

TULEX

every tool you need for tubes...



INDUSTRIAL TOOLS (P) LTD.

MANUFACTURERS OF TUBE EXPANDERS

For Heat Exchangers & Condensers / Boilers



AN ISO 9001-2000 COMPANY

Tulex Industrial Tools (P) Ltd, is a fast growing manufacturer & exporter of 'tube tools'. Speed, Quality and Customer Service are the three reasons why "TULEX" is your clear choice for all your needs of 'tube tools'. TULEX understands the needs of the industry. You can depend on us to deliver all of your tool requirements... correct and on time....

TUBE EXPANDER FOR HEAT EXCHANGER AND CONDENSER **TU SERIES**

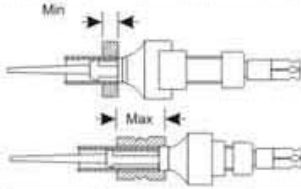


Applications:

Radiators & Oil coolers & others having smaller diameter tubes

Features:

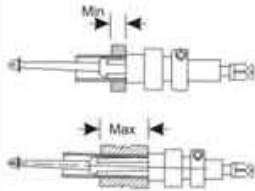
It has a captive mandrel, which eliminates nut on the mandrel tip & prevents scratching of the I.D. of tube. The increased feed angle makes its operation faster & is ideal for high production environments.



Roller Length	TUBE SHEET ADJUSTABLE RANGE	
	Min	Max
1" (25.4 mm)	1/4" (6.35 mm)	1" (25.4 mm)

TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.		MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		EXPANDER WITH 1" (25.4 mm) long rollers			
	inch	mm	inch	mm	inch	mm	EXPANDER PART NO.	ROLLER PART NO.	MANDREL PART NO.	
18	0.152	3.8	0.148	3.7	0.167	4.2	TU-25018	TUR-20018	TUM-21819	
19	0.166	4.2	0.160	4.0	0.180	4.5	TU-25019	TUR-21920	TUM-21819	
20	0.180	4.5	0.175	4.4	0.196	4.9	TU-25020	TUR-21920	TUM-22021	
21	0.186	4.7	0.180	4.5	0.202	5.1	TU-25021	TUR-22124	TUM-22021	
1/4"	22	0.194	4.9	0.190	4.8	0.213	5.4	TU-25022	TUR-22124	TUM-20022
6.35	23	0.200	5.0	0.195	4.9	0.216	5.5	TU-25023	TUR-21920	TUM-22324
	24	0.206	5.2	0.201	5.1	0.224	5.7	TU-25024	TUR-22124	TUM-22324
	27	0.222	5.6	0.217	5.4	0.243	6.1	TU-25028	TUR-22830	TUM-22830
	29	0.224	5.7	0.217	5.4	0.243	6.1	TU-25028	TUR-22830	TUM-22830
	30	0.226	5.7	0.217	5.4	0.243	6.1	TU-25028	TUR-22830	TUM-22830
	14	0.209	5.3	0.204	5.1	0.230	5.8	TU-37514	TUR-21920	TUM-22830
	15	0.231	5.8	0.225	5.6	0.265	6.6	TU-37515	TUR-31516	TUM-22830
	16	0.245	6.2	0.238	6.0	0.278	7.0	TU-37516	TUR-31516	TUM-31617
	17	0.259	6.5	0.253	6.4	0.296	7.4	TU-37517	TUR-31720	TUM-31617
3/8"	18	0.277	7.0	0.270	6.8	0.310	7.8	TU-37518	TUR-31720	TUM-30018
9.53	19	0.291	7.3	0.285	7.1	0.325	8.1	TU-37519	TUR-31720	TUM-30019
	20	0.305	7.7	0.295	7.4	0.335	8.4	TU-37520	TUR-31720	TUM-32021
	21	0.311	7.9	0.305	7.5	0.345	8.6	TU-37521	TUR-32122	TUM-32021
	22	0.319	8.1	0.312	7.8	0.353	8.9	TU-37522	TUR-32122	TUM-32224
	23	0.325	8.2	0.318	8.1	0.363	9.2	TU-37523	TUR-32324	TUM-32224
	24	0.331	8.4	0.318	8.1	0.363	9.2	TU-37524	TUR-32324	TUM-32224

TUBE EXPANDER FOR HEAT EXCHANGER AND CONDENSER TLX - 900 / 1300 SERIES

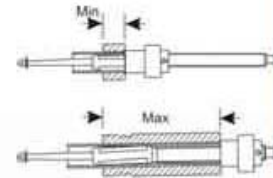


Applications:

Radiators & Oil coolers & others having smaller diameter tubes.

Features:

This tool has been the ultimate tool for several years for use on smaller diameter tubes.



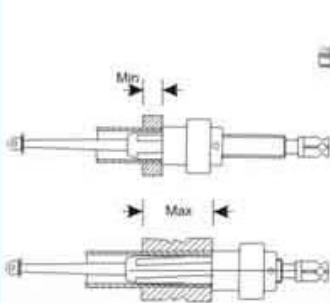
TLX 900 SERIES			TLX 1300 SERIES		
TUBE SHEET ADJUSTABLE RANGE			TUBE SHEET ADJUSTABLE RANGE		
Roller Length	Min.	Max.	Roller Length	Min.	Max.
3/4" (19.05 mm)	1/4" (6.35 mm)	3/4" (19.05 mm)	3/4" (19.05 mm)	3/4" (19.05 mm)	3" (76.20 mm)
1.1/4" (31.75 mm)	3/4" (19.05 mm)	1.1/4" (31.75 mm)	1.1/4" (31.75 mm)	1.1/4" (31.75 mm)	3.1/2" (88.90 mm)

