

MODEL TI-5 TENSION PACKER

PRODUCT 20-302

The **Model Ti-5 Tension Packer** is a compact, economical, rugged, resettable packer that is run on jointed or coiled tubing. The packer is set and released with axial (upwards and downwards) motion, making it ideal for coil tubing use, or when rotating conventional tubing is impractical. The indexing Auto-J allows for reseatability without surfacing the tool, making it ideal for multi-zone treatments or fracturing.

The Ti-5 is similar to the Ti packer, except it has a longer Auto-J slot. The longer slotting allows for additional pickup before the slips are initiated. This feature allows for tubing pick up (up to 24’), allowing the tool to be ran comfortably on jointed tubing. The packer features an adjustable safety shear release allowing for packer retrieval in the event normal unsetting fails.

A *High-Flow* variation of the Model Ti Packer is available with slots machined into the Drag body and Element Cone to increase the cross-sectional flow area past the Packer. This design feature reduces frictional losses when pumping or flowing past the anchor, allowing for higher flow rates.

FEATURES

- Longer Auto-J slot allows added tubing pickup for making connections
- Sets/Unsets with axial (up-down) motion
- Resettable Auto-J ideal for service/completion work
- Can run upside down in compression or without element as an anchor
- Elastomer and metallurgical options available for hostile environments
- Available in a High Flow configuration (reduced x/s area)

OPERATION

The packer operates with a continuous Auto-J indexing mechanism. The Packer is ran to the desired depth with starting in either the *run-in* (or *pre-set*) position. Pickup engages the slips and energizes the element. Tension must be maintained in order to hold pack-off. If the packer does not set, cycle the tubing downward, then pick up will set the packer as above. To release the packer, lower the tubing to unset and then freely move up or down. The packer may be reset again by the initial procedure. If unable to normally unset, pull tension exceeding the shear force of the pins installed.



SPECIFICATION GUIDE - T Packer Series (20-302, 304, 306, 307)																
CASING					PACKER											
OD	WEIGHT		ID		OD		MIN ID		Connection	Product No						
	lb / ft	kg / m	in	mm	in	mm	in	mm								
2 3/8 50.8	4.7	7.0	1.995	50.7	1.81	46.0	0.378	9.6	1.000 NPT	20-302/4/5/6/7-0200						
2 7/8 73	6.5	9.7	2.441	62.0	2.20	55.9	0.750	19.1	1.500 NPT	20-302/4/5/6/7-0250						
	6.4	9.5	2.441	62.0												
3 1/2 88.9	10.2	15.2	2.992	76.0	2.81	71.4	1.380	35.05	1.500 NPT	20-302/4/5/6/7-0350						
	7.7	11.5	3.068	77.9												
4 1/2 114.3	15.1	22.6	3.826	97.2	3.50	88.9	1.610	40.89	1.900 EUE	20-302/4/5/6/7-0440						
	13.5	20.1	3.920	99.6												
4 1/2 114.3	11.6	17.3	4.000	101.6	3.80	96.5	1.940	49.1	2 3/8 EUE	20-302/4/5/6/7-0450						
	9.5	14.1	4.090	103.9												
	26	38.7	4.548	115.5							4.41	111.9	2.441	62.00	2 7/8 EUE	20-302/4/5/6/7-0530
	23	34.2	4.670	118.6												
5 1/2 139.7	23	34.2	4.670	118.6	4.45	113.0	1.995	50.67	2 3/8 EUE	20-302/4/5/6/7-0540						
	23	34.2	4.670	118.6	4.45	113.0	2.441	62.00	2 7/8 EUE	20-302/4/5/6/7-0550						
	20	29.8	4.778	121.4						4.50	114.3	20-302/4/5/6/7-0560				
	17	25.3	4.892	124.3	4.625	117.3				20-302/4/5/6/7-0580						
	13	19.3	5.044	128.1												
	5 3/4 146.0	24.2	36.0	4.910	124.7	4.728				120.1	2.441	62.00	2 7/8 EUE	20-302/4/5/6/7-0600		
22.5		33.5	4.990	126.7												
19.5		29.0	5.090	129.3	4.823	122.5	20-302/4/5/6/7-0610									
17		25.3	5.190	131.8												
6 5/8 168.3	32	47.6	5.675	144.1	5.44	138.2	2.441	62.00	2 7/8 EUE	20-302/4/5/6/7-0650						
	28	41.7	5.791	147.1												
	24	35.7	5.921	150.4	5.750	146.1				20-302/4/5/6/7-0700						
	20	29.8	6.049	153.6												
7 177.8	32	47.6	6.940	154.8	5.750	146.1	2.441	62.00	2 7/8 EUE	20-302/4/5/6/7-0700						
	29	43.2	6.184	157.1												
	26	38.7	6.276	159.4	6.00	152.4				20-302/4/5/6/7-0710						
	17	25.3	6.538	166.1												
7 5/8 193.7	39	58.0	6.625	168.3	6.45	163.8	2.441	62.84	2 7/8 EUE	20-302/4/5/6/7-0750						
	33.7	50.2	6.765	171.3												
	29.7	44.2	6.875	174.6	6.67	169.5				20-302/4/5/6/7-0760						
	24	35.7	7.025	178.4												
9 5/8 244.4	53.5	79.6	8.535	216.8	8.25	209.6	4.000	101.6	4 1/2 EUE	20-302/4/5/6/7-0950						
	47	69.9	8.681	220.5												
	43.5	64.7	8.755	222.4	8.50	215.9				20-302/4/5/6/7-0960						
	32.3	48.1	9.001	228.6												