

### **TUBE TOOLS**

TAL TORQUE CONTROLLET

SHING ARE

#### MANUFACTURER & EXPORTER OF

Tube Cleaners, Tube Tools, Tube Expanders, Bolting Tools, Impact Sockets, Pipe Beveling Machines,Pipe Cold Cutting Machines, High Pressure Water Jet Cleaning Machines &Tapping Machines Education is necessary but not a pre-requisite for success in life. Bhartiya Industries is the best example of this theory. **Mr. Suryakant Shingare** (HARIBHAI), the founder of the company is a non-matriculate technocrat with more than 10 years experience in flexible shaft manufacturing. He founded this company in 1989.



BHÁRTIYÁ

#### **Basic Products:**

Engineering products is our forte. We manufacture engineering products such as tube expander, tube cleaner, tube tools, hydraulic tube expansion, tube pulling, and pipe beveling machines. We also deal in manufacture of flexible shaft grinders, construction equipment, hydraulic torque wrench, impact socket, pneumatic tapping machines, and many more...

#### **Brief History of the Company:**



We were a small industry until 2003 engaged in production and supply of different types of flexible shafts for tube cleaning, brushes, flexible shaft grinder, and concrete vibrators. The year 2003 was a watershed year for the company.

**Mr. Pradip Shingare,** son of **Mr. Hari Shingare**, graduated from Mumbai University with a degree in Mechanical Engineering. He had great plans to take the company forward on the route to expansion. He ventured into export of the engineering products. By 2008, the company acquired the reputation as the largest exporter of tube cleaning machines and flexible shafts in India.

The year 2009 saw the expansion of the company into manufacture of products such as Tube expander, tube tools, and tube pulling machines. The company witnessed a record double-digit growth in this product range. In 2011, the company started developing a product range of pipe beveling machines. These machines are extremely popular in India as well as in the overseas market. The year 2013 witnessed the company foray into imports of different types of tools such as tapping tools, grinding tools, etc making us the leading player in India in these categories.

The year 2015 saw us entering into the sugar industry component with the manufacture of the Heavy Duty Sugar Dust Collector machine, FlexRepair40 machine.

In 2016, we added **SHINGARE INDUSTRIES PVT. LTD.** a new company in our group. We were awarded ISO 9001:2015 certification for strictly followed quality norms and processes.

#### **Dedicated Staff:**

We have a dedicated team of more than 40 people, many of whom are with us since the early days of the company. We have an excellent blend of youth, knowledge, and experience in our ranks.

#### **Export oriented:**

We export over 60% of our products to more than 55 countries all over the globe.

#### **Expansion:**

We feel the need to expand our business to enable us to serve the people of this country better. With this aim in mind, we established a new company in the name of SHINGARE INDUSTRIES PVT. LTD.

#### Our main motto of business is "Growth with Trust."

Our mission is to innovate and create an import substitute products in India.

### Our Successful Participation in Trade Fairs and Conventions in INDIA and Overseas.



SISSA BANGALORE 2015



SISSTA, CHENNAI 2016



STAI, NEW DELHI 2016



SISSTA, TIRUPATI 2017



MAHATECH, PUNE 2015

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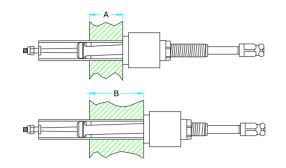
MODEL NO.	TUBE OD	PAGE NO.
B800	1 /2" to 1.1/2"	4-5
B800-5	5/8" to 1.1/2"	6-7
B1200	1 /2" to 1.1/2"	8-9
B1200-5	3/4" to 1.1/2"	10
BAN	1/4" to 3/8"	11
B900	1/4" to 3/8"	12
B8012	1.3/4" to 5"	13-14
B1300	3/8"	15



### **'B800' SERIES**

#### FEATURES

• Use - This is the most popular expander for use on heat exchanger and condensers with tubes of 1/2"- 1.1/2" O.D.





Sizes Available : 1/2" O.D. to 1.1/2" O.D. Tube Internal diameter : 8.4mm (0.334") to 36.3mm (1.43") Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH		BE SHEET BLE RANGE MAXIMUM B
(38.1mm) 1.1/2"	(12.7mm) ½"	(38.1mm) 1.1/2"
(57.1mm) 2.1/4"	(31.7mm) 1.1/4"	(57.1mm) 2.1/4"

Tube O.D. (Mm)	Tube Thickness	Tube I. D. Inch Mm	Minimum I. D. Tool Enters Inch Mm	Maximum Expansion of Tool Inch Mm	EXPANDER with (38.10mm) 1.1/2" Long rollers Complete Roller Mandre	Set No. 2.1/4" Long rollers Complete Roller Mandrel	Ratchet Size Square Inch
inch	Bwg     Inch     Mm       14     .083     2.10       15     .072     1.82	.334 8.4 .356 9.0	.324 8.2 .348 8.8	.374 9.5 .398 10.1	Tool No.     No.       B797     797     797       B799     R-1     799	Tool No. Set No. No.	3/8
(12.70) 1/2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} .330 & 9.0 \\ .370 & 9.4 \\ .384 & 9.7 \\ .402 & 10.2 \\ .430 & 10.9 \end{array}$	$\begin{array}{cccc}$	$\begin{array}{cccc}$	B801     R-1     M-1       B803     R-2     M-1       B805     R-3     M-2       B805 S     R-3     M-3		3/8
	12.1092.7613.0952.4114.0832.10	.407 10.3 .435 11.0 .459 11.6	.392 9.9 .425 10.8 .449 11.4	.447 11.3 .480 12.1 .509 12.9	B805     R-3     M-2       B807     R-4     M-3       B809     R-4     M-4	B806     R-3-A     M-2       B808     R-4-A     M-3       B810     R-4-A     M-4	3/8
(15.88) 5/8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.481 12.2 .495 12.5 .509 12.9 .527 13.3	.471 11.9 .485 12.3 .499 12.6 .517 13.1	.536 13.6 .550 13.9 .564 14.3 .572 14.5	B811     R-5     M-5       B813     R-6     M-5       B815     R-6     M-6       B817     R-7     M-7	B812     R-5-A     M-5       B814     R-6-A     M-5       B816     R-6-A     M-6       B818     R-7-A     M-7	3/8
	19.0421.0620.0350.8821.0320.8122.0280.71	.541 13.7 .555 14.1 .561 14.2 .569 14.4	.522 13.2 .536 13.6 .536 13.6 .536 13.6	.582 14.7 .596 15.1 .596 15.1 .596 15.1	B819     R-7     M-6       B819S     R-7     M-8       B819S     R-7     M-8       B819S     R-7     M-8       B819S     R-7     M-8	B820 R-7-A M-6 B820S R-7-A M-8 B820S R-7-A M-8 B820S R-7-A M-8	3/8
	10.1343.4011.1203.0412.1092.76	.482 12.2 .510 12.9 .532 13.5	.471 11.9 .499 12.6 .522 13.2	.536 13.6 .564 14.3 .582 14.7	B811     R-5     M-5       B815     R-6     M-6       B819     R-7     M-6	B812     R-5-A     M-5       B816     R-6-A     M-6       B820     R-7-A     M-6	3/8
(19.05)	13.0952.4114.0832.1015.0721.82	.560 14.2 .584 14.8 .606 15.3	.550 13.9 .574 14.5 .596 15.1	.615 15.6 .639 16.2 .661 16.7	B821     R-8     M-8       B823     R-9     M-8       B825     R-10     M-8	B822     R-8-A     M-8       B824     R-9-A     M-8       B826     R-10-A     M-8	3/8
3/4	16.0651.6517.0581.4718.0491.24	.620 15.7 .630 16.1 .652 16.5	.605 15.3 .619 15.7 .619 15.7	.685 17.4 .699 17.7 .699 17.7	B827     R-10     M-9       B829     R-11     M-9       B829     R-11     M-9	B828     R-10-A     M-9       B830     R-11-A     M-9       B830     R-11-A     M-9	3/8
	19.0421.0620.0350.8821.0320.8122.0280.71	.666 16.9 .680 17.2 .686 17.4 .694 17.6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.72218.3.72218.3.72218.3.72218.3	B831     R-12     M-9       B831     R-12     M-9       B831     R-12     M-9       B831     R-12     M-9	B832     R-12-A     M-9       B832     R-12-A     M-9       B832     R-12-A     M-9       B832     R-12-A     M-9       B832     R-12-A     M-9	3/8
	10.1343.4011.1203.0412.1092.76	.607 15.4 .635 16.1 .657 16.6	.596 15.1 .619 15.7 .642 16.3	.661 16.7 .699 17.7 .722 18.3	B825     R-10     M-8       B829     R-11     M-9       B831     R-12     M-9	B826     R-10-A     M-8       B830     R-11-A     M-9       B832     R-12-A     M-9	3/8
(22.22) 7/8	13.0952.4114.0832.1015.0721.82	.685 17.4 .709 18.0 .731 18.5	.670 17.0 .685 17.4 .712 18.0	.750 19.0 .774 19.6 .801 20.3	B833     R-13     M-10       B835     R-14     M-11       B837     R-15     M-11	B834     R-13-A     M-10       B836     R-14-A     M-11       B838     R-15-A     M-11	3/8
	16.0651.6517.0581.4718.0491.24	.745 18.9 .759 19.2 .777 19.7	.72618.4.74018.8.74018.8	.81520.7.82921.0.82921.0	B839     R-15     M-12       B843     R-16     M-12       B843     R-16     M-12	B840     R-15-A     M-12       B844     R-16-A     M-12       B844     R-16-A     M-12	3/8