TUBE O.D. IN INCH/BWG GAUGE	TUBE I.D.		MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		900 SERIES EXPANDER WITH				MANDREL PART NO.	1300 SERIES EXPANDER WITH				MANDREL PART NO.
							3/4" (19.05 mm) Long Rollers		1 1/4" (31.75 mm) Long Rollers			3/4" (19.05mm) Long Rollers		1.1/4" (31.75 mm) Long Rollers		
							EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.	
18	0.152	3.8	0.151	3.8	0.173	4.4	TLX-921	TLXR-921		TLXM-39						
19	0.166	4.2	0.165	4.1	0.185	4.7	TLX-922	TLXR-923		TLXM-39						
1/4"	0.180	4.5	0.175	4.4	0.200	5.1	TLX-923	TLXR-923		TLXM-40						
6.35	0.186	4.7	0.180	4.5	0.206	5.2	TLX-924	TLXR-924		TLXM-40						
22	0.194	4.9	0.190	4.8	0.216	5.5	TLX-925	TLXR-925		TLXM-41						
23	0.200	5.0	0.194	4.9	0.222	5.6	TLX-926	TLXR-923		TLXM-41						
24	0.206	5.2	0.200	5.1	0.230	5.8	TLX-927	TLXR-924		TLXM-41						
28	0.222	5.6	0.222	5.6	0.238	6.0	TLX-928	TLXR-903		TLXM-928						
29	0.223	5.7	0.222	5.6	0.238	6.0	TLX-928	TLXR-903		TLXM-928						
30	0.226	5.7	0.222	5.6	0.238	6.0	TLX-928	TLXR-903		TLXM-928						
14	0.209	5.3	0.201	5.1	0.231	5.8	TLX-927	TLXR-924		TLXM-41						
15	0.231	5.8	0.230	5.8	0.265	6.7	TLX-915	TLXR-903		TLXM-42	TLX-1315	TLXR-1315	TLX-1316	TLXR-1316	TLXM-86	
3/8"	0.245	6.2	0.240	6.1	0.275	6.9	TLX-916	TLXR-916		TLXM-36	TLX-1319	TLXR-1315	TLX-1319L	TLXR-916L	TLXM-86	
9.53	0.245	6.2	0.240	6.1	0.275	6.9		TLX-916L	TLXR-916L	TLXM-36L						
17	0.259	6.5	0.255	6.4	0.289	7.3	TLX-918	TLXR-903	TLX-920	TLXR-904	TLXM-38	TLX-1317	TLXR-903	TLX-1318	TLXR-904	TLXM-88
18	0.277	7.0	0.272	6.9	0.305	7.8	TLX-901	TLXR-903	TLX-902	TLXR-904	TLXM-30	TLX-1301	TLXR-903	TLX-1302	TLXR-904	TLXM-80
19	0.291	7.3	0.286	7.2	0.320	8.1	TLX-903	TLXR-903	TLX-904	TLXR-904	TLXM-31	TLX-1303	TLXR-903	TLX-1304	TLXR-904	TLXM-81
20	0.305	7.7	0.300	7.6	0.334	8.4	TLX-905	TLXR-907	TLX-906	TLXR-908	TLXM-32	TLX-1305	TLXR-907	TLX-1306	TLXR-908	TLXM-82
21	0.311	7.9	0.305	7.7	0.340	8.6	TLX-907	TLXR-907	TLX-908	TLXR-908	TLXM-33	TLX-1307	TLXR-907	TLX-1308	TLXR-908	TLXM-83
22	0.319	8.1	0.314	7.9	0.349	8.8	TLX-909	TLXR-909	TLX-910	TLXR-910	TLXM-34	TLX-1309	TLXR-909	TLX-1310	TLXR-910	TLXM-84
23	0.325	8.2	0.319	8.1	0.357	9.0	TLX-911	TLXR-911	TLX-912	TLXR-912	TLXM-34	TLX-1311	TLXR-911	TLX-1312	TLXR-912	TLXM-84
24	0.331	8.4	0.320	8.1	0.357	9.0	TLX-911	TLXR-911	TLX-912	TLXR-912	TLXM-34	TLX-1311	TLXR-911	TLX-1312	TLXR-912	TLXM-84



TUBE EXPANDER FOR HEAT EXCHANGER AND CONDENSER

TLX-800/1200 SERIES-3 ROLLERS



800 Series

Applications:

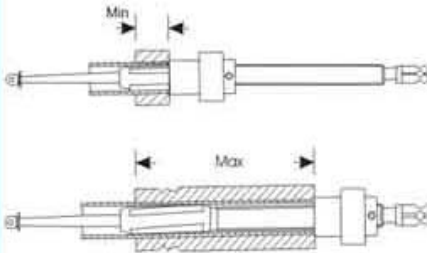
This is the most popular tool worldwide for use on heat exchangers & condenser with tubes of 1/2" S.D. to 1.1/2" O.D. / 5/8" O.D. to 1.1/2" O.D. & thick tube sheets.

TLX 800 SERIES	TUBE SHEET ADJUSTABLE RANGE	
Roller Length	Min.	Max.
1.1/2" (38.1 mm)	1/2" (12.7 mm)	1.1/2" (38.1 mm)
2.1/4" (57.1 mm)	1.1/4" (31.7 mm)	2.1/4" (57.1 mm)

TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.		MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		800 SERIES EXPANDER WITH				MANDREL PART NO.	1200 SERIES EXPANDER WITH				MANDREL PART NO.	
							1.1/2" (38mm) Long Rollers		2.1/4" (57.1 mm) Long Rollers			1.1/2" (38 mm) Long Rollers		2.1/4" (57.1 mm) Long Rollers			
							EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		
14	0.334	8.4	0.234	8.23	0.374	9.50	TLX-797	TLXR-797			TLXM-797	TLX-1197	TLXR-797			TLXM-1197	
15	0.356	9.0	0.349	8.84	0.398	10.11	TLX-799	TLXR-1			TLXM-799	TLX-1199	TLXR-1			TLXM-1199	
1/2"	16	0.370	9.4	0.360	9.14	0.410	10.41	TLX-801	TLXR-1			TLXM-1	TLX-1201	TLXR-1			TLXM-51
12.7	17	0.384	9.7	0.374	9.50	0.424	10.77	TLX-803	TLXR-2			TLXM-1	TLX-1203	TLXR-2			TLXM-51
18	0.402	10.2	0.392	9.96	0.447	11.35	TLX-805	TLXR-3			TLXM-2	TLX-1205	TLXR-3			TLXM-52	
20	0.430	10.9	0.406	10.80	0.459	11.7	TLX805S	TLXR-3			TLXM-3	TLX-1205S	TLXR-3			TLXM-53	
12	0.407	10.3	0.392	9.96	0.447	11.35	TLX-805	TLXR-3			TLXM-2	TLX-1205	TLXR-3			TLXM-52	
13	0.435	11.0	0.425	10.79	0.480	12.19	TLX-807	TLXR-4			TLXM-3	TLX-1207	TLXR-4			TLXM-53	
14	0.459	11.6	0.449	11.40	0.509	12.73	TLX-809	TLXR-4	TLXR-810	TLXR-4A	TLXM-4	TLX-1209	TLXR-4	TLX-1210	TLXR-4A	TLXM-54	
15	0.481	12.2	0.471	11.96	0.536	13.61	TLX-811	TLXR-5	TLXR-812	TLXR-5A	TLXM-5	TLX-1211	TLXR-5	TLX-1212	TLXR-5A	TLXM-55	
5/8"	16	0.495	12.5	0.485	12.32	0.550	13.97	TLX-813	TLXR-6	TLXR-814	TLXR-6A	TLXM-5	TLX-1213	TLXR-6	TLX-1214	TLXR-6A	TLXM-55
15.88	17	0.509	12.9	0.499	12.67	0.564	14.32	TLX-815	TLXR-6	TLXR-816	TLXR-6A	TLXM-6	TLX-1215	TLXR-6	TLX-1216	TLXR-6A	TLXM-56
18	0.527	13.3	0.517	13.13	0.572	14.53	TLX-817	TLXR-7	TLXR-818	TLXR-7A	TLXM-7	TLX-1217	TLXR-7	TLX-1218	TLXR-7A	TLXM-57	
19	0.541	13.7	0.522	13.26	0.582	14.7	TLX-819	TLXR-7	TLXR-820	TLXR-7A	TLXM-6	TLX-1219	TLXR-7	TLX-1220	TLXR-7A	TLXM-56	
20	0.555	14.1	0.536	13.6	0.596	15.1	TLX-819S	TLXR-7	TLXR-820S	TLXR-7A	TLXM-8	TLX-1219S	TLXR-7	TLX-1220S	TLXR-7A	TLXM-58	
21	0.561	14.2	0.536	13.6	0.596	15.1	TLX-819S	TLXR-7	TLXR-820S	TLXR-7A	TLXM-8	TLX-1219S	TLXR-7	TLX-1220S	TLXR-7A	TLXM-58	
22	0.569	14.4	0.536	13.6	0.596	15.1	TLX-819S	TLXR-7	TLXR-820S	TLXR-7A	TLXM-8	TLX-1219S	TLXR-7	TLX-1220S	TLXR-7A	TLXM-58	
10	0.482	12.2	0.471	11.96	0.536	13.61	TLX-811	TLXR-5	TLXR-812	TLXR-5A	TLXM-5	TLX-1211	TLXR-5	TLX-1212	TLXR-5A	TLXM-55	
11	0.510	12.9	0.499	12.67	0.564	14.32	TLX-815	TLXR-6	TLXR-816	TLXR-6A	TLXM-6	TLX-1215	TLXR-6	TLX-1216	TLXR-6A	TLXM-56	
3/4"	12	0.532	13.5	0.522	13.26	0.582	14.70	TLX-819	TLXR-7	TLXR-820	TLXR-7A	TLXM-6	TLX-1219	TLXR-7	TLX-1220	TLXR-7A	TLXM-56
19.05	13	0.560	14.2	0.550	13.97	0.615	15.62	TLX-821	TLXR-8	TLXR-822	TLXR-8A	TLXM-8	TLX-1221	TLXR-8	TLX-1222	TLXR-8A	TLXM-58
14	0.584	14.8	0.574	14.58	0.639	16.23	TLX-823	TLXR-9	TLXR-824	TLXR-9A	TMXL-8	TLX-1223	TLXR-8	TLX-1224	TLXR-8A	TLXM-58	
15	0.606	15.3	0.596	15.14	0.661	16.79	TLX-825	TLXR-10	TLXR-826	TLXR-10A	TLXM-8	TLX-1225	TLXR-8	TLX-1226	TLXR-8A	TLXM-58	
16	0.620	15.7	0.605	15.37	0.685	17.40	TLX-827	TLXR-10	TLXR-828	TLXR-10A	TLXM-9	TLX-1227	TLXR-10	TLX-1228	TLXR-10A	TLXM-59	



1200 Series



TLX 1200 SERIES		TUBE SHEET ADJUSTABLE RANGE		
Roller Length	Reach	Min.	Max.	
1.1/2" (38.1 mm)	Standard	1.1/2" (38.1 mm)	6" (152.4 mm)	
	A	1.1/2" (38.1 mm)	8" (203.1 mm)	
	B	1.1/2" (38.1 mm)	10" (253.8 mm)	
2.1/4" (57.1 mm)	Standard	2.1/4" (57.1 mm)	1.1/2" (38.1 mm)	
	A	2.1/4" (57.1 mm)	8.3/4" (222.1 mm)	
	B	2.1/4" (57.1 mm)	10.3/4" (323.6 mm)	

Longer reaches available upon request.

