



Mud-Shear Sub

The Mud-Shear Sub is a straightforward mud conditioning solution that requires no topside equipment and is especially effective during milling operations.

With the milling assembly run-in up to the penultimate stand, the system is installed just below the rotary table and the mud is simply pumped through the sub.

The easily configurable device delivers significant cost and time savings during the mud conditioning process, irrespective of flow rate and viscosity. It offers a better alternative to aligning topside conditioning equipment.

For best results, it can be run in conjunction with the DAV MX™ Circsub for multiple mud shearing points and the additional benefit of being able to self-fill, bypass the section mill (protect knives), displace fluid quickly and boost annular velocity post milling.

BENEFITS

- Saves an average of 1 hour for every 1,000 bbls of mud sheared
- Speeds up the mud conditioning process by around 50%
- Simple and quick to install and remove
- Run multiple or run in conjunction with DAV MX™ for enhanced P&A performance.



SPECIFICATIONS

MUD SHEAR SUB GENERAL SPECIFICATION												
Connection	Nozzle Specs		Tool Body Specifications					Tool Strength & M/U Torque				
	Nozzle ID Range (in)	Nozzle TFA Range (sq-in)	Sub OD (in)	Sub Length (in)	Sub Weight (kg)	Pin ID (in)	Temp - Standard (Celsius/Fahrenheit)	Burst Pressure (ksi)	Collapse Pressure (ksi)	Torsional Yield Strength (kft-lbs)	Tensile Yield Strength (k-lbs)	Make-up Torque (kft-lbs)
2 7/8" HTPAC	0.50-1.25	0.19-1.22	3.13	42	30	1.31	300/572	49.9	46.2	8.5	273	5.1
H533 (6.5 lbs/ft)			3.19	42	25	1.88	300/572	30.1	31.7	9.1	200	5.5
2 3/8" HT-SLH90			3.25	36	25	1.75	300/572	39.3	39.1	7.6	162	4.5
NC38 DSTJ			4.75	42	65	2.50	300/572	44.3	42.6	25.9	735	16
NC38			4.88	42	70	2.25	300/572	27.7	29.6	22.9	775	13.7
GPDS38			5.00	42	70	2.50	300/572	46.8	44.3	27.5	679	16.5
XT38			5.00	42	70	2.50	300/572	46.8	44.3	33.5	629	20
VX38			5.00	42	70	2.50	300/572	46.8	44.3	36	650	21.6
HT38			5.00	42	70	2.50	300/572	46.8	44.3	31.3	679	17.8
WT38			5.00	48	85	2.33	300/572	46.8	44.3	40	877	24
XT39			5.00	42	70	2.50	300/572	45.6	43.5	42	760	22
NC40			5.25	42	80	2.50	300/572	29.1	30.9	29.4	897	15.6
NC40 VAM EIS			5.38	42	85	2.56	300/572	49.1	45.7	34.2	776	20.5
XTM40			5.25	42	80	2.50	300/572	46.8	44.2	50	581	30
NC40 DSTJ			5.38	42	85	2.50	300/572	49.1	45.7	40	970	24
NC50 VAM EIS			6.63	42	130	3.25	300/572	45.3	43.3	74.7	1270	45
NC50			6.88	42	150	2.81	300/572	31.3	32.8	60.5	1400	36.3
XT50			6.50	42	115	3.50	300/572	42.5	41.3	88	1256	52.8
5.5" FH			7.25	42	160	3.25	300/572	33.1	35.2	78.7	1778	47.2
TT550			6.63	42	105	4.00	300/572	45.3	43.3	84.8	634	50
5.5" FH DSTJ			7.25	42	155	3.50	300/572	48.0	45.0	73	1600	44
5.5" VAM EIS			7.25	42	155	3.50	300/572	48.0	45.0	100	1620	60
HT55			7.25	42	145	3.88	300/572	28.3	30.2	85.4	1358	51.2
GPDS55			7.25	42	155	3.50	300/572	48.0	45.0	100	1650	60
5 3/4" FH DSTJ			7.50	42	160	3.88	300/572	41.6	41.7	100	1700	60
VX57			7.00	42	120	4.25	300/572	46.3	43.9	94	1400	57
XT57			7.00	42	140	3.50	300/572	30.8	32.8	>100	>1400	65
TT585			7.00	42	120	4.25	300/572	34.3	35.2	>100	729	66
6 5/8" Reg.			8.25	42	230	2.81	300/572	39.3	41.9	88.8	>1700	53.3