

ELDER TOOLS INTERNATIONAL

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**Compression Set
Service Packer**

Model 'ETI-HD'

The 'ETI-HD Packer is a heavy duty compression set, retrievable packer with upper hydraulic hold down. A full bore opening eliminates flow restriction problems. This packer is designed to hold high differential pressure from either above or below. Integral by-pass system allows circulation around the tool so cement and other material can be removed from the hole. Packer has a built in unloader which circulates across the hold down buttons to improve retrievability.

Applications:

Used for stimulation, squeeze, cementing and testing operations. This tool is also compatible with retrievable bridge plugs and may be run in tandem for multiple zone operations.

Features:

- Heavy duty construction
- Hydraulic hold down
- Pressure balanced mandrel hold down
- Wickered or carbide insert slips and buttons
- Full bore opening
- Large internal by-pass
- Able to hold high differential pressure
- Optional setting bottoms

CAUTION: Before running this tool, check the pressure affected areas chart, and consider other effects to be certain that the unloader will remain closed during operation. This tool is manufactured with several hardened alloy parts which may be susceptible to the corrosive action of H₂S. If the presence of H₂S is suspected, we recommend ordering the tool with special metallurgy.

SETTING PROCEDURES:

Run to setting depth. Unloader remains open while running in. Pick-up the tubing and rotate 1/4 to the left at the packer. Stack off with and set-down on the packer to set the slips, close the unloader and compress the packing elements.

CAUTION: Run the tool slowly, as with any hold-down type packer, to help prevent dulling of the hydraulic buttons.

RELEASING PROCEDURES:

Pick-up on the tubing to open the unloader. Allowing time for the tubing and casing pressure to equalize. Continued upward movement of the tubing unsets the slips, relaxes the packing elements and automatically re-jays the packer, the tool may now be moved and reset or pulled for the well.

CAUTION: If the 'ETI-HD' Packer is run with a retrievable bridge plug, make sure the retrieving tool j-slot is compatible with the j-slot on the packer. Whichever, direction you set the plug, the packer should set in the opposite direction.

EXAMPLE: Left hand set packer, right hand set plug.





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'ETI-HD' RETRIEVABLE PACKER SPECIFICATION GUIDE

CASING	PACKER					
O.D. in/mm	WEIGHT lb/ft	MIN. I.D. in/mm	MAX. I.D. in/mm	MAX. O.D. in/mm	MIN. I.D. in/mm	STANDARD THREAD CONNECTIONS
4-1/2 114,30	15.1 - 16.1	3.754 95,35	3.826 97,18	3.594 91,29	1.500 38,10	1.900 EU 10RD
4-1/2 114,30	9.5 - 13.5	3.920 99,57	4.090 103,89	3.750 95,25	1.875 47,63	2-3/8 EU 8RD
5 127,00	18.0 - 21.0	4.156 105,56	4.276 108,61	3.969 100,81	1.875 47,63	2-3/8 EU 8RD
5 127,00	11.5 - 18.0	4.276 108,61	4.560 115,82	4.125 104,78	1.875 47,63	2-3/8 EU 8RD
5-1/2 139,70	20.0 - 23.0	4.670 118,62	4.778 121,36	4.500 114,30	2.000 50,80	2-3/8 EU 8RD
5-1/2 139,70	14.0 - 20.0	4.778 121,36	5.012 127,30	4.625 117,48	2.000 50,80	2-3/8 EU 8RD
5-1/2 139,70	14.0 - 20.0	4.778 121,36	5.012 127,30	4.688 119,08	2.375 60,33	2-7/8 EU 8RD
6-5/8 168,38	28.0 - 34.0	5.595 142,11	5.701 144,81	5.375 136,53	2.500 63,50	2-7/8 EU 8RD
6-5/8 168,38	17.0 - 20.0	6.049 153,64	6.135 155,83	5.813 147,65	2.500 63,50	2-7/8 EU 8RD
7 177,80	26.0 - 32.0	6.184 157,07	6.276 159,41	5.875 149,63	2.500 63,50	2-7/8 EU 8RD
7 177,80	17.0 - 26.0	6.276 159,71	6.538 166,07	6.125 155,58	2.500 63,50	2-7/8 EU 8RD
7-5/8 193,68	33.7 - 39.0	6.625 168,28	6.765 171,86	6.453 163,91	2.500 63,50	2-7/8 EU 8RD
7-5/8 193,68	24.0 - 29.7	6.875 174,63	7.025 178,44	6.688 169,88	2.500 63,50	2-7/8 EU 8RD
8-5/8 219,08	24.0 - 40.0	7.725 196,22	8.097 205,66	7.531 191,29	3.000 76,20	3-1/2 EU 8RD
9-5/8 244,48	43.5 - 53.5	8.535 216,79	8.755 222,38	8.250 209,55	4.000 101,60	4-1/2 EU 8RD
9-5/8 244,48	32.3 - 43.5	8.755 222,38	9.001 228,63	8.500 215,90	4.000 101,60	4-1/2 EU 8RD
10-3/4 273,05	32.7 - 45.5	9.950 252,73	10.192 258,92	9.688 246,05	4.000 101,60	4-1/2 EU 8RD
13-3/8 339,73	48.0 - 72.0	12.347 313,61	12.715 322,99	12.000 304,80	4.000 101,60	4-1/2 EU 8RD