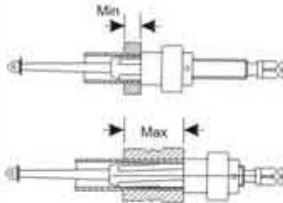
TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.	MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		800 SERIES EXPANDER WITH				MANDREL PART NO.	1300 SERIES EXPANDER WITH				MANDREL PART NO.		
						1.1/2" (38 mm) & 2.1/4" (57.1 mm) Long Rollers		1.1/4" (31.75 mm) Long Rollers			1.3/4" (38 mm) rolls		1.1/4" (38 mm) rolls				
						EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.			
3/4"	17	0.634	16.1	0.619	15.72	0.699	17.75	TLX-829	TLXR-11	TLXR-830	TLXR-11-A	TLXM-9	TLX-1229	TLXR-11	TLX-1230	TLXR-11-A	TLXM-59
	18	0.652	16.5	0.619	15.72	0.699	17.75	TLX-829	TLXR-11	TLXR-830	TLXR-11-A	TLXM-9	TLX-1229	TLXR-11	TLX-1230	TLXR-11-A	TLXM-59
	19	0.666	16.9	0.642	16.3	0.722	18.3	TLX-831	TLXR-12	TLX-832	TLXR-12-A	TLXM-9	TLX-1231	TLXR-12	TLX-1232	TLXR-12-A	TLXM-59
	20	0.680	17.2	0.642	16.3	0.722	18.3	TLX-831	TLXR-12	TLX-832	TLXR-12-A	TLXM-9	TLX-1231	TLXR-12	TLX-1232	TLXR-12-A	TLXM-59
	21	0.686	17.4	0.642	16.3	0.722	18.3	TLX-831	TLXR-12	TLX-832	TLXR-12-A	TLXM-9	TLX-1231	TLXR-12	TLX-1232	TLXR-12-A	TLXM-59
	22	0.694	17.6	0.642	16.3	0.722	18.3	TLX-831	TLXR-12	TLX-832	TLXR-12-A	TLXM-9	TLX-1231	TLXR-12	TLX-1232	TLXR-12-A	TLXM-59
7/8"	10	0.606	15.4	0.596	15.1	0.661	16.7	TLX-825	TLXR-10	TLX-826	TLXR-10-A	TLXM-8	TLX-1225	TLXR-10	TLX-1226	TLXR-10-A	TLXM-58
	11	0.635	16.1	0.619	15.7	0.699	17.7	TLX-829	TLXR-11	TLX-830	TLXR-11-A	TLXM-9	TLX-1229	TLXR-11	TLX-1230	TLXR-11-A	TLXM-59
	12	0.657	16.6	0.642	16.3	0.722	18.3	TLX-831	TLXR-12	TLX-832	TLXR-12-A	TLXM-9	TLX-1231	TLXR-12	TLX-1232	TLXR-12-A	TLXM-59
	13	0.685	17.4	0.670	17.0	0.750	19.0	TLX-833	TLXR-13	TLX-834	TLXR-13-A	TLXM-10	TLX-1233	TLXR-13	TLX-1234	TLXR-13-A	TLXM-60
	14	0.709	18.0	0.685	17.5	0.774	19.6	TLX-835	TLXR-14	TLX-836	TLXR-14-A	TLXM-11	TLX-1235	TLXR-14	TLX-1236	TLXR-14-A	TLXM-61
	15	0.731	18.5	0.712	18.0	0.801	20.3	TLX-837	TLXR-15	TLX-838	TLXR-15-A	TLXM-11	TLX-1237	TLXR-15	TLX-1238	TLXR-15-A	TLXM-61
1"	16	0.745	18.9	0.726	18.4	0.815	20.7	TLX-839	TLXR-15	TLX-840	TLXR-15-A	TLXM-12	TLX-1239	TLXR-15	TLX-1240	TLXR-15-A	TLXM-62
	17	0.759	19.2	0.740	18.8	0.829	21.0	TLX-843	TLXR-16	TLX-844	TLXR-16-A	TLXM-12	TLX-1243	TLXR-16	TLX-1244	TLXR-16-A	TLXM-62
	18	0.777	19.7	0.740	18.8	0.829	21.0	TLX-843	TLXR-16	TLX-844	TLXR-16-A	TLXM-12	TLX-1243	TLXR-16	TLX-1244	TLXR-16-A	TLXM-62
	8	0.670	17.0	0.655	16.6	0.735	18.6	TLX-841	TLXR-13	TLX-842	TLXR-13-A	TLXM-9	TLX-1241	TLXR-13	TLX-1242	TLXR-13-A	TLXM-59
	9	0.704	17.8	0.685	17.4	0.774	19.6	TLX-835	TLXR-14	TLX-836	TLXR-14-A	TLXM-11	TLX-1235	TLXR-14	TLX-1236	TLXR-14-A	TLXM-61
	10	0.732	18.5	0.712	18.0	0.801	20.3	TLX-835	TLXR-15	TLX-838	TLXR-15-A	TLXM-11	TLX-1237	TLXR-15	TLX-1238	TLXR-15-A	TLXM-61
1.125"	11	0.760	19.3	0.740	18.8	0.829	21.0	TLX-843	TLXR-16	TLX-844	TLXR-16-A	TLXM-12	TLX-1243	TLXR-16	TLX-1244	TLXR-16-A	TLXM-62
	12	0.782	19.8	0.763	19.3	0.852	21.6	TLX-845	TLXR-17	TLX-846	TLXR-17-A	TLXM-12	TLX-1245	TLXR-17	TLX-1246	TLXR-17-A	TLXM-62
	13	0.810	20.5	0.791	20.0	0.880	22.3	TLX-847	TLXR-18	TLX-848	TLXR-18-A	TLXM-12	TLX-1247	TLXR-18	TLX-1248	TLXR-18-A	TLXM-62
	14	0.834	21.1	0.810	20.5	0.909	23.0	TLX-849	TLXR-18	TLX-850	TLXR-18-A	TLXM-13	TLX-1249	TLXR-18	TLX-1250	TLXR-18-A	TLXM-63
	15	0.856	21.7	0.837	21.2	0.936	23.7	TLX-851	TLXR-19	TLX-852	TLXR-19-A	TLXM-13	TLX-1251	TLXR-19	TLX-1252	TLXR-19-A	TLXM-63
	16	0.870	22.1	0.837	21.2	0.936	23.7	TLX-851	TLXR-19	TLX-852	TLXR-19-A	TLXM-13	TLX-1251	TLXR-19	TLX-1252	TLXR-19-A	TLXM-63



TUBE EXPANDER FOR HEAT EXCHANGER AND CONDENSER TLX-800/1200 SERIES-3 ROLLERS



800 Series

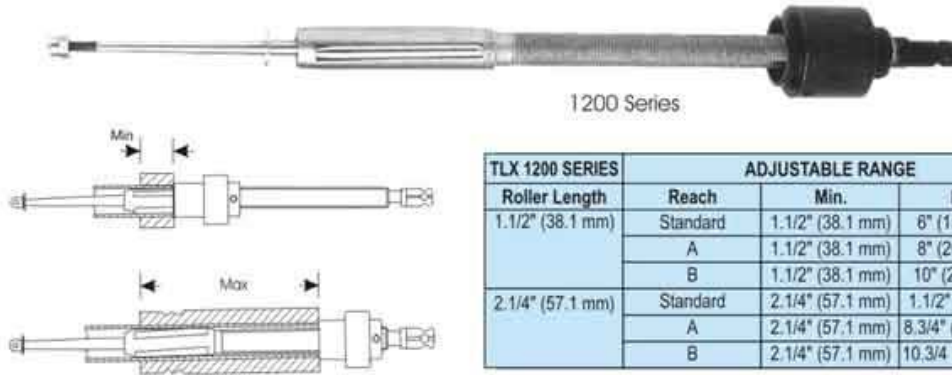


Applications:

This is the most popular tool worldwide for use on heat exchangers & condenser with tubes of 1/2" S.D. to 1.1/2" O.D. / 5/8" O.D. to 1.1/2" O.D. & thick tube sheets.

TLX 800 SERIES Roller Length	ADJUSTABLE RANGE	
	Min.	Max.
1.1/2" (38.1 mm)	1/2" (12.7 mm)	1.1/2" (38.1 mm)
2.1/4" (57.1 mm)	1.1/4" (31.7 mm)	2.1/4" (57.1 mm)

TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.	MIN I.D. TUBE TOOL ENTERS	MAX TOOL EXPANSION	800 SERIES EXPANDER WITH					1200 SERIES EXPANDER WITH				
				1.1/2 (38mm) long rollers		2.1/4 (57.1mm) long rollers		MANDREL PART NO.	1.1/2 (38mm) long rollers		2.1/4 (57.1mm) long rollers		MANDREL PART NO.
				EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.			
17	0.884 1.47	0.865 21.9	0.964 24.4	TLX-855	TLXR-21	TLX-856	TLXR-21-A	TLXM-13	TLX-1255	TLXR-21	TLX-1256	TLXR-21-A	TLXM-63
1" 18	0.902 1.24	0.865 21.9	0.964 24.4	TLX-855	TLXR-21	TLX-856	TLXR-21-A	TLXM-13	TLX-1255	TLXR-21	TLX-1256	TLXR-21-A	TLXM-63
25.40 19	0.916 1.06	0.865 21.9	0.964 24.4	TLX-855	TLXR-21	TLX-856	TLXR-21-A	TLXM-13	TLX-1255	TLXR-21	TLX-1256	TLXR-21-A	TLXM-63
20	0.930 0.88	0.865 21.9	0.964 24.4	TLX-855	TLXR-21	TLX-856	TLXR-21-A	TLXM-13	TLX-1255	TLXR-21	TLX-1256	TLXR-21-A	TLXM-63
8	0.795 20.1	0.774 19.7	0.875 22.2	TLX-853	TLXR-20	TLX-854	TLXR-20-A	TLXM-13	TLX-1253	TLXR-20	TLX-1254	TLXR-20-A	TLXM-63
9	0.829 21.0	0.810 20.5	0.909 (23.0)	TLX-849	TLXR-18	TLX-850	TLXR-18-A	TLXM-13	TLX-1249	TLXR-18	TLX-1250	TLXR-18-A	TLXM-63
10	0.857 21.7	0.837 21.2	0.938 (23.7)	TLX-851	TLXR-19	TLX-852	TLXR-19-A	TLXM-13	TLX-1251	TLXR-19	TLX-1252	TLXR-19-A	TLXM-63
11	0.885 22.4	0.865 21.9	0.964 24.4	TLX-855	TLXR-21	TLX-856	TLXR-21-A	TLXM-13	TLX-1255	TLXR-21	TLX-1256	TLXR-21-A	TLXM-63
12	0.907 23.0	0.883 22.4	0.982 24.9	TLX-857	TLXR-21	TLX-858	TLXR-21-A	TLXM-14	TLX-1257	TLXR-21	TLX-1258	TLXR-21-A	TLXM-64
13	0.935 23.7	0.916 23.2	1.015 25.7	TLX-859	TLXR-22	TLX-860	TLXR-22-A	TLXM-14	TLX-1259	TLXR-22	TLX-1260	TLXR-22-A	TLXM-64
1.1/8" 14	0.959 24.3	0.935 23.7	1.044 26.5	TLX-861	TLXR-23	TLX-862	TLXR-23-A	TLXM-15	TLX-1261	TLXR-23	TLX-1262	TLXR-23-A	TLXM-65
28.58 15	0.981 24.9	0.962 24.4	1.071 27.2	TLX-863	TLXR-24	TLX-864	TLXR-24-A	TLXM-15	TLX-1263	TLXR-24	TLX-1264	TLXR-24-A	TLXM-65
16	1.995 25.2	0.962 24.4	1.071 27.2	TLX-863	TLXR-24	TLX-864	TLXR-24-A	TLXM-15	TLX-1263	TLXR-24	TLX-1264	TLXR-24-A	TLXM-65
17	1.009 25.6	0.990 25.1	1.099 27.9	TLX-867	TLXR-26	TLX-868	TLXR-26-A	TLXM-16	TLX-1267	TLXR-26	TLX-1268	TLXR-26-A	TLXM-66
18	1.027 26.0	0.990 25.1	1.099 27.9	TLX-867	TLXR-26	TLX-868	TLXR-26-A	TLXM-16	TLX-1267	TLXR-26	TLX-1268	TLXR-26-A	TLXM-66
8	0.920 23.3	0.901 22.8	1.010 25.6	TLX-865	TLXR-25	TLX-866	TLXR-25-A	TLXM-15	TLX-1265	TLXR-25	TLX-1266	TLXR-25-A	TLXM-65
9	0.954 24.2	0.935 23.7	1.044 26.5	TLX-861	TLXR-23	TLX-862	TLXR-23-A	TLXM-15	TLX-1261	TLXR-23	TLX-1262	TLXR-23-A	TLXM-65
10	0.982 24.9	0.962 24.4	1.071 27.2	TLX-863	TLXR-24	TLX-864	TLXR-24-A	TLXM-15	TLX-1263	TLXR-24	TLX-1264	TLXR-24-A	TLXM-65
11	1.010 25.6	0.990 25.1	1.099 27.9	TLX-867	TLXR-26	TLX-868	TLXR-26-A	TLXM-16	TLX-1267	TLXR-26	TLX-1268	TLXR-26-A	TLXM-66
1.1/4" 12	1.032 26.2	1.013 25.7	1.122 28.5	TLX-869	TLXR-27	TLX-870	TLXR-27-A	TLXM-16	TLX-1269	TLXR-27	TLX-1270	TLXR-27-A	TLXM-66
31.75 13	1.060 26.9	1.041 26.4	1.150 29.2	TLX-871	TLXR-28	TLX-872	TLXR-28-A	TLXM-17	TLX-1271	TLXR-28	TLX-1272	TLXR-28-A	TLXM-67
14	1.084 27.5	1.060 26.9	1.169 29.6	TLX-873	TLXR-29	TLX-874	TLXR-29-A	TLXM-17	TLX-1273	TLXR-29	TLX-1274	TLXR-29-A	TLXM-67
15	1.106 28.0	1.087 27.6	1.196 30.3	TLX-875	TLXR-30	TLX-876	TLXR-30-A	TLXM-17	TLX-1275	TLXR-30	TLX-1276	TLXR-30-A	TLXM-67
16	1.120 28.4	1.087 27.6	1.196 30.3	TLX-875	TLXR-30	TLX-876	TLXR-30-A	TLXM-17	TLX-1275	TLXR-30	TLX-1276	TLXR-30-A	TLXM-67



1200 Series

TLX 1200 SERIES Roller Length	ADJUSTABLE RANGE		
	Reach	Min.	Max.
1.1/2" (38.1 mm)	Standard	1.1/2" (38.1 mm)	6" (152.4 mm)
	A	1.1/2" (38.1 mm)	8" (203.1 mm)
	B	1.1/2" (38.1 mm)	10" (253.8 mm)
2.1/4" (57.1 mm)	Standard	2.1/4" (57.1 mm)	1.1/2" (38.1 mm)
	A	2.1/4" (57.1 mm)	8.3/4" (222.1 mm)
	B	2.1/4" (57.1 mm)	10.3/4" (323.6 mm)

