

800 Series

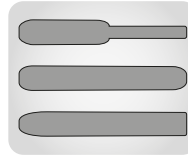
Tools for expanding tubes in condensers, chillers, heat exchangers, fin fan coolers, feedwater heaters and surface condensers. As a standard expanders are supplied with STC collar. Available in regular and long reaches and as the 5-rolls version for rolling thin walls. Many different shaped rolls are available.



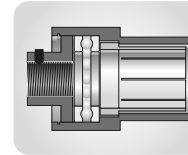
WORKING RANGE

TUBE ID	TUBE OD	TUBE SHEET
8,48 - 26,9 mm	12,7 - 38,1 MM	12,7 - 57,1 MM
0,334" - 1,027"	1/2" to 1-1/2"	1/2" to 2-1/4"

OPTIONAL SPARES AND ACCESSORIES



ROLLS ON REQUEST
→ PAGE 11



THRUST COLLARS
→ PAGE 10



ROLLING MOTORS
→ CHAPTER PAGE 44

TUBE OD		TUBE GAUGE		TUBE ID		EXPANSION RANGE				TUBE SHEET THICKNESS				MANDREL	MANDREL SQUARE		PNEUMATIC MOTOR *	ELECTRIC MOTOR *	
										1/2 TO 1-1/2"		1-1/4 TO 2-1/4"			[INCH]	[MM]			[INCH]
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]	MIN	MAX	MIN	MAX	TOOL NO.	ROLL NO.	TOOL NO.	ROLL NO.					
3/8	9,5	22-24	0,027	0,71	0,314	8,00	0,307	0,358	7,80	9,10	795	795	-	-	795	3/8	9,5		
1/2	12,7	14	0,083	2,11	0,334	8,48	0,324	0,374	8,23	9,50	797	797	-	-	797	3/8	9,5	K20-500	TES300 S1500 or TESMini2 HT0
		15	0,072	1,83	0,356	9,04	0,348	0,398	8,84	10,11	799	R-1	-	-	799	3/8	9,5		
		16	0,065	1,65	0,370	9,40	0,36	0,410	9,14	10,41	801	R-1	-	-	M-1	3/8	9,5		
		17	0,058	1,47	0,384	9,75	0,374	0,424	9,50	10,77	803	R-2	-	-	M-1	3/8	9,5		
		18	0,049	1,24	0,402	10,21	0,392	0,447	9,96	11,35	805	R-3	-	-	M-2	3/8	9,5		
5/8	15,8	12	0,109	2,77	0,407	10,34	0,392	0,447	9,96	11,35	805	R-3	-	-	M-2	3/8	9,5	K50-600	TES3000 G1450 or TesMini2 ES2
		13	0,095	2,41	0,435	11,05	0,425	0,480	10,80	12,19	807	R-4	-	-	M-3	3/8	9,5		
		14	0,083	2,11	0,459	11,66	0,449	0,509	11,40	12,93	809	R-4	810	R-4-A	M-4	3/8	9,5		
		15	0,072	1,83	0,481	12,22	0,471	0,536	11,96	13,61	811	R-5	812	R-5-A	M-5	3/8	9,5		
		16	0,065	1,65	0,495	12,57	0,485	0,550	12,32	13,97	813	R-6	814	R-6-A	M-5	3/8	9,5		
		17	0,058	1,47	0,509	12,93	0,499	0,564	12,67	14,33	815	R-6	816	R-6-A	M-6	3/8	9,5		
		18	0,049	1,24	0,527	13,39	0,517	0,572	13,13	14,53	817	R-7	818	R-7-A	M-7 M-5	3/8	9,5		
		19	0,042	1,07	0,541	13,74	0,522	0,582	13,26	14,78	819	R-7	820	R-7-A	M-6	3/8	9,5		
		20	0,035	0,89	0,555	14,10	0,536	0,596	13,61	15,14	819[S]	R-7	820[S]	R-7-A	M-8	3/8	9,5		
		21	0,032	0,81	0,561	14,25	0,536	0,596	13,61	15,14	819[S]	R-7	820[S]	R-7-A	M-8	3/8	9,5		
22	0,028	0,71	0,569	14,45	0,536	0,596	13,61	15,14	819[S]	R-7	820[S]	R-7-A	M-8	3/8	9,5				
3/4	19	10	0,134	3,40	0,482	12,24	0,471	0,536	11,96	13,61	811	R-5	812	R-5-A	M-5	3/8	9,5	K60-900	TES3000 + G1000 TESMini2 +ES2
		11	0,120	3,05	0,510	12,95	0,499	0,564	12,67	14,33	815	R-6	816	R-6-A	M-6	3/8	9,5		
		12	0,109	2,77	0,532	13,51	0,522	0,582	13,26	14,78	819	R-7	820	R-7-A	M-6	3/8	9,5		
		13	0,095	2,41	0,560	14,22	0,550	0,615	13,97	15,62	821	R-8	822	R-8-A	M-8	3/8	9,5		
		14	0,083	2,11	0,584	14,83	0,574	0,639	14,58	16,23	823	R-9	824	R-9-A	M-8	3/8	9,5		
		15	0,072	1,83	0,606	15,39	0,596	0,661	15,14	16,79	825	R-10	826	R-10-A	M-8	3/8	9,5		
		16	0,065	1,65	0,620	15,75	0,605	0,685	15,37	17,40	827	R-10	828	R-10-A	M-9	3/8	9,5		
		17	0,058	1,47	0,634	16,10	0,619	0,699	15,72	17,75	829	R-11	830	R-11-A	M-9	3/8	9,5		
		18	0,049	1,24	0,652	16,56	0,619	0,699	15,72	17,75	829	R-11	830	R-11-A	M-9	3/8	9,5		
		19	0,042	1,07	0,666	16,92	0,642	0,722	16,31	18,34	831	R-12	832	R-12-A	M-9	3/8	9,5		
		20	0,035	0,89	0,680	17,27	0,642	0,722	16,31	18,34	831	R-12	832	R-12-A	M-9	3/8	9,5		
		21	0,032	0,81	0,686	17,42	0,642	0,722	16,31	18,34	831	R-12	832	R-12-A	M-9	3/8	9,5		
22	0,028	0,71	0,694	17,63	0,642	0,722	16,31	18,34	831	R-12	832	R-12-A	M-9	3/8	9,5				

