



Weatherford®

Thru-Tubing Intervention

Mechanical Straddle Tool (MST) System

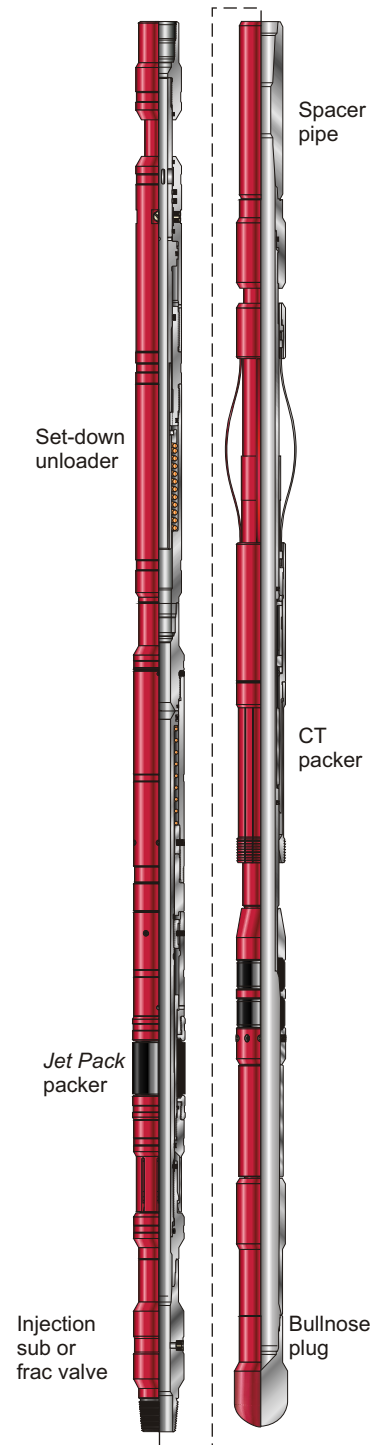
Weatherford's mechanical straddle tool (MST) system is a mechanical, tension-set system that can be used for a variety of monobore selective treatment applications. The system consists of a set-down unloader, a Jet Pack® packer, and the CT packer.

Applications

- Designed for selective acidizing, perforations and screen treating, tubing testing and selective polymer treatments for water shut-off

Features, Advantages and Benefits

- Packer can be set multiple times, moved to different locations between each setting cycle, and then returned to the surface, resulting in cost savings over multiple trips with packer and plug.
- Reciprocating motion and tension set make the packer effective in deviated or horizontal well applications.
- Packer can pass through standard seating nipples for optimized access to producing zones.





Mechanical Straddle Tool (MST) System

Specifications

Jet Pack[®] Packer

Tubing OD (in.)	Tool Body OD (in./mm)	Thread Box Pin	Gauge Ring OD (in./mm)
2-3/8	1.688 42.88	1-in. WTS-8	1.688 42.88
			1.812 46.03
			2.215 56.26
2-7/8	2.215 56.26	1 1/4-in. WTS-8	2.250 57.15
			2.310 58.67
			2.325 66.68
3-1/2	2.625 66.68	1 1/2-in. WTS-8	2.750 69.85
			2.810 71.37
			3.500 88.90
4-1/2	3.500 88.90	2 3/8-in. WTS-8	3.630 92.20
5-1/2	4.500 114.30	2 3/8-in. WTS-8	4.500 114.30
			5.630 143.00
			5.810 147.57
7	4.500 114.30	2 3/8-in. WTS-8	4.500 114.30
			5.630 143.00
			5.810 147.57



Mechanical Straddle Tool (MST) System

Specifications

CT Packer

Tubing		Packer							
OD (in.)	Weight (lb/ft)	Tool OD (in./mm)	Tool ID (in./mm)	Cone and Gauge Ring OD Options (in./mm)					
				Std	Alt	Alt	Alt	Alt	Alt
2-3/8	4.7 to 6.2	1.688 42.88	0.682 17.32	1.688 42.88	1.812 46.03	—	—	—	—
2-7/8	6.4 to 7.9	2.150 54.61	1.120 28.45	2.150 54.61	2.215 56.26	2.250 57.15	2.312 58.73	—	—
3-1/2	9.2 to 12.7	2.563 65.10	1.370 34.80	2.563 65.10	2.720 69.09	2.812 71.43	—	—	—
4-1/2	9.5 to 15.1	3.625 92.08	1.930 49.02	3.625 92.08	3.720 94.49	3.812 96.83	—	—	—
5	11.5 to 24.1	3.875 98.43	1.930 49.02	3.875 98.43	4.000 101.60	4.125 104.78	4.250 107.95	—	—
5-1/2	13.0 to 23.0	4.500 114.30	2.356 59.84	4.500 114.30	4.625 117.48	4.750 120.65	5.000 127.00	—	—
6-5/8	17.0 to 24.0	5.500 139.70	2.870 72.90	5.715 145.16	5.938 150.83	—	—	—	—
7	17.0 to 38.0	5.500 139.70	2.870 72.90	5.715 145.16	5.812 147.64	5.938 150.83	6.078 154.38	6.250 158.75	6.375 161.93

Set-Down Unloader

Tool OD (in.)	Tool ID (in./mm)	Tensile Strength (lb/kg)	Standard Thread Connection
1-11/16	0.710 18.03	23,400 10,614	1-in. WTS-8
2-1/8	1.000 25.40	41,200 18,688	1 1/4-in. WTS-8
2-1/2	1.000 25.40	77,300 35,063	1 1/2-in. WTS-8
3-1/2	1.620 41.15	112,000 50,802	2 3/8-in. WTS-8