Longer reaches available upon request

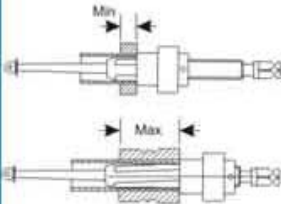
TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.	MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		800 SERIES EXPANDER WITH				MANDREL PART NO.	1200 SERIES EXPANDER WITH				MANDREL PART NO.
						1.1/2 (38mm) long rollers		2.1/4 (57.1mm) long rollers			1.1/2 (38mm) long rollers		2.1/4 (57.1mm) long rollers		
						EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.	
17	1.134 (28.8)	1.115 (28.3)	1.224 (31.0)	TLX-879	TLXR-30	TLX-880	TLXR-30-A	TLXM-18	TLX-1279	TLXR-30	TLX-1280	TLXR-30-A	TLXM-68		
18	1.152 (29.2)	1.115 (28.3)	1.224 (31.0)	TLX-879	TLXR-30	TLX-880	TLXR-30-A	TLXM-18	TLX-1279	TLXR-30	TLX-1280	TLXR-30-A	TLXM-68		
1.3/8"	8 1.045 (26.5)	1.26 (26.0)	1.133 (28.8)	TLX-877	TLXR-31	TLX-878	TLXR-31-A	TLXM-17	TLX-1277	TLXR-31	TLX-1278	TLXR-31-A	TLXM-67		
34.92	9 1.079 (27.4)	1.60 (26.9)	1.169 (29.6)	TLX-873	TLXR-29	TLX-874	TLXR-29-A	TLXM-17	TLX-1273	TLXR-29	TLX-1274	TLXR-29-A	TLXM-67		
	10 1.107 (28.1)	1.87 (27.6)	1.196 (30.3)	TLX-875	TLXR-30	TLX-876	TLXR-30-A	TLXM-17	TLX-1275	TLXR-30	TLX-1276	TLXR-30-A	TLXM-67		
	11 1.135 (28.8)	1.115 (28.3)	1.224 (31.0)	TLX-879	TLXR-30	TLX-880	TLXR-30-A	TLXM-18	TLX-1279	TLXR-30	TLX-1280	TLXR-30-A	TLXM-68		
	12 1.157 (29.3)	1.133 (28.7)	1.242 (31.5)	TLX-881	TLXR-32	TLX-882	TLXR-32-A	TLXM-18	TLX-1281	TLXR-32	TLX-1282	TLXR-32-A	TLXM-68		
	13 1.185 (30.1)	1.160 (29.4)	1.275 (32.3)	TLX-883	TLXR-33	TLX-884	TLXR-33-A	TLXM-19	TLX-1283	TLXR-33	TLX-1284	TLXR-33-A	TLXM-69		
	14 1.209 (30.7)	1.179 (29.9)	1.294 (32.8)	TLX-885	TLXR-34	TLX-886	TLXR-34-A	TLXM-20	TLX-1285	TLXR-34	TLX-1286	TLXR-34-A	TLXM-70		
	15 1.231 (31.2)	1.206 (30.6)	1.321 (33.5)	TLX-887	TLXR-35	TLX-888	TLXR-35-A	TLXM-20	TLX-1287	TLXR-35	TLX-1288	TLXR-35-A	TLXM-70		
	16 1.245 (31.6)	1.204 (30.6)	1.321 (33.5)	TLX-887	TLXR-35	TLX-888	TLXR-35-A	TLXM-20	TLX-1287	TLXR-35	TLX-1288	TLXR-35-A	TLXM-70		
1.1/2"	8 1.170 (29.7)	1.125 (29.0)	1.260 (32.0)	TLX-889	TLXR-34	TLX-890	TLXR-34-A	TLXM-19	TLX-1289	TLXR-34	TLX-1290	TLXR-34-A	TLXM-69		
38.10	9 1.204 (30.5)	1.177 (29.9)	1.294 (32.8)	TLX-885	TLXR-34	TLX-886	TLXR-34-A	TLXM-20	TLX-1285	TLXR-34	TLX-1286	TLXR-34-A	TLXM-70		
	10 1.232 (31.2)	1.205 (30.6)	1.321 (33.5)	TLX-887	TLXR-35	TLX-888	TLXR-35-A	TLXM-20	TLX-1287	TLXR-35	TLX-1288	TLXR-35-A	TLXM-70		
	11 1.260 (30.0)	1.235 (31.3)	1.350 (34.2)	TLX-891	TLXR-36	TLX-892	TLXR-36-A	TLXM-20	TLX-1291	TLXR-36	TLX-1292	TLXR-36-A	TLXM-70		
	12 1.282 (32.5)	1.257 (31.9)	1.370 (34.8)	TLX-893	TLXR-37	TLX-894	TLXR-37-A	TLXM-20	TLX-1293	TLXR-37	TLX-1294	TLXR-37-A	TLXM-70		
	13 1.310 (33.2)	1.285 (32.6)	1.400 (35.5)	TLX-895	TLXR-37	TLX-896	TLXR-37-A	TLXM-21	TLX-1295	TLXR-37	TLX-1296	TLXR-37-A	TLXM-71		
	14 1.334 (33.8)	1.285 (32.6)	1.400 (35.5)	TLX-895	TLXR-37	TLX-896	TLXR-37-A	TLXM-21	TLX-1295	TLXR-37	TLX-1296	TLXR-37-A	TLXM-71		
	15 1.356 (34.4)	1.331 (33.8)	1.446 (36.7)	TLX-897	TLXR-38	TLX-898	TLXR-38-A	TLXM-21	TLX-1297	TLXR-37	TLX-1298	TLXR-37-A	TLXM-71		
	16 1.370 (34.8)	1.331 (33.8)	1.446 (36.7)	TLX-897	TLXR-38	TLX-898	TLXR-38-A	TLXM-21	TLX-1297	TLXR-37	TLX-1298	TLXR-37-A	TLXM-71		
	17 1.384 (35.1)	1.331 (33.8)	1.472 (37.3)	TLX-899	TLXR-38	TLX-900	TLXR-38-A	TLXM-22	TLX-1299	TLXR-38	TLX-1300	TLXR-38-A	TLXM-72		
	18 1.402 (35.6)	1.331 (33.8)	1.472 (37.3)	TLX-899	TLXR-38	TLX-900	TLXR-38-A	TLXM-22	TLX-1299	TLXR-38	TLX-1300	TLXR-38-A	TLXM-72		
	19 1.416 (35.9)	1.331 (33.8)	1.472 (37.3)	TLX-899	TLXR-38	TLX-900	TLXR-38-A	TLXM-22	TLX-1299	TLXR-38	TLX-1300	TLXR-38-A	TLXM-72		
	20 1.430 (36.3)	1.331 (33.8)	1.472 (37.3)	TLX-899	TLXR-38	TLX-900	TLXR-38-A	TLXM-22	TLX-1299	TLXR-38	TLX-1300	TLXR-38-A	TLXM-72		



TUBE EXPANDER FOR HEAT EXCHANGER AND CONDENSER TLX-800/1200 SERIES-5 ROLLERS



800 Series



Applications:

Highly recommended for use on thin walled tubes (19 to 22 Gauge walls) of stainless steel, Titanium, Incoloy & other exotic materials in thick tube sheets.

