

# Boiler Tube Expanders

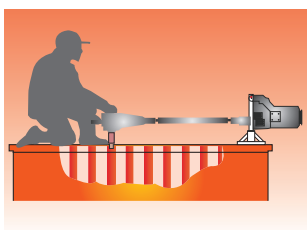
## 'T-114' Series [Flare]

4 Plain Rollers

2 Flare Rollers

- ❑ Multi purpose expander
- ❑ Popular choice for expanding and flaring
  - Boiler tubes
  - Water wall
  - Economizer
  - Riser and air heater tubes

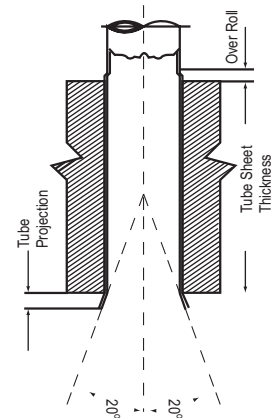
Tritorc offers solutions to overcome any installation problem.



One of our drive systems helps overcome a problem caused by a difficult access...

- Reduces operator fatigue
- Ensures operator safety
- Increases productivity
- Maintains consistent accuracy

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 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"
				Tube Sheet Thickness Codes >				2	3	4	5	6
2	4 - 5	1.3/4	11 - 13	36.7	1.444	43.1	1.696	-	T14172	T14174	T14176	T14178
	6 - 7	1.3/4	14 - 16	38.3	1.507	44.6	1.755	-	T14182	T14184	T14186	T14188
	7 - 8			39.9	1.570	46.4	1.826	T14191	T14192	T14194	T14196	T14198
	9 - 10	2.1/4	13	41.5	1.633	48.0	1.889	T14201	T14202	T14204	T14206	T14208
	11-13	2.1/4	4 - 5	43.1	1.696	49.6	1.952	T14211	T14212	T14214	T14216	T14218
2 1/2	2	2.1/4	6 - 8	45.5	1.791	52.6	2.070	-	T14222	T14224	T14226	T14228
	3 - 4	2.1/4	9 - 11	47.1	1.856	54.2	2.133	-	T14232	T14234	T14236	T14238
	4 - 6	2.1/4	12 - 15	49.0	1.929	57.3	2.255	-	T14242	T14244	T14246	T14248
	7 - 10	2.3/4	2 - 3	51.9	2.043	60.5	2.381	-	T14252	T14254	T14256	T14258
	11 - 13	2.3/4	4 - 5	55.1	2.169	63.7	2.507	T14261	T14262	T14264	T14266	T14268
3	1 - 3	2.3/4	6 - 10	57.4	2.259	66.6	2.622	-	T14272	T14274	T14276	T14278
	4 - 6	2.3/4	11 - 15	60.6	2.385	70.0	2.755	-	T14282	T14284	T14286	T14288
	7 - 11	3.1/4	1 - 4	63.8	2.511	73.9	2.909	-	T14292	T14294	T14296	T14298
	10 - 12	3.1/4	4 - 7	66.9	2.635	77.3	3.043	T14301	T14302	T14304	T14306	T14308
3 1/2	1 - 4	3.1/4	7 - 11	70.1	2.759	80.1	3.153	-	T14312	T14314	T14316	T14318
	4 - 7	3.1/4	10 - 15	73.0	2.874	83.4	3.283	-	T14322	T14324	T14326	T14328
	7 - 11	3.3/4	2 - 3	76.2	3.000	86.8	3.417	-	T14332	T14334	T14336	T14338
	10 - 12	3.3/4	4 - 5	79.3	3.122	89.8	3.535	-	T14342	T14344	T14346	T14348
4	1 - 4	3.3/4	6 - 10	82.5	3.248	93.0	3.661	-	T14352	T14354	T14356	T14358
	4 - 7	3.3/4	11 - 15	85.7	3.374	96.0	3.779	-	T14362	T14364	T14366	T14368
	7 - 11	4.1/4	2 - 3	88.9	3.500	98.6	3.881	-	T14372	T14374	T14376	T14378
	8 - 12	4.1/4	3 - 5	90.5	3.562	102.3	4.027	-	T14382	T14384	T14386	T14388
4 1/2	1 - 4	4.1/4	6 - 9	95.2	3.748	104.7	4.122	-	T14392	T14394	T14396	T14398
	3 - 8	4.1/4	10 - 13	98.4	3.874	110.3	4.342	-	T14402	T14404	T14406	T14408
	6 - 12			101.6	4.000	113.5	4.468	-	T14412	T14414	T14416	T14418



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL				
Tube Sheet Thickness Range									
1/2" to 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"	Drum Type	Header Type	Short Series 5.1/8"	Short Series 7.1/8"	SQ □
2	3	4	5	6					
-	34872	34874	34878	34948	32269	32289	32308, 9, 10, 11	34876, 34948	
-	34879	34881	34883	34949	32269	32289	32309, 10, 11	-	
34878	34879	34881	34883	34949	32270	32290	32309, 10, 11, 12	-	
34878	34879	34881	34883	34949	32271	32291	32311, 12, 13	32346	
34885	34886	34888	34890	34950	32270	32290	32310, 11, 12	32345	
-	34893	34895	34897	34951	32270	32290	32310, 11, 12, 13	-	3/4" □
-	34893	34895	34897	34951	32271	32291	32311, 12, 13, 14	-	
-	34893	34895	34897	34951	32272	32292	32312, 13, 14, 15, 16	-	
-	34900	34902	34904	34952	32272	32292	32312, 13, 14, 15, 16	32347, 48, 49	
-	34900	34902	34904	34952	32273	32293	32315, 16, 17	33630, 31	
-	34907	34909	34911	34953	32273	32293	32315, 16, 17, 18, 19	-	
-	34907	34909	34911	34953	32274	32294	32317, 18, 19, 20, 21	-	
-	34914	34916	34918	34954	32274	32294	32318, 19, 20, 21, 22	33632, 33, 34, 35	
34913	34914	34916	34918	34954	32275	32295	32320, 21, 22	33634, 35	
-	34921	34923	34925	34955	32274	32294	32318, 19, 20, 21, 22	-	
-	34921	34923	34925	34955	32275	32275	32321, 22, 23, 24, 25	-	
-	34921	34923	34925	34955	32276	32296	32323, 24, 25, 26, 27	-	
-	34921	34923	34925	34955	32277	32297	32324, 25, 26, 27, 28	-	1" □
-	34928	34930	34932	34956	32276	32296	32324, 25, 26, 27, 28	-	
-	34928	34930	34932	34956	32277	32297	32326, 27, 28, 29, 30	-	
-	34928	34930	34932	34956	32278	32298	32328, 29, 30, 31, 32	-	
-	34935	34937	34939	34957	32277	32297	32324, 25, 26, 27, 28	-	
-	34935	34937	34939	34957	32278	32298	32329, 30, 31, 32, 50	-	
-	34935	34937	34939	34957	32279	32299	32331, 32, 50, 37, 38	-	
-	34942	34944	34946	34958	32278	32298	32326, 27, 28, 29, 30	-	



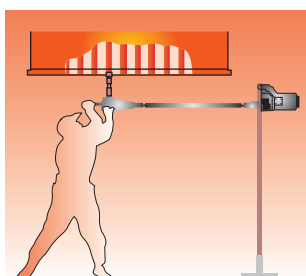
# Boiler Tube Expanders

**'TA' Series** [Parallel]

## 3 Plain Rollers

- ❑ Excellent expander for re-rolling and new construction
- ❑ Popular choice for small No. of tubes

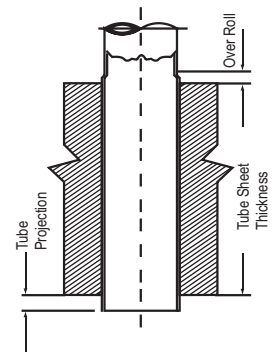
Tritorc offers solutions to overcome any installation problem.



Tube expansion in vertical tubes

- Drive in conjunction with telescopic shaft coupled to a right angled gear drive makes tube installations easier.

