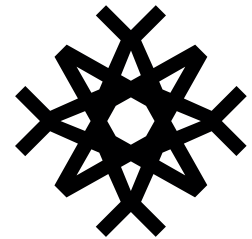
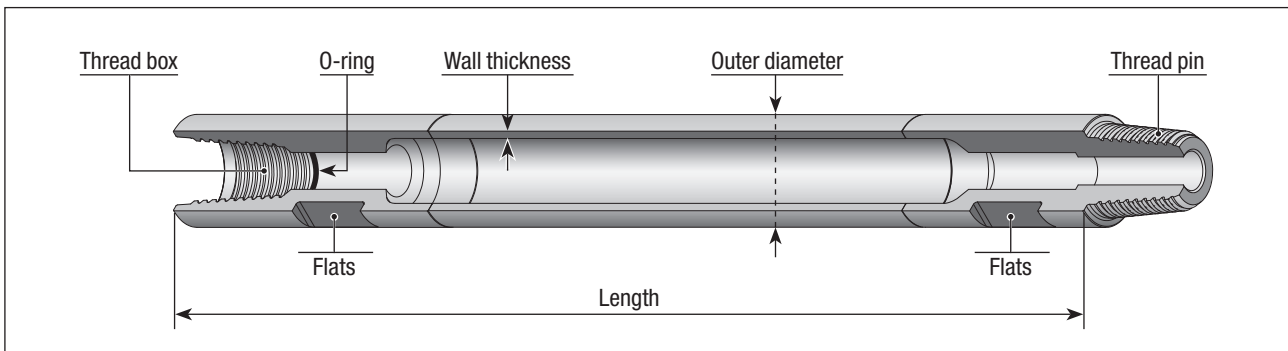
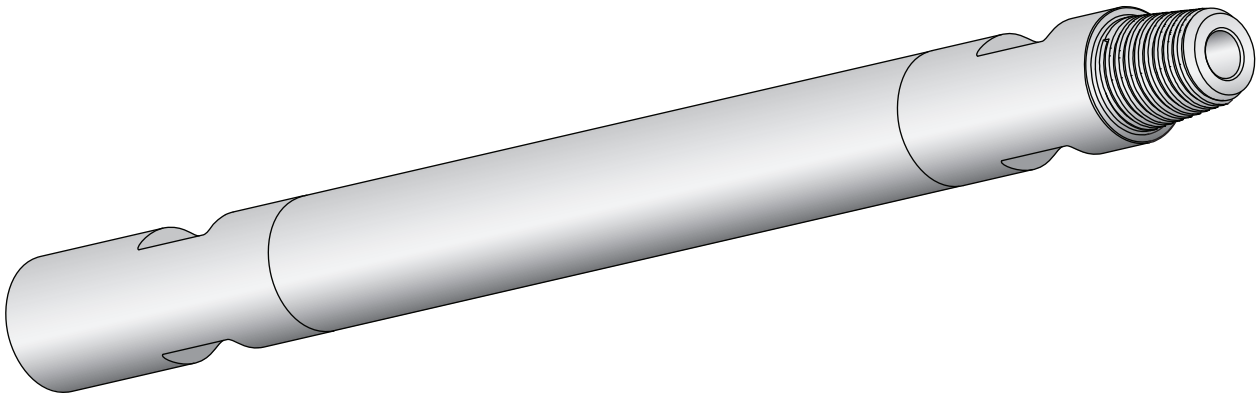


WATER-POWERED DRILLING

TECHNICAL SPECIFICATION: DRILL RODS



Wassara



Drill rods 48 - 140 mm

Friction welded, cold drawn reamless rods. Friction welding achieves a 100% metal to metal joint with parent metal properties. It is a relative low temperature process with the result being a small heat affected zone (HAZ).

Mid body material: API N-80, cold drawn

Drill rods 168 - 194 mm

Automated submerged arc welded, ensures a high quality weld with good mechanical properties.

Mid body material: API J-55, hot rolled

Joints

The tool joints are made out of micro alloyed steel. They are surface hardened (to 58-62 HRC) for extra wear resistance, lasting up to 50% longer than non-heat treated tool joints.

An O-ring is placed in the thread box to seal off any water leakage and to minimize pressure drop.

WASSARA DRILL RODS SELECTION GUIDE

Outer diameter	Hammer	Thread box	Thread pin	Wall thickness	Flats	Length	Weight	Part number
48 mm (1 7/8")	W50	NC13	NC13	6.3 mm	4-way 36x40	1.0 m	11 kg	1500593-1000
						1.5 m	14 kg	1500593-1500
						2.0 m	17 kg	1500593-2000
						3.0 m	21 kg	1500593-3000
63.5 mm (2 1/2")	W70	WT70*	WT70*	6.3 mm	4-way 50x50	1.0 m	13 kg	1500594-1000
						1.5 m	18 kg	1500594-1500
						2.0 m	22 kg	1500594-2000
						3.0 m	31 kg	1500594-3000
76 mm (3")	W80	API 2 3/8" REG	API 2 3/8" REG	6.3 mm	4-way 65x40	1.0 m	17 kg	1500595-1000
						1.5 m	23 kg	1500595-1500
						2.0 m	28 kg	1500595-2000
						3.0 m	39 kg	1500595-3000
89 mm (3 1/2")	W100	API 2 3/8" REG	API 2 3/8" REG	6.3 mm	4-way 65x40	1.0 m	18 kg	1500596-1000
						1.5 m	24 kg	1500596-1500
						2.0 m	30 kg	1500596-2000
						3.0 m	43 kg	1500596-3000
102 mm (4")	W120	API 3 1/2" REG	API 3 1/2" REG	8.8 mm	4-way 80x50	1.0 m	32 kg	1500597-1000
						1.5 m	42 kg	1500597-1500
						2.0 m	53 kg	1500597-2000
						3.0 m	73 kg	1500597-3000

* Standard by LKAB Wassara

Outer diameter	Hammer	Thread box	Thread pin	Wall thickness	Flats	Length	Weight	Part number
114 mm (4 1/2")	W120	API 3 1/2" REG	API 3 1/2" REG	8.8 mm	4-way 95x50	1.0 m	34 kg	1500598-1000
						1.5 m	45 kg	1500598-1500
						2.0 m	56 kg	1500598-2000
						3.0 m	80 kg	1500598-3000
140 mm (5 1/2")	W150	API 3 1/2" REG	API 3 1/2" REG	8.8 mm	4-way 120x50	1.0 m	52 kg	1500599-1000
						1.5 m	60 kg	1500599-1500
						2.0 m	76 kg	1500599-2000
						3.0 m	104 kg	1500599-3000
168 mm (6 5/8")	W200	API 4 1/2" IF	API 4 1/2" IF	12.5 mm	4-way 120x50	1.5 m	114 kg	1500592-1500
						2.0 m	138 kg	1500592-2000
						3.0 m	186 kg	1500592-3000
						6.0 m	329 kg	1500592-6000
194 mm (7 5/8")	W200	API 4 1/2" IF	API 4 1/2" IF	16.0 mm	4-way 160x50	1.5 m	165 kg	1500600-1500
						2.0 m	200 kg	1500600-2000
						3.0 m	270 kg	1500600-3000
						6.0 m	483 kg	1500600-6000