'B800' SERIES



Tube O.D. (Mm) inch		Tube hicknes Inch	ss Mm	Tul I. I Inch	D.	Minimu Tool E Inch		Maxin Expansion Inch		EXPANDE 1.1/2" Complete Tool No.	' Long rol		EXPAND 2.1/4 Complete Tool No.	" Long rol		Ratchet Size Square Inch
	8 9 10	.165 .148 .134	4.19 3.75 3.40		17.0 17.8 18.5	.654 .685 .709	16.6 17.4 18.0	.732 .772 .799	18.6 19.6 20.3	B841 B835 B837	R-13 R-14 R-15	M-9 M-11 M-11	B842 B836 B838	R-13-A R-14-A R-15-A	M-9 M-11 M-11	3/8
(25.40)	11 12 13	.120 .109 .095	3.04 2.76 2.41		19.3 19.8 20.5	.760 .787 .807	18.8 19.3 20.0	.827 .850 .878	21.0 21.6 22.3	B843 B845 B847	R-16 R-17 R-18	M-12 M-12 M-12	B844 B846 B848	R-16-A R-17-A R-18-A	M-12 M-12 M-12	3/8
1	14 15 16	.083 .072 .065	2.10 1.82 1.65	.854	21.1 21.7 22.1	.810 .837 .837	20.5 21.2 21.2	.909 .936 .936	23.0 23.7 23.7	B849 B851 B851	R-18 R-19 R-19	M-13 M-13 M-13	B850 B852 B852	R-18-A R-19-A R-19-A	M-13 M-13 M-13	3/8
	17 18 19 20	.058 .049 .042 .035	1.47 1.24 1.06 0.88		22.4 22.9 23.2 23.6	.865 .865 .865 .865	21.9 21.9 21.9 21.9 21.9	.964 .964 .964 .964	24.4 24.4 24.4 24.4	B855 B855 B855 B855	R-21 R-21 R-21 R-21	M-13 M-13 M-13 M-13	B856 B856 B856 B856	R-21-A R-21-A R-21-A R-21-A	M-13 M-13 M-13 M-13	3/8
	8 9 10	.165 .148 .134	4.19 3.75 3.40	.857	20.1 21.0 21.7	.776 .810 .837	19.7 20.5 21.2	.875 .909 .936	22.2 23.0 23.7	B853 B849 B851	R-20 R-18 R-19	M-13 M-13 M-13	B854 B850 B852	R-20-A R-18-A R-19-A	M-13 M-13 M-13	3/8
(28.58) 1.1/8	11 12 13	.120 .109 .095	3.04 2.76 2.41	.933	22.4 23.0 23.7	.862 .882 .913	21.9 22.4 23.2	.961 .980 1.012	24.4 24.9 25.7	B855 B857 B859	R-21 R-21 R-22	M-13 M-14 M-14	B856 B858 B860	R-21-A R-21-A R-22-A	M-13 M-14 M-14	1./2
1.1/0	14 15 16	.083 .072 .065	2.10 1.82 1.65	.980 .992	24.3 24.9 25.2	.961 .961 .988	23.7 24.4 24.4	1.043 1.071 1.071	26.5 27.2 27.2	B861 B863 B863	R-23 R-24 R-24	M-15 M-15 M-15	B862 B864 B864	R-23-A R-24-A R-24-A	M-15 M-15 M-15	1./2
	17 18	.058 .049	1.47 1.24	1.01 1.03	25.6 26.0	.988 .988	25.1 25.1	1.098 1.098	27.9 27.9	B867 B867	R-26 R-26	M-16 M-16	B868 B868	R-26-A R-26-A	M-16 M-16	1./2
	8 9 10	.165 .148 .134	4.19 3.75 3.40	.920 .954 .982	24.2	.901 .935 .962	22.8 23.7 24.4	1.010 1.044 1.071	25.6 26.5 27.2	B865 B861 B863	R-25 R-23 R-24	M-15 M-15 M-15	B866 B862 B864	R-25-A R-23-A R-24-A	M-15 M-15 M-15	1./2
(31.75)	11 12 13	.120 .109 .095	3.04 2.76 2.41	1.032	) 25.6 2 26.2 ) 26.9	.990 1.013 1.039	25.1 25.7 26.4	1.099 1.122 1.150	27.9 28.5 29.2	B867 B869 B871	R-26 R-27 R-28	M-16 M-16 M-17	B868 B870 B872	R-26-A R-27-A R-28-A	M-16 M-16 M-17	1./2
1.1/4	14 15 16	.083 .072 .065	2.10 1.82 1.65	1.106	4 27.5 5 28.0 0 28.4	1.060 1.087 1.087	26.9 27.6 27.6	1.169 1.196 1.196	29.6 30.3 30.3	B873 B875 B875	R-29 R-30 R-30	M-17 M-17 M-17	B874 B876 B876	R-29-A R-30-A R-30-A	M-17 M-17 M-17	1./2
	17 18	.058 .049	1.47 1.24		4 28.8 2 29.2	1.115 1.115	28.3 28.3	1.224 1.224	31.0 31.0	B879 B879	R-30 R-30	M-18 M-18	B880 B880	R-30-A R-30-A	M-18 M-18	1./2
	8 9 10	.165 .148 .134	4.19 3.75 3.40		5 26.5 9 27.4 7 28.1	1.026 1.060 1.087	26.0 26.9 27.6	1.135 1.169 1.196	28.8 29.6 30.3	B877 B873 B875	R-31 R-29 R-30	M-17 M-17 M-17	B878 B874 B876	R-31-A R-29-A R-30-A	M-17 M-17 M-17	1./2
(34.92) 1.3/8	11 12 13		3.04 2.76 2.41	1.135 1.157 1.185	29.3	1.115 1.133 1.160	28.3 28.7 29.4	1.224 1.242 1.275	31.0 31.5 32.3	B879 B881 B883	R-30 R-32 R-33	M-18 M-18 M-19	B880 B882 B884	R-30-A R-32-A R-33-A	M-18 M-18 M-19	1./2
	14 15 16	.083 .072 .065	2.10 1.82 1.65	1.209 1.231 1.245	31.2	1.179 1.206 1.206	29.9 30.6 30.6	1.294 1.321 1.321	32.8 33.5 33.5	B885 B887 B887	R-34 R-35 R-35	M-20 M-20 M-20	B886 B888 B888	R-34-A R-35-A R-35-A	M-20 M-20 M-20	1./2
	8 9 10	.165 .148 .134	4.19 3.75 3.40	1.170 1.204 1.232	30.5	1.145 1.177 1.206	29.0 29.9 30.6	1.260 1.290 1.321	32.0 32.8 33.5	B889 B885 B887	R-34 R-34 R-35	M-19 M-20 M-20	B890 B886 B888	R-34-A R-34-A R-35-A	M-19 M-20 M-20	1./2
(29.10)	11 12 13	.120 .109 .095	3.04 2.76 2.41	1.260 1.282 1.310	32.5	1.235 1.257 1.285	31.3 31.9 32.6	1.350 1.372 1.400	34.2 34.8 35.5	B891 B893 B895	R-36 R-37 R-37	M-20 M-20 M-21	B892 B894 B896	R-36-A R-37-A R-37-A	M-20 M-20 M-21	1./2
(38.10) 1.1/2	14 15 16	.083 .072 .065	2.10 1.82 1.65	1.334 1.356 1.370	34.4	1.285 1.331 1.331	32.6 33.8 33.8	1.400 1.446 1.446	35.5 36.7 36.7	B895 B897 B897	R-37 R-38 R-38	M-21 M-21 M-21	B896 B898 B898	R-37-A R-38-A R-38-A	M-21 M-21 M-21	1./2
	17 18 19 20	.058 .049 .042 .035	1.47 1.24 1.06 0.88	1.384 1.402 1.416 1.430	35.6 35.9	1.331 1.331 1.331 1.331	33.8 33.8 33.8 33.8 33.8	1.472 1.472 1.472 1.472	37.3 37.3 37.3 37.3 37.3	B899 B899 B899 B899 B899	R-38 R-38 R-38 R-38	M-22 M-22 M-22 M-22	B900 B900 B900 B900	R-38-A R-38-A R-38-A R-38-A	M-22 M-22 M-22 M-22	1./2



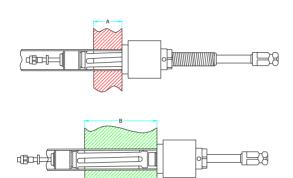
### **B800-5 SERIES**

#### 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.





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

FITTEI	PANDERS D WITH LENGTH	FOR TUB ADJUSTABI MINIMUM A	
2.1/4" (57.1mm)	STD. REACH	(12.7mm) <sup>1</sup> / <sub>2</sub> "	(101.4mm) 4"
	6" REACH	(12.7mm) <sup>1</sup> / <sub>2</sub> "	(152.4mm) 6"
	8" REACH	(12.7mm) <sup>1</sup> / <sub>2</sub> "	(203.2mm) 8"