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 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"
Tube Sheet Thickness Codes >								2	3	4	5	6
7/8	15	1	10	18.1	0.712	20.4	0.803	TA-31/2	TA-31/3			
	16	-	-	18.4	0.724	20.7	0.814	TA-32/2	TA-32/3			
	17	1	11	18.8	0.740	21.1	0.830	TA-33/2	TA-33/3			
	18	1	12	19.4	0.763	21.6	0.850	TA-34/2	TA-34/3			
	19 - 20	1.1/8	8	19.7	0.775	22.3	0.877	TA-35/2	TA-35/3			
1	13	-	-	20.1	0.791	22.4	0.881	TA-36/2	TA-36/3			
	14	1.1/8	9	20.6	0.811	23.1	0.909	TA-37/2	TA-37/3	TA-37/4		
	15 - 16	1.1/8	10	21.3	0.838	23.8	0.937	TA-38/2	TA-38/3	TA-38/4		
	17 - 18	1.1/8	11	22.0	0.866	24.5	0.964	TA-39/2	TA-39/3	TA-39/4		
	19 - 20	1.1/8	12	22.4	0.881	25.0	0.984	TA-40/2	TA-40/3	TA-40/4		
1.1/4	8	1.1/8	13	23.3	0.917	25.9	1.019	TA-41/2	TA-41/3	TA-41/4		
	9	1.1/8	14	23.8	0.937	26.5	1.043	TA-42/2	TA-42/3	TA-42/4		
	10	1.1/8	15 - 16	24.4	0.960	27.2	1.070	TA-43/2	TA-43/3	TA-43/4		
	11			25.2	0.992	28.0	1.102	TA-44/2	TA-44/3	TA-44/4		
	12			25.7	1.011	28.5	1.122	TA-45/2	TA-45/3	TA-45/4		
	13	1.3/8	8	26.1	1.027	28.8	1.133	TA-46/2	TA-46/3	TA-46/4		
	14			26.4	1.039	29.2	1.149	TA-47/2	TA-47/3	TA-47/4		
	15	1.3/8	9	26.9	1.059	29.7	1.169	TA-48/2	TA-48/3	TA-48/4		
1.1/2	16	1.3/8	10	27.6	1.086	30.4	1.196	TA-49/2	TA-49/3	TA-49/4	TA-49/5	TA-49/6
	7	1.3/8	11	28.3	1.114	31.2	1.228	TA-50/2	TA-50/3	TA-50/4	TA-50/5	TA-50/6
	8	1.3/8	12	28.8	1.133	31.7	1.248	TA-51/2	TA-51/3	TA-51/4	TA-51/5	TA-51/6
	9	1.3/8	13 - 14	29.5	1.161	33.4	1.314	TA-52/2	TA-52/3	TA-52/4	TA-52/5	TA-52/6
	10	1.3/8	15 - 16	30.0	1.181	34.1	1.342	TA-53/2	TA-53/3	TA-53/4	TA-53/5	TA-53/6
	11 - 12			30.6	1.204	34.8	1.370	TA-54/2	TA-54/3	TA-54/4	TA-54/5	TA-54/6
	13	1.3/4	5	31.4	1.236	35.6	1.401	TA-55/2	TA-55/3	TA-55/4	TA-55/5	TA-55/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range					Drum Type	Header Type	Short Series	SQ ☒
1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”				
2	3	4	5	6				3/8” ☒
152-RS	153-RS	-	-	-	TDM-11			
152-RS	153-RS				TDM-12			
162-RS	163-RS							
202-RS	203-RS							
172-RS	173-RS				TDM-13			
182-RS	183-RS				TDM-12			
182-RS	183-RS	184-RS			TDM-13	THM-13	TSM-13	
192-RS	193-RS	194-RS						
212-RS	213-RS	214-RS						
212-RS	213-RS	214-RS			TDM-14	THM-14	TSM-14	1/2” ☒
222-RS	223-RS	224-RS						
232-RS	233-RS	234-RS			TDM-15	THM-15	TSM-15	
242-RS	243-RS	244-RS						
262-RS	263-RS	264-RS			TDM-16	THM-16	TSM-16	
272-RS	273-RS	274-RS						
312-RS	313-RS	314-RS						
282-RS	283-RS	284-RS			TDM-17	THM-17	TSM-17	
292-RS	293-RS	294-RS						
302-RS	303-RS	304-RS	305-RS	306-RS				
302-RS	303-RS	304-RS	305-RS	306-RS	TDM-18	THM-18	TSM-18	
322-RS	323-RS	324-RS	325-RS	326-RS				
282-RS	283-RS	284-RS	285-RS	286-RS	TDM-20	THM-20	TSM-20	
292-RS	293-RS	294-RS	295-RS	296-RS				
302-RS	303-RS	304-RS	305-RS	306-RS				
332-RS	333-RS	334-RS	335-RS	336-RS				



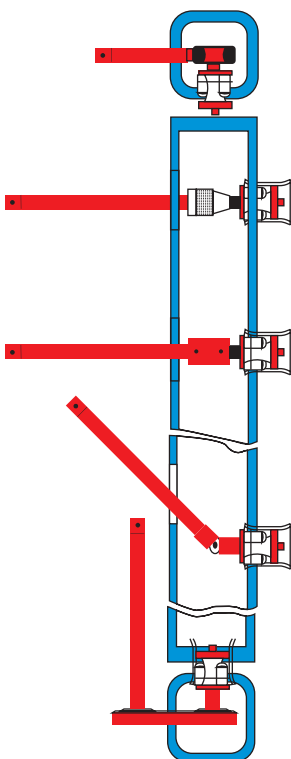
# Boiler Tube Expanders

**'TA' Series** [Parallel]

## 3 Plain Rollers

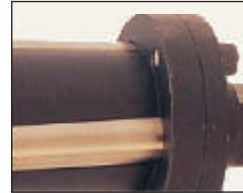
- Excellent expander for re-rolling and new construction
- Popular choice for less No. of tubes

Tritorc offers solutions to overcome any installation problem.

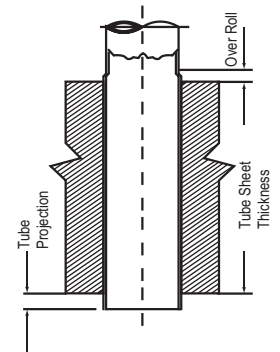


The various drive accessories developed are designed for optimum productivity and operator ease

