ST5 | Shock Tool

The ST5 shock tool can be used in a wide variety of drilling conditions to increase bit life and penetration rate, as well as to isolate the BHA from non-uniform motions of the drill string, while keeping the bit on bottom. The ST5 shock tool spring stack is customizable for any drilling application. Cougar's dual acting shock tools are compatible with all vibratory and oscillating tools.

MAX TEMPERATURE
Standard Seals: 250°F / 121°C
High Temp Seals: 405°F / 207°C
Geo Seals: 405°F + / 207°C +

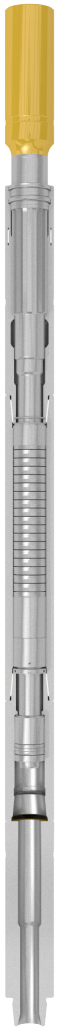
SPECIFICATIONS

Imperial

Tool Model	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in^2)	Stroke (in)	Maximum Torque (ft-lb)
ST5-475	4.750	1.430	12.5	700	11.0	3.000	17,000
ST5-538	5.375	1.430	12.5	700	11.0	3.000	40,000
ST5-612	6.500	2.280	12.0	1,300	18.6	3.000	40,000
ST5-634	6.750	2.250	13.0	1,450	22.1	3.000	40,000
ST5-688	6.878	2.280	13.0	1,450	18.6	3.000	75,000
ST5-800	8.000	2.500	12.0	2,100	30.7	3.125	68,000
ST5-900	9.000	2.810	12.5	2,950	41.3	3.125	93,000
ST5-950	9.500	2.810	14.6	3,150	41.3	3.125	93,000
ST5-1000	10.000	2.810	14.5	3,400	41.3	3.125	94,000
ST5-1200	12.000	3.000	15.8	4,950	15.9	4.000	175,000
ST5-1400	14.000	3.000	15.8	6,000	15.9	4.000	300,000

Metric

Tool Model	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm^2)	Stroke (cm)	Maximum Torque (N-m)
ST5-475	121	36	3.8	317	71.0	7.6	23,000
ST5-538	137	36	3.8	317	71.0	7.6	54,200
ST5-612	165	58	3.7	590	120.0	7.6	54,200
ST5-634	171	57	4.0	658	142.6	7.6	54,200
ST5-688	175	58	4.0	658	120.0	7.6	101,700
ST5-800	203	64	3.7	952	198.1	7.9	92,200
ST5-900	229	71	3.8	1,338	266.5	7.9	126,100
ST5-950	241	71	4.4	1,429	266.5	7.9	126,100
ST5-1000	254	71	4.4	1,542	266.5	7.9	127,400
ST5-1200	305	76	4.8	2,245	102.6	10.1	237,300
ST5-1400	356	76	4.8	2,721	102.6	10.1	406,800



FEATURES AND BENEFITS

- *Standard and PDC spring stack configurations available*
- *Extends bit life*
- *Decreases shock and vibration*
- *Reduces damages to bits and other BHA components*

COUGAR
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