



Patented: US7654344, US7578360, CA2534901, NO322144, GB2435386, NO315209, NO325253, NO324265



Bottomhole assembly:

The AST tool is placed in the BHA over the FE/MWD and steering tools. Do not place the AST in a string transition i.e. between collars and HWDP. Avoid having the tool placed between stiffer BHA components. When placed adjacent to a stabiliser, put the tool under the stabilizer.

Drilling:

The X series is designed with a working range covering all conventional operations. No particular steps are to be taken to drill with the AST. A User Manual is provided with every deployment containing a job specific response chart and applicable caution points.

Tool specifications:

Parameter	Metric	Imperial
Length	3.68m	12.07'
Stroke	0.25m	10"
Max. OD	121mm	4.75"
Min. ID	35mm	1.38"
Mass	300 kg	660 lbs
Max. WOB operational	15 kdaN	33 klbs
Max. downhole torque	13 kNm	9 kftlbs
Max. RPM	As recommended from bit manufacturer	As recommended from bit manufacturer
Ultimate tensile load	180 kdaN	400 klbs
Operational tensile load	55 kdaN	121 klbs
Max. Diff. Pressure	690 bar	10 000 psi
Max. hydrostatic pressure	2000 bar (balanced)	30 000 psi (balanced)
Max. pumprate	1500 lpm	400 GPM
Max. sand content	1 %	1%
Max. DLS operational	25 deg/30m	25 deg/100ft
Max. temp. operational	200C (XT 220C)	390 F (XT 425F)
Connection top	NC 38 box	NC 38 box
Make up torque	13 300 Nm	9 800 ftlbs
Connection bottom	NC 38 pin	NC 38 pin
Make up torque	13 300 Nm	9 800 ftlbs

Configurations: **XD** = Standard, **XT** = High temp. (220C)

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