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 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"
				Tube Sheet Thickness Codes >				2	3	4	5	6
1.1/2	14 - 5	1.3/4	6	32.6	1.283	36.8	1.448	TA-56/2	TA-56/3	TA-56/4	TA-56/5	TA-56/6
		1.3/4	7	33.4	1.314	38.1	1.500	TA-57/2	TA-57/3	TA-57/4	TA-57/5	TA-57/6
		1.3/4	8	34.2	1.346	38.7	1.523	TA-58/2	TA-58/3	TA-58/4	TA-58/5	TA-58/6
2	3	1.3/4	9 - 10	35.0	1.377	40.6	1.598	TA-59/2	TA-59/3	TA-59/4	TA-59/5	TA-59/6
	4	1.3/4	11 - 12	36.6	1.440	42.2	1.661	TA-60/2	TA-60/3	TA-60/4	TA-60/5	TA-60/6
	5 - 6	1.3/4	13 - 14	38.2	1.503	43.8	1.712	TA-61/2	TA-61/3	TA-61/4	TA-61/5	TA-61/6
	7 - 8	1.3/4	15 - 16	39.8	1.566	45.4	1.787	TA-62/2	TA-62/3	TA-62/4	TA-62/5	TA-62/6
	9 - 10	2.1/4	3	41.4	1.629	47.0	1.850	TA-63/2	TA-63/3	TA-63/4	TA-63/5	TA-63/6
	11 - 13	2.1/4	4	42.9	1.688	49.5	1.948	TA-64/2	TA-64/3	TA-64/4	TA-64/5	TA-64/6
	14 - 16	2.1/4	6 - 7	44.5	1.751	51.1	2.011	TA-65/2	TA-65/3	TA-65/4	TA-65/5	TA-65/6
	17 - 18	2.1/4	8 - 9	46.1	1.814	52.7	2.074	TA-66/2	TA-66/3	TA-66/4	TA-66/5	TA-66/6
2.1/2	3	2.1/4	10 - 11	47.7	1.877	54.3	2.137	TA-67/2	TA-67/3	TA-67/4	TA-67/5	TA-67/6
	4 - 5	2.1/4	12 - 13	49.3	1.940	55.9	2.200	TA-68/2	TA-68/3	TA-68/4	TA-68/5	TA-68/6
	6 - 7	2.1/4	14 - 16	50.8	2.000	57.8	2.275	TA-69/2	TA-69/3	TA-69/4	TA-69/5	TA-69/6
	8 - 9	2.3/4	3	52.4	2.062	59.4	2.338	TA-70/2	TA-70/3	TA-70/4	TA-70/5	TA-70/6
	10 - 11	2.3/4	4	54.0	2.125	61.0	2.401	TA-71/2	TA-71/3	TA-71/4	TA-71/5	TA-71/6
	12 - 14	2.3/4	5 - 6	55.6	2.188	64.0	2.519	TA-72/2	TA-72/3	TA-72/4	TA-72/5	TA-72/6
	15 - 16	2.3/4	7 - 8	57.2	2.251	65.6	2.582	TA-73/2	TA-73/3	TA-73/4	TA-73/5	TA-73/6
3	3	2.3/4	9 - 10	58.6	2.307	67.0	2.637	TA-74/2	TA-74/3	TA-74/4	TA-74/5	TA-74/6
	4	2.3/4	11 - 13	60.4	2.377	68.8	2.708	TA-75/2	TA-75/3	TA-75/4	TA-75/5	TA-75/6
	5 - 6	2.3/4	14 - 16	62.2	2.448	70.4	2.771	TA-76/2	TA-76/3	TA-76/4	TA-76/5	TA-76/6
	7 - 8			63.6	2.503	72.0	2.834	TA-77/2	TA-77/3	TA-77/4	TA-77/5	TA-77/6
	9 - 10	3.1/4	3	65.0	2.559	73.4	2.889	TA-78/2	TA-78/3	TA-78/4	TA-78/5	TA-78/6
	11 - 13	3.1/4	4	66.6	2.622	75.0	2.952	TA-79/2	TA-79/3	TA-79/4	TA-79/5	TA-79/6
	14 - 16	3.1/4	5 - 6	68.3	2.688	76.9	3.027	TA-80/2	TA-80/3	TA-80/4	TA-80/5	TA-80/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range					Drum Type	Header Type	Short Series	SQ ☐
1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”				
2	3	4	5	6				
342-RS	343-RS	344-RS	345-RS	346-RS	TDM-21	THM-21	TSM-21	12” ☐
362-RS	363-RS	364-RS	365-RS	366-RS				
372-RS	373-RS	374-RS	375-RS	376-RS				
332-RS	333-RS	334-RS	335-RS	336-RS	TDM-22	THM-22	TSM-22	3/4” ☐
372-RS	373-RS	374-RS	375-RS	376-RS				
382-RS	383-RS	384-RS	385-RS	386-RS				
392-RS	393-RS	394-RS	395-RS	396-RS				
402-RS	403-RS	404-RS	405-RS	406-RS	TDM-23	THM-23	TSM-23	
402-RS	403-RS	404-RS	405-RS	406-RS				
412-RS	413-RS	414-RS	415-RS	416-RS				
422-RS	423-RS	424-RS	425-RS	426-RS				
432-RS	433-RS	434-RS	435-RS	436-RS	TDM-24	THM-24	TSM-24	
442-RS	443-RS	444-RS	445-RS	446-RS				
432-RS	433-RS	434-RS	435-RS	436-RS				
442-RS	443-RS	444-RS	445-RS	446-RS				
452-RS	453-RS	454-RS	455-RS	456-RS	TDM-25	THM-25	TSM-25	
472-RS	473-RS	474-RS	475-RS	476-RS				
462-RS	463-RS	464-RS	465-RS	466-RS				
472-RS	473-RS	474-RS	475-RS	476-RS				
482-RS	483-RS	484-RS	485-RS	486-RS	TDM-26	THM-26	TSM-26	
492-RS	493-RS	494-RS	495-RS	496-RS				
502-RS	503-RS	504-RS	505-RS	506-RS				
512-RS	513-RS	514-RS	515-RS	516-RS				
522-RS	523-RS	524-RS	525-RS	526-RS				
512-RS	513-RS	514-RS	515-RS	516-RS				



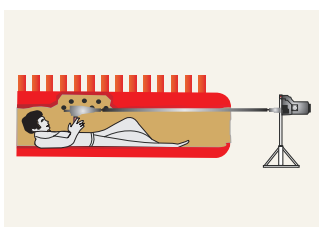
# Boiler Tube Expanders

## 'TA' Series [Parallel]

### 3 Plain Rollers

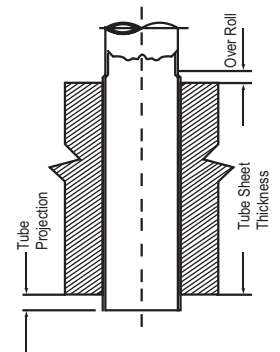
- Excellent expander for re-rolling and new construction
- Popular choice for less No. of tubes

Tritorc offers solutions to overcome any installation problem.



Typical example of solution oriented approach

TUBE SIZE				Min I.D. Tool Enters		Max Expansion of Tool		TUBE EXPANDER MODEL				
O.D inch	THK bwg	O.D. inch	THK bwg					Tube Sheet Thickness Range				
								1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”
				Tube Sheet Thickness Codes >				2	3	4	5	6
3.1/2	2	3.1/4	7 - 8	69.9	2.751	78.5	3.090	TA-81/2	TA-81/3	TA-81/4	TA-81/5	TA-81/6
	3	3.1/4	9 - 10	71.5	2.814	80.1	3.153	TA-82/2	TA-82/3	TA-82/4	TA-82/5	TA-82/6
	4	3.1/4	11 - 13	73.1	2.877	81.7	3.216	TA-83/2	TA-83/3	TA-83/4	TA-83/5	TA-83/6
	5 - 6	31/4	14 -16	74.6	2.937	84.2	3.314	TA-84/2	TA-84/3	TA-84/4	TA-84/5	TA-84/6
	7 - 8	3.3/4	2	76.2	3.000	85.5	3.366	TA-85/2	TA-85/3	TA-85/4	TA-85/5	TA-85/6
	9 -11	3.3/4	3	77.8	3.062	87.4	3.440	TA-86/2	TA-86/3	TA-86/4	TA-86/5	TA-86/6
	12 -16	3.3/4	4	79.4	3.125	89.0	3.503	TA-87/2	TA-87/3	TA-87/4	TA-87/5	TA-87/6
		3.3/4	5 - 6	81.0	3.188	90.6	3.566	TA-88/2	TA-88/3	TA-88/4	TA-88/5	TA-88/6
4	2	3.3/4	7 - 8	82.6	3.251	92.2	3.629	TA-89/2	TA-89/3	TA-89/4	TA-89/5	TA-89/6
	3	3.3/4	9 - 10	84.2	3.314	93.8	3.692	TA-90/2	TA-90/3	TA-90/4	TA-90/5	TA-90/6
	4	3.3/4	11 - 13	85.8	3.377	96.2	3.787	TA-91/2	TA-91/3	TA-91/4	TA-91/5	TA-91/6
	5 - 6	3.3/4	14 - 16	87.4	3.440	97.8	3.850	TA-92/2	TA-92/3	TA-92/4	TA-92/5	TA-92/6
	7 - 8	4.1/4	2	89.0	3.503	99.4	3.913	TA-93/2	TA-93/3	TA-93/4	TA-93/5	TA-93/6
	9 -11	4.1/4	3	90.4	3.559	100.8	3.968	TA-94/2	TA-94/3	TA-94/4	TA-94/5	TA-94/6
	12 - 16	4.1/4	4	92.0	3.622	102.4	4.031	TA-95/2	TA-95/3	TA-95/4	TA-96/5	TA-95/6
		4.1/4	5 - 6	93.4	3.677	103.8	4.086	TA-96/2	TA-96/3	TA-96/4	TA-96/5	TA-96/6
4.1/2	2	4.1/4	7 - 8	95.0	3.740	105.4	4.149	TA-97/2	TA-97/3	TA-97/4	TA-97/5	TA-97/6
	3	4.1/4	9 -11	96.6	3.803	107.0	4.212	TA-98/2	TA-98/3	TA-98/4	TA-98/5	TA-98/6
	4 - 5	4.1/4	11 -13	98.2	3.866	108.6	4.275	TA-99/2	TA-99/3	TA-99/4	TA-99/5	TA-99/6
	6 - 7			101.2	3.984	110.0	4.330	TA-100/2	TA-100/3	TA-110/4	TA-100/5	TA-100/6
	8 - 9			102.8	4.047	111.6	4.393	TA-101/2	TA-101/3	TA-101/4	TA-101/5	TA-101-6
	10 - 12			104.4	4.110	113.2	4.456	TA-102/2	TA-102/3	TA-102/4	TA-102/5	TA-102/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range								
1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”	Drum Type	Header Type	Short Series 5.1/8”	SQ ☒
2	3	4	5	6				
522-RS	523-RS	524-RS	525-RS	526-RS	TDM-26	THM-26	TSM-26	1” ☒
532-RS	533-RS	534-RS	535-RS	536-RS				
542-RS	543-RS	544-RS	545-RS	546-RS				
542-RS	543-RS	544-RS	545-RS	546-RS	TDM-27	THM-27	TSM-27	
552-RS	553-RS	554-RS	555-RS	556-RS				
562-RS	563-RS	564-RS	565-RS	566-RS				
572-RS	573-RS	574-RS	575-RS	576-RS				
582-RS	583-RS	584-RS	585-RS	586-RS				
592-RS	593-RS	594-RS	595-RS	596-RS				
602-RS	603-RS	604-RS	605-RS	606-RS				
592-RS	593-RS	594-RS	595-RS	596-RS	TDM-28	THM-28	TSM-28	
602-RS	603-RS	604-RS	605-RS	606-RS				
612-RS	613-RS	614-RS	615-RS	616-RS				
622-RS	623-RS	624-RS	625-RS	626-RS				
632-RS	633-RS	634-RS	635-RS	636-RS				
622-RS	623-RS	624-RS	625-RS	626-RS	TDM-29	THM-29	TSM-29	
632-RS	633-RS	634-RS	635-RS	636-RS				
642-RS	643-RS	644-RS	645-RS	646-RS				
632-RS	633-RS	634-RS	635-RS	646-RS	TDM-30	THM-30	TSM-30	
642-RS	643-RS	644-RS	645-RS	646-RS				
652-RS	653-RS	654-RS	655-RS	656-RS				
662-RS	663-RS	664-RS	665-RS	666-RS				





