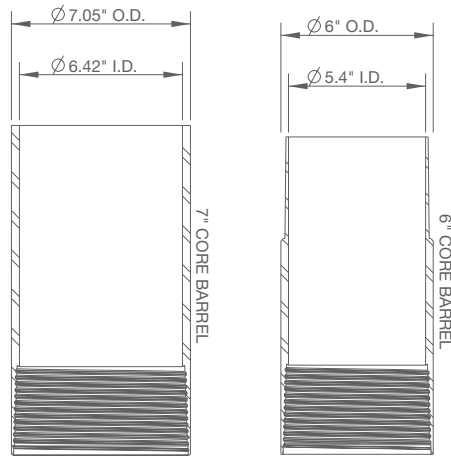
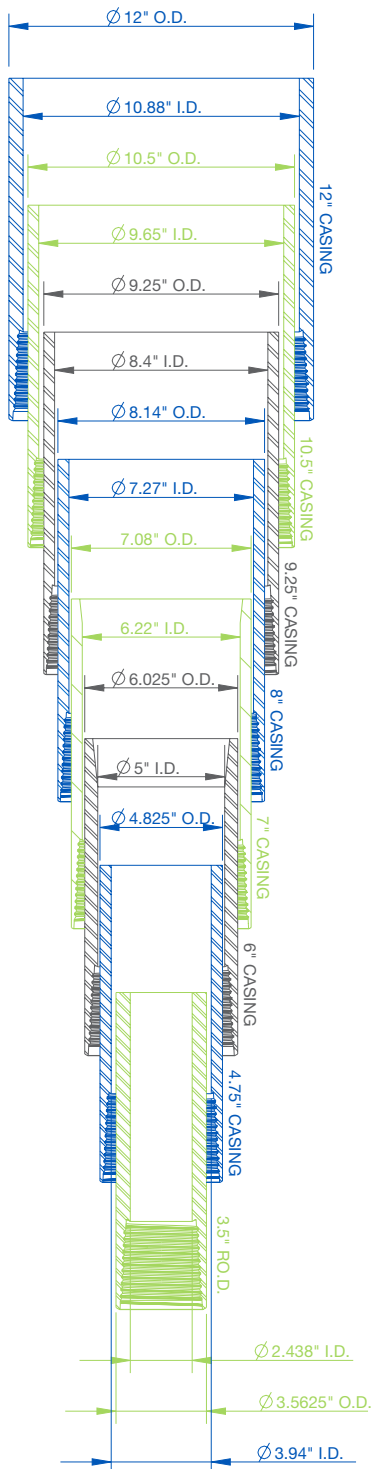


100-10035



180500

Tool Sizing Chart







Support Equipment

Rod and Casing Racks

Part No.	Description
180100	Pipe Rack Assembly, Rod and Casing Divider, 150CC
S1-150-5500	Rod Positioner Rack Assembly
S1-150-5600	Casing Rack Assembly

Grout Mixer Assembly

Part No.	Description
180000-00	Drum, Hydraulic Grout Mixer Assembly

Drill Fluid Containment Tub

Part No.	Description
500000000	Drill Fluid Containment Tub



500000000

Drilling Accessories

Core Catcher Retainer Baskets (plastic)

Part No.	Description	Core Barrel Use
100-06081	Basket, Retainer, Core Catcher, 4.75"	4.75" TSi O.D. Core Barrel

Flat Wipers

Part No.	Description
28-01001	9" O.D. x 3" I.D., for 3.5" Rod
28-01002	12" O.D. x 5.5" I.D., for 6" Casing

Lubricant

Part No.	Description
15-00010	King Stuff, 1 Gallon
15-00009	Jet Lube, 1 Gallon

Lay-Flat Poly Tubing Rolls

Part No.	Description	Core Barrel Use
03-05001	6 Mil x 8" Wide x 1000'	TSi 4.75" O.D. Core Barrel
03-05000	6 Mil x 10" Wide x 1000'	TSi 6" O.D. Core Barrel
03-05002	6 Mil x 12" Wide x 1000'	TSi 7" O.D. Core Barrel
03-05003	6 Mil x 14" Wide x 1000'	TSi 8" O.D. Core Barrel



180000-00



100-06081



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