

## Colins Expander



Nonparallel self feeding boiler tube expanders from 1/2" to 4". Suitable for new erection or repair work that have thin tube sheet or just touch up a leaky joints. Recommended for tube sheets from 1/8" to 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]	[INCH]	[MM]			[INCH]	[MM]
1/2"	12,70	16-17	0,370	0,384	9,40	9,76	<b>CBTE-10</b>	0,352	0,435	8,94	11,05	<b>RS-13</b>	<b>MS-22</b>	3/8"	9,52
		18-19	0,402	0,416	10,22	10,56	<b>CBTE-11</b>	0,382	0,465	9,70	11,81	<b>RS-13</b>	<b>MS-23</b>	3/8"	9,52
5/8"	15,88	14	0,459	0,459	11,65	11,65	<b>CBTE-13</b>	0,438	0,521	11,12	13,23	<b>RS-14</b>	<b>MS-24</b>	3/8"	9,52
		15-17	0,481	0,509	12,21	12,93	<b>CBTE-15</b>	0,462	0,566	11,73	14,37	<b>RS-15</b>	<b>MS-25</b>	3/8"	9,52
3/4"	19,05	18-19	0,527	0,541	13,39	13,73	<b>CBTE-17</b>	0,490	0,620	12,44	15,74	<b>RS-15</b>	<b>MS-26</b>	3/8"	9,52
		10	0,482	0,482	12,25	12,25	<b>CBTE-15</b>	0,462	0,566	11,73	14,37	<b>RS-15</b>	<b>MS-25</b>	3/8"	9,52
		11-12	0,510	0,532	12,95	13,51	<b>CBTE-17</b>	0,490	0,620	12,44	15,74	<b>RS-15</b>	<b>MS-26</b>	3/8"	9,52
		13-15	0,560	0,606	14,23	15,39	<b>CBTE-19</b>	0,538	0,688	13,66	17,47	<b>RS-16</b>	<b>MS-26</b>	3/8"	9,52
7/8"	22,22	16-17	0,620	0,634	15,75	16,11	<b>CBTE-21</b>	0,596	0,752	15,13	19,10	<b>RS-17</b>	<b>MS-27</b>	3/8"	9,52
		18-19	0,652	0,916	16,57	23,26	<b>CBTE-22</b>	0,620	0,776	15,75	19,71	<b>RS-18</b>	<b>MS-27</b>	3/8"	9,52
		11	0,635	0,635	16,12	16,12	<b>CBTE-21</b>	0,596	0,752	15,13	19,10	<b>RS-17</b>	<b>MS-27</b>	3/8"	9,52
		12	0,657	0,657	16,68	16,68	<b>CBTE-22</b>	0,620	0,776	15,75	19,71	<b>RS-18</b>	<b>MS-27</b>	3/8"	9,52
1"	25,40	13-14	0,685	0,709	17,40	18,00	<b>CBTE-23</b>	0,650	0,806	16,51	20,47	<b>RS-19</b>	<b>MS-27</b>	3/8"	9,52
		15-17	0,731	0,759	18,56	19,28	<b>CBTE-24</b>	0,710	0,866	18,03	21,99	<b>RS-19</b>	<b>MS-28</b>	1/2"	12,70
		9	0,704	0,704	17,88	17,88	<b>CBTE-23</b>	0,650	0,806	16,51	20,47	<b>RS-19</b>	<b>MS-27</b>	3/8"	9,52
		10-11	0,732	0,760	18,60	19,30	<b>CBTE-24</b>	0,710	0,866	18,03	21,99	<b>RS-19</b>	<b>MS-28</b>	1/2"	12,70
1-1/8"	28,58	12-13	0,782	0,810	19,86	20,58	<b>CBTE-25</b>	0,760	0,916	19,30	23,26	<b>RS-20</b>	<b>MS-28</b>	1/2"	12,70
		14-16	0,834	0,870	21,18	22,10	<b>CBTE-26</b>	0,812	0,968	20,62	24,58	<b>RS-21</b>	<b>MS-28</b>	1/2"	12,70
		17-18	0,884	0,902	22,46	22,92	<b>CBTE-27</b>	0,861	1,018	21,88	25,85	<b>RS-22</b>	<b>MS-28</b>	1/2"	12,70
