

8012 Series

The 8012 Series is designed for expanding tubes in larger sizes and is recommended for use with thick tube sheets and step-by-step rolling. It features three expansion rolls and a wide working range. This tool is suitable for use in condensers, coolers, heat exchangers, surface condensers, and FinFan coolers.



WORKING RANGE

TUBE ID	TUBE OD	TUBE SHEET
8,48 - 36,32 mm	44,4 - 76,2 mm	12,7 - 101,6 mm
0,334 - 1,430"	1-3/4" to 3"	1-1/2" to 2-1/4"

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TUBE OD		TUBE GAUGE			TUBE ID		EXPANSION RANGE				TOOL NO.	ROLL NO.	MANDREL	MANDREL	PNEUMATIC MOTOR *	ELECTRIC MOTOR *
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]	[INCH]		[MM]							
							MIN	MAX	MIN	MAX				[INCH]		
1-3/4	44,4	8	0,165	4,19	1,42	36,07	1,368	1,55	34,75	39,37	8012-1-3/4-8	R-33-A	M-90	3/4	K60-400	TESMini2 DU1
		10	0,134	3,40	1,482	37,64	1,420	1,607	36,07	40,82	8012-1-3/4-10	R-37-A	M-90	3/4		
		11	0,120	3,05	1,510	38,35	1,454	1,635	36,93	41,53	8012-1-3/4-11	R-42	M-90	3/4		
		12	0,109	2,77	1,532	38,91	1,482	1,657	37,64	42,09	8012-1-3/4-12	R-44	M-90	3/4		
		13	0,095	2,41	1,560	39,62	1,510	1,685	38,35	42,80	8012-1-3/4-13	R-46	M-90	3/4		
		14	0,083	2,11	1,584	40,23	1,532	1,709	38,91	43,41	8012-1-3/4-14	R-48	M-90	3/4	K60-900	
2	50,8	8	0,165	4,19	1,670	42,42	1,595	1,795	40,51	45,59	8012-2-8	R-48	M-91	3/4	K60-250	TESMini2 K90-E-190
		10	0,134	3,40	1,732	43,99	1,640	1,857	41,66	47,17	8012-2-10	R-50	M-91	3/4		
		11	0,120	3,05	1,760	44,70	1,670	1,885	42,42	47,88	8012-2-11	R-52	M-91	3/4		
		12	0,109	2,77	1,782	45,26	1,704	1,907	43,28	48,44	8012-2-12	R-54	M-91	3/4		
		13	0,095	2,41	1,810	45,97	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4		
		14	0,083	2,11	1,834	46,58	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4		
		15	0,072	1,83	1,856	47,14	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4		
		16	0,065	1,65	1,870	47,50	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4		
		17	0,058	1,47	1,884	47,85	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4		
18	0,049	1,24	1,902	48,31	1,732	1,956	43,99	49,68	8012-2-13-18	R-56	M-91	3/4				
2-1/4	57,1	10	0,134	3,40	1,982	50,34	1,890	2,107	48,01	53,52	8012-2-1/4-10	R-56	M-92	3/4	K60-250	TESMini2 K90-E-190
		11	0,120	3,05	2,010	51,05	1,920	2,135	48,77	54,23	8012-2-1/4-11	R-58	M-92	3/4		
		12	0,109	2,77	2,032	51,61	1,954	2,157	49,63	54,79	8012-2-1/4-12	R-60	M-92	3/4		
		13	0,095	2,41	2,060	52,32	1,982	2,185	50,34	55,50	8012-2-1/4-13-16	R-62	M-92	3/4		
		14	0,083	2,11	2,084	52,93	1,982	2,185	50,34	55,50	8012-2-1/4-13-16	R-62	M-92	3/4		
		15	0,072	1,83	2,106	53,49	1,982	2,185	50,34	55,50	8012-2-1/4-13-16	R-62	M-92	3/4		
		16	0,065	1,65	2,120	53,85	1,982	2,185	50,34	55,50	8012-2-1/4-13-16	R-62	M-92	3/4		

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TUBE OD		TUBE GAUGE			TUBE ID		EXPANSION RANGE				TOOL NO.	ROLL NO.	MANDREL	MANDREL	PNEUMATIC MOTOR *	ELECTRIC MOTOR *
							[INCH]		[MM]							
[INCH]	[MM]	[BWG]	[INCH]	[MM]	[INCH]	[MM]	MIN	MAX	MIN	MAX				[INCH]		
2-1/2	63,5	10	0,134	3,40	2,232	56,69	2,140	2,407	54,36	61,14	8012-2-1/2-10-12	R-64	M-93	3/4	K60-250	TESMini2 K90-E-190
		11	0,120	3,05	2,260	57,40	2,140	2,407	54,36	61,14	8012-2-1/2-10-12	R-64	M-93	3/4		
		12	0,109	2,77	2,282	57,96	2,140	2,407	54,36	61,14	8012-2-1/2-10-12	R-64	M-93	3/4		
		13	0,095	2,41	2,310	58,67	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
		14	0,083	2,11	2,334	59,28	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
		15	0,072	1,83	2,356	59,84	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
		16	0,065	1,65	2,370	60,20	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
		17	0,058	1,47	2,384	60,55	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
		18	0,049	1,24	2,402	61,01	2,232	2,450	56,69	62,23	8012-2-1/2-13-18	R-64	M-94	3/4		
2-3/4	69,8	10	0,134	3,40	2,482	63,04	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1	K72-RT-90	TESMini2 K90-E-90
		11	0,120	3,05	2,510	63,75	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
		12	0,109	2,77	2,532	64,31	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
		13	0,095	2,41	2,560	65,02	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
		14	0,083	2,11	2,584	65,63	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
		15	0,072	1,83	2,606	66,19	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
		16	0,065	1,65	2,620	66,55	2,390	2,702	60,71	68,63	8012-2-3/4-10-16	R-66	M-96	1		
3	76,2	8	0,165	4,19	2,670	67,82	2,560	2,829	65,02	71,86	8012-3-8-9	R-67	M-97	1	K72-RT-90	TESMini2 K90-E-90
		9	0,148	3,76	2,704	68,68	2,560	2,829	65,02	71,86	8012-3-8-9	R-67	M-97	1		
		10	0,134	3,40	2,732	69,39	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		11	0,120	3,05	2,760	70,10	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		12	0,109	2,77	2,782	70,66	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		13	0,095	2,41	2,810	71,37	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		14	0,083	2,11	2,834	71,98	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		15	0,072	1,83	2,856	72,54	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		16	0,065	1,65	2,870	72,90	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		17	0,058	1,47	2,884	73,25	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		
		18	0,049	1,24	2,902	73,72	2,640	2,952	67,06	74,98	8012-3-10-18	R-67	M-96	1		

* 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.

i RECOMMENDATION

When rolling a pipe in a thick tube sheet, we recommend initial rolling to a minimum of 1/2 inch, followed by rolling deeper into the pipe in subsequent steps.