800 Series

TUBE OD		TUBE GAUGE			TUBE ID		EXPANSION RANGE				TUBE SHEET THICKNESS				MANDREL	MANDREL SQUARE		PNEUMATIC MOTOR *	ELECTRIC MOTOR *
											1/2 TO 1-1/2"		1-1/4 TO 2-1/4"						
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]	MIN	MAX	MIN	MAX	TOOL NO.	ROLL NO.	TOOL NO.	ROLL NO.	[INCH]	[MM]			
7/8	22,2	10	0,134	3,40	0,607	15,42	0,596	0,661	15,14	16,79	825	R-10	826	R-10-A	M-8	3/8	9,5	K50-400	TES3000 G1000 or TESMini2 ES2
		11	0,120	3,05	0,635	16,13	0,619	0,699	15,72	17,75	829	R-11	830	R-11-A	M-9	3/8	9,5		
		12	0,109	2,77	0,657	16,69	0,642	0,722	16,31	18,34	831	R-12	832	R-12-A	M-9	3/8	9,5	K50-600	
		13	0,095	2,41	0,685	17,40	0,670	0,750	17,02	19,05	833	R-13	834	R-13-A	M-10	3/8	9,5		
		14	0,083	2,11	0,709	18,01	0,685	0,774	17,40	19,66	835	R-14	836	R-14-A	M-11	3/8	9,5	K50-1250	
		15	0,072	1,83	0,731	18,57	0,712	0,801	18,08	20,35	837	R-15	838	R-15-A	M-11	3/8	9,5		
		16	0,065	1,65	0,745	18,92	0,726	0,815	18,44	20,70	839	R-15	840	R-15-A	M-12	3/8	9,5	K50-1250	
		17	0,058	1,47	0,759	19,28	0,740	0,829	18,80	21,06	843	R-16	844	R-16-A	M-12	3/8	9,5		
1	25,4	8	0,165	4,19	0,670	17,02	0,655	0,735	16,64	18,67	841	R-13	842	R-13-A	M-9	3/8	9,5	K60-400	TES3000 G1000 or TESMini2 ES2
		9	0,148	3,76	0,704	17,88	0,685	0,774	17,40	19,66	835	R-14	836	R-14-A	M-11	3/8	9,5		
		10	0,134	3,40	0,732	18,59	0,712	0,801	18,08	20,35	837	R-15	838	R-15-A	M-11	3/8	9,5	K50-400	
		11	0,120	3,05	0,760	19,30	0,740	0,829	18,80	21,06	843	R-16	844	R-16-A	M-12	3/8	9,5		
		12	0,109	2,77	0,782	19,86	0,763	0,852	19,38	21,64	845	R-17	846	R-17-A	M-12	3/8	9,5	K50-600	
		13	0,095	2,41	0,810	20,57	0,791	0,880	20,09	22,35	847	R-18	848	R-18-A	M-12	3/8	9,5		
		14	0,083	2,11	0,834	21,18	0,810	0,909	20,57	23,09	849	R-18	850	R-18-A	M-13	3/8	9,5	K50-600	
		15	0,072	1,83	0,856	21,74	0,837	0,936	21,26	23,77	851	R-19	852	R-19-A	M-13	3/8	9,5		
		16	0,065	1,65	0,870	22,10	0,837	0,936	21,26	23,77	851	R-19	852	R-19-A	M-13	3/8	9,5	K50-600	
		17	0,058	1,47	0,884	22,45	0,865	0,964	21,97	24,49	855	R-21	856	R-21-A	M-13	3/8	9,5		
		18	0,049	1,24	0,902	22,91	0,865	0,964	21,97	24,49	855	R-21	856	R-21-A	M-13	3/8	9,5	K50-600	
		19	0,042	1,07	0,916	23,27	0,865	0,964	21,97	24,49	855	R-21	856	R-21-A	M-13	3/8	9,5		