Tube O.D.		Tube		Tube I. D.		Minimum I. D. Tool Enters		Maxir Expansio		EXPANDI 1.1/2	ER with (2 ' Long ro			DER with ( " Long ro	57.15mm) llers
(Mm) inch	Bwg I	cknes nch	s Mm	I. Inch	D. 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	18 . 19 . 20 .	058 049 042 035 032	1.47 1.24 1.06 0.88 0.81	.509 .527 .541 .555 .561	12.9 13.4 13.7 14.1 14.2	.499 .517 .522 .536 .536	12.6 13.1 13.3 13.6 13.6	.564 .576 .582 .596 .596	14.3 14.6 14.8 15.1 15.1	B815-5 B817-5 B819-5 B819-5 S B819-5 S	R-4-5 R-4-5 R-4-5 R-4-5 R-4-5	816-5 M-9 820-5 820-5 S 820-5 S	B816-5 B820-5 B820-5 S B820-5 S	R-4-A-5 	816-5 820-5 820-5 S 820-5 S
	13 .	028 095 083	0.71 2.41 2.10	.569 .560 .584	14.5 14.2 14.8	.536 .550 .574	13.6 13.9 14.5	.596 .615 .629	15.1 15.6 15.9	B819-5 S B821-5 B823-5	R-4-5 R-5-5 R-6-5	820-5 S 822-5 824-5	B820-5 S B822-5 B824-5	R-4-A-5 R-5-A-5 R-6-A-5	820-5 S 822-5 824-5
	15 . 16 .	072 065 058	1.82 1.65 1.47	.606 .620 .630	15.3 15.7 16.1	.596 .605 .619	14.9 15.3 15.7	.661 .680 .699	16.8 17.2 17.8	B825-5 B827-5 B829-5	R-0-5 R-7-5 R-7-5 R-7-5	826-5 M-13 830-5	B826-5 B828-5 B830-5	R-7-A-5 R-7-A-5 R-7-A-5	826-5 M-13 830-5
(19.05)	18 .	049 042	1.24 1.06	.650 .652 .666	16.5	.619	15.7 15.7 16.3	.699	17.8 17.8 18.5	B829-5 B831-5	R-7-5 R-9-5	830-5 M-13	B830-5 B832-5	R-7-A-5 R-9-A-5	830-5 M-13
3/4	20 .	035 032	0.88 0.81	.680 .680 .686	17.2 17.4	.642	16.3 16.3	.729 .729 .729	18.5 18.5 18.5	B831-5 B831-5	R-9-5 R-9-5	M-13 M-13 M-13	B832-5 B832-5	R-9-A-5 R-9-A-5	M-13 M-13
	23 . 24 .	028 025 022 020	0.71 0.64 0.56 0.51	.694 .700 .706 .710	17.6 17.8 17.9 18.0	.642 .670 .670 .685	16.3 17.0 17.0 17.4	.729 .747 .747 .750	18.5 18.9 18.9 19.0	B831-5 B833-5 B833-5 B835-5	R-9-5 R-9-5 R-9-5 R-10-5	M-13 M-14-3/8 M-14-3/8 M-15-3/8	B832-5 B834-5 B834-5 B836-5	R-9-A-5 R-9-A-5 R-9-A-5 R-10-A-5	M-13 M-14-3/8 M-14-3/8 M-15-3/8



### B800-5 SERIES



Tube O.D.	Tube	Tube	Minimum I. D.	Maximum	EXPANDER with (38.10mm) 1.1/2" Long rollers	EXPANDER with (57.15mm) 2.1/4" Long rollers
(Mm) inch	Thickness Bwg Inch Mm	I. D. Inch Mm	Tool Enters Inch Mm	Expansion of Tool Inch Mm	Complete Roller Mandrel Tool No. Set No. No.	Complete Roller Mandrel Tool No. Set No. No.
	13.0952.4114.0832.1016.0651.65	.685 17.4 .709 18.0 .745 18.9	.670 17.0 .685 17.4 .726 18.4	.747 18.9 .750 19.0 .800 20.3	B833-5     R-9-5     M-14-3/8       B835-5     R-10-5     M-15-3/8       B839-5     R-11-5     840-5	B834-5 R-9-A-5 M-14-3/8 B836-5 R-10-A-5 M-15-3/8 B840-5 R-11-A-5 840-5
(22.22)	17.0581.4718.0491.2419.0421.07	.759 19.2 .777 19.7 .791 20.1	.740 18.8 .740 18.8 .763 19.4	.824 20.9 .824 20.9 .851 21.6	B843-5     R-11-5     M-17-3/8       B843-5     R-11-5     M-17-3/8       B845-5     R-11-5     M-17-3/8	B844-5 R-11-A-5 M-17-3/8 B844-5 R-11-A-5 M-17-3/8 B846-5 R-11-A-5 M-18-3/8
7/8	20.0350.8921.0320.8122.0280.71	.805 20.4 .811 20.6 .819 20.8	.763 19.4 .763 19.4 .763 19.4	.851 21.6 .851 21.6 .851 21.6	B845-5     R-11-5     M-18-3/8       B845-5     R-11-5     M-18-3/8       B845-5     R-11-5     M-18-3/8       B845-5     R-11-5     M-18-3/8	B846-5 R-11-A-5 M-18-3/8 B846-5 R-11-A-5 M-18-3/8 B846-5 R-11-A-5 M-18-3/8
	23 .025 0.64 24 .022 0.56	.825 20.9 .831 21.1	.791 20.1 .791 20.1	.880 22.4 .880 22.4	B847-5 R-13-5 M-18-3/8 B847-5 R-13-5 M-18-3/8	B848-5 R-13-A-5 M-18-3/8 B848-5 R-13-A-5 M-18-3/8
	12.1092.7613.0952.4114.0832.10	.782 19.8 .810 20.5 .834 21.2	.763 19.4 .791 20.1 .810 20.5	.852 21.6 .880 22.4 .879 22.3	B845-5     R-11-5     M-18-3/8       B847-5     R-13-5     M-18-3/8       B879-5     R-12-5     850-5	B846-5     R-11-A-5     M-18-3/8       B848-5     R-13-A-5     M-18-3/8       B850-5     R-12-A-5     M-18-3/8
	15.0721.8216.0651.6517.0581.47	.856 21.7 .870 22.0 .884 22.4	.837 21.3 .837 21.3 .865 22.0	.936 23.8 .936 23.8 .965 24.5	B851-5     R-13-5     852-5       B851-5     R-13-5     852-5       B855-5     R-13-5     856-5	B852-5R-13-A-5852-5B852-5R-13-A-5852-5B856-5R-13-A-5856-5
(25.40) 1	18.0491.2419.0421.0620.0350.88	.902 22.9 .916 23.2 .930 23.6	.865 22.0 .865 22.0 .865 22.0	.96524.5.96524.5.96524.5	B855-5     R-13-5     856-5       B855-5     R-13-5     856-5       B855-5     R-13-5     856-5	B856-5     R-13-A-5     856-5       B856-5     R-13-A-5     856-5       B856-5     R-13-A-5     856-5
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.936 23.8 .944 24.0 .950 24.1 .956 24.3 .960 24.4	.883 22.4 .883 22.4 .883 22.4 .883 22.4 .883 22.4 .883 22.4	.99725.3.99725.3.99725.3.99725.3.99725.3	B857-5     R-15-5     M-21-3/8       B857-5     R-15-5     M-21-3/8	B858-5     R-15-A-5     M-21-3/8       B858-5     R-15-A-5     M-21-3/8
(28.58) 1.1/8	12     .109     2.76       13     .095     2.41       14     .083     2.11	.907 23.0 .935 23.7 .959 24.3	.883 22.4 .916 23.2 .935 23.7	.99725.31.00025.41.03926.4	B857-5     R-15-5     M-21-3/8       B859-5     R-16-5     860-5       B861-5     R-17-5     862-5	B858-5     R-15-A-5     M-21-3/8       B960-5     R-16-A-5     860-5       B862-5     R-17-A-5     862-5
	22 .028 0.71 24 .022 0.56	1.069 27.2 1.081 27.5	1.039 26.4 1.039 26.4	1.157 29.4 1.157 29.4	B871-5     R-19-5     872-5       B871-5     R-19-5     872-5	B872-5     R-19-A-5     872-5       B872-5     R-19-A-5     872-5
	15.0721.8216.0651.6517.0581.47	1.106 28.1 1.120 28.4 1.134 28.8	1.08727.61.08727.61.11528.3	1.19630.41.19630.41.23131.3	B875-5     R-21-5     876-5       B875-5     R-21-5     876-5       B879-5     R-21-5     880-5	B876-5     R-21-A-5     876-5       B876-5     R-21-A-5     876-5       B880-5     R-21-A-5     880-5
(31.75) 1.1/4	18.0491.2419.0421.0720.0350.88	1.152 29.3 1.166 29.6 1.180 30.0	1.11528.31.11528.31.11528.3	1.231     31.3       1.231     31.3       1.231     31.3	B879-5     R-21-5     880-5       B879-5     R-21-5     880-5       B879-5     R-21-5     880-5	B880-5     R-21-A-5     880-5       B880-5     R-21-A-5     880-5       B880-5     R-21-A-5     880-5
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.18630.11.19430.31.20030.51.20630.6	1.11528.31.11528.31.13328.81.13328.8	1.23131.31.23131.31.24231.51.24231.5	B879-5     R-21-5     880-5       B879-5     R-21-5     880-5       B881-5     R-21-5     882-5       B881-5     R-21-5     882-5	B880-5     R-21-A-5     880-5       B880-5     R-21-A-5     880-5       B882-5     R-21-A-5     882-5       B882-5     R-21-A-5     882-5       B882-5     R-21-A-5     882-5
(34.92) 1.3/8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.15429.31.20930.71.30533.21.31933.51.33133.8	1.13328.81.17929.91.25731.91.28532.61.28532.6	1.242     31.5       1.296     32.9       1.385     35.2       1.417     36.0       1.417     36.0	B881-5     R-21-5     882-5       B885-5     R-23-5     882-5       B893-5     R-26-5     894-5       B895-5     R-26-5     896-5       B895-5     R-26-5     896-5	B882-5     R-21-A-5     882-5       B882-5     R-23-A-5     882-5       B894-5     R-26-A-5     894-5       B896-5     R-26-A-5     896-5       B896-5     R-26-A-5     896-5
	17.0581.4718.0491.2419.0421.06	1.384 35.1 1.402 35.6 1.416 36.0	1.33133.81.33133.81.33133.8	1.48937.81.48937.81.48937.8	B899-5     R-29-5     900-5       B899-5     R-29-5     900-5       B899-5     R-29-5     900-5       B899-5     R-29-5     900-5	B900-5R-29-A-5900-5B900-5R-29-A-5900-5B900-5R-29-A-5900-5
(38.10) 1.1/2	20.0350.8921.0320.8122.0280.71	1.430 36.3 1.436 36.5 1.444 36.7	1.33133.81.33133.81.33133.8	1.48937.81.48937.81.48937.8	B899-5R-29-5900-5B899-5R-29-5900-5B899-5R-29-5900-5	B900-5R-29-A-5900-5B900-5R-29-A-5900-5B900-5R-29-A-5900-5
	23 .025 0.64 24 .022 0.56	1.450 36.8 1.456 37.0	1.331 33.8 1.331 33.8	1.489 37.8 1.489 37.8	B899-5 R-29-5 900-5 B899-5 R-29-5 900-5	B900-5 R-29-A-5 900-5 B900-5 R-29-A-5 900-5



