

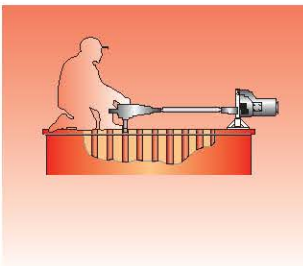
'T - 2000' Series [Flare] Boiler Tube Expander

3 Plain Rollers

3 Flare Rollers

- Controlled travel of expander
- Positive depth setting
- Uniform tight joints
- In-built thrust bearing

Tristar offers solutions to overcome any installation problem.



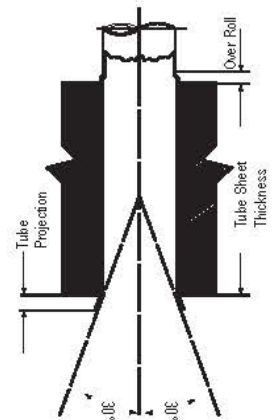
Tristar offers not just tube tools but complete solutions to overcome any installation problem

Our drive systems are designed to overcome most difficult installation problem

TUBE SIZE				Min I.D. Tool Enters	Max Expansion of Tool	TUBE EXPANDER MODEL						
						Tube Sheet Thickness Range						
O.D inch	THK bwg	O.D. inch	THK bwg	mm	inch	mm	inch	1/2" to 3/4"	7/8" to 1.1/4"	1.3/8" to 1.3/4"	1.7/8" to 2.1/4"	2.3/8" to 2.3/4"
Tube Sheet Thickness Codes >								3	5	7	9	11
1	13 - 14			20.0	0.787	23.4	0.921	T2079/3	T2079/5			
	15 - 16			21.0	0.827	24.4	0.961	T2083/3	T2083/5			
1.1/4	7			22.0	0.866	25.5	1.004	T2087/3	T2087/5			
	8 - 9			23.0	0.906	26.5	1.043	T2091/3	T2091/5			
	10			24.0	0.945	28.1	1.105	T2095/3	T2095/5			
	11 - 13			25.0	0.984	29.0	1.142	T2099/3	T2099/5			
	14 - 15			26.0	1.024	30.0	1.181	T2103/3	T2103/5			
1.1/2	16			28.1	1.105	33.0	1.299	T2111/3	T2111/5			
	10 - 12			31.0	1.221	35.0	1.378	T2118/3	T2118/5			
1.3/4	13 - 16			33.0	1.300	38.0	1.496	T2126/3	T2126/5			
	8 - 9	2	3	35.0	1.379	40.0	1.575	T2134/3	T2134/5	T2134/7	T2134/9	T2134/11
	10 - 12	2	4 - 5	37.0	1.457	42.5	1.673	T2142/3	T2142/5	T2142/7	T2142/9	T2142/11
2	13 - 16	2	6	39.0	1.536	44.5	1.752	T2150/3	T2150/5	T2150/7	T2150/9	T2150/11
	7 - 9	2.1/4	3	41.0	1.615	47.0	1.850	T2158/3	T2158/5	T2158/7	T2158/9	T2158/11
	10 - 12	2.1/4	4 - 5	43.0	1.694	49.0	1.929	T2166/3	T2166/5	T2166/7	T2166/9	T2166/11
	13 - 16	2.1/4	6	45.0	1.772	51.5	2.027	T2174/3	T2174/5	T2174/7	T2174/9	T2174/11
	16	2.1/2	3	47.0	1.851	54.0	2.126	T2181/3	T2181/5	T2181/7	T2181/9	T2181/11
2.1/4	10 - 13	2.1/2	4 - 5	49.0	1.930	56.0	2.205	T2189/3	T2189/5	T2189/7	T2189/9	T2189/11
	14 - 16	2.1/2	6	51.0	2.009	60.0	2.362	T2197/3	T2197/5	T2197/7	T2197/9	T2197/11
2.1/2	7 - 10			53.0	2.087	62.0	2.441	T2205/3	T2205/5	T2205/7	T2205/9	T2205/11
	11 - 13	3	2	55.0	2.116	64.0	2.520	T2213/3	T2213/5	T2213/7	T2213/9	T2213/11
	14 - 16			57.0	2.245	66.0	2.598	T2221/3	T2221/5	T2221/7	T2221/9	T2221/11