20	0,035	0,89	0,930	23,62	0,865	0,964	21,97	24,49	855	R-21	856	R-21-A	M-13	3/8	9,5	K50-600			
8	0,165	4,19	0,795	20,19	0,776	0,875	19,71	22,23	853	R-20	854	R-20-A	M-13	3/8	9,5				
1-1/8	28,5	9	0,148	3,76	0,829	21,06	0,810	0,909	20,57	23,09	849	R-18	850	R-18-A	M-13	3/8	9,5	K60-400	TES3000 G1000 or TESMini2 DU1
		10	0,134	3,40	0,857	21,77	0,837	0,936	21,26	23,77	851	R-19	852	R-19-A	M-13	3/8	9,5		
		11	0,120	3,05	0,885	22,48	0,865	0,964	21,97	24,49	855	R-21	856	R-21-A	M-13	3/8	9,5	K60-400	
		12	0,109	2,77	0,907	23,04	0,883	0,982	22,43	24,94	857	R-21	858	R-21-A	M-14	1/2	12,7		
		13	0,095	2,41	0,935	23,75	0,916	1,015	23,27	25,78	859	R-22	860	R-22-A	M-14	1/2	12,7	K60-400	
		14	0,083	2,11	0,959	24,36	0,935	1,044	23,75	26,52	861	R-23	862	R-23-A	M-15	1/2	12,7		
		15	0,072	1,83	0,981	24,92	0,962	1,071	24,43	27,20	863	R-24	864	R-24-A	M-15	1/2	12,7	K60-400	
		16	0,065	1,65	0,995	25,27	0,962	1,071	24,43	27,20	863	R-24	864	R-24-A	M-15	1/2	12,7		
		17	0,058	1,47	1,009	25,63	0,990	1,099	25,15	27,91	867	R-26	868	R-26-A	M-16	1/2	12,7	K60-400	
		18	0,049	1,24	1,027	26,09	0,990	1,099	25,15	27,91	867	R-26	868	R-26-A	M-16	1/2	12,7		
1-1/4	31,7	8	0,165	4,19	0,92	23,37	0,901	1,010	22,89	25,65	865	R-25	866	R-25-A	M-15	1/2	12,7	K60-400	TES3000 G1000 or TESMini2 DU1
		9	0,148	3,76	0,954	24,23	0,935	1,044	23,75	26,52	861	R-23	862	R-23-A	M-15	1/2	12,7		
		10	0,134	3,40	0,982	24,94	0,962	1,071	24,43	27,20	863	R-24	864	R-24-A	M-15	1/2	12,7	K60-400	
		11	0,120	3,05	1,010	25,65	0,990	1,099	25,15	27,91	867	R-26	868	R-26-A	M-16	1/2	12,7		
		12	0,109	2,77	1,032	26,21	1,013	1,122	25,73	28,50	869	R-27	870	R-27-A	M-16	1/2	12,7	K60-400	
		13	0,095	2,41	1,060	26,92	1,041	1,150	26,44	29,21	871	R-28	872	R-28-A	M-17	1/2	12,7		
		14	0,083	2,11	1,084	27,53	1,060	1,169	26,92	29,69	873	R-29	874	R-29-A	M-17	1/2	12,7	K60-400	
		15	0,072	1,83	1,106	28,09	1,087	1,196	27,61	30,38	875	R-30	876	R-30-A	M-17	1/2	12,7		
		16	0,065	1,65	1,12	28,45	1,087	1,196	27,61	30,38	875	R-30	876	R-30-A	M-17	1/2	12,7	K60-400	
		17	0,058	1,47	1,134	28,80	1,115	1,224	28,32	31,09	879	R-30	880	R-30-A	M-18	1/2	12,7		
18	0,049	1,24	1,152	29,26	1,115	1,224	28,32	31,09	879	R-30	880	R-30-A	M-18	1/2	12,7	K60-400			