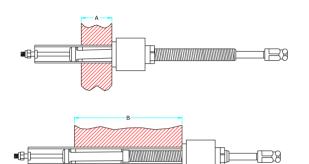


#### FEATURES

• Use -This is recommended for heat exchanger & condenser with tubes of 5/8"- 1.1/2" O.D. & thick tube sheets.



Sizes Available : 1/2" O.D. to 1.1/2" O.D. Tube Internal diameter : 8.4mm (0.334") to 36.3mm (1.43") Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)



FITTE	PANDERS D WITH LENGTH		BE SHEET BLE RANGE MAXIMUM B
(38.1mm) 1.1/2"	STD. REACH	(38.1mm) 1.1/2"	(152.4mm) 6"
	"A" REACH	(38.1mm) 1.1/2"	(203.2mm) 8"
	"B" REACH	(38.1mm) 1.1/2"	(253.8mm) 10"
	"C" REACH	(38.1mm) 1.1/2"	(304.6mm) 12"
(57.1mm) 2.1/4"	STD. REACH	(57.1mm) 2.1/4"	(171.4mm) 6.3/4"
	"A" REACH	(57.1mm) 2.1/4"	(222.1mm) 8.3/4"
	"B" REACH	(57.1mm) 2.1/4"	(272.8mm) 10.3/4"
	"C" REACH	(57.1mm) 2.1/4"	(323.6mm) 12.3/4"

Tube O.D. (Mm) inch		Tube icknes Inch	ss Mm	Tu I. Inch	D.	Minim Tool I Inch		Maxin Expansion Inch			" Long ro	(38.10mm) llers Mandrel No.		" Long ro	57.15mm) llers Mandrel No.	Ratchet Size Square Inch
(12.70)	15 16	.083 .072 .065	2.10 1.82 1.65	.334 .356 .370	8.4 9.0 9.4	.324 .348 .360	8.2 8.8 9.1	.374 .398 .410	9.5 10.1 10.4	B1197 B1199 B1201	797 R-1 R-1	1197 1199 M-51	- - -	- - -	- - -	3/8
1/2	18	.058 .049 .035	1.47 1.24 0.88	.384 .402 .430	9.7 10.2 10.9	.374 .392 .406	9.5 9.9 10.3	.424 .447 .461	10.7 11.3 11.7	B1203 B1205 B1205 S	R-2 R-3 R-3	M-51 M-52 M-53	- - -	- - -	- -	3/8
	13	.109 .095 .083	2.76 2.41 2.10	.407 .435 .459	10.3 11.0 11.6	.392 .425 .449	9.9 10.8 11.4	.447 .480 .509	11.3 12.1 12.9	B1205 B1207 B1209	R-3 R-4 R-4	M-52 M-53 M-54	B1208 B1210		M-53 M-54	3/8
(15.88) 5/8	16 17	.072 .065 .058 .049	1.82 1.65 1.47 1.24	.481 .495 .509 .527	12.2 12.5 12.9 13.3	.471 .485 .499 .517	11.9 12.3 12.6 13.1	.536 .550 .564 .572	13.6 13.9 14.3 14.5	B1211 B1213 B1215 B1217	R-5 R-6 R-7	M-55 M-55 M-56 M-57	B1212 B1214 B1216 B1218	R-5-A R-6-A R-6-A R-7-A	M-55 M-55 M-56 M-57	3/8
	20 21	.042 .035 .032 .028	1.06 0.88 0.81 0.71	.541 .555 .561 .569	13.7 14.1 14.2 14.4	.522 .536 .536 .536	13.2 13.6 13.6 13.6	.582 .596 .596 .596	14.7 15.1 15.1 15.1	B1219 B1219S B1219S B1219S B1219S	R-7 R-7 R-7 R-7	M-56 M-58 M-58 M-58	B1220 B1220S B1220S B1220S B1220S	R-7-A R-7-A R-7-A R-7-A	M-56 M-58 M-58 M-58	3/8
(19.05)	11 12 13 14	.134 .120 .109 .095 .083 .072	3.40 3.04 2.76 2.41 2.10 1.82	.482 .510 .532 .560 .584 .606	12.2 12.9 13.5 14.2 14.8 15.3	.471 .499 .522 .550 .574 .596	11.9 12.6 13.2 13.9 14.5 15.1	.536 .564 .582 .615 .639 .661	13.6 14.3 14.7 15.6 16.2 16.7	B1211 B1215 B1219 B1221 B1223 B1225	R-5 R-6 R-7 R-8 R-9 R-10	M-55 M-56 M-56 M-58 M-58 M-58	B1212 B1216 B1220 B1222 B1224 B1226	R-5-A R-6-A R-7-A R-8-A R-9-A R-10-A	M-55 M-56 M-56 M-58 M-58 M-58	3/8 3/8
3/4	16 17	.072 .065 .058 .049	1.65 1.47 1.24	.620 .630 .652	15.5 15.7 16.1 16.5	.605 .619 .619	15.1 15.3 15.7 15.7	.685 .699 .699	17.4 17.7 17.7	B1223 B1227 B1229 B1229	R-10 R-10 R-11 R-11	M-58 M-59 M-59 M-59	B1228 B1228 B1230 B1230	R-10-A R-11-A R-11-A	M-58 M-59 M-59 M-59	3/8
	20 21	.042 .035 .032 .028	1.06 0.88 0.81 0.71	.666 .680 .686 .694	16.9 17.2 17.4 17.6	.642 .642 .642 .642	16.3 16.3 16.3 16.3	.722 .722 .722 .722	18.3 18.3 18.3 18.3	B1231 B1231 B1231 B1231	R-12 R-12 R-12 R-12	M-59 M-59 M-59 M-59	B1232 B1232 B1232 B1232 B1232	R-12-A R-12-A R-12-A R-12-A	M-59 M-59 M-59 M-59	3/8
	11 12	.134 .120 .109	3.40 3.04 2.76	.607 .635 .657	15.4 16.1 16.6	.596 .619 .642	15.1 15.7 16.3	.661 .699 .722	16.7 17.7 18.3	B1225 B1229 B1231	R-10 R-11 R-12	M-58 M-59 M-59	B1226 B1230 B1232	R-10-A R-11-A R-12-A	M-58 M-59 M-59	3/8
(22.22) 7/8	14 15	.095 .083 .072 .065	2.41 2.10 1.82 1.65	.685 .709 .731 .745	17.4 18.0 18.5 18.9	.670 .685 .712 .726	17.0 17.4 18.0 18.4	.750 .774 .801 .815	19.0 19.6 20.3 20.7	B1233 B1235 B1237 B1239	R-13 R-14 R-15 R-15	M-60 M-61 M-61 M-62	B1234 B1236 B1238 B1240	R-13-A R-14-A R-15-A R-15-A	M-60 M-61 M-61 M-62	3/8
	17	.063 .058 .049	1.03 1.47 1.24	.759 .777	19.2 19.7	.720 .740 .740	18.4 18.8 18.8	.815 .829 .829	20.7 21.0 21.0	B1239 B1243 B1243	R-16 R-16	M-62 M-62	B1240 B1244 B1244	R-16-A R-16-A	M-62 M-62	3/8



