

Tube & Pipe Professional Tools



TACK Conical Expanders Series



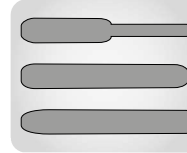
BASIC INFO

Special, conical expanders to expand the tube on the short length before welding.

WORKING RANGE

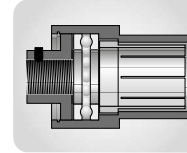
TUBE ID	TUBE OD
8,0 - 50,0 mm	9,5 - 50,8 mm
0,315 - 1,969"	3/8" to 1"

OPTIONAL SPARES AND ACCESSORIES



ROLLS ON REQUEST

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THRUST COLLARS

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ROLLING MOTORS

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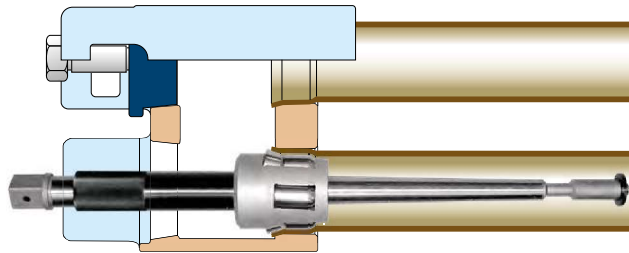
EXPANSION RANGE				TOOL	ROLLS	MANDREL	MANDREL SQUARE		RECOMMENDED MOTOR *	
[MM]		[INCH]					[MM]	[INCH]	AIR	ELECTRIC
MIN	MAX	MIN	MAX							
7,80	9,90	0,307	0,390	TRE-797	R-797	M-797	9,5	3/8	K20-1800	TesMini 2 with HT-0
8,60	11,00	0,339	0,433	TRE-801	R-1	M-1	9,5	3/8	K20-1800	TesMini 2 with HT-0
9,40	12,00	0,370	0,472	TRE-805	R-3	M-2	9,5	3/8	K20-1800	TesMini 2 with HT-0
11,30	14,30	0,445	0,563	TRE-811	R-5	M-5	9,5	3/8	K20-1800	TesMini 2 with HT-0
11,90	15,10	0,469	0,594	TRE-815	R-6	M-6	9,5	3/8	K20-1800	TesMini 2 with HT-0
12,30	15,60	0,484	0,614	TRE-819	R-7	M-6	9,5	3/8	K20-1800	TesMini 2 with HT-0
13,70	17,00	0,539	0,669	TRE-823	R-9	M-8	9,5	3/8	K20-1800	TesMini 2 with HT-0
15,50	19,10	0,610	0,752	TRE-831	R-12	M-9	9,5	3/8	K20-550	TesMini 2 with DU-0
16,20	19,80	0,638	0,780	TRE-833	R-13	M-10	9,5	3/8	K20-550	TesMini 2 with DU-0
17,90	21,85	0,705	0,860	TRE-843	R-16	M-12	9,5	3/8	K20-550	TesMini 2 with DU-0
19,70	23,90	0,776	0,941	TRE-849	R-18	M-13	9,5	3/8	K20-550	TesMini 2 with DU-0
21,10	25,30	0,831	0,996	TRE-855	R-21	M-13	9,5	3/8	K50-1250	TesMini 2 with DU-0
23,50	28,00	0,925	1,102	TRE-863	R-24	M-15	12,7	1/2	K50-1250	TesMini 2 with DU-0
25,60	30,00	1,008	1,181	TRE-871	R-28	M-17	12,7	1/2	K50-1250	TesMini 2 with DU-0
27,90	32,35	1,098	1,274	TRE-881	R-32	M-18	12,7	1/2	K50-1250	TesMini 2 with DU-0
29,10	33,70	1,146	1,327	TRE-885	R-34	M-20	12,7	1/2	K50-600	TesMini 2 with DU-0
31,80	36,40	1,252	1,433	TRE-895	R-37	M-21	12,7	1/2	K50-600	TesMini 2 with DU-0
32,90	38,20	1,295	1,504	TRE-899	R-38	M-22	12,7	1/2	K50-600	TesMini 2 with DU-1
36,40	43,20	1,433	1,701	TRE-9012-13/4-12	R-44	M-90	19,1	3/4	K60-900	TesMini 2 with DU-1
39,20	46,80	1,543	1,843	TRE-8012-2-8	R-48	M-91	19,1	3/4	K60-900	TesMini 2 with DU-1
41,20	49,10	1,622	1,933	TRE-8012-2-11	R-52	M-91	19,1	3/4	K60-900	TesMini 2 with DU-1
42,60	50,90	1,677	2,004	TRE-8012-2-13-18	R-56	M-91	19,1	3/4	K60-900	TesMini 2 with DU-1
46,70	54,80	1,839	2,157	TRE-21/4-10	R-56	M-92	19,1	3/4	K60-900	TesMini 2 with DU-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.