		12	0,908	0,908	23,06	23,06	<b>CBTE-27</b>	0,862	1,018	21,89	25,85	<b>RS-22</b>	<b>MS-28</b>	1/2"	12,70
1-1/4"	31,75	13-17	0,937	1,008	23,80	25,60	<b>CBTE-29</b>	0,890	1,173	22,60	29,80	<b>RS-24</b>	<b>MS-29</b>	1/2"	12,70
		9-12	0,949	1,028	24,10	26,10	<b>CBTE-29</b>	0,890	1,173	22,60	29,80	<b>RS-24</b>	<b>MS-29</b>	1/2"	12,70
1-3/8"	34,93	13-16	1,058	1,118	26,88	28,40	<b>CBTE-30</b>	1,016	1,291	25,80	32,80	<b>RS-25</b>	<b>MS-29</b>	1/2"	12,70
		13	1,185	1,185	30,10	30,10	<b>CBTE-31</b>	1,150	1,398	29,20	35,50	<b>RS-26</b>	<b>MS-29</b>	1/2"	12,70
1-1/2"	38,10	11-12	1,260	1,280	32,00	32,50	<b>CBTE-31</b>	1,150	1,398	29,20	35,50	<b>RS-26</b>	<b>MS-29</b>	1/2"	12,70
		13-16	1,310	1,370	33,28	34,80	<b>CBTE-32</b>	1,274	1,524	32,35	38,70	<b>RS-26</b>	<b>MS-30</b>	3/4"	19,05
1-5/8"	41,28	11-13	1,385	1,435	35,17	36,45	<b>CBTE-33</b>	1,336	1,586	33,93	40,28	<b>RS-27</b>	<b>MS-30</b>	3/4"	19,05
1-3/4"	44,45	11-13	1,510	1,560	38,35	39,63	<b>CBTE-36</b>	1,462	1,712	37,13	43,48	<b>RS-28</b>	<b>MS-30</b>	3/4"	19,05
1-7/8"	47,63	11-13	1,635	1,685	41,52	42,80	<b>CBTE-40</b>	1,600	1,850	40,64	46,99	<b>RS-29</b>	<b>MS-31</b>	3/4"	19,05
2"	50,80	11-13	1,760	1,810	44,70	45,98	<b>CBTE-44</b>	1,724	1,974	43,78	50,14	<b>RS-30</b>	<b>MS-31</b>	3/4"	19,05
2-1/8"	53,98	11-13	1,885	1,935	47,87	49,15	<b>CBTE-52</b>	1,850	2,100	46,99	53,34	<b>RS-31</b>	<b>MS-31</b>	3/4"	19,05
2-1/4"	57,15	11-13	2,008	2,058	51,00	52,28	<b>CBTE-56</b>	1,980	2,230	50,28	56,64	<b>RS-31</b>	<b>MS-32</b>	1"	25,40
2-1/2"	63,50	11-13	2,260	2,310	57,40	58,68	<b>CBTE-65</b>	2,230	2,480	56,64	63,00	<b>RS-32</b>	<b>MS-32</b>	1"	25,40
2-3/4"	69,85	11-13	2,510	2,560	63,75	65,03	<b>CBTE-66</b>	2,480	2,730	63,00	69,35	<b>RS-33</b>	<b>MS-32</b>	1"	25,40
3"	76,20	10-13	2,732	2,810	69,40	71,38	<b>CBTE-68</b>	2,690	3,023	68,33	76,78	<b>RS-33</b>	<b>MS-33</b>	1"	25,40
3-1/4"	82,55	10-13	2,984	3,062	75,80	77,78	<b>CBTE-70</b>	2,940	3,273	74,67	83,13	<b>RS-34</b>	<b>MS-33</b>	1"	25,40
3-1/2"	88,90	10-13	3,232	3,310	82,10	84,08	<b>CBTE-80</b>	3,190	3,523	81,02	89,48	<b>RS-35</b>	<b>MS-33</b>	1"	25,40
3-3/4"	95,25	9-13	3,454	3,560	87,73	90,43	<b>CBTE-84</b>	3,412	3,745	86,66	95,12	<b>RS-34</b>	<b>MS-35</b>	1"	25,40
4"	101,60	9-13	3,704	3,810	94,08	96,78	<b>CBTE-90</b>	3,661	3,995	93,00	101,47	<b>RS-35</b>	<b>MS-35</b>	1"	25,40
4-1/2"	114,30	9-13	4,204	4,310	106,78	109,48	<b>CBTE-100</b>	4,161	4,449	105,70	113,00	<b>RS-36</b>	<b>MS-35</b>	1"	25,40