### **'B1200' SERIES**



Tube O.D.	Tube Thickness	Tube I. D.	Minimum I. D. Tool Enters	Maximum Expansion of Tool	EXPANDER with (3 1.1/2" Long roll	lers	2.1/4'	R with (57.15mm) 'Long rollers	Ratchet Size
(Mm) inch	Bwg Inch Mm	Inch Mm	Inch Mm	Inch Mm	Complete Roller Tool No. Set No.	Mandrel No.	Complete Tool No.	Roller Mandrel Set No. No.	Square Inch
	8 .165 4.19 9 .148 3.75 10 .134 3.40	.669 17.0 .701 17.8 .728 18.5	.654 16.6 .685 17.4 .709 18.0	.732 18.6 .772 19.6 .799 20.3	B1241 R-13 B1235 R-14 B1237 R-15	M-59 M-61 M-61	B1242 B1236 B1238	R-13-A M-59 R-14-A M-61 R-15-A M-61	3/8
(25.40)	11.1203.0412.1092.7613.0952.41	.760 19.3 .787 19.8 .807 20.5	.760 18.8 .787 19.3 .807 20.0	.827 21.0 .850 21.6 .878 22.3	B1243 R-16 B1245 R-17 B1247 R-18	M-62 M-62 M-62	B1244 B1246 B1248	R-16-A M-62 R-17-A M-62 R-18-A M-62	3/8
1	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	.831 21.1 .854 21.7 .870 22.1	.835 20.5 .835 21.2 .862 21.2	.906 23.0 .933 23.7 .933 23.7	B1249 R-18 B1251 R-19 B1251 R-19	M-63 M-63 M-63	B1250 B1252 B1252	R-18-A M-63 R-19-A M-63 R-19-A M-63	3/8
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	.882 22.4 .902 22.9 .913 23.2 .929 23.6	.862 21.9 .862 21.9 .862 21.9 .862 21.9 .862 21.9	.961 24.4 .961 24.4 .961 24.4 .961 24.4 .961 24.4	B1255     R-21       B1255     R-21       B1255     R-21       B1255     R-21	M-63 M-63 M-63 M-63	B1256 B1256 B1256 B1256	R-21-A     M-63       R-21-A     M-63       R-21-A     M-63       R-21-A     M-63	3/8
	8 .165 4.19 9 .148 3.75 10 .134 3.40	.795 20.1 .827 21.0 .854 21.7	.776 19.7 .807 20.5 .835 21.2	.874 22.2 .906 23.0 .933 23.7	B1253 R-20 B1249 R-18 B1251 R-19	M-63 M-63 M-63	B1254 B1250 B1252	R-20-A M-63 R-18-A M-63 R-19-A M-63	3/8
(28.58)	11.1203.0412.1092.7613.0952.41	.882 22.4 .906 23.0 .933 23.7	.862 21.9 .882 22.4 .913 23.2	.961 24.4 .980 24.9 1.012 25.7	B1255 R-21 B1257 R-21 B1259 R-22	M-63 M-64 M-64	B1256 B1258 B1260	R-21-A M-63 R-21-A M-64 R-22-A M-64	1./2
1.1/8	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	.957 24.3 .980 24.9 .992 25.2	.961 23.7 .961 24.4 .988 24.4	1.043     26.5       1.071     27.2       1.071     27.2	B1261     R-23       B1263     R-24       B1263     R-24	M-65 M-65 M65	B1262 B1264 B1264	R-23-A M-65 R-24-A M-65 R-24-A M-65	1./2
	17 .058 1.47 18 .049 1.24	1.01 25.6 1.03 26.0	.988 25.1 .988 25.1	1.098     27.9       1.098     27.9	B1267 R-26 B1267 R-26	M-66 M-66	B1268 B1268	R-26-A M-66 R-26-A M-66	1./2
	8 .165 4.19 9 .148 3.75 10 .134 3.40	.920 23.3 .954 24.2 .982 24.9	.901 22.8 .935 23.7 .962 24.4	1.010 25.6 1.044 26.5 1.071 27.2	B1265 R-25 B1261 R-23 B1263 R-24	M-65 M-65 M-65	B1266 B1262 B1264	R-25-A M-65 R-23-A M-65 R-24-A M-65	1./2
(31.75)	11.1203.0412.1092.7613.0952.41	$\begin{array}{cccc} 1.010 & 25.6 \\ 1.032 & 26.2 \\ 1.060 & 26.9 \end{array}$	.990 25.1 1.013 25.7 1.039 26.4	1.09927.91.12228.51.15029.2	B1267 R-26 B1269 R-27 B1271 R-28	M-66 M-66 M-67	B1268 B1270 B1272	R-26-A M-66 R-27-A M-66 R-28-A M-67	1./2
1.1/4	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1.084 27.5 1.106 28.0 1.120 28.4	1.06026.91.08727.61.08727.6	1.169     29.6       1.196     30.3       1.196     30.3	B1273R-29B1275R-30B1275R-30	M-67 M-67 M-67	B1274 B1276 B1276	R-29-A M-67 R-30-A M-67 R-30-A M-67	1./2
	17 .058 1.47 18 .049 1.24	1.134 28.8 1.152 29.2	1.115     28.3       1.115     28.3	1.224     31.0       1.224     31.0	B1279 R-30 B1279 R-30	M-68 M-68	B1280 B1280	R-30-A M-68 R-30-A M-68	1./2
	8 .165 4.19 9 .148 3.75 10 .134 3.40	1.045 26.5 1.079 27.4 1.107 28.1	1.026 26.0 1.060 26.9 1.087 27.6	1.135 28.8 1.169 29.6 1.196 30.3	B1277 R-31 B1273 R-29 B1275 R-30	M-67 M-67 M-67	B1278 B1274 B1276	R-31-A M-67 R-29-A M-67 R-30-A M-67	1./2
(34.92) 1.3/8	11.1203.0412.1092.7613.0952.41	1.135 28.8 1.157 29.3 1.185 30.1	1.11528.31.13328.71.16029.4	1.22431.01.24231.51.27532.3	B1279R-30B1281R-32B1283R-33	M-68 M-68 M-69	B1280 B1282 B1284	R-30-A M-68 R-32-A M-68 R-33-A M-69	1./2
	14     .083     2.10       15     .072     1.82       16     .065     1.65	1.209 30.7 1.231 31.2 1.245 31.6	1.17929.91.20630.61.20630.6	1.294     32.8       1.321     33.5       1.321     33.5	B1285     R-34       B1287     R-35       B1287     R-35	M-70 M-70 M-70	B1286 B1288 B1288	R-34-AM-70R-35-AM-70R-35-AM-70	1./2
	8 .165 4.19 9 .148 3.75 10 .134 3.40	1.170 29.7 1.204 30.5 1.232 31.2	1.14529.01.17729.91.20630.6	1.260     32.0       1.290     32.8       1.321     33.5	B1289 R-34 B1285 R-34 B1287 R-35	M-69 M-70 M-70	B1290 B1286 B1288	R-34-A M-69 R-34-A M-70 R-35-A M-70	1./2
(38.10)	11.1203.0412.1092.7613.0952.41	$\begin{array}{cccc} 1.260 & 32.0 \\ 1.282 & 32.5 \\ 1.310 & 33.2 \end{array}$	1.235 31.3 1.257 31.9 1.285 32.6	1.35034.21.37234.81.40035.5	B1291 R-36 B1293 R-37 B1295 R-37	M-70 M-70 M-71	B1292 B1294 B1296	R-36-A M-70 R-37-A M-70 R-37-A M-71	1./2
1.1/2	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	1.334 33.8 1.356 34.4 1.370 34.8	1.28532.61.33133.81.33133.8	$\begin{array}{ccc} 1.400 & 35.5 \\ 1.446 & 36.7 \\ 1.446 & 36.7 \end{array}$	B1295R-37B1297R-38B1297R-38	M-71 M-71 M-71	B1296 B1298 B1298	R-37-A M-71 R-38-A M-71 R-38-A M-71	1./2
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.384 35.1 1.402 35.6 1.416 35.9 1.430 36.3	1.331     33.8       1.331     33.8       1.331     33.8       1.331     33.8       1.331     33.8	1.472     37.3       1.472     37.3       1.472     37.3       1.472     37.3       1.472     37.3	B1299 R-38 B1299 R-38 B1299 R-38 B1299 R-38 B1299 R-38	M-72 M-72 M-72 M-72	B1300 B1300 B1300 B1300	R-38-A M-72 R-38-A M-72 R-38-A M-72 R-38-A M-72	1./2

