



MST Mechanical Setting Tool

The MOT **MST Mechanical Setting Tool** is designed to run and mechanically set the MOT PCR Cement Retainer or the MOT Cast Iron Bridge Plug at any depth on tubing or drill pipe.

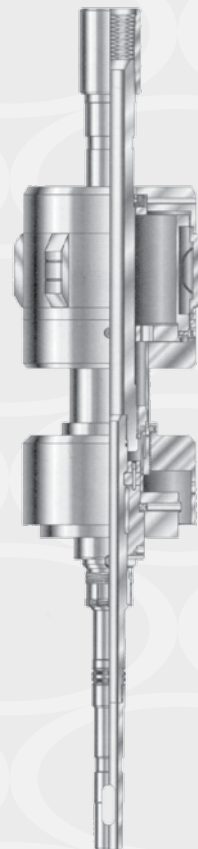
Applications

- ▶ Setting cement retainers or bridge plugs on tubing or drill pipe
- ▶ Squeeze cementing
- ▶ Well abandonment
- ▶ Temporary and permanent zone isolation

Features

- ▶ Allows single run for squeeze cementing

- ▶ Locked to cement retainer or bridge plug to avoid premature setting or loss
- ▶ Top slips partially covered to protect from accidental damage and pre-set
- ▶ Will set other manufactures cement retainer or bridge plug
- ▶ Shear pinned to cement retainer or bridge for safety
- ▶ Allows user to set, pressure test tubing and squeeze in single trip
- ▶ Can quickly be configured to set cement retainers or bridge plugs
- ▶ Drag blocks field proven design for long life



MST Mechanical Setting Tool

Casing		Drag Block		MST Setting Tool	
OD (in./mm)	Weight (lb/ft- kg/m)	Expanded (in./mm)	Collapsed (in./mm)	Minimum ID (in./mm)	Standard Thread Connection
4-1/2 114.30	9.5 - 13.5 14.14 - 20.09	4.283 108.79	3.750 95.25	.75 19.05	2-3/8" EU 8RD
5.000 3.94	18.0 - 21.0 26.78 - 31.25	4.375 111.13	3.815 96.90	.75 19.05	2-3/8" EU 8RD
5 3.94	15.0 - 18.0 22.32 - 26.78	4.490 114.05	4.015 101.98	.75 19.05	2-3/8" EU 8RD
5 3.94	11.5 - 15.0 17.11 - 22.32	4.660 118.36	4.230 107.44	.75 19.05	2-3/8" EU 8RD
5-1/2 139.70	17.0 - 234.0 25.30 - 34.22	5.150 130.81	4.500 114.30	.75 19.05	2-3/8" EU 8RD
5-1/2 139.70	13.0 - 17.0 19.34 - 25.30	5.250 133.35	4.600 116.84	.75 19.05	2-3/8" EU 8RD
6-5/8 168.28	24.0 - 32.0 35.71 - 47.62	6.355 161.42	5.500 139.70	1.250 31.75	2-7/8" EU 8RD
7 177.80	29.0 - 38.0 43.15 - 56.54	6.355 161.42	5.500 139.70	1.250 31.75	2-7/8" EU 8RD
7 177.80	17.0 - 32.0 25.30 - 47.62	6.930 176.02	5.920 150.37	1.250 31.75	2-7/8" EU 8RD
7-5/8 193.68	24.0 - 45.3 35.71 - 67.41	7.325 186.06	6.370 161.80	1.250 31.75	2-7/8" EU 8RD
8-5/8 219.08	28.0 - 52.0 41.66 - 77.38	8.190 208.03	7.235 183.77	1.250 31.75	2-7/8" EU 8RD
9-5/8 244.48	32.0 - 61.0 47.62 - 90.77	9.190 233.43	8.235 209.17	1.250 31.75	2-7/8" EU 8RD
10-3/4 273.05	51.0 - 81.0 75.89 - 120.53	10.065 255.65	9.110 231.39	1.250 31.75	2-7/8" EU 8RD
10-3/4 273.05	32.75 - 60.7 48.73 - 90.32	10.425 264.80	9.470 240.54	1.250 31.75	2-7/8" EU 8RD
11-3/4 298.45	38.0 - 65.0 56.54 - 96.72	11.500 292.10	10.545 267.84	1.250 31.75	2-7/8" EU 8RD
13-3/8 339.73	48.0 - 72.0 71.42 - 107.14	13.450 341.63	12.110 307.59	1.250 31.75	2-7/8" EU 8RD
16 406.40	84.0 - 118.0 124.99 - 175.58	15.190 385.83	14.000 355.60	1.250 31.75	4-1/2" IF

JSA Snap-Out Seal Assembly

The **MOT JSA** is a tubing conveyed, latching seal assembly that is used to operate the sliding valve in the PCR or a similar style cement retainer.

Applications

- Used for acidizing, fracturing or cementing with a cement retainer

JSA Snap-Out Seal Assembly

Casing OD (in./mm)	Tool Size	Standard Thread Connection
4-1/2 114.3	2-3/8	2-3/8" EU 8RD
5 127	2-3/8	2-3/8" EU 8RD
5-1/2 139.7	2-3/8	2-3/8" EU 8RD
6-5/8 168.28	2-7/8	2-7/8" EU 8RD
7 177.8	2-7/8	2-7/8" EU 8RD
7-5/8 193.68	2-7/8	2-7/8" EU 8RD
8-5/8 219.08	2-7/8	2-7/8" EU 8RD
9-5/8 244.48	2-7/8	2-7/8" EU 8RD
10-3/4 273.05	2-7/8	2-7/8" EU 8RD
11-3/4 298.45	2-7/8	2-7/8" EU 8RD
13-3/8 229.73	2-7/8	2-7/8" EU 8RD
16 406.4	2-7/8	2-7/8" EU 8RD

Features

- Same tool operates the valve of several size retainers
- Deters seals from pumping out the retainer
- Permits high-pressure tubing testing
- Multiple safety release (rotate, snap-out, shear out)
- Gives positive indication of stinger location



Model “H” Hydraulic Setting Tool

The MOT **Model “H” Hydraulic Setting Assembly (HST)** is a hydraulic setting tool designed for setting packers and plugs without pipe manipulations. It is used to set packers and plugs that are normally set with a Model “E-4” Wireline Pressure Setting Assembly (or similar wireline setting equipment). The same adapter kit that is used on wireline can be used with the Model “H” HST. The Model “H” HST and packer (or plug) is run in on the tubing to the desired setting depth and a ball is dropped to the HST. Pressure is applied to close the fill ports, which also opens the setting pistons to pressure. As pressure is applied, force is transmitted to the packer (or plug) to set. Tubing tension can also be applied to supplement the setting force generated by the pressure applied.

The standard setting tool comes with three pistons, but additional pistons can be added to reduce setting pressure.

Special Features

- ▶ Large internal by-pass
- ▶ Tubing fills automatically as HST is run in the hole
- ▶ Premature setting is prevented by means of a shear screw in the cross link sleeve
- ▶ Ported top sub permits circulation through the HST
- ▶ Use existing wireline adapter kits

Product Specifications

Size (inches)	Tool Max PSI	Pull (max lbs)	Tool OD (inches)	Effective Piston Area (in ² /piston)	Connection		Part Number
					Top	Bottom (Baker E-4)	
#05	10,000	31,000	1.718	1.49	1.315 EUE	Size 05	39105
#10	10,000	75,000	2.750	3.44	1.900 EUE	Size 10	39110-3
#20	10,000	138,000	3.812	7.00	2-3/8 EUE	Size 20	39120-3

**Other sizes and connections available upon request*





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INC.**

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