# Boiler Tube Expanders

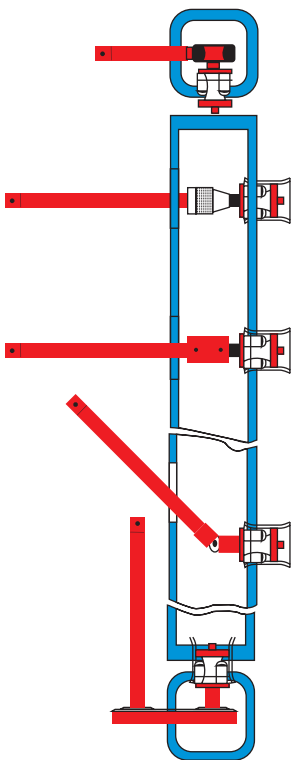
## 'TAF3' Series [Flare]

3 Plain Rollers

3 Flare Rollers

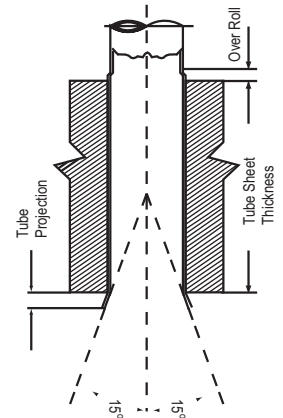
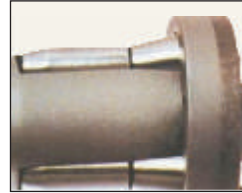
- Offset flare rolls eliminates ridges
- Rolls retained in cage when mandrel is removed

Tritorc offers solutions to overcome any installation problem.



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				
O.D inch	THK bwg	O.D. inch	THK bwg					Tube Sheet Thickness Range				
								1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”
				Tube Sheet Thickness Codes>				2	3	4	5	6
7/8	15	1	10	18.1	0.712	20.4	0.803	TAF3-31/2	TAF3-31/3			
	16			18.4	0.724	20.7	0.814	TAF3-32/2	TAF3-32/3			
	17	1	11	18.8	0.740	21.1	0.830	TAF3-33/2	TAF3-33/3			
	18	1	12	19.4	0.763	21.6	0.850	TAF3-34/2	TAF3-34/3			
	19 - 20	1.1/8	8	19.7	0.775	22.3	0.877	TAF3-35/2	TAF3-35/3			
1	13			20.1	0.791	22.4	0.881	TAF3-36/2	TAF3-36/3			
	14	1.1/8	9	20.6	0.811	23.1	0.909	TAF3-37/2	TAF3-37/3	TAF3-37/4		
	15 - 16	1.1/8	10	21.3	0.838	23.8	0.937	TAF3-38/2	TAF3-38/3	TAF3-38/4		
	17 - 18	1.1/8	11	22.0	0.866	24.5	0.964	TAF3-39/2	TAF3-39/3	TAF3-39/4		
	19 - 20	1.1/8	12	22.4	0.881	25.0	0.984	TAF3-40/2	TAF3-40/3	TAF3-40/4		
1.1/4	8	1.1/8	13	23.3	0.917	25.9	1.019	TAF3-41/2	TAF3-41/3	TAF3-41/4		
	9	1.1/8	14	23.8	0.937	26.5	1.043	TAF3-42/2	TAF3-42/3	TAF3-42/4		
	10	1.1/8	15 - 16	24.4	0.960	27.2	1.070	TAF3-43/2	TAF3-43/3	TAF3-43/4		
	11			25.2	0.992	28.0	1.102	TAF3-44/2	TAF3-44/3	TAF3-44/4		
	12			25.7	1.011	28.5	1.122	TAF3-45/2	TAF3-45/3	TAF3-45/4		
	13	1.3/8	8	26.1	1.027	28.8	1.133	TAF3-46/2	TAF3-46/3	TAF3-46/4		
	14			26.4	1.039	29.2	1.149	TAF3-47/2	TAF3-47/3	TAF3-47/4		
	15	1.3/8	9	26.9	1.059	29.7	1.169	TAF3-48/2	TAF3-48/3	TAF3-48/4		
	16	1.3/8	10	27.6	1.086	30.4	1.196	TAF3-49/2	TAF3-49/3	TAF3-49/4	TAF3-49/5	TAF3-49/6
1.1/2	7	1.3/8	11	28.3	1.114	31.2	1.228	TAF3-50/2	TAF3-50/3	TAF3-50/4	TAF3-50/5	TAF3-50/6
	8	1.3/8	12	28.8	1.133	31.7	1.248	TAF3-51/2	TAF3-51/3	TAF3-51/4	TAF3-51/5	TAF3-51/6
	9	1.3/8	13 - 14	29.5	1.161	33.4	1.134	TAF3-52/2	TAF3-52/3	TAF3-52/4	TAF3-52/5	TAF3-52/6
	10	1.3/8	15 - 16	30.0	1.181	34.1	1.342	TAF3-53/2	TAF3-53/3	TAF3-53/4	TAF3-53/5	TAF3-53/6
	11 - 12			30.6	1.204	34.8	1.370	TAF3-54/2	TAF3-54/3	TAF3-54/4	TAF3-54/5	TAF3-54/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL				
1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”	Drum Type	Header Type	Short Series 5.1/8”	SQ ☒	
2	3	4	5	6				3/8” ☒	
152-F3	153-F3				TDM-11				
152-F3	153-F3				TDM-12				
162-F3	163-F3								
202-F3	203-F3								
172-F3	173-F3				TDM-13				
182-F3	183-F3				TDM-12				
182-F3	183-F3	184-F3			TDM-13	THM-13	TSM-13		
192-F3	193-F3	194-F3							
212-F3	213-F3	214-F3							
212-F3	213-F3	214-F3			TDM-14	THM-14	TSM-14		
222-F3	223-F3	224-F3							
232-F3	233-F3	234-F3			TDM-15	THM-15	TSM-15		1/2” ☒
242-F3	243-F3	244-F3							
262-F3	263-F3	264-F3			TDM-16	THM-16	TSM-16		
272-F3	273-F3	274-F3							
312-F3	313-F3	314-F3							
282-F3	283-F3	284-F3			TDM-17	THM-17	TSM-17		
292-F3	293-F3	294-F3							
302-F3	303-F3	304-F3	305-F3	306-F3					
302-F3	303-F3	304-F3	305-F3	306-F3	TDM-18	THM-18	TSM-18		
322-F3	323-F3	324-F3	325-F3	326-F3					
282-F3	283-F3	284-F3	285-F3	286-F3	TDM-20	THM-20	TSM-20		
292-F3	293-F3	294-F3	295-F3	296-F3					
302-F3	303-F3	304-F3	305-F3	306-F3					



Can be supplied with 1 flare  
and 2 plane rollers

# Boiler Tube Expanders

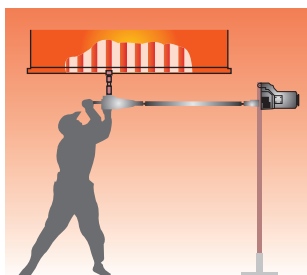
## 'TAF3' Series [Flare]

3 Plain Rollers

3 Flare Rollers

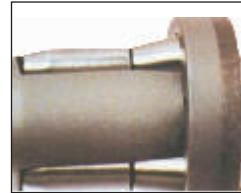
- Offset flare rolls eliminates ridges
- Rolls retained in cage when mandrel is removed

Tritorc offers solutions to overcome any installation problem.

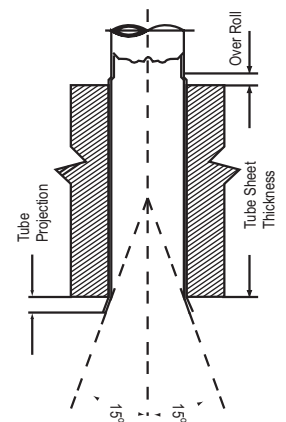


- Drive in conjunction with telescopic shaft coupled to a right angled gear drive makes tube installations easier.