9

### 'B1200-5' SERIES



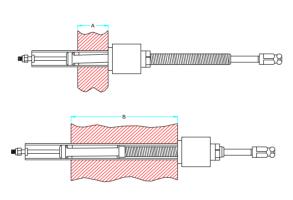
#### 1200-5 Series Rollers For Thin Wall Tubes

#### FEATURES

- Advantage it gives more concentric & even expansion when expanding thin walled tubes vs. A conventional 3 roller expander & reduces spring back effect of the tubes.
- Expanders for tube sizes not listed below are also available. Please enquire.
- Use Highly recommended for use on thin walled tubes (19thru 22 gage walls) of stainless steel, Titanium Incoloy, & other exotic materials in thick tube sheets



Sizes Available : 1/2" O.D. to 1.1/2" O.D. Tube Internal diameter : 8.4mm (0.334") to 36.3mm (1.43") Roller Length of Tube Expander: 1.1/2" (38.1mm) & 2.1/4" (57.1mm)



FITTE	PANDERS D WITH LENGTH		BE SHEET BLE RANGE MAXIMUM B
(38.1mm) 1.1/2"	STD. REACH	(38.1mm) 1.1/2"	(152.4mm) 6"
	"A" REACH	(38.1mm) 1.1/2"	(203.2mm) 8"
	"B" REACH	(38.1mm) 1.1/2"	(253.8mm) 10"
	"C" REACH	(38.1mm) 1.1/2"	(304.6mm) 12"
	"D" REACH	(38.1mm) 1.1/2"	(355.6mm) 14"
(57.1mm) 2.1/4"	STD. REACH	(57.1mm) 2.1/4"	(171.4mm) 6.3/4"
	"A" REACH	(57.1mm) 2.1/4"	(222.1mm) 8.3/4"
	"B" REACH	(57.1mm) 2.1/4"	(272.8mm) 10.3/4"
	"C" REACH	(57.1mm) 2.1/4"	(323.6mm) 12.3/4"
	"D" REACH	(57.1mm) 2.1/4"	(374.6mm) 14.3/4"

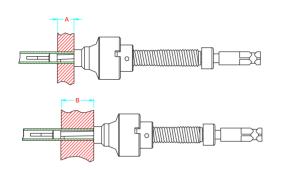
Tube O.D. (Mm) inch	Tube Thickness Bwg Inch	s Mm	Tube I. D. Inch Mn		/linimun Tool Er Inch		Maxim Expansion Inch			' Long ro	(38.10mm) llers Mandrel No.		DER with (57. " Long roller Roller M Set No.	s	Ratchet Size Square Inch
	15 .072	2.10 1.82 1.65	.584 14. .606 15. .620 15.	3 .	.574 .596 .605	14.5 14.9 15.3	.639 .661 .685	16.2 16.7 17.4	B1223-5 B1225-5 B1227-5	R-6-5 R-7-5 R-7-5	1224-5 1226-5 M-63	1224-5 1226-5 1228-5	R-7-A-5 1	224-5 226-5 M-63	3/8
(19.05)	18 .049	1.47 1.24 1.06	.630 16. .652 16. .666 16.	5.	.619 .619 .642	15.7 15.7 16.3	.699 .699 .722	17.8 17.8 18.3	B1229-5 B1229-5 B1231-5	R-7-5 R-7-5 R-9-5	1230-5 1230-5 M-63	1230-5 1230-5 1232-5	R-7-A-5 1	230-5 230-5 M-63	3/8
3/4	21 .032	0.88 0.81 0.71	.680 17. .686 17. .694 17.	4 .	.642 .642 .642	16.3 16.3 16.3	.722 .722 .722	18.3 18.3 18.3	B1231-5 B1231-5 B1231-5	R-9-5 R-9-5 R-9-5	M-63 M-63 M-63	1232-5 1232-5 1232-5	R-9-A-5	M-63 M-63 M-63	3/8
	15 .072	2.10 1.82 1.65	.831 21. .854 21. .870 22.	7 .	.810 .837 .837	20.5 21.2 21.2	.909 .936 .936	23.0 23.7 23.7	B1249-5 B1251-5 B1251-5	R-12-5 R-13-5 R-13-5	1250-5 1251-5 1251-5	1250-5 1252-5 1252-5	R-12-A-5 1 R-13-A-5 1 R-13-A-5 1	251-5	3/8
(25.40) 1	17 .058 18 .049 19 .042	1.47 1.24 1.06	.882 22. .902 22. .913 23.	9 .	.865 .865 .865	21.9 21.9 21.9	.964 .964 .964	24.4 24.4 24.4	B1255-5 B1255-5 B1255-5	R-13-5 R-13-5 R-13-5		1256-5 1256-5 1256-5	R-13-A-5 1 R-13-A-5 1 R-13-A-5 1	256-5	3/8
	21 .032	0.88 0.81 0.71	.929 23. .936 23. .944 24.	8.	.865 .883 .883	21.9 22.4 22.4	.964 .982 .982	24.4 24.9 24.9	B1255-5 B1257-5 B1257-5		1256-5 M-71-3/8 M-71-3/8	1256-5 1258-5 1258-5	R-13-A-5 R-15-A-5 M R-15-A-5 M		3/8
(28.58) 1.1/8	15 .072	2.76 1.82 1.65	.907 23. .981 24. .995 25.	9 .	.883 .962 .962	22.4 24.4 24.4	.982 1.071 1.071	24.9 27.2 27.2	B1257-5 B1263-5 B1263-5	R-15-5 R-18-5 R-18-5	M-71-3/8 1263-5 1263-5	1258-5	R-15-A-5 M	1-71-3/8	3/8 1./2
(38.10) 1.1/2	18 .049 19 .042	1.47 1.24 1.06 0.89	1.384 35. 1.402 35. 1.416 36. 1.430 36.		1.331 1.331 1.331 1.331	33.8 33.8 33.8 33.8	1.472 1.472 1.472 1.472	37.3 37.3 37.3 37.3	B1299-5 B1299-5 B1299-5 B1299-5	R-29-5 R-29-5 R-29-5 R-29-5	1299-5 1299-5 1299-5 1299-5	1300-5 1300-5 1300-5 1300-5	R-29-A-5 1 R-29-A-5 1 R-29-A-5 1 R-29-A-5 1	299-5 299-5	1./2



### **'BAN' SERIES**

#### **FEATURES**

- Increased feed angle makes it the fastest operating tool on the market, ideal for high production environment.
- Advantage: Captive mandrel- eliminates nut on mandrel tip which prevents scratching of tube I. D.
- Use Oil coolers, Radiators, & other apparatus with small diameter tubes.
- NOTE: All 'BAN' series expanders come with 1/4" square mandrel drives. Round mandrel drives are optional.





For Tube Inside Diameter From (3.8mm) .152" to (8.4mm) .331" Sizes Available :1/4" O.D. To 3/8" O.D. Maximumm tube thickness: 18G (1.24mm) Tube Expander Fitted with Roller Length: 1"(25.4mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH		BE SHEET BLE RANGE MAXIMUM B
(25.4mm) 1"	(6.35mm) 1/4"	(25.4mm) 1"

Tube O.D. (Mm)	Tube Thickness	Tube I. D.	Minimum I. D. Tool Enters	Maximum Expansion of Tool	EXPANDER with (25.40 ) 1" Long rollers Complete Roller Mandrel	Ratchet Size Square
inch	Bwg Inch Mm	Inch Mm	Inch Mm	Inch Mm	Tool No. Set No. No.	Inch
	18.0491.2419.0421.0620.0350.88	.152 3.8 .166 4.2 .180 4.5	.148 3.7 .160 4.0 .175 4.4	$\begin{array}{rrrr} .167 & 4.2 \\ .180 & 4.5 \\ .196 & 4.9 \end{array}$	B-25018R-20018M-21819B-25019R-21920M-21819B-25020R-21920M-22021	1/4
(6.35) 1/4	21 .032 0.81 22 .028 0.71 23 .025 0.63	.186 4.7 .194 4.9 .194 5.0	.180 4.5 .190 4.8 .195 4.9	.202 5.1 .213 5.4 .216 5.5	B-25021R-22124M-22021B-25022R-22124M-22022B-25023R-21920M-22324	1/4
	24     .022     0.55       28     .014     0.35       29     .013     0.33       30     .012     0.30	.200     5.2       .206     5.6       .224     5.7       .226     5.7	.201 5.1 .217 5.4 .217 5.4 .217 5.4	.224     5.7       .243     6.1       .243     6.1       .243     6.1	B-25024     R-22124     M-22324       B-25028     R-22830     M-22830       B-25028     R-22830     M-22830       B-25028     R-22830     M-22830       B-25028     R-22830     M-22830	1/4
	14.0832.1015.0721.8216.0651.65	.209 5.3 .231 5.8 .245 6.2	.204     5.1       .225     5.6       .238     6.0	.230     5.8       .265     6.6       .278     7.0	B-37514R-22830-BM-22830B-37515R-22830-BM-22830B-37516R-31516M-31617	1/4
(9.53) 3/8	17.0581.4718.0491.2419.0421.0620.0350.88	.259     6.5       .277     7.0       .291     7.3       .305     7.7	.253     6.4       .270     6.8       .285     7.1       .295     7.4	.293     7.4       .310     7.8       .325     8.1       .335     8.4	B-37517     R-31720     M-31617       B-37518     R-31720     M-30018       B-37519     R-31720     M-30019       B-37520     R-31720     M-32021	1/4
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.311 7.9 .319 8.1 .325 8.2 .331 8.4	.3057.5.3127.9.3188.1.3188.1	.345     8.6       .353     8.9       .363     9.2       .363     9.2	B-37521     R-32122     M-32021       B-37522     R-32122     M-32122       B-37523     R-32324     M-32324       B-37523     R-32324     M-32324	1/4

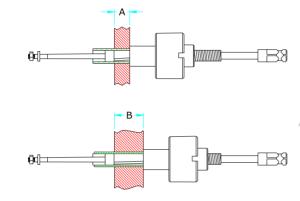


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**'B900' SERIES** 

#### **FEATURES**

- This tool has been the work horse for several years for use on small diameter tubes.
- Use Oil coolers, Radiators, & other apparatus with small.
- NOTE: All 'B900' series expanders come with 1/4" square mandrel drives. Round mandrel drives are optional.



