

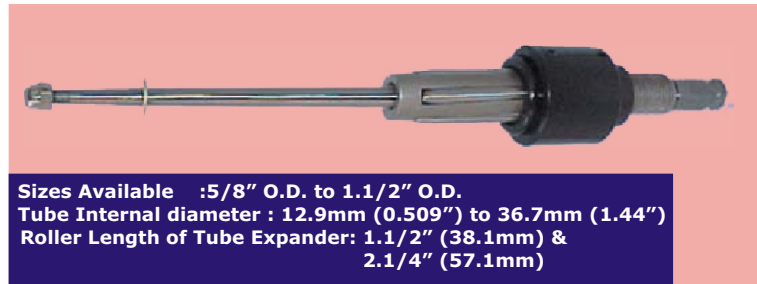
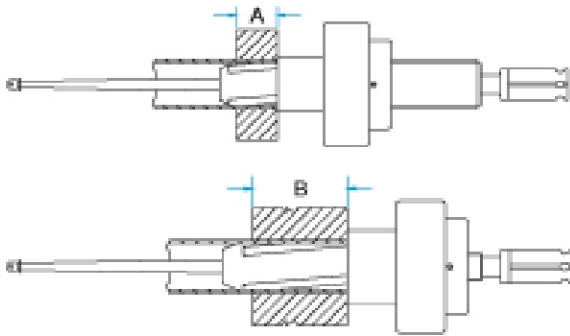
# CONDENSER TUBE EXPANDER



## ✦ **B800-5 Series** Tube O. D. 5/8"-1.1/2"

### FIVE ROLLER FOR THIN WALL FEATURES:

- Use -This is recommended for use on thin walled tubes (19 thru 22 gauge walls) of stainless steel, Titanium, & other exotic materials in thick tube sheets.
- Advantages: It gives a more concentric and even expansion when expanding thin walled tubes vs conventional 3 roller tube expander and reduces tube spring back effect.



**Sizes Available : 5/8" O.D. to 1.1/2" O.D.**  
**Tube Internal diameter : 12.9mm (0.509") to 36.7mm (1.44")**  
**Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)**

For Tube Internal Diameter  
 From (12.9mm) 0.509" to (36.7mm) 1.44"

TUBE EXPANDERS FITTED WITH ROLLER LENGTH		FOR TUBE SHEET ADJUSTABLE RANGE	
		MINIMUM A	MAXIMUM B
2.1/4" (57.1mm)	STD. REACH	(12.7mm) 1/2"	(101.4mm) 4"
	6" REACH	(12.7mm) 1/2"	(152.4mm) 6"
	8" REACH	(12.7mm) 1/2"	(203.2mm) 8"

Tube O.D. (Mm) inch	Tube Thickness		Tube I. D.		Minimum I. D. Tool Enters		Maximum Expansion of Tool		EXPANDER with (38.10mm) 1.1/2" Long rollers			EXPANDER with (57.15mm) 2.1/4" Long rollers			
	Bwg	Inch	Mm	Inch	Mm	Inch	Mm	Inch	Mm	Complete Tool No.	Roller Set No.	Mandrel No.	Complete Tool No.	Roller Set No.	Mandrel No.
(15.88) 5/8	17	.058	1.47	.509	12.9	.499	12.6	.564	14.3	B815-5	R-4-5	816-5	B816-5	R-4-A-5	816-5
	18	.049	1.24	.527	13.4	.517	13.1	.576	14.6	B817-5	R-4-5	M-9	-	-	-
	19	.042	1.06	.541	13.7	.522	13.3	.582	14.8	B819-5	R-4-5	820-5	B820-5	R-4-A-5	820-5
	20	.035	0.88	.555	14.1	.536	13.6	.596	15.1	B819-5 S	R-4-5	820-5 S	B820-5 S	R-4-A-5	820-5 S
	21	.032	0.81	.561	14.2	.536	13.6	.596	15.1	B819-5 S	R-4-5	820-5 S	B820-5 S	R-4-A-5	820-5 S
	22	.028	0.71	.569	14.5	.536	13.6	.596	15.1	B819-5 S	R-4-5	820-5 S	B820-5 S	R-4-A-5	820-5 S
(19.05) 3/4	13	.095	2.41	.560	14.2	.550	13.9	.615	15.6	B821-5	R-5-5	822-5	B822-5	R-5-A-5	822-5
	14	.083	2.10	.584	14.8	.574	14.5	.629	15.9	B823-5	R-6-5	824-5	B824-5	R-6-A-5	824-5
	15	.072	1.82	.606	15.3	.596	15.1	.661	16.8	B825-5	R-7-5	826-5	B826-5	R-7-A-5	826-5
	16	.065	1.65	.620	15.7	.605	15.3	.680	17.2	B827-5	R-7-5	M-13	B828-5	R-7-A-5	M-13
	17	.058	1.47	.630	16.1	.619	15.7	.699	17.8	B829-5	R-7-5	830-5	B830-5	R-7-A-5	830-5
	18	.049	1.24	.652	16.5	.619	15.7	.699	17.8	B829-5	R-7-5	830-5	B830-5	R-7-A-5	830-5
	19	.042	1.06	.666	16.9	.642	16.3	.729	18.5	B831-5	R-9-5	M-13	B832-5	R-7-A-5	M-13
	20	.035	0.88	.680	17.2	.642	16.3	.729	18.5	B831-5	R-9-5	M-13	B832-5	R-7-A-5	M-13
	21	.032	0.81	.686	17.4	.642	16.3	.729	18.5	B831-5	R-9-5	M-13	B832-5	R-7-A-5	M-13
	22	.028	0.71	.694	17.6	.642	16.3	.729	18.5	B831-5	R-9-5	M-1	B832-5	R-7-A-5	M-13
	23	.025	0.64	.700	17.8	.670	17.0	.747	18.9	B833-5	R-9-5	M-14-3/8	B834-5	R-7-A-5	M-14-3/8
	24	.022	0.56	.706	17.9	.670	17.0	.747	18.9	B833-5	R-9-5	M-14-3/8	B834-5	R-7-A-5	M-14-3/8
	25	.020	0.51	.710	18.0	.685	17.4	.750	19.0	B835-5	R-10-5	840-5	B836-5	R-7-A-5	M-840-5