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL		
Tube Sheet Thickness Range					Drum Type 2.3/4"	Short Series Mandrels	SQ
1/2" to 3/4"	7/8" to 3/4"	1.3/8" to 1.1/4"	1.7/8" to 1.3/4"	2.3/8" to 2.1/4"			
3	5	7	9	11			
0793-FS	0795-FS				TM-83		1/2 □
0833-FS	0835-FS						
0873-FS	0875-FS				TM-91		
0953-FS	0955-FS						
0953-FS	0955-FS				TM-99		
0993-FS	0995-FS						
1033-FS	1035-FS						3/4 □
1113-FS	1115-FS				TM-118	TMS-1,2,3	
1183-FS	1185-FS						
1263-FS	1265-FS				TM-126	TMS-2,3,4	
1263-FS	1265-FS	1267-FS	1269-FS	12611-FS	TM-134	TMS-3,4,5	
1423-FS	1425-FS	1427-FS	1429-FS	14211-FS	TM-150	TMS-3,4,5,6	
1503-FS	1505-FS	1507-FS	1509-FS	15011-FS			1 □
1583-FS	1585-FS	1587-FS	1589-FS	15811-FS	TM-174	TMS-4,5,6,7,8	
1663-FS	1665-FS	1667-FS	1669-FS	16611-FS			
1743-FS	1745-FS	1747-FS	1749-FS	17411-FS			
1813-FS	1815-FS	1817-FS	1819-FS	18111-FS	TM-197	TMS-7,8,9,10,11	
1743-FS	1745-FS	1747-FS	1749-FS	17411-FS			
2053-FS	2055-FS	2057-FS	2059-FS	20511-FS		TMS-6,7,8,9,10,11	1 □
2053-FS	2055-FS	2057-FS	2059-FS	20511-FS	TM-221	TMS-7,8,9,10,11,12	
2133-FS	2135-FS	2137-FS	2139-FS	21311-FS			

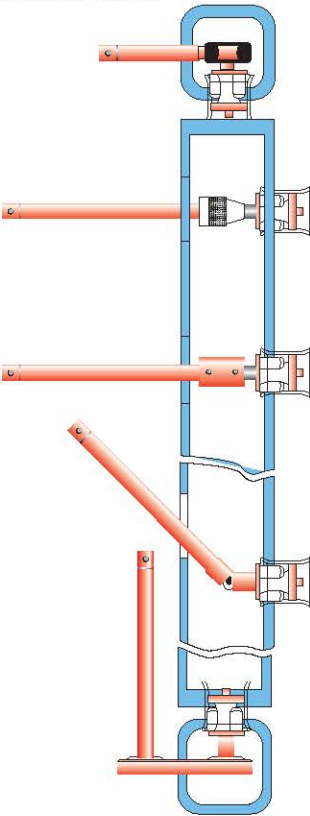


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The various drive accessories developed are designed for optimum productivity and operator ease