800 Series

TUBE OD		TUBE GAUGE		TUBE ID		EXPANSION RANGE				TUBE SHEET THICKNESS				MANDREL	MANDREL SQUARE		PNEUMATIC MOTOR *	ELECTRIC MOTOR **			
										1/2 TO 1-1/2"		1-1/4 TO 2-1/4"									
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]	MIN	MAX	MIN	MAX	TOOL NO.	ROLL NO.	TOOL NO.	ROLL NO.	[INCH]	[MM]					
1-3/8	34,9	8	0,165	4,19	1,045	26,54	1,026	1,135	26,06	28,83	877	R-31	878	R-31-A	M-17	1/2	12,7	K60-250	TES3000 G400 or TESMini2 DU1		
		9	0,148	3,76	1,079	27,41	1,060	1,169	26,92	29,69	873	R-29	874	R-29-A	M-17	1/2	12,7				
		10	0,134	3,40	1,107	28,12	1,087	1,196	27,61	30,38	875	R-30	876	R-30-A	M-17	1/2	12,7				
		11	0,120	3,05	1,135	28,83	1,115	1,224	28,32	31,09	879	R-30	880	R-30-A	M-18	1/2	12,7				
		12	0,109	2,77	1,157	29,39	1,133	1,242	28,78	31,55	881	R-32	882	R-32-A	M-18	1/2	12,7	K60-400			
		13	0,095	2,41	1,185	30,10	1,160	1,275	29,46	32,39	883	R-33	884	R-33-A	M-19	1/2	12,7				
		14	0,083	2,11	1,209	30,71	1,179	1,294	29,95	32,87	885	R-34	886	R-34-A	M-20	1/2	12,7				
		15	0,072	1,83	1,231	31,27	1,206	1,321	30,63	33,55	887	R-35	888	R-35-A	M-20	1/2	12,7				
		16	0,065	1,65	1,245	31,62	1,206	1,321	30,63	33,55	887	R-35	888	R-35-A	M-20	1/2	12,7				
1-1/2	38,1	8	0,165	4,19	1,170	29,72	1,145	1,260	29,08	32,00	889	R-34	890	R-34-A	M-19	1/2	12,7	K60-250	TES3000 G400 or TESMini2 DU1		
		9	0,148	3,76	1,204	30,58	1,179	1,294	29,95	32,87	885	R-34	886	R-34-A	M-20	1/2	12,7				
		10	0,134	3,40	1,232	31,29	1,206	1,321	30,63	33,55	887	R-35	888	R-35-A	M-20	1/2	12,7				
		11	0,120	3,05	1,260	32,00	1,235	1,350	31,37	34,29	891	R-36	892	R-36-A	M-20	1/2	12,7				
		12	0,109	2,77	1,282	32,56	1,257	1,372	31,93	34,85	893	R-37	894	R-37-A	M-20	1/2	12,7	K60-400			
		13	0,095	2,41	1,310	33,27	1,285	1,400	32,64	35,56	895	R-37	896	R-37-A	M-21	1/2	12,7				
		14	0,083	2,11	1,334	33,88	1,285	1,400	32,64	35,56	895	R-37	896	R-37-A	M-21	1/2	12,7				
		15	0,072	1,83	1,356	34,44	1,331	1,446	33,81	36,73	897	R-38	898	R-38-A	M-21	1/2	12,7				
				16	0,065	1,65	1,370	34,80	1,331	1,446	33,81	36,73	897	R-38	898	R-38-A	M-21	1/2	12,7		
				17	0,058	1,47	1,384	35,15	1,331	1,472	33,81	37,39	899	R-38	900	R-38-A	M-22	1/2	12,7		
				18	0,049	1,24	1,402	35,61	1,331	1,472	33,81	37,39	899	R-38	900	R-38-A	M-22	1/2	12,7		
				19	0,042	1,07	1,416	35,97	1,331	1,472	33,81	37,39	899	R-38	900	R-38-A	M-22	1/2	12,7		
		20	0,035	0,89	1,430	36,32	1,331	1,472	33,81	37,39	899	R-38	900	R-38-A	M-22	1/2	12,7				

* Motor recommendation applies only to most popular cases with a standard percentage of the wall reduction. The recommendation can be different for thicker tube sheet, harder and exotic metal tube and a higher percentage of wall reduction.

RECOMMENDATION

Recommended selection of thrust collars when rolling pipes from both sides to prevent the formation of stresses.