# CONDENSER TUBE EXPANDER



**B800-5 Series**

**Tube O. D.  
5/8"-1.1/2"**

Tube O.D. (Mm) inch	Tube Thickness			Tube I. D.		Minimum I. D. Tool Enters		Maximum Expansion of Tool		EXPANDER with (38.10mm) 1.1/2" Long rollers			EXPANDER with (57.15mm) 2.1/4" Long rollers		
	Bwg	Inch	Mm	Inch	Mm	Inch	Mm	Inch	Mm	Complete Tool No.	Roller Set No.	Mandrel No.	Complete Tool No.	Roller Set No.	Mandrel No.
(22.22) 7/8	13	.095	2.41	.685	17.4	.670	17.0	.747	18.9	B833-5	R-9-5	M-14-3/8	B834-5	R-9-A-5	M-14-3/8
	14	.083	2.10	.709	18.0	.685	17.4	.750	19.0	B835-5	R-10-5	M-15-3/8	B836-5	R-10-A-5	M-15-3/8
	16	.065	1.65	.745	18.9	.726	18.4	.800	20.3	B839-5	R-11-5	840-5	B840-5	R-11-A-5	840-5
	17	.058	1.47	.759	19.2	.740	18.8	.824	20.9	B843-5	R-11-5	M-17-3/8	B844-5	R-11-A-5	M-17-3/8
	18	.049	1.24	.777	19.7	.740	18.8	.824	20.9	B843-5	R-11-5	M-17-3/8	B844-5	R-11-A-5	M-17-3/8
	19	.042	1.06	.791	20.1	.763	19.4	.851	21.6	B845-5	R-11-5	M-18-3/8	B846-5	R-11-A-5	M-18-3/8
	20	.035	0.88	.805	20.4	.763	19.4	.851	21.6	B845-5	R-11-5	M-18-3/8	B846-5	R-11-A-5	M-18-3/8
	21	.032	0.81	.811	20.6	.763	19.4	.851	21.6	B845-5	R-11-5	M-18-3/8	B846-5	R-11-A-5	M-18-3/8
	22	.028	0.71	.819	20.8	.763	19.4	.851	21.6	B845-5	R-11-5	M-18-3/8	B846-5	R-11-A-5	M-18-3/8
	23	.025	0.64	.825	20.9	.791	20.1	.880	22.4	B847-5	R-13-5	M-18-3/8	B848-5	R-13-A-5	M-18-3/8
	24	.022	0.56	.831	21.1	.791	20.1	.880	22.4	B847-5	R-13-5	M-18-3/8	B848-5	R-13-A-5	M-18-3/8
	(25.40) 1	12	.109	2.76	.782	19.8	.763	19.4	.852	21.6	B845-5	R-11-5	M-18-3/8	B846-5	R-11-A-5
13		.095	2.41	.810	20.5	.791	20.1	.880	22.4	B847-5	R-13-5	M-18-3/8	B848-5	R-13-A-5	M-18-3/8
14		.083	2.10	.834	21.2	.810	20.5	.879	22.3	B879-5	R-12-5	850-5	B850-5	R-12-A-5	M-18-3/8
15		.072	1.82	.856	21.7	.837	21.3	.936	23.8	B851-5	R-13-5	852-5	B852-5	R-13-A-5	852-5
16		.065	1.65	.870	22.0	.837	21.3	.936	23.8	B851-5	R-13-5	852-5	B852-5	R-13-A-5	852-5
17		.058	1.47	.884	22.4	.865	22.0	.965	24.5	B855-5	R-13-5	856-6	B856-5	R-13-A-5	856-5
18		.049	1.24	.902	22.9	.865	22.0	.965	24.5	B855-5	R-13-5	856-7	B856-5	R-13-A-5	856-5
19		.042	1.06	.916	23.2	.865	22.0	.965	24.5	B855-5	R-13-5	856-6	B856-5	R-13-A-5	856-5
20		.035	0.88	.930	23.6	.865	22.0	.965	24.5	B855-5	R-13-5	856-8	B856-5	R-13-A-5	856-5
21		.032	0.81	.936	23.8	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8
22		.028	0.71	.944	24.0	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8
23		.025	0.64	.950	24.1	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8
24	.022	0.56	.956	24.3	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8	
25	.020	0.51	.960	24.4	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8	