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 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"
				Tube Sheet Thickness Codes >				2	3	4	5	6
1.1/2	13	1.3/4	5	31.4	1.236	35.6	1.401	TAF3-55/2	TAF3-55/3	TAF3-55/4	TAF3-55/5	TAF3-55/6
	14 - 15	1.3/4	6	32.6	1.283	36.8	1.448	TAF3-56/2	TAF3-56/3	TAF3-56/4	TAF3-56/5	TAF3-56/6
		1.3/4	7	33.4	1.314	38.1	1.500	TAF3-57/2	TAF3-57/3	TAF3-57/4	TAF3-57/5	TAF3-57/6
		1.3/4	8	34.2	1.346	38.7	1.523	TAF3-58/2	TAF3-58/3	TAF3-58/4	TAF3-58/5	TAF3-58/6
2	3	1.3/4	9 - 10	35.0	1.377	40.6	1.598	TAF3-59/2	TAF3-59/3	TAF3-59/4	TAF3-59/5	TAF3-59/6
	4	1.3/4	11 - 12	36.6	1.440	42.2	1.661	TAF3-60/2	TAF3-60/3	TAF3-60/4	TAF3-60/5	TAF3-60/6
	5 - 6	1.3/4	13 - 14	38.2	1.503	43.8	1.712	TAF3-61/2	TAF3-61/3	TAF3-61/4	TAF3-61/5	TAF3-61/6
	7 - 8	1.3/4	15 - 16	39.8	1.566	45.4	1.787	TAF3-62/2	TAF3-62/3	TAF3-62/4	TAF3-62/5	TAF3-62/6
	9 - 10	2.1/4	3	41.4	1.629	47.0	1.850	TAF3-63/2	TAF3-63/3	TAF3-63/4	TAF3-63/5	TAF3-63/6
	11 - 13	2.1/4	4	42.9	1.688	49.5	1.948	TAF3-64/2	TAF3-64/3	TAF3-64/4	TAF3-64/5	TAF3-64/6
	14 - 16	2.1/4	6 - 7	44.5	1.751	51.1	2.011	TAF3-65/2	TAF3-65/3	TAF3-65/4	TAF3-65/5	TAF3-65/6
2.1/2	17 - 18	2.1/4	8 - 9	46.1	1.814	52.7	2.074	TAF3-66/2	TAF3-66/3	TAF3-66/4	TAF3-66/5	TAF3-66/6
	3	2.1/4	10 - 11	47.7	1.877	54.3	2.137	TAF3-67/2	TAF3-67/3	TAF3-67/4	TAF3-67/5	TAF3-67/6
	4 - 5	2.1/4	12 - 13	49.3	1.940	55.9	2.200	TAF3-68/2	TAF3-68/3	TAF3-68/4	TAF3-68/5	TAF3-68/6
	6 - 7	2.1/4	14 - 16	50.8	2.200	57.8	2.275	TAF3-69/2	TAF3-69/3	TAF3-69/4	TAF3-69/5	TAF3-69/6
	8 - 9	2.3/4	3	52.4	2.062	59.4	2.338	TAF3-70/2	TAF3-70/3	TAF3-70/4	TAF3-70/5	TAF3-70/6
	10 - 11	2.3/4	4	54.0	2.125	61.0	2.401	TAF3-71/2	TAF3-71/3	TAF3-71/4	TAF3-71/5	TAF3-71/6
	12 - 14	2.3/4	5 - 6	55.6	2.188	64.0	2.519	TAF3-72/2	TAF3-72/3	TAF3-72/4	TAF3-72/5	TAF3-72/6
3	15 - 16	2.3/4	7 - 8	57.2	2.251	65.6	2.582	TAF3-73/2	TAF3-73/3	TAF3-73/4	TAF3-73/5	TAF3-73/6
	3	2.3/4	9 - 10	58.6	2.307	67.0	2.637	TAF3-74/2	TAF3-74/3	TAF3-74/4	TAF3-74/5	TAF3-74/6
	4	2.3/4	11 - 13	60.4	2.377	68.8	2.708	TAF3-75/2	TAF3-75/3	TAF3-75/4	TAF3-75/5	TAF3-75/6
	5 - 6	2.3/4	14 - 16	62.2	2.448	70.4	2.771	TAF3-76/2	TAF3-76/3	TAF3-76/4	TAF3-76/5	TAF3-76/6
	7 - 8			63.6	2.503	72.0	2.834	TAF3-77/2	TAF3-77/3	TAF3-77/4	TAF3-77/5	TAF3-77/6
3	9 - 10	3.1/4	3	65.0	2.559	73.4	2.889	TAF3-78/2	TAF3-78/3	TAF3-78/4	TAF3-78/5	TAF3-78/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range					Drum Type	Header Type	Short Series 5.1/8"	SQ
1/2" to 7/8"	3/4" to 1.1/8"	1.1/8" to 1.5/8"	1.5/8" to 2.1/8"	2.1/8" to 2.5/8"				
2	3	4	5	6				
332-F3	332-F3	334-F3	335-F3	336-F3	TDM-20	THM-20	TSM-20	
342-F3	343-F3	344-F3	345-F3	346-F3	TDM-21	THM-21	TSM-21	1/2" SQ
362-F3	363-F3	364-F3	365-F3	366-F3				
372-F3	373-F3	374-F3	375-F3	376-F3				
332-F3	333-F3	334-F3	335-F3	336-F3	TDM-22	THM-22	TSM-22	
372-F3	373-F3	374-F3	375-F3	376-F3				
382-F3	383-F3	384-F3	385-F3	386-F3				
392-F3	393-F3	394-F3	395-F3	396-F3				
402-F3	403-F3	404-F3	405-F3	406-F3	TDM-23	THM-23	TSM-23	3/4" SQ
402-F3	403-F3	404-F3	405-F3	406-F3				
412-F3	413-F3	414-F3	415-F3	416-F3				
422-F3	423-F3	424-F3	425-F3	426-F3				
432-F3	433-F3	434-F3	435-F3	436-F3	TDM-24	THM-24	TSM-24	
442-F3	443-F3	444-F3	445-F3	446-F3				
432-F3	433-F3	434-F3	435-F3	436-F3				
442-F3	443-F3	444-F3	445-F3	446-F3				
452-F3	453-F3	454-F3	455-F3	456-F3	TDM-25	THM-25	TSM-25	1" SQ
472-F3	473-F3	474-F3	475-F3	476-F3				
462-F3	463-F3	464-F3	465-F3	466-F3				
472-F3	473-F3	474-F3	475-F3	476-F3				
482-F3	483-F3	484-F3	485-F3	486-F3				
492-F3	493-F3	494-F3	495-F3	496-F3				
502-F3	503-F3	504-F3	505-F3	506-F3				
512-F3	513-F3	514-F3	515-F3	516-F3				



# Boiler Tube Expanders

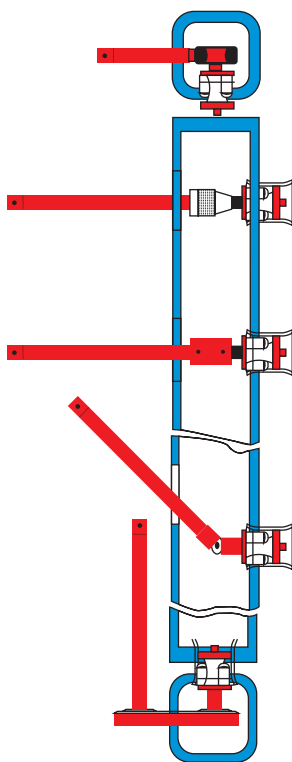
## 'TAF3' Series [Flare]

3 Plain Rollers

3 Flare Rollers

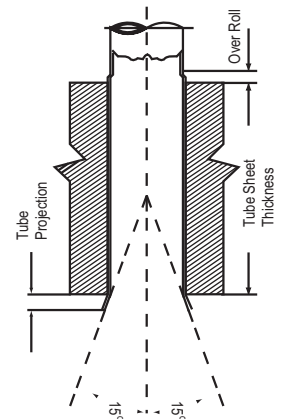
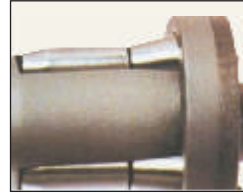
- Offset flare rolls eliminates ridges
- Rolls retained in cage when mandrel is removed

Tritorc offers solutions to overcome any installation problem.