Features:

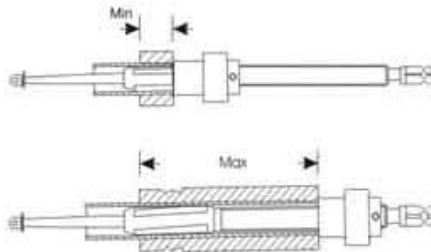
It gives a more concentric and even expansion when expanding thin walled tubes vs. a conventional 3 roller expander & reduces the 'tube spring back effect'.

TLX 800 SERIES	TUBE SHEET ADJUSTABLE RANGE	
Roller Length	Min.	Max.
1.1/2" (38.1 mm)	1/2" (12.7 mm)	1.1/2" (38.1 mm)
2.1/4" (57.1 mm)	1.1/4" (31.7 mm)	2.1/4" (57.1 mm)

TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.	MIN I.D. TUBE TOOL ENTERS	MAX TOOL EXPANSION	800 SERIES EXPANDER WITH				MANDREL PART NO.	1200 SERIES EXPANDER WITH				MANDREL PART NO.	
				1.1/2" (38mm) long rollers		2.1/4" (57.1mm) long rollers			1.1/2" (38mm) long rollers,		2.1/4" (57.1mm) long rollers			
				EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		
17	0.509 12.9	0.499 12.7	0.564 14.3	TLX-815-5	TLXR-4	TLX-816-5	TLXR-4A	TLXM-816						
5/8"	18	0.527 13.4	0.517 13.1	0.574 14.6	TLX-817-5	TLXR-4	TLX-818-5	TLXR-4A	TLXM-818					
15.88	19	0.541 13.7	0.522 13.3	0.582 14.8	TLX-819-5	TLXR-4	TLX-820-5	TLXR-4A	TLXM-820					
	20	0.555 14.1	0.536 13.6	0.596 15.1	TLX-819S-5	TLXR-4	TLX-820S-5	TLXR-4A	TLXM-820S					
	21	0.560 14.2	0.536 13.6	0.596 15.1	TLX-819S-5	TLXR-4	TLX-820S-5	TLXR-4A	TLXM-820S					
	22	0.569 14.5	0.536 13.6	0.596 15.1	TLX-819S-5	TLXR-4	TLX-820S-5	TLXR-4A	TLXM-820S					
	13	0.560 14.2	0.55 14.0	0.615 15.6	TLX-821-5	TLXR-5	TLX-822-5	TLXR-5A	TLXM-822					
	14	0.582 14.8	0.572 14.6	0.629 16.0	TLX-823-5	TLXR-6	TLX-824-5	TLXR-6A	TLXM-824	TLX-1223-5	TLXR-6	TLX-1224-5	TLXR-6-A	TLXM-1224
	15	0.606 15.4	0.59 15.0	0.661 16.8	TLX-825-5	TLXR-7	TLX-826-5	TLXR-7A	TLXM-826					
3/4"	16	0.619 15.7	0.605 15.4	0.680 17.3	TLX-827-5	TLXR-7	TLX-828-5	TLXR-7A	TLXM-13	TLX-1227-5	TLXR-7	TLX-1228-5	TLXR-7-A	TLXM-63
19.05	17 1/8	0.634 16.1	0.619 15.7	0.699 17.8	TLX-829-5	TLXR-7	TLX-830-5	TLXR-7A	TLXM-830	TLX-1229-5	TLXR-7	TLX-1230-5	TLXR-7-A	TLXM-1230
	19	0.666 16.9	0.642 16.3	0.729 18.5	TLX-831-5	TLXR-9	TLX-832-5	TLXR-9A	TLXM-13	TLX-1231-5	TLXR-7	TLX-1232-5	TLXR-7-A	TLXM-63
	20	0.680 17.3	0.642 16.3	0.729 18.5	TLX-831-5	TLXR-9	TLX-832-5	TLXR-9A	TLXM-13	TLX-1231-5	TLXR-7	TLX-1232-5	TLXR-7-A	TLXM-63
	21	0.685 17.4	0.642 16.3	0.729 18.5	TLX-831-5	TLXR-9	TLX-832-5	TLXR-9A	TLXM-13	TLX-1231-5	TLXR-7	TLX-1232-5	TLXR-7-A	TLXM-63
	22	0.694 17.6	0.642 16.3	0.729 18.5	TLX-831-5	TLXR-9	TLX-832-5	TLXR-9A	TLXM-13	TLX-1231-5	TLXR-7	TLX-1232-5	TLXR-7-A	TLXM-63
	13	0.685 17.4	0.670 17.0	0.745 19.0	TLX-833-5	TLXR-9	TLX-834-5	TLXR-9A	TLXM-14					
	14	0.709 18.0	0.685 17.4	0.750 19.1	TLX-835-5	TLXR-10	TLX-836-5	TLXR-10A	TLXM-15					
7/8"	16	0.745 18.9	0.726 18.4	0.800 20.3	TLX-839-5	TLXR-11	TLX-840-5	TLXR-11A	TLXM-840					
22.22	17 3/8	0.759 19.3	0.740 18.8	0.824 20.9	TLX-843-5	TLXR-11	TLX-844-5	TLXR-11A	TLXM-17					
	19	0.791 20.1	0.763 19.4	0.851 21.6	TLX-845-5	TLXR-11	TLX-846-5	TLXR-11A	TLXM-18					
	20	0.805 20.4	0.763 19.4	0.851 21.6	TLX-845-5	TLXR-11	TLX-846-5	TLXR-11A	TLXM-18					
	21	0.810 20.6	0.763 19.4	0.851 21.6	TLX-845-5	TLXR-11	TLX-846-5	TLXR-11A	TLXM-18					
	22	0.819 20.8	0.763 19.4	0.851 21.6	TLX-845-5	TLXR-11	TLX-846-5	TLXR-11A	TLXM-18					



1200 Series



TLX 1200 SERIES Roller Length	TUBE SHEET ADJUSTABLE RANGE		
	Reach	Min.	Max.
1.1/2" (38.1 mm)	Standard	1.1/2" (38.1 mm)	6" (152.4 mm)
	A	1.1/2" (38.1 mm)	8" (203.1 mm)
	B	1.1/2" (38.1 mm)	10" (253.8 mm)
2.1/4" (57.1 mm)	Standard	2.1/4" (57.1 mm)	1.1/2" (38.1 mm)
	A	2.1/4" (57.1 mm)	8.3/4" (222.1 mm)
	B	2.1/4" (57.1 mm)	10.3/4" (323.6 mm)

