



### Bottomhole assembly:

The AST tool is placed in the BHA above the motor and MWD or steering tools. When placed adjacent to a stabiliser, put the tool below the stabilizer.

### Motor Drilling / Milling:

The AST will absorb high torque loads associated with poor weight transfer and thus eliminate or reduce motor stall-outs. This will also allow the PDM to be run at a higher load, as the margin against stall-out can be reduced. In result, more power is delivered to the bit or mill while the motor is still protected from overload.

The AST tool has a wide operational window and will work with all motors with corresponding body and connection sizes.

### Tool specifications:

Parameter / Tool Size					
O.D. Inches	1-11/16	2-1/8	2-7/8	3-1/2	5
I.D. Inches (mm)	0.62 (16)	0.71 (18)	0.78 (20)	0.98 (25)	1.38 (35)
Length ft (m)	4.9 (1,49)	4.6 (1,40)	4.3 (1,31)	4.4 (1,34)	4.5 (1,37)
Weight lbs (kg)	27 (12)	42 (19)	62 (28)	106 (48)	231 (105)
Tool Joint	1" AMMT	1-1/2" AMMT	2-3/8" PAC	2-7/8" REG	API 3-1/2" IF
Max Opr Torque ft-lbs (Nm)	200 (275)	400 (550)	1000 (1370)	1315 (1800)	10 000 (13 700)
Ultimate Tensile lbs (kN)	49 000 (223)	54 400 (247)	124 000 (563)	207 900 (945)	474 000 (2151)
Max Dog Leg Deg/100 ft (30m)	24	24	24	24	24
Max Temp F (C)	390 (200)	390 (200)	390 (200)	390 (200)	390 (200)
Sour Service	Yes	Yes	Yes	Yes	Yes
Air/Foam	Yes	Yes	Yes	Yes	Yes