(28.58) 1.1/8	12	.109	2.76	.907	23.0	.883	22.4	.997	25.3	B857-5	R-15-5	M-21-3/8	B858-5	R-15-A-5	M-21-3/8
	13	.095	2.41	.935	23.7	.916	23.2	1.000	25.4	B859-5	R-16-5	860-5	B960-5	R-16-A-5	860-5
	14	.083	2.10	.959	24.3	.935	23.7	1.039	26.4	B861-5	R-17-5	862-5	B862-5	R-17-A-5	862-5
	22	.028	0.71	1.069	27.2	1.039	26.4	1.157	29.4	B871-5	R-19-5	872-5	B872-5	R-19-A-5	872-5
24	.022	0.56	1.081	27.5	1.039	26.4	1.157	29.4	B871-5	R-19-5	872-5	B872-5	R-19-A-5	872-5	
(31.75) 1.1/4	15	.072	1.82	1.106	28.1	1.087	27.6	1.196	30.4	B875-5	R-21-5	876-5	B876-5	R-21-A-5	876-5
	16	.065	1.65	1.120	28.4	1.087	27.6	1.196	30.4	B875-5	R-21-5	876-5	B876-5	R-21-A-5	876-5
	17	.058	1.47	1.134	28.8	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
	18	.049	1.24	1.152	29.3	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
	19	.042	1.06	1.166	29.6	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
	20	.035	0.88	1.180	30.0	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
	21	.032	0.81	1.186	30.1	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
	22	.028	0.71	1.194	30.3	1.115	28.3	1.231	31.3	B879-5	R-21-5	880-5	B880-5	R-21-A-5	880-5
(34.92) 1.3/8	23	.025	0.64	1.200	30.5	1.133	28.8	1.242	31.5	B881-5	R-21-5	882-5	B882-5	R-21-A-5	880-5
	24	.022	0.56	1.206	30.6	1.133	28.8	1.242	31.5	B881-5	R-21-5	882-5	B882-5	R-21-A-5	880-5
	12	.109	2.76	1.154	29.3	1.133	28.8	1.242	31.5	B881-5	R-21-5	882-5	B880-5	R-15-A-5	880-5
	14	.083	2.11	1.209	30.7	1.179	29.9	1.296	32.9	B885-5	R-23-5	882-5	B882-5	R-16-A-5	882-5
20	.035	0.88	1.305	33.2	1.257	31.9	1.385	35.2	B893-5	R-26-5	894-5	B894-5	R-17-A-5	894-5	
22	.028	0.71	1.319	33.5	1.285	32.6	1.417	36.0	B895-5	R-26-5	896-5	B896-5	R-19-A-5	896-5	
24	.022	0.56	1.331	33.8	1.285	32.6	1.417	36.0	B895-5	R-26-5	896-5	B896-5	R-19-A-5	896-5	
	17	.058	1.47	1.384	35.1	1.331	33.8	1.489	37.8	B899-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	18	.049	1.24	1.402	35.6	1.331	33.8	1.489	37.8	B843-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	19	.042	1.06	1.416	36.0	1.331	33.8	1.489	37.8	B845-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	20	.035	0.88	1.430	36.3	1.331	33.8	1.489	37.8	B845-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	21	.032	0.81	1.436	36.5	1.331	33.8	1.489	37.8	B845-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	22	.028	0.71	1.444	36.7	1.331	33.8	1.489	37.8	B845-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	23	.025	0.64	1.450	36.8	1.331	33.8	1.489	37.8	B847-5	R-29-5	900-5	B900-5	R-29-A-5	900-5
	24	.022	0.56	1.456	37.0	1.331	20.1	1.489	37.8	B847-5	R-29-5	900-5	B900-5	R-29-A-5	900-5