Longer reaches available upon request

TUBE O.D. IN INCH/ BWG GAUGE	TUBE I.D.		MIN I.D. TUBE TOOL ENTERS		MAX TOOL EXPANSION		800 SERIES EXPANDER WITH				MANDREL		1200 SERIES EXPANDER WITH				MANDREL PART NO.
							1.1/2" (38mm) long rollers		2.1/4" (57.1mm) long rollers		PART NO.	1.1/2" (38mm) long rollers		2.1/4" (57.1mm) long rollers			
							EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		EXPANDER PART NO.	ROLLER PART NO.	EXPANDER PART NO.	ROLLER PART NO.		
	12	0.782 19.9	0.763 19.4	0.852 21.6	TLX-845-5	TLXR-11	TLX-846-5	TLXR-11A	TLXM-18								
	13	0.810 20.6	0.791 20.1	0.880 22.4	TLX-847-5	TLXR-13	TLX-848-5	TLXR-13A	TLXM-18								
25.40	14	0.834 21.2	0.810 20.6	0.879 22.3	TLX-849-5	TLXR-12	TLX-850-5	TLXR-12A	TLXM-850	TLX-1249-5	TLXR-12	TLX-1250-5	TLXR-12A	TLXM-1250			
	15	0.856 21.7	0.837 21.3	0.935 23.8	TLX-851-5	TLXR-13	TLX-852-5	TLXR-13A	TLXM-852	TLX-1251-5	TLXR-13	TLX-1252-5	TLXR-13A	TLXM-1252			
	16	0.856 21.7	0.837 21.3	0.935 23.8	TLX-851-5	TLXR-13	TLX-852-5	TLXR-13A	TLXM-852	TLX-1251-5	TLXR-13	TLX-1252-5	TLXR-13A	TLXM-1252			
	17	0.883 22.5	0.865 22.0	0.965 24.5	TLX-855-5	TLXR-13	TLX-856-5	TLXR-13A	TLXM-856	TLX-1255-5	TLXR-13	TLX-1256-5	TLXR-13A	TLXM-1256			
	18	0.901 22.9	0.865 22.0	0.965 24.5	TLX-855-5	TLXR-13	TLX-856-5	TLXR-13A	TLXM-856	TLX-1255-5	TLXR-13	TLX-1256-5	TLXR-13A	TLXM-1256			
	19	0.916 23.3	0.865 22.0	0.965 24.5	TLX-855-5	TLXR-13	TLX-856-5	TLXR-13A	TLXM-856	TLX-1255-5	TLXR-13	TLX-1256-5	TLXR-13A	TLXM-1256			
	20	0.930 23.6	0.865 22.0	0.965 24.5	TLX-855-5	TLXR-13	TLX-856-5	TLXR-13A	TLXM-856	TLX-1255-5	TLXR-13	TLX-1256-5	TLXR-13A	TLXM-1256			
1.188"	12	0.907 23.0	0.883 22.4	0.997 25.3	TLX-857-5	TLXR-15	TLX-858-5	TLXR-15A	TLXM-21	TLX-1257-5	TLXR-15	TLX-1258-5	TLXR-15A	TLXM-71			
28.58	13	0.935 23.7	0.916 23.3	1.0 25.4	TLX-859-5	TLXR-16	TLX-860-5	TLXR-16A	TLXM-860								
	14	0.959 24.1	0.935 23.7	1.43 26.5	TLX-861-5	TLXR-17	TLX-862-5	TLXR-17A	TLXM-862								
	15	1.106 28.1	1.87 27.6	1.194 30.4	TLX-875-5	TLXR-21	TLX-876-5	TLXR-21A	TLXM-876								
1.1/4"	16	1.106 28.1	1.87 27.6	1.195 30.4	TLX-875-5	TLXR-21	TLX-876-5	TLXR-21A	TLXM-876								
31.75	17	1.133 28.8	1.115 28.3	1.231 31.3	TLX-879-5	TLXR-21	TLX-880-5	TLXR-21A	TLXM-880								
	18	1.152 29.3	1.115 28.3	1.231 31.3	TLX-879-5	TLXR-21	TLX-880-5	TLXR-21A	TLXM-880								
	20	1.18 29.6	1.115 28.3	1.231 31.3	TLX-879-5	TLXR-21	TLX-880-5	TLXR-21A	TLXM-880								
	21	1.185 30.1	1.115 28.3	1.231 31.3	TLX-879-5	TLXR-21	TLX-880-5	TLXR-21A	TLXM-880								
	22	1.194 30.3	1.115 28.3	1.231 31.3	TLX-879-5	TLXR-21	TLX-880-5	TLXR-21A	TLXM-880								
1.38"	12	1.153 29.3	1.133 28.8	1.242 31.5	TLX-881-5	TLXR-21	TLX-882-5	TLXR-21A	TLXM-882								
34.92	14	1.209 30.7	1.177 29.9	1.294 32.9	TLX-885-5	TLXR-23	TLX-886-5	TLXR-23A	TLXM-882								
	17	1.384 35.2	1.331 33.8	1.489 37.8	TLX-899-5	TLXR-29	TLX-900-5	TLXR-29A	TLXM-900	TLX-1299-5	TLXR-29	TLX-1300-5	TLXR-29A	TLXM-1299			
1.12	18	1.384 35.2	1.331 33.8	1.489 37.8	TLX-899-5	TLXR-29	TLX-900-5	TLXR-29A	TLXM-900	TLX-1299-5	TLXR-29	TLX-1300-5	TLXR-29A	TLXM-1299			
38.10	19	1.416 36.0	1.331 33.8	1.489 37.8	TLX-899-5	TLXR-29	TLX-900-5	TLXR-29A	TLXM-900	TLX-1299-5	TLXR-29	TLX-1300-5	TLXR-29A	TLXM-1299			
	20	1.416 36.0	1.331 33.8	1.489 37.8	TLX-899-5	TLXR-29	TLX-900-5	TLXR-29A	TLXM-900	TLX-1299-5	TLXR-29	TLX-1300-5	TLXR-29A	TLXM-1299			
	21A	1.436 36.5	1.331 33.8	1.489 37.8	TLX-899-5	TLXR-29	TLX-900-5	TLXR-29A	TLXM-900	TLX-1299-5	TLXR-29	TLX-1300-5	TLXR-29A	TLXM-1299			

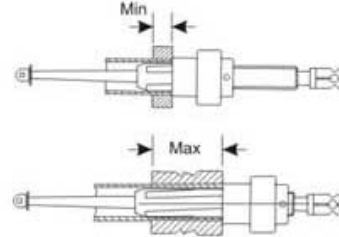
TUBE EXