

# BOILER TUBE EXPANDER

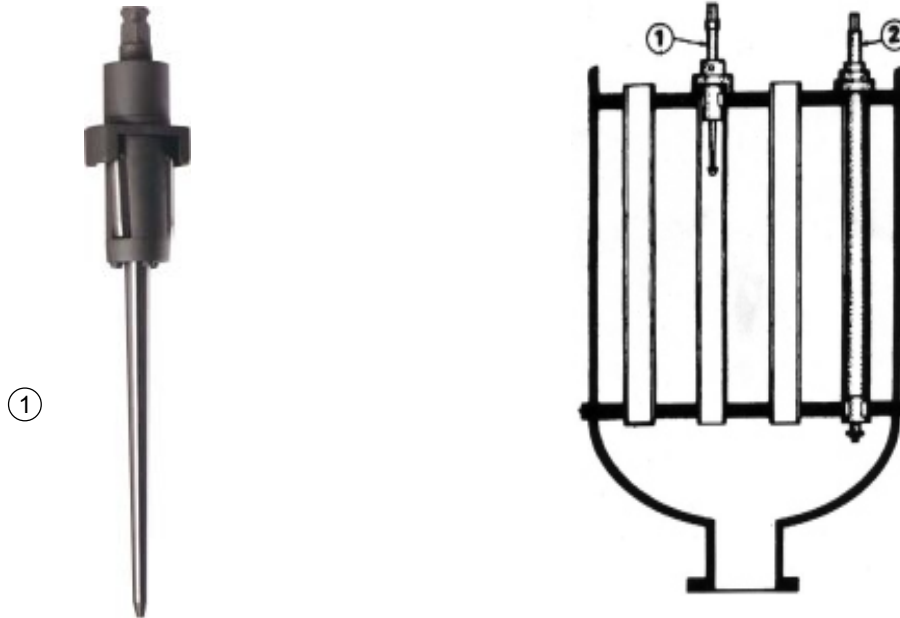


## 'BSB' PARALLEL TYPE 5 PLAIN ROLLER

Tube O. D.  
1.1/2" - 4.1/2"

### FEATURES:

- '5-Roll' Design is used primarily for rolling thin walled tubes used in sugar mill pan, juice heaters etc.
- '5-Roll' gives a more concentric, uniform expansion vs a 3 roll expander in thin tubes & reduces spring back action
- Time tested, durable design.
- Use - For **TOP** plate tube expansion in pan, juice heaters in sugar mills .