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 7/8"	3/4" to 1 1/8"	1 1/8" to 1 5/8"	1 5/8" to 2 1/8"	2 1/8" to 2 5/8"
				Tube Sheet Thickness Codes >				2	3	4	5	6
3	11 - 13	3.1/4	4	66.6	2.622	75.0	2.952	TAF3-79/2	TAF3-79/3	TAF3-79/4	TAF3-79/5	TAF3-79/6
	14 - 16	3.1/4	5 - 6	68.3	2.688	76.9	3.027	TAF3-80/2	TAF3-80/3	TAF3-80/4	TAF3-80/5	TAF3-80/6
	3.1/2	2 3.1/4	7 - 8	69.9	2.751	78.5	3.090	TAF3-81/2	TAF3-81/3	TAF3-81/4	TAF3-81/5	TAF3-81/6
	3	3.1/4	9 - 10	71.5	2.814	80.1	3.153	TAF3-82/2	TAF3-82/3	TAF3-82/4	TAF3-82/5	TAF3-82/6
	4	3.1/4	11 - 13	73.1	2.877	81.7	3.216	TAF3-83/2	TAF3-83/3	TAF3-83/4	TAF3-83/5	TAF3-83/6
	5 - 6	3.1/4	14 - 16	74.6	2.937	84.2	3.314	TAF3-84/2	TAF3-84/3	TAF3-84/4	TAF3-84/5	TAF3-84/6
	7 - 8	3.3/4	2	76.2	3.000	85.5	3.366	TAF3-85/2	TAF3-85/3	TAF3-85/4	TAF3-85/5	TAF3-85/6
	9 - 11	3.3/4	3	77.8	3.062	87.4	3.440	TAF3-86/2	TAF3-86/3	TAF3-86/4	TAF3-86/5	TAF3-86/6
	12 - 16	3.3/4	4	79.4	3.125	89.0	3.503	TAF3-87/2	TAF3-87/3	TAF3-87/4	TAF3-87/5	TAF3-87/6
		3.3/4	5 - 6	81.0	3.188	90.6	3.566	TAF3-88/2	TAF3-88/3	TAF3-88/4	TAF3-88/5	TAF3-88/6
4	2	3.3/4	7 - 8	82.6	3.251	92.2	3.629	TAF3-89/2	TAF3-89/3	TAF3-89/4	TAF3-89/5	TAF3-89/6
	3	3.3/4	9 - 10	84.2	3.314	93.8	3.692	TAF3-90/2	TAF3-90/3	TAF3-90/4	TAF3-90/5	TA-F390/6
	4	3.3/4	11 - 13	85.8	3.377	96.2	3.787	TAF3-91/2	TAF3-91/3	TAF3-91/4	TAF3-91/5	TAF3-91/6
	5 - 6	3.3/4	14 - 16	87.4	3.440	97.8	3.850	TAF3-92/2	TAF3-92/3	TAF3-92/4	TAF3-92/5	TAF3-92/6
	7 - 8	4.1/4	2	89.0	3.503	99.4	3.913	TAF3-93/2	TAF3-93/3	TAF3-93/4	TAF3-93/5	TAF3-93/6
	9 - 11	4.1/4	3	90.4	3.559	100.8	3.968	TAF3-94/2	TAF3-94/3	TAF3-94/4	TAF3-94/5	TAF3-94/6
	12 - 16	4.1/4	4	92.0	3.622	102.4	4.031	TAF3-95/2	TAF3-95/3	TAF3-95/4	TAF3-95/5	TAF3-95/6
		4.1/4	5 - 6	93.4	3.677	103.8	4.086	TAF3-96/2	TAF3-96/3	TAF3-96/4	TAF3-96/5	TAF3-96/6
4.1/2	2	4.1/4	7 - 8	95.0	3.740	105.4	4.149	TAF3-97/2	TAF3-97/3	TAF3-97/4	TAF3-97/5	TAF3-97/6
	3	4.1/4	9 - 11	96.6	3.803	107.0	4.212	TAF3-98/2	TAF3-98/3	TAF3-98/4	TAF3-98/5	TAF3-98/6
	4 - 5	4.1/4	11 - 13	98.2	3.866	108.6	4.275	TAF3-99/2	TAF3-99/3	TAF3-99/4	TAF3-99/5	TAF3-99/6
	6 - 7			101.2	3.984	110.0	4.330	TAF3-100/2	TAF3-100/3	TAF3-110/4	TAF3-100/5	TAF3-100/6
	8 - 9			102.8	4.047	111.6	4.393	TAF3-101/2	TAF3-101/3	TAF3-101/4	TAF3-101/5	TAF3-101/6
	10 - 12			104.4	4.110	113.2	4.456	TAF3-102/2	TAF3-102/3	TAF3-102/4	TAF3-102/5	TAF3-102/6



SPARE ROLLER SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range								
1/2” to 7/8”	3/4” to 1.1/8”	1.1/8” to 1.5/8”	1.5/8” to 2.1/8”	2.1/8” to 2.5/8”	Drum Type	Header Type	Short Series 5.1/8”	SQ ☐
2	3	4	5	6				
522-F3	523-F3	524-F3	525-F3	526-F3	TDM-25	THM-25	TSM-25	1” ☐
512-F3	513-F3	514-F3	515-F3	516-F3				
522-F3	523-F3	524-F3	525-F3	526-F3	TDM-26	THM-26	TSM-26	
532-F3	533-F3	534-F3	535-F3	536-F3				
542-F3	543-F3	544-F3	545-F3	546-F3				
542-F3	543-F3	544-F3	545-F3	546-F3	TDM-27	THM-27	TSM-27	
552-F3	553-F3	554-F3	555-F3	556-F3				
562-F3	563-F3	564-F3	565-F3	566-F3				
572-F3	573-F3	574-F3	575-F3	576-F3				
582-F3	583-F3	584-F3	585-F3	586-F3				
592-F3	593-F3	594-F3	595-F3	596-F3				
602-F3	603-F3	604-F3	605-F3	606-F3	TDM-28	THM-28	TSM-28	
592-F3	593-F3	594-F3	595-F3	596-F3				
602-F3	603-F3	604-F3	605-F3	606-F3				
612-F3	613-F3	614-F3	615-F3	616-F3				
622-F3	623-F3	624-F3	625-F3	626-F3				
632-F3	633-F3	634-F3	635-F3	636-F3	TDM-29	THM-29	TSM-29	
622-F3	623-F3	624-F3	625-F3	626-F3				
632-F3	633-F3	634-F3	635-F3	636-F3				
642-F3	643-F3	644-F3	645-F3	646-F3	TDM-30	THM-30	TSM-30	
632-F3	633-F3	634-F3	635-F3	636-F3				
642-F3	643-F3	644-F3	645-F3	646-F3				
652-F3	653-F3	654-F3	655-F3	656-F3				
662-F3	663-F3	664-F3	665-F3	666-F3				



# Boiler Tube Expander

## 'T - 1000' Series [Flare]

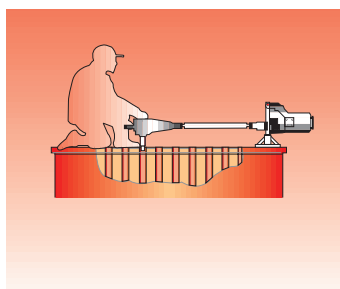
3 Plain Rollers

3 Flare Rollers

❑ Most ideal for inaccessible areas

- Water boxes
- Small diameter drums

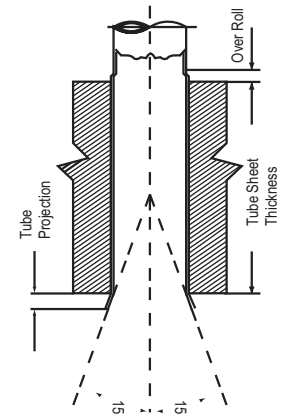
Tritorc believes in offering solutions to overcome any installation problem.



One of our drive systems helps overcome a problem caused by a difficult access...

