



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, including combination with Under-Reamer. 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	3.96m	13,0'
Stroke	0.20m	0.6'
Max. OD	171mm	6.75"
Min. ID	62mm	2.4"
Mass	625 kg	1375 lbs
Max. WOB operational	30 kdaN	66 klbs
Max. downhole torque	41 kNm	30 kftlbs
Max. RPM	As recommended from bit manufacturer	As recommended from bit manufacturer
Ultimate tensile load	327 kdaN	720 klbs
Operational tensile load	170 kdaN	375 klbs
Max. Diff. Pressure	690 bar	10 000 psi
Max. hydrostatic pressure	2000 bar (balanced)	30 000 psi (balanced)
Max. pumprate	3500 lpm	925 GPM
Max. sand content	1 %	1%
Max. DLS operational	20 deg/30m	20 deg/100ft
Max. temp. operational	200C (XT 220C)	390 F (XT 425F)
Connection top	NC 50 box	NC 50 box
Make up torque	40 000 Nm	29 500 ftlbs
Connection bottom	NC 50 pin	NC 50 pin
Make up torque	40 000 Nm	29 500 ftlbs

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

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