TUBE SIZE				Min I.D. Tool Enters		Max Expansion of Tool		TUBE EXPANDER MODEL				
								Tube Sheet Thickness Range				
O.D. inch	THK bwg	O.D. inch	THK bwg	mm	inch	mm	inch	1/2" to 3/4"	7/8" to 1.1/4"	1.3/8" to 1.3/4"	1.7/8" to 2.1/4"	2.3/8" to 2.3/4"
				Tube Sheet Thickness Codes >				3	5	7	9	11
2.3/4	7 - 9			59.0	2.323	68.0	2.677	T2229/3	T2229/5	T2229/7	T2229/9	T2229/11
	10 - 12			61.0	2.402	70.0	2.756	T2237/3	T2237/5	T2237/7	T2237/9	T2237/11
	13 - 16			63.0	2.481	72.0	2.835	T2244/3	T2244/5	T2244/7	T2244/9	T2244/11
3	7 - 8			65.0	2.560	74.0	2.913	T2252/3	T2252/5	T2252/7	T2252/9	T2252/11
	10 - 12			67.0	2.638	76.0	2.992	T2260/3	T2260/5	T2260/7	T2260/9	T2260/11
	13 - 14			69.0	2.717	78.0	3.071	T2268/3	T2268/5	T2268/7	T2268/9	T2268/11
	15 - 16			71.0	2.796	80.0	3.150	T2276/3	T2276/5	T2276/7	T2276/9	T2276/11
3.1/4	7 - 11			73.0	2.874	82.0	3.228	T2284/3	T2284/5	T2284/7	T2284/9	T2284/11
	12 - 14			75.0	2.953	84.0	3.307	T2292/3	T2292/5	T2292/7	T2292/9	T2292/11
	15 - 16	3.1/2	7 - 9	77.0	3.032	86.0	3.386	T2300/3	T2300/5	T2300/7	T2300/9	T2300/11
3.1/2	10 - 12			79.0	3.111	88.0	3.465	T2308/3	T2308/5	T2308/7	T2308/9	T2308/11
	13 - 15			81.0	3.190	92.0	3.622	T2315/3	T2315/5	T2315/7	T2315/9	T2315/11
	16	3.3/4	7 - 8	83.0	3.268	94.0	3.701	T2323/3	T2323/5	T2323/7	T2323/9	T2323/11
3.3/4	9 - 12			85.0	3.347	96.0	3.780	T2331/3	T2331/5	T2331/7	T2331/9	T2331/11
	13 - 16			87.0	3.426	98.0	3.858	T2339/3	T2339/5	T2339/7	T2339/9	T2339/11
4	7 - 8			89.0	3.505	100.0	3.937	T2347/3	T2347/5	T2347/7	T2347/9	T2347/11
	9 - 12			91.0	3.583	102.0	4.016	T2355/3	T2355/5	T2355/7	T2355/9	T2355/11
	13 - 15			93.0	3.662	104.0	4.094	T2363/3	T2363/5	T2363/7	T2363/9	T2363/11
	16	4.1/4	7 - 8	95.0	3.741	106.0	4.173	T2370/3	T2370/5	T2370/7	T2370/9	T2370/11
4.1/4	9 - 11			97.0	3.820	108.0	4.252	T2378/3	T2378/5	T2378/7	T2378/9	T2378/11
	12 - 16			99.0	3.898	110.0	4.331	T2386/3	T2386/5	T2386/7	T2386/9	T2386/11
	7 - 14			101.0	3.997	111.0	4.407	T2394/3	T2394/5	T2394/7	T2394/9	T2394/11



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL		
Tube Sheet Thickness Range					Drum Type	Short Series Mandrels	SQ
1/2" to 3/4"	7/8" to 1.1/4"	1.3/8" to 1.3/4"	1.7/8" to 2.1/4"	2.3/8" to 2.3/4"			
3	5	7	9	11			
2213-FS	2215-FS	2217-FS	2219-FS	22111-FS	TMP-244	TMPS-8,9,10,11,12,13	↑ □
2373-FS	2375-FS	2377-FS	2379-FS	23711-FS			
2523-FS	2525-FS	2527-FS	2529-FS	25211-FS			
2523-FS	2525-FS	2527-FS	2529-FS	25211-FS	TMP-268	TMPS-10,11,12,13,14	
2603-FS	2605-FS	2607-FS	2609-FS	26011-FS			
2683-FS	2685-FS	2687-FS	2689-FS	26811-FS			
2763-FS	2765-FS	2767-FS	2769-FS	27611-FS	TMP-300	TMPS-12,13,14,15,16	
2843-FS	2845-FS	2847-FS	2849-FS	28411-FS			
2923-FS	2925-FS	2927-FS	2929-FS	29211-FS			
3153-FS	3155-FS	3157-FS	3159-FS	31511-FS			
2843-FS	2845-FS	2847-FS	2849-FS	28411-FS	TMP-347	TMPS-15,16,17,18,19	
3153-FS	3155-FS	3157-FS	3159-FS	31511-FS		TMPS-14,15,16,17,18,19	
3233-FS	3235-FS	3237-FS	3239-FS	32311-FS			
3313-FS	3315-FS	3317-FS	3319-FS	33111-FS			
3553-FS	3555-FS	3557-FS	3559-FS	35511-FS			
3633-FS	3635-FS	3637-FS	3639-FS	36311-FS			
3553-FS	3555-FS	3557-FS	3559-FS	35511-FS	TMP-394	TMPS-17,18,19,20,21	
3633-FS	3635-FS	3637-FS	3639-FS	36311-FS			
3703-FS	3705-FS	3707-FS	3709-FS	37011-FS			
3783-FS	3785-FS	3787-FS	3789-FS	37811-FS			
3863-FS	3865-FS	3867-FS	3869-FS	38611-FS			
3943-FS	3945-FS	3947-FS	3949-FS	39411-FS			

