



Tommax as

9" H-series AST™

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 H-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	3.25m	10.66'
Stroke	0.18m	7"
Max. OD	229mm (241mm upset)	9" (9.5" upset)
Min. ID	76mm	3"
Mass	950 kg	2 090 lbs
Max. WOB operational	45 kdaN	100 klbs
Max. downhole torque	48 kNm	35 kftlbs
Max. RPM	As recommended from bit manufacturer	As recommended from bit manufacturer
Ultimate tensile load	536 kdaN	1 180 klbs
Operational tensile load	260 kdaN	572 klbs
Max. Diff. Pressure	690 bar	10 000 psi
Max. hydrostatic pressure	2000 bar (balanced)	30 000 psi (balanced)
Max. pumprate	5 650 lpm	1500 GPM
Max. sand content	1 %	1%
Max. DLS operational	14 deg/30m	14 deg/100ft
Max. temp. operational	150C (HT 200C)	300 F (HT 390F)
Connection top	API 6 5/8 REG box	API 6 5/8 REG box
Make up torque	65 000 Nm	48 000 ftlbs
Connection bottom	API 6 5/8 REG box	API 6 5/8 REG pin
Make up torque	65 000 Nm	48 000 ftlbs

Configurations: **HD** = Standard, **HB** = Pressure balanced, **HT** = High temp. (200C)

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