- ❑ Reduces operator fatigue
- ❑ Ensures operator safety
- ❑ Increases productivity
- ❑ Maintains consistent accuracy

TUBE SIZE				Min I.D. Tool Enters		Max Expansion of Tool		TUBE EXPANDER MODEL				
O.D inch	THK bwg	O.D. inch	THK bwg					Tube Sheet Thickness Range				
								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			19.7	0.775	23.4	0.921	T1079/3	T1079/5			
	15 - 16			20.7	0.814	24.4	0.961	T1083/3	T1083/5			
1.1/4	7			21.7	0.854	25.5	1.004	T1087/3	T1087/5			
	8 - 9			22.7	0.893	26.5	1.043	T1091/3	T1091/5			
	10			23.7	0.933	28.1	1.105	T1095/3	T1095/5			
	11-13			24.7	0.972	29.0	1.142	T1099/3	T1099/5			
	14 - 15			25.7	1.011	30.0	1.181	T1103/3	T1103/5			
	16			27.8	1.094	33.0	1.299	T1111/3	T1111/5			
1.1/2	10-12			30.7	1.280	35.0	1.378	T1118/3	T1118/5			
	13-16			32.7	1.287	38.0	1.496	T1126/3	T1126/5			
1.3/4	8-9	2	3	34.7	1.366	40.0	1.575	T1134/3	T1134/5	T1134/7	T1134/9	T1134/11
	10 - 12	2	4 - 5	36.7	1.444	42.5	1.673	T1142/3	T1142/5	T1142/7	T1142/9	T1142/11
	13 - 16	2	6	38.7	1.523	44.5	1.752	T1150/3	T1150/5	T1150/7	T1150/9	T1150/11
2	7 - 9	2.1/4	6	40.7	1.602	47.0	1.850	T1158/3	T1158/5	T1158/7	T1158/9	T1158/11
	10-12	2.1/4	4 - 5	42.7	1.681	49.0	1.929	T1166/3	T1166/5	T1166/7	T1166/9	T1166/11
	13-16	2.1/4	6	44.7	1.760	51.5	2.027	T1174/3	T1174/5	T1174/7	T1174/9	T1174/11
	16	2.1/2	3	46.7	1.838	54.0	2.126	T1181/3	T1181/5	T1182/7	T1182/9	T1182/11
2.1/4	10 - 13	2.1/2	4 - 5	48.7	1.917	56.0	2.205	T1189/3	T1189/5	T1189/7	T1189/9	T1189/11
	14 - 16	2.1/2	6	50.7	1.996	60.0	2.362	T1197/3	T1197/5	T1197/7	T1197/9	T1197/11
2.1/2	7-10			52.7	2.074	62.0	2.441	T1205/3	T1205/5	T1205/7	T1205/9	T1205/11
	11-13	3	2	54.7	2.135	64.0	2.520	T1213/3	T1213/5	T1213/7	T1213/9	T1213/11
	14-16			56.7	2.323	66.0	2.598	T1221/3	T1221/5	T1221/7	T1221/9	T1221/11



SPARE ROLLERS SET MODEL					SPARE MANDREL MODEL			
Tube Sheet Thickness Range								
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”	Drum Type	Short Series Mandrels		
3	5	7	9	11				
0793-FS	0795-FS				TMP-83			
0833-FS	0835-FS							
0873-FS	0875-FS				TMP-91		<div>1/2”</div> <div></div>	
0953-FS	0955-FS							
0953-FS	0955-FS				TMP-99			
0993-FS	0995-FS							
1033-FS	1035-FS							
1113-FS	1115-FS				TMP-118	TMPS-1,2,3		
1183-FS	1185-FS					TMPS-1,2,3		
1263-FS	1265-FS				TMP-126	TMPS-2,3,4		
1263-FS	1265-FS	1267-FS	1269-FS	12611-FS	TMP-134	TMPS-3,4,5		
1423-FS	1425-FS	1427-FS	1429-FS	14211-FS	TMP-150	TMPS-3,4,5,6	<div>3/4”</div> <div></div>	
1503-FS	1505-FS	1507-FS	1509-FS	15011-FS				
1583-FS	1585-FS	1587-FS	1589-FS	15811-FS	TMP-174	TMPS-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	TMP-197	TMPS-7,8,9,10,11		<div>1”</div> <div></div>
1743-FS	1745-FS	1747-FS	1749-FS	17411-FS				
2053-FS	2055-FS	2057-FS	2059-FS	20511-FS		TMPS-6,7,8,9,10,11		
2053-FS	2055-FS	2057-FS	2059-FS	20511-FS	TMP-221	TMPS-7,8,9,10,11,12	<div></div>	
2133-FS	2135-FS	2137-FS	2139-FS	21311-FS		TMPS-7,8,9,10,11,12		
2213-FS	2215-FS	2217-FS	2219-FS	22111-FS		TMPS-7,8,9,10,11,12		





# Boiler Tube Expander

## 'T - 1000' Series [Flare]

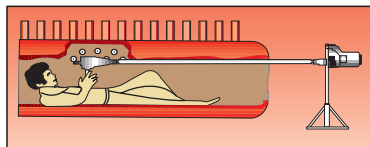
3 Plain Rollers

3 Flare Rollers

❑ Most ideal for inaccessible areas

- Water boxes
- Small diameter drums

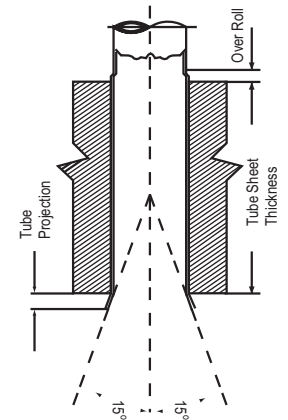
Tritorc offers solutions to overcome any installation problem.



A typical example of an inaccessible area where Tritorc drive system ensures...

- ❑ Reduces operator fatigue
- ❑ Operator safety
- ❑ Increases productivity
- ❑ Better accessibility

TUBE SIZE				Min I.D. Tool Enters  mm    inch		Max Expansion of Tool  mm    inch		TUBE EXPANDER MODEL				
O.D inch	THK bwg	O.D. inch	THK bwg					Tube Sheet Thickness Range				
								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			58.7	2.311	68.0	2.677	T1229/3	T1229/5	T1229/7	T1229/9	T1229/11
	10 - 12			60.7	2.389	70.0	2.756	T1237/3	T1237/5	T1237/7	T1237/9	T1237/11
	13 - 16			62.7	2.468	72.0	2.835	T1244/3	T1244/5	T1244/7	T1244/9	T1244/11
3	7 - 8			64.7	2.547	74.0	2.913	T1252/3	T1252/5	T1252/7	T1252/9	T1252/11
	10 - 12			66.7	2.625	76.0	2.992	T1260/3	T1260/5	T1260/7	T1260/9	T1260/11
	13 - 14			68.7	2.704	78.0	3.071	T1268/3	T1268/5	T1268/7	T1268/9	T1268/11
	15 - 16			70.7	2.783	80.0	3.150	T1276/3	T1276/5	T1276/7	T1276/9	T1276/11
3.1/4	7 - 11			72.7	2.862	82.0	3.228	T1284/3	T1284/5	T1284/7	T1284/9	T1284/11
	12 - 14			74.7	2.940	84.0	3.307	T1292/3	T1292/5	T1292/7	T1292/9	T1292/11
	15 - 16	3.1/2	7 - 9	76.6	3.019	86.0	3.386	T1300/3	T1300/5	T1300/7	T1300/9	T1300/11
3.1/2	10 - 12			78.7	3.098	88.0	3.465	T1308/8	T1308/5	T1308/7	T1308/9	T1308/11
	13 - 15			80.7	3.177	92.0	3.622	T1315/3	T1315/5	T1315/7	T1315/9	T1315/11
	16	3.3/4	7 - 8	82.7	3.255	94.0	3.701	T1323/3	T1323/5	T1323/7	T1323/9	T1323/11
3.3/4	9 - 12			84.7	3.334	96.0	3.780	T1331/3	T1331/5	T1331/7	T1331/9	T1331/11
	13 - 16			86.7	3.413	98.0	3.858	T1339/3	T1339/5	T1339/7	T1339/9	T1339/11
4	7 - 8			88.7	3.492	100.0	3.937	T1347/3	T1347/5	T1347/7	T1347/9	T1347/11
	9 - 12			90.7	3.507	102.0	4.016	T1355/3	T1355/5	T1355/7	T1355/9	T1355/11
	13 - 15			92.7	3.649	104.0	4.094	T1363/3	T1363/5	T1363/7	T1363/9	T1363/11
	16	4.1/4	7 - 8	94.7	3.728	106.0	4.173	T1370/3	T1370/5	T1370/7	T1370/9	T1370/11
4.1/4	9 - 11			96.7	3.807	108.0	4.252	T1378/3	T1378/5	T1378/7	T1378/9	T1378/11
	12 - 16			98.7	3.885	110.0	4.331	T1386/3	T1386/5	T1386/7	T1386/9	T1386/11
	7 - 14			100.7	3.964	111.0	4.407	T1394/3	T1394/5	T1394/7	T1394/9	T1394/11



SPARE ROLLERS SET MODEL					SPARE MANDREL MODEL		
Tube Sheet Thickness Range							
1/2” to 7/8”	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”	Drum Type	Short Series Mandrels	
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			

1"



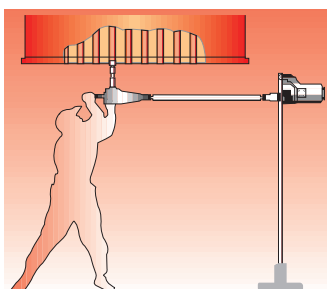
# Boiler Tube Expander

**'T - 3000' Series** [Flare]

**3 Plain Rollers**

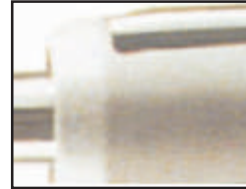
- ❑ More durable components
- ❑ Extended service life
- ❑ In built thrust bearing
- ❑ Heavy duty application

Tritorc offers solutions to overcome any installation problem.



