

Colins Expander

The CBTE series offers non-parallel, self-feeding boiler tube expanders, suitable for tube sizes ranging from ½" to 4". These expanders are ideal for both new installations and repair work on thin tube sheets or leaky joints. They are recommended for tube sheets with a thickness between 1/8" and 5/8" (3 mm to 16 mm).



TUBE OD		GAUGE	TUBE ID				TOOL NO.	EXPANSION RANGE				ROLLS NO.	MANDREL NO.	MANDREL SQUARE	
			[INCH]		[MM]			[INCH]		[MM]				[INCH]	[MM]
[INCH]	[MM]	[BWG]	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX			[INCH]	[MM]
1/2"	12,70	16-17	0,370	0,384	9,40	9,76	CBTE-10	0,352	0,435	8,94	11,05	RS-13	MS-22	3/8"	9,52
		18-19	0,402	0,416	10,22	10,56	CBTE-11	0,382	0,465	9,70	11,81	RS-13	MS-23	3/8"	9,52
5/8"	15,88	14	0,459	0,459	11,65	11,65	CBTE-13	0,438	0,521	11,12	13,23	RS-14	MS-24	3/8"	9,52
		15-17	0,481	0,509	12,21	12,93	CBTE-15	0,462	0,566	11,73	14,37	RS-15	MS-25	3/8"	9,52
		18-19	0,527	0,541	13,39	13,73	CBTE-17	0,490	0,620	12,44	15,74	RS-15	MS-26	3/8"	9,52
		10	0,482	0,482	12,25	12,25	CBTE-15	0,462	0,566	11,73	14,37	RS-15	MS-25	3/8"	9,52
3/4"	19,05	11-12	0,510	0,532	12,95	13,51	CBTE-17	0,490	0,620	12,44	15,74	RS-15	MS-26	3/8"	9,52
		13-15	0,560	0,606	14,23	15,39	CBTE-19	0,538	0,688	13,66	17,47	RS-16	MS-26	3/8"	9,52
		16-17	0,620	0,634	15,75	16,11	CBTE-21	0,596	0,752	15,13	19,10	RS-17	MS-27	3/8"	9,52
		18-19	0,652	0,916	16,57	23,26	CBTE-22	0,620	0,776	15,75	19,71	RS-18	MS-27	3/8"	9,52
7/8"	22,22	11	0,635	0,635	16,12	16,12	CBTE-21	0,596	0,752	15,13	19,10	RS-17	MS-27	3/8"	9,52
		12	0,657	0,657	16,68	16,68	CBTE-22	0,620	0,776	15,75	19,71	RS-18	MS-27	3/8"	9,52
		13-14	0,685	0,709	17,40	18,00	CBTE-23	0,650	0,806	16,51	20,47	RS-19	MS-27	3/8"	9,52
		15-17	0,731	0,759	18,56	19,28	CBTE-24	0,710	0,866	18,03	21,99	RS-19	MS-28	1/2"	12,70
1"	25,40	9	0,704	0,704	17,88	17,88	CBTE-23	0,650	0,806	16,51	20,47	RS-19	MS-27	3/8"	9,52
		10-11	0,732	0,760	18,60	19,30	CBTE-24	0,710	0,866	18,03	21,99	RS-19	MS-28	1/2"	12,70
		12-13	0,782	0,810	19,86	20,58	CBTE-25	0,760	0,916	19,30	23,26	RS-20	MS-28	1/2"	12,70
		14-16	0,834	0,870	21,18	22,10	CBTE-26	0,812	0,968	20,62	24,58	RS-21	MS-28	1/2"	12,70
		17-18	0,884	0,902	22,46	22,92	CBTE-27	0,861	1,018	21,88	25,85	RS-22	MS-28	1/2"	12,70
1-1/8"	28,58	12	0,908	0,908	23,06	23,06	CBTE-27	0,862	1,018	21,89	25,85	RS-22	MS-28	1/2"	12,70
		13-17	0,937	1,008	23,80	25,60	CBTE-29	0,890	1,173	22,60	29,80	RS-24	MS-29	1/2"	12,70
1-1/4"	31,75	9-12	0,949	1,028	24,10	26,10	CBTE-29	0,890	1,173	22,60	29,80	RS-24	MS-29	1/2"	12,70
		13-16	1,058	1,118	26,88	28,40	CBTE-30	1,016	1,291	25,80	32,80	RS-25	MS-29	1/2"	12,70
1-3/8"	34,93	13	1,185	1,185	30,10	30,10	CBTE-31	1,150	1,398	29,20	35,50	RS-26	MS-29	1/2"	12,70
1-1/2"	38,10	11-12	1,260	1,280	32,00	32,50	CBTE-31	1,150	1,398	29,20	35,50	RS-26	MS-29	1/2"	12,70
	38,10	13-16	1,310	1,370	33,28	34,80	CBTE-32	1,274	1,524	32,35	38,70	RS-26	MS-30	3/4"	19,05
1-5/8"	41,28	11-13	1,385	1,435	35,17	36,45	CBTE-33	1,336	1,586	33,93	40,28	RS-27	MS-30	3/4"	19,05
1-3/4"	44,45	11-13	1,510	1,560	38,35	39,63	CBTE-36	1,462	1,712	37,13	43,48	RS-28	MS-30	3/4"	19,05
1-7/8"	47,63	11-13	1,635	1,685	41,52	42,80	CBTE-40	1,600	1,850	40,64	46,99	RS-29	MS-31	3/4"	19,05
2"	50,80	11-13	1,760	1,810	44,70	45,98	CBTE-44	1,724	1,974	43,78	50,14	RS-30	MS-31	3/4"	19,05
2-1/8"	53,98	11-13	1,885	1,935	47,87	49,15	CBTE-52	1,850	2,100	46,99	53,34	RS-31	MS-31	3/4"	19,05
2-1/4"	57,15	11-13	2,008	2,058	51,00	52,28	CBTE-56	1,980	2,230	50,28	56,64	RS-31	MS-32	1"	25,40
2-1/2"	63,50	11-13	2,260	2,310	57,40	58,68	CBTE-65	2,230	2,480	56,64	63,00	RS-32	MS-32	1"	25,40
2-3/4"	69,85	11-13	2,510	2,560	63,75	65,03	CBTE-66	2,480	2,730	63,00	69,35	RS-33	MS-32	1"	25,40
3"	76,20	10-13	2,732	2,810	69,40	71,38	CBTE-68	2,690	3,023	68,33	76,78	RS-33	MS-33	1"	25,40
3-1/4"	82,55	10-13	2,984	3,062	75,80	77,78	CBTE-70	2,940	3,273	74,67	83,13	RS-34	MS-33	1"	25,40
3-1/2"	88,90	10-13	3,232	3,310	82,10	84,08	CBTE-80	3,190	3,523	81,02	89,48	RS-35	MS-33	1"	25,40
3-3/4"	95,25	9-13	3,454	3,560	87,73	90,43	CBTE-84	3,412	3,745	86,66	95,12	RS-34	MS-35	1"	25,40
4"	101,60	9-13	3,704	3,810	94,08	96,78	CBTE-90	3,661	3,995	93,00	101,47	RS-35	MS-35	1"	25,40
4-1/2	114,30	9-13	4,204	4,310	106,78	109,48	CBTE-100	4,161	4,449	105,70	113,00	RS-36	MS-35	1"	25,40