Special tube expanders

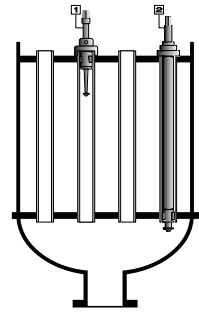
REFINERY TUBE EXPANDER

Tube expander for straight rolling or rolling and flaring very thick-walled tubes in cracking furnace tube seats for tubes outside diameter from 50 to 250 mm (2"-10") and gauges from 6 to 15 mm (0,19" to 0,59"). Flaring 10 to 15 degree. Roll length 38,1 to 101 mm (1-1/2" - 4"). Made on request to drawing of the tube seat.



SUGAR REFINERY EXPANDER

These are fixed rolling length special purpose tools which may be power or hand-driven. They are self-feeding parallel-rolling type. When ordering please give precise details of vessel in which the expander is to be used, quoting size and length of tube, distance over tube plates, tube plate thickness and any tube projection details. Ideally a drawing should be provided.



NOTCHING & EXPANDING



NE notching&expanding type tube expander for thin tube sheet and thin wall tubes. Expand and notch the tube in one operation. The notches lock the tube in front and back side of the tube sheet and prevent to unseal during the transportation or expanding the near by and already expanded tubes. The expansion range is adjustable within 0,005 mm. Do not need the torque controlled drive.



STEP-BY-STEP



STEP-BY-STEP expander are an excellent tool for fast tube rolling in thick tube sheets, from 6" to 24". The Expanders have grooves spaced at 1" (25,4 mm) increments along the cage of the tool, which allows the spring loaded thrust collar, to quickly and efficiently travel along the complete length of the tool. Significant time savings are achieved with this fast step rolling throughout the full width of the tube sheet.

PSE PIPE



PSE expanders are designed to true up the ends of pipe and also to enlarge pipe inside diameters to a specific size in order to create the correct clearance between the pipe OD and ID prior to brazing or silver soldering. The Threaded mandrel allows fast and accurate sizing of the pipe end. Available up to 8" OD.

TWTC



5-Roll expander with TWTC thin wall thrust collar.

LUBRICATION-COOLING BOX



Condenser tube expander with cooling-lubricating box. Made upon order only.

LINSEN EXPANDERS

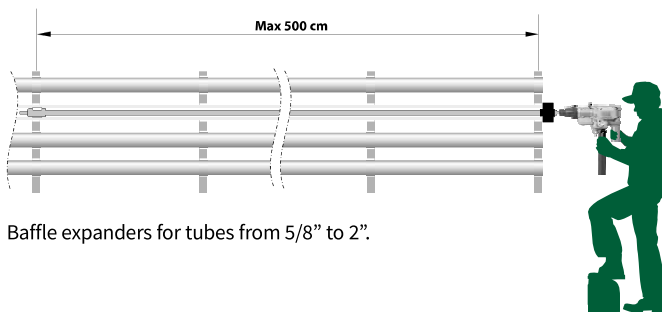
LINSEN expanders can be driven by electric or pneumatic drills. Designed to produce tube end connections without fittings.

Enlarges tube end without distortions or buckling and leaving.

0,015" (0,38 mm) clearance that another tube with the same outside diameter can be inserted and soldered. It is excellent for U-tubes, short bends, for copper, brass aluminium and thin steel tubes. Available from 3/8" (9,5 mm) to 2" (50,8 mm). For more details contact factory.

**SR EXPANDERS**

SR series expanders are designed for expanding tubes with minimum travel of mandrel. Expander mandrel is short and it allows to use SR expanders near tube bends or ID fixed tubes.

BAFFLE TUBE EXPANDERS

Baffle expanders for tubes from 5/8" to 2".

5-ROLL EXPANDER WITH NYLON BUSH

5-Roll expander with nylon bush in front of the cage to protect to the tubes from the scratches. Used for tytanium tubes.