Sizes Available :1/4" O.D. To 3/8" O.D. Tube Internal diameter : 3.8mm (0.152") to 8.4mm (0.331") Roller Length of Tube Expander: 3/4" (19.05mm) & 1.1/4" (31.75mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH		BE SHEET BLE RANGE MAXIMUM B
(19.05mm) 3/4"	(6.35mm) 1/4"	(19.05mm) 3/4"
(31.75mm) 1.1/4"	(19.05mm) 3/4"	(31.75mm) 1.1/4"

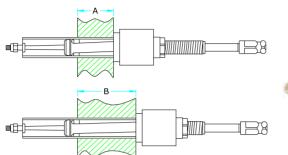
Tube O.D. (Mm)	Tube Thickness	Tube I. D.	Minimum I. D. Tool Enters Expansion of Tool		3/4" Long ro	EXPANDER with (19.05mm) 3/4" Long rollers Complete Roller Mandrel		1.1/4" Long rollers		
inch	Bwg Inch Mm	Inch Mm	Inch Mm	Inch Mm	Tool No. Set No.	o. No.	Tool No.	Set No.	No.	Inch
	18.0491.2419.0421.0620.0350.88	.152 3.8 .166 4.2 .180 4.5	.151 3.8 .165 4.1 .175 4.4	.173 4.4 .185 4.7 .200 5.1	B921921B922922B923923	M-39 M-39 M-40		-	-	1/4
(6.35) 1/4	21.0320.8122.0280.7123.0250.63	.186 4.7 .194 4.9 .200 5.0	.180 4.5 .190 4.8 .195 4.9	.207 5.2 .216 5.5 .222 5.6	B924924B925925B926923	M-40 M-41 M-41		-	-	1/4
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.206 5.2 .222 5.6 .224 5.7 .224 5.7	.2015.1.2225.6.2225.6.2225.6	.230     5.8       .238     6.0       .238     6.0       .238     6.0	B927924B928903B928903B928903	M-41 M-928 M-928 M-928		-	-	1/4
	14.0832.1015.0721.8216.0651.65	.209 5.3 .231 5.8 .245 6.2	.2015.1.2305.8.2406.1	.232     5.8       .265     6.7       .275     6.9	B927924B915903B916916	M-41 M-42 M-36	- B916L	- 916L N	1-36L	1/4
(9.53) 3/8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.259 6.5 .277 7.0 .291 7.3 .305 7.7	.255     6.4       .272     6.9       .286     7.2       .300     7.6	.289 7.3 .307 7.8 .320 8.1 .334 8.4	B918903B901903B903903B905907	M-38 M-30 M-31 M-32	B920 B902 B904 B906	904 N 904 N	M-38 M-30 M-31 M-32	1/4
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.311 7.9 .319 8.1 .325 8.2 .331 8.4	.3067.7.3147.9.3208.1.3208.1	.3408.6.3498.8.3579.0.3579.0	B907907B909909B911911B911911	M-33 M-34 M-34 M-34	B908 B910 B912 B912	910 M 912 M	M-33 M-34 M-34 M-34	1/4



#### **FEATURES**

- Use -This is recommended to expand tubes in air heaters boilers, & refinery still tubes. Can be used to expand thick tube sheets (Upto 8")
- 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.

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For Tube Internal Diameter From (36.1mm) 1.420" to (123.7mm) 4.870"

TUBE EX FITTE ROLLER	D WITH		BE SHEET LE RANGE MAXIMUM B
2.1/4" (57.1mm)	STD. REACH	(12.7mm) ½"	(101.4mm) 4"
	-6" REACH	(12.7mm) ½"	(152.4mm) 6"
	-8" REACH	(12.7mm) ½"	(203.2mm) 8"

Tube O.D.	D. Tube Thickness		Tube Minimum I. D. I. D. Tool Enters			Maxi	mum n of Tool	EXPAND (57.15 mm) 2.1/4		llers		
(Mm)								-		Complete	Roller	Mandrel
inch	Bwg		Mm		Mm	Inch	Mm	Inch	Mm	Tool No.	Set No.	No.
		.165	4.19	1.420		1.368	34.7	1.550	39.3	B8012-1.3/4-8	R-33-A	M-90
(44.45)		.134 .120	3.40	1.482 1.510		1.420 1.454	36.0 36.9	1.607 1.635	40.8 41.5	B8012-1.3/4-10	R-37-A R-42	M-90 M-90
			3.04							B8012-1.3/4-11		
1.3/4		.1.9 .095	2.76 2.41	1.532 1.560		$1.482 \\ 1.510$	37.6 38.3	1.657 1.685	42.0 42.7	B8012-1.3/4-12 B8012-1.3/4-13	R-44 R-46	M-90 M-90
		.093	2.10	1.584		1.510	38.9	1.709	43.4	B8012-1.3/4-13 B8012-1.3/4-14	R-48	M-90
	7	.180	4.57	1.640	42.6	1.507	39.8	1.770	45.0	B8012-2-7	R-46	M-91
	8	.165	4.19	1.670	42.4	1.595	40.5	1.795	45.6	B8012-2-8	<b>R-48</b>	M-91
		.134	3.40	1.732		1.640	41.6	1.857	47.1	B8012-2-10	R-50	M-91
		.120	3.04	1.760		1.670	42.4	1.885	47.8	B8012-2-11	R-52	M-91
(50.80)		.109	2.76	1.782		1.704	43.2	1.907	48.4	B8012-2-12	R-54	M-91
(30.80)		.095	2.41	1.810		1.732	43.9	1.956	49.6	B8012-2-13-18	R-56	M-91
2		.083	2.10	1.834		1.732	43.9	1.956	49.6	B8012-2-13-18	R-56	M-91
		.072	1.83	1.856		1.732	43.9	1.956	49.6	B8012-2-13-18	R-56	M-91
		.065	1.65	1.870		1.732	43.9	1.956	49.6	B8012-2-13-18	R-56	M-91
		.058 .049	1.47 1.24	1.884 1.902		1.732 1.732	43.9 43.9	$1.956 \\ 1.956$	49.6 49.6	B8012-2-13-18 B8012-2-13-18	R-56 R-56	M-91 M-91
		.134 .120	3.40 3.04	1.982 2.010		$1.890 \\ 1.920$	48.0 48.7	2.107 2.135	53.5 54.2	B8012-2.1/4-10 B8012-2.1/4-11	R-56 R-58	M-92 M-92
(55.1.5)		.120	2.76	2.010		1.920	49.6	2.155	54.7	B8012-2.1/4-11 B8012-2.1/4-12	R-58 R-60	M-92 M-92
(57.15)		.095	2.41	2.060		1.982	50.3	2.185	55.4	B8012-2.1/4-13-16	R-62	M-92
2.1/4		.093	2.41	2.080		1.982	50.5 50.3	2.185	55.4	B8012-2.1/4-13-16 B8012-2.1/4-13-16	R-62	M-92 M-92
		.085	1.83	2.106		1.982	50.3	2.185	55.4	B8012-2.1/4-13-16	R-62	M-92 M-92
		.065	1.65	2.120		1.982	50.3	2.185	55.4	B8012-2.1/4-13-16	R-62	M-92
		.177	4.50	2.146		2.050	52.0	2.235	59.3	B8012-2.1/2-7-8	R-45-A	M-92
		.148	3.75	2.204		2.106	53.4	2.380	60.4	B8012-2.1/2-9	R-46-A	M-93
		.134	3.40	2.232		2.140	54.3	2.407	61.1	B8012-2.1/2-10-12	R-64	M-93
		.120 .109	3.04 2.76	2.260 2.282		2.140 2.140	54.3 54.3	2.407 2.407	61.1 61.1	B8012-2.1/2-10-12 B8012-2.1/2-10-12	R-64 R-64	M-93 M-93
(62.50)												
(63.50)		.095 .083	2.41 2.10	2.310 2.334		2.232 2.232	56.6 56.6	2.450 2.450	62.2 62.2	B8012-2.1/2-13-18 B8012-2.1/2-13-18	R-64 R-64	M-94 M-94
2.1/2		.083	1.83	2.354		2.232	56.6	2.450 2.450	62.2	B8012-2.1/2-13-18 B8012-2.1/2-13-18	R-64 R-64	M-94 M-94
2.1/2				2.330								
		.065 .058	1.65 1.47	2.370		2.232 2.232	56.6 56.6	2.450 2.450	62.2 62.2	B8012-2.1/2-13-18 B8012-2.1/2-13-18	R-64 R-64	M-94 M-94
		.038	1.47	2.384		2.232	56.6	2.450	62.2	B8012-2.1/2-13-18 B8012-2.1/2-13-18	R-64	M-94 M-94
	10		1.24	2.402	01.0	2.232	30.0	2.430	02.2	D0012-2.1/2-1J-10	<b>N-04</b>	141-24