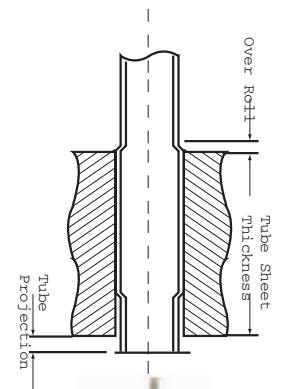
Our drive systems are designed to overcome any challenge posed by installation areas at any site

TUBE SIZE				Min I.D. Tool  Enters  mm    inch		Max Expansion of  Tool  mm    inch		TUBE EXPANDER MODEL	
O.D inch	THK bwg	O.D. inch	THK bwg					Tube Sheet Thickness Range	
								1/2" to 4.3/8"	3/4" to 5.3/8"
Tube Sheet Thickness Codes >								7	11
1.1/4	16			28.1	1.105	33.0	1.299	T3111/7	
1.1/2	10 - 12			31.0	1.221	35.0	1.378	T3118/7	
	13 - 16			33.0	1.300	38.0	1.496	T3126/7	
1.3/4	8 - 9	2	3	35.0	1.379	40.0	1.575	T3134/7	T3134/11
	10 - 12	2	4 - 5	37.0	1.457	42.5	1.673	T3142/7	T3142/11
	13 - 16	2	6	39.0	1.536	44.5	1.752	T3150/7	T3150/11
2	7 - 9	2.1/4	3	41.0	1.615	47.0	1.850	T3158/7	T3158/11
	10 - 12	2.1/4	4 - 5	43.0	1.694	49.0	1.929	T3166/7	T3166/11
	13 - 16	2.1/4	6	45.0	1.772	51.5	2.027	T3174/7	T3174/11
	16	2.1/2	3	47.0	1.851	54.0	2.126	T3181/7	T3181/11
2.1/4	10 - 13	2.1/2	4 - 5	49.0	1.930	56.0	2.205	T3189/7	T3189/11
	14 - 16	2.1/2	6	51.0	2.009	60.0	2.362	T3197/7	T3197/11
2.1/2	7 - 10			53.0	2.087	62.0	2.441	T3205/7	T3205/11
	11 - 13	3	2	55.0	2.116	64.0	2.520	T3213/7	T3213/11
	14 - 16			57.0	2.245	66.0	2.598	T3221/7	T3221/11
2.3/4	7 - 9			59.0	2.323	68.0	2.677	T3229/7	T3229/11
	10 - 12			61.0	2.402	70.0	2.756	T3237/7	T3237/11
	13 - 16			63.0	2.481	72.0	2.835	T3244/7	T3244/11



SPARE ROLLERS SET MODEL			SPARE MANDREL MODEL	
Tube Sheet Thickness Range				
1/2” to 4.3/8”	1.1/2” to 5.3/8”	Drum Type	Short Series Mandrel	
7	11	< Tube Sheet Thickness Codes		
1117-RS		TM-118	TMS-1,2,3	3/4” ☐
1187-RS				
1267-RS			TMS-2,3,4	
1267-RS	12611-RS	TM-150	TMS-3,4,5	
1427-RS	14211-RS		TMS-3,4,5,6	
1507-RS	15011-RS			
1587-RS	15811-RS	TM-175	TMS-4,5,6,7,8	1” ☐
1667-RS	16611-RS			
1747-RS	17411-RS			
1817-RS	18111-RS	TM-197	TMS-7,8,9,10,11,12	
1747-RS	17411-RS			
2057-RS	20511-RS		TMS-6,7,8,9,10,11,12	
2057-RS	20511-RS	TM-221	TMS-7,8,9,10,11,12	1” ☐
2137-RS	21311-RS			
2217-RS	22111-RS			
2217-RS	22111-RS	TM-244	TMS-8,9,10,11,12,13	
2377-RS	23711-RS			
2527-RS	25211-RS			

**Note:** 3000 B Series Expander can be supplied with 3" Shorter Mandrel for easy accessibility to limited access area.



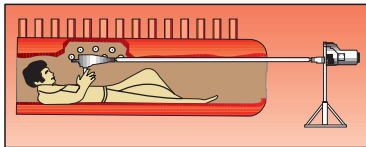
# Boiler Tube Expander

**'T - 3000' Series** [Flare]

**3 Plain Rollers**

- ❑ More durable components
- ❑ Extended service life
- ❑ In built thrust bearing
- ❑ Heavy duty application

Tritorc offers solutions to overcome any installation problem.

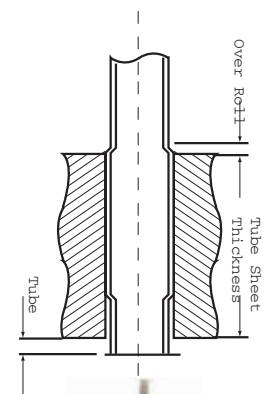


Typical example of solution oriented approach

TUBE SIZE				Min I.D. Tool Enters		Max Expansion of Tool		TUBE EXPANDER MODEL	
O.D. inch	THK bwg.	O.D. inch	THK bwg					Tube Sheet Thickness Range	
								1/2” to 4.3/8”	3/4” to 5.3/8”
Tube Sheet Thcnness Codes >								7	11
3	7 - 8			65.0	2.560	74.0	2.913	T3252/7	T3252/11
	10 - 12			67.0	2.638	76.0	2.992	T3260/7	T3260/11
	13 - 14			69.0	2.717	78.0	3.071	T3268/7	T3268/11
	15 - 16			71.0	2.796	80.0	3.150	T3276/7	T3276/11
3.1/4	7 - 11			73.0	2.874	82.0	3.228	T3284/7	T3284/11
	12 - 14			75.0	2.953	84.0	3.307	T3292/7	T3292/11
	15 - 16	3.1/2	7 - 9	77.0	3.032	86.0	3.386	T3300/7	T3300/11
3.1/2	10 - 12			79.0	3.111	88.0	3.465	T3308/7	T3308/11
	13 - 15			81.0	3.190	92.0	3.622	T3315/7	T3315/11
	16	3.3/4	7 - 8	83.0	3.218	94.0	3.701	T3323/7	T3323/11
3.3/4	9 - 12			85.0	3.347	96.0	3.780	T3331/7	T3331/11
	13 - 16			87.0	3.426	98.0	3.858	T3339/7	T3339/11
4	7 - 8			89.0	3.505	100.0	3.937	T3347/7	T3347/11
	9 - 12			91.0	3.583	102.0	4.016	T3355/7	T3355/11
	13 - 15			93.0	3.662	104.0	4.094	T3363/7	T3363/11
	16	4.1/4	7 - 8	95.0	3.741	106.0	4.173	T3370/7	T3370/11
4.1/4	9 - 11			97.0	3.820	108.0	4.252	T3378/7	T3378/11
	12 - 16			99.0	3.898	110.0	4.331	T3386/7	T3386/11
	7 - 14			101.0	3.997	111.0	4.407	T3394/7	T3394/11



SPARE ROLLERS SET MODEL			SPARE MANDREL MODEL		
Tube Sheet Thickness Range					
1/2” to 4.3/8	1.1/2” to 5.3/8	Drum Type	Short Series Mandrel		
7	11	< Tube Sheet Thickness Codes			
2527-RS	25211-RS	TM-268	TMS-10, 11, 12, 13, 14		1” ☐
2607-RS	26011-RS				
2687-RS	26811-RS				
2767-RS	27611-RS	TM-300			
2847-RS	28411-RS		TMS-12, 13, 14, 15, 16		
2927-RS	29211-RS				
3157-RS	31511-RS				
2847-RS	28411-RS	TM-347	TMS-15, 16, 17, 18, 19		
3157-RS	31511-RS		TMS-14, 15, 16, 17, 18, 19		
3237-RS	32311-RS				
3317-RS	33111-RS				
3557-RS	35511-RS				
3637-RS	36311-RS	TM-394	TMS-17, 18, 19, 20, 21		
3557-RS	35511-RS				
3637-RS	36311-RS				
3707-RS	37011-RS				
3787-RS	37811-RS				
3867-RS	38611-RS				
3947-RS	39411-RS				



**Note:** 3000 Series Expander can also be supplied with 3" shorter mandrel for easy accessibility to limited access areas and is no menclatured as 3000B Series.