TUBE SIZE			MIN. I.D. TUBE ENTERS	MAX. EXPANSION OF TOOL	TUBE SHEET THICKNESS mm (inch)			SPARE MANDREL MODEL NUMBER	SQ. DRIVE inch	SPARE ROLLERS SET NUMBER		
O.D. inch	THK. GA.	THK. inch			31.75 (1.25)	38.1 (1.5)	50.8 (2.0)					
			Mm	Inch	Mm	Inch	TUBE EXPANDER MODEL					
1. 1/2	11 & 12	(.120 & .109)	29.0 (1.141)	31.9 (1.256)	BSB-00A	BSB-00B	BSB-00C	BSBM5-1	1/2	BSBR5-1A	BSBR5-1B	BSBR5-1C
1. 1/2	13 & 14	(.095 & .083)	32.5 (1.279)	36.0 (1.417)	BSB-0A	BSB-0B	BSB-0C	BSBM5-2	1/2	BSBR5-2A	BSBR5-2B	BSBR5-2C
1. 1/2	15 & 16	(.072 & .065)	33.5 (1.319)	37.2 (1.465)	BSB-1A	BSB-1B	BSB-1C	BSBM5-2	1/2	BSBR5-3A	BSBR5-3B	BSBR5-3C
1. 3/4	9 & 10	(.148 & .134)	35.2 (1.386)	39.1 (1.539)	BSB-2A	BSB-2B	BSB-2C	BSBM5-3	3/4	BSBR5-3A	BSBR5-3B	BSBR5-3C
1. 3/4	11 & 12	(.120 & .109)	36.5 (1.437)	40.5 (1.594)	BSB-3A	BSB-3B	BSB-3C	BSBM5-3	3/4	BSBR5-4A	BSBR5-4B	BSBR5-4C
1. 3/4	13 & 14	(.095 & .083)	38.1 (1.500)	42.7 (1.681)	BSB-4A	BSB-4B	BSB-4C	BSBM5-3	3/4	BSBR5-5A	BSBR5-5B	BSBR5-5C
1. 3/4	15 & 16	(.072 & .065)	39.1 (1.539)	44.2 (1.740)	BSB-5A	BSB-5B	BSB-5C	BSBM5-4	3/4	BSBR5-4A	BSBR5-4B	BSBR5-4C
2	7 & 8	(.180 & .165)	41.3 (1.626)	46.7 (1.838)	BSB-6A	BSB-6B	BSB-6C	BSBM5-4	3/4	BSBR5-5A	BSBR5-5B	BSBR5-5C
2	9 & 10	(.148 & .134)	42.8 (1.685)	48.3 (1.901)	BSB-7A	BSB-7B	BSB-7C	BSBM5-4	3/4	BSBR5-6A	BSBR5-6B	BSBR5-6C
2	11 - 13	(.120 - .095)	44.4 (1.748)	49.7 (1.957)	BSB-8A	BSB-8B	BSB-8C	BSBM5-5	3/4	BSBR5-6A	BSBR5-6B	BSBR5-6C
2	14 - 16	(.083 - .065)	44.4 (1.811)	52.2 (2.055)	BSB-9A	BSB-9B	BSB-9C	BSBM5-5	3/4	BSBR5-7A	BSBR5-7B	BSBR5-7C
2. 1/4	9 & 10	(.148 & .134)	47.6 (1.874)	53.8 (2.118)	BSB-10A	BSB-10B	BSB-10C	BSBM-5	3/4	BSBR-8A	BSBR-8B	BSBR-8C
2. 1/4	11 - 13	(.120 - .095)	49.2 (1.937)	55.4 (2.181)	BSB-11A	BSB-11B	BSB-11C	BSBM-5	3/4	BSBR-9A	BSBR-9B	BSBR-9C
2. 1/4	14 - 16	(.083 - .065)	50.7 (1.996)	57.8 (2.275)	BSB-12A	BSB-12B	BSB-12C	BSBM-6	3/4	BSBR-8A	BSBR-8B	BSBR-8C
2. 1/2	9 & 10	(.148 & .134)	54.9 (2.161)	61.0 (2.401)	BSB-13A	BSB-13B	BSB-13C	BSBM-6	3/4	BSBR-10A	BSBR-10B	BSBR-10C
2. 1/2	14 - 16	(.083 - .065)	57.1 (2.248)	65.6 (2.582)	BSB-14A	BSB-14B	BSB-14C	BSBM-7	1	BSBR-11A	BSBR-11B	BSBR-11C
2. 3/4	10 - 14	(.134 - .083)	60.3 (2.374)	68.8 (2.708)	BSB-15A	BSB-15B	BSB-15C	BSBM-7	1	BSBR-12A	BSBR-12B	BSBR-12C
3	7 - 9	(.180 - .148)	63.5 (2.500)	72.0 (2.835)	BSB-16A	BSB-16B	BSB-16C	BSBM-7	1	BSBR-13A	BSBR-13B	BSBR-13C
3	10 - 14	(.134 - .083)	66.5 (2.618)	75.0 (2.953)	BSB-17A	BSB-17B	BSB-17C	BSBM-7	1	BSBR-14A	BSBR-14B	BSBR-14C
3. 1/4	7 & 8	(.180 & .165)	69.8 (2.748)	78.5 (3.090)	BSB-18A	BSB-18B	BSB-18C	BSBM-8	1	BSBR-14A	BSBR-14B	BSBR-14C
3. 1/2	4 & 5	(.238 & .220)	73.0 (2.874)	81.7 (3.216)	BSB-19A	BSB-19B	BSB-19C	BSBM-8	1	BSBR-15A	BSBR-15B	BSBR-15C
3. 1/2	6 - 8	(.203 - .165)	76.1 (2.996)	85.8 (3.378)	BSB-20A	BSB-20B	BSB-20C	BSBM-9	1	BSBR-16A	BSBR-16B	BSBR-16C
3. 3/4	4 & 5	(.238 & .220)	79.3 (3.122)	89.0 (3.504)	BSB-21A	BSB-21B	BSB-21C	BSBM-9	1	BSBR-17A	BSBR-17B	BSBR-17C
3. 3/4	6 - 8	(.203 - .165)	82.5 (3.248)	92.2 (3.629)	BSB-22A	BSB-22B	BSB-22C	BSBM-9	1	BSBR-18A	BSBR-18B	BSBR-18C
4	3 & 4	(.259 & .238)	85.7 (3.374)	96.2 (3.787)	BSB-23A	BSB-23B	BSB-23C	BSBM-10	1	BSBR-18A	BSBR-18B	BSBR-18C
4	10 - 16	(.134 - .065)	90.3 (3.555)	100.8 (3.968)	BSB-24A	BSB-24B	BSB-24C	BSBM-10	1	BSBR-19A	BSBR-19B	BSBR-19C
4. 1/4	6 - 8	(.203 - .165)	94.9 (3.736)	105.2 (4.141)	BSB-25A	BSB-25B	BSB-25C	BSBM-11	1	BSBR-20A	BSBR-20B	BSBR-20C
4. 1/2	4 - 7	(.238 - .180)	89.7 (3.531)	110.9 (4.366)	BSB-26A	BSB-26B	BSB-26C	BSBM-11	1	BSBR-21A	BSBR-21B	BSBR-21C
4. 1/2	8 - 10	(.165 - .134)	104.3 (4.106)	113.1 (4.452)	BSB-27A	BSB-27B	BSB-27C	BSBM-12	1	BSBR-21A	BSBR-21B	BSBR-21C