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### 'B8012'- SERIES

Tube O.D.	Tube Thickness	Tube I. D.	Minimum I. D. Tool Enters	Maximum Expansion of Tool	EXPANDER with (57.15 mm) 2.1/4" Long Rollers Complete Roller Mandrel
(Mm) inch	Bwg Inch Mm	Inch Mm	Inch Mm	Inch Mm	Tool No. Set No. No.
(69.85)	10   .134   3.40     11   .120   3.04     12   .109   2.76	2.482 63.0 2.510 63.7 2.532 64.3	2.39060.72.39060.72.39060.7	2.702     68.6       2.702     68.6       2.702     68.8	B8012-2.3/4-10-16     R-66     M-96       B8012-2.3/4-10-16     R-66     M-96       B8012-2.3/4-10-16     R-66     M-96
2.3/4	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	2.560 65.0 2.584 65.6 2.606 66.1 2.620 66.5	2.39060.72.39060.72.39060.72.39060.7	2.70268.62.70268.82.70268.82.70268.8	B8012-2.3/4-10-16     R-66     M-96       B8012-2.3/4-10-16     R-66     M-96       B8012-2.3/4-10-16     R-66     M-96       B8012-2.3/4-10-16     R-66     M-96
	8     .165     4.19       9     .148     3.75       10     .134     3.40	2.670 67.8 2.704 68.6 2.732 69.3	2.56065.02.56065.02.64067.0	2.82971.82.82971.82.95274.9	B8012-3-8-9     R-67     M-97       B8012-3-8-9     R-67     M-97       B8012-3-10-18     R-67     M-96
(76.20)	11.1203.0412.1092.7613.0952.41	2.760 70.1 2.782 70.6 2.810 71.3	2.64067.02.64067.02.64067.0	2.95274.92.95274.92.95274.9	B8012-3-10-18     R-67     M-96       B8012-3-10-18     R-67     M-96       B8012-3-10-18     R-67     M-96
3	14.0832.1015.0721.8216.0651.65	2.834 71.9 2.856 72.5 2.870 72.8	2.64067.02.64067.02.64067.0	2.95274.92.95274.92.95274.9	B8012-3-10-18     R-67     M-96       B8012-3-10-18     R-67     M-96       B8012-3-10-18     R-67     M-96
	17 .058 1.47 18 .049 1.24	2.884 73.3 2.902 73.7	2.64067.02.64067.0	2.95274.92.95274.9	B8012-3-10-18R-67M-96B8012-3-10-18R-67M-96
(88.9)	13     .095     2.41       14     .083     2.10       15     .072     1.83	3.311 84.1 3.334 84.7 3.354 85.2	3.19081.03.19081.03.19081.0	3.464     88.0       3.464     88.0       3.464     88.0       3.464     88.0	B8012-3.1/2-10-18     R-70     M-99       B8012-3.1/2-10-18     R-70     M-99       B8012-3.1/2-10-18     R-70     M-99
3.1/2	16     .065     1.65       17     .058     1.47       18     .049     1.24	3.370 85.6 3.385 86.0 3.401 86.4	3.19081.03.19081.03.19081.0	3.46488.03.46488.03.46488.0	B8012-3.1/2-10-18     R-70     M-99       B8012-3.1/2-10-18     R-70     M-99       B8012-3.1/2-10-18     R-70     M-99
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3.480 88.4 3.527 89.6 3.670 93.2	3.42587.03.42587.03.58291.0	3.78096.03.78096.03.940100.0	B8012-4-3-4R-71M-100B8012-4-3-4R-71M-100B8012-4-8-9R-71M-101
(101.6) 4	9 .148 3.75 10 .134 3.40 11 .120 3.04	3.704 94.1 3.732 94.8 3.760 95.5	3.58291.03.66193.03.66193.0	3.940100.03.960100.63.960100.6	B8012-4-8-9R-71M-101B8012-4-10-18R-72M-101B8012-4-10-18R-72M-101
	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3.783 96.1 3.811 96.8 3.834 97.4 3.870 98.3	3.66193.03.66193.03.66193.03.66193.0	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	B8012-4-10-18R-72M-101B8012-4-10-18R-72M-101B8012-4-10-18R-72M-101B8012-4-10-18R-72M-101
(114.2)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3.980 101.1 4.030 102.3 4.170 105.9	3.940100.03.940100.04.020102.0	4.291109.04.291109.04.370111.0	B8012-4.1/2-3-4R-73M-102B8012-4.1/2-3-4R-73M-102B8012-4.1/2-8-9R-73M-102
(114.3) 4.1/2	9 .148 3.75 10 .134 3.40 12 .109 2.76 16 .065 1.65	4.204 106.8 4.232 107.5 4.283 108.8 4.370 111.0	4.020102.04.100104.04.100104.04.100104.0	4.370111.04.450113.04.450113.04.450113.0	B8012-4.1/2-8-9R-74M-102B8012-4.1/210-18R-74M-103B8012-4.1/210-18R-74M-103B8012-4.1/210-18R-74M-103
	3     .259     6.60       4     .236     6.00       8     .165     4.19	4.480 113.8 4.527 115.0 4.670 118.6	4.410112.04.410112.04.566116.0	4.763121.04.763121.04.921125.0	B8012-5-3-4     R-76     M-105       B8012-5-3-4     R-76     M-105       B8012-5-8-9     R-77     M-105
(127.0) 5	9 .148 3.75 10 .134 3.40 11 .120 3.04	4.704 119.5 4.732 120.2 4.763 121.0	4.566116.04.606117.04.606117.0	4.921125.04.960126.04.960126.0	B8012-5-8-9R-77M-105B8012-5-10-18R-78M-105B8012-5-10-18R-78M-105
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.783 121.5 4.834 122.8 4.870 123.7	4.606117.04.606117.04.606117.0	4.960126.04.960126.04.960126.0	B8012-5-10-18R-78M-105B8012-5-10-18R-78M-105B8012-5-10-18R-78M-105



### 'B1300' SERIES

#### **FEATURES**

• Use -Oil coolers, Radiators, & other apparatus with small diameters tubes & thick tube sheets.

3/8" Tube O. D.

Sizes Available : 3/8" Tube Internal diameter : 5.8mm (0.231") to 8.4mm (0.331") Roller Length of Tube Expander: 3/4" (19.05mm) & 1.1/4" (31.75mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH		BE SHEET BLE RANGE MAXIMUM B
(19.05mm) 3/4"	(19.05mm) 3/4"	(76.20mm) 3"
(31.75mm) 1.1/4"	(31.75mm) 1.1/4"	(88.90mm) 3.1/2"

Tube O.D. (Mm) inch		Tube nickne: Inch	ss Mm	Tu I. Inch	be D. Mm	Minimu Tool En Inch		Maxi Expansio Inch	mum n of Tool Mm	EXPANDE 3/4" Complete Tool No.	ER with (1 Long roll Roller Set No.		EXPAND 1.1/4 Complete Tool No.	ER with (3 " Long rol Roller Set No.		Ratchet Size Square Inch
	15 16 17	.072 .065 .058	1.82 1.65 1.47	.231 .245 .259	5.8 6.2 6.5	.230 .240 .255	5.8 6.1 6.4	.265 .275 .289	6.7 6.9 7.3	B1315 B1319 B1317	1315 916 903	M-86 M-86 M-88	B1316 B1319 L B1318	1316 916 L 904	M-86 M-86 M-88	1/4
(9.53) 3/8	18 19 20	.049 .042 .035	1.24 1.06 0.88	.277 .291 .305	7.0 7.3 7.7	.272 .286 .300	6.9 7.2 7.6	.307 .320 .334	7.8 8.1 8.4	B1301 B1303 B1305	903 903 907	M-80 M-81 M-82	B1302 B1304 B1306	904 904 908	M-80 M-81 M-82	1/4
	21 22 23 24	.032 .028 .025 .022	0.81 0.71 0.63 0.55	.311 .319 .325 .331	7.9 8.1 8.2 8.4	.306 .314 .320 .320	7.7 7.9 8.1 8.1	.340 .349 .357 .357	8.6 8.8 9.0 9.0	B1307 B1309 B1311 B1311	907 909 911 911	M-83 M-84 M-84 M-84	B1308 B1310 B1312 B1312	908 910 912 912	M-83 M-84 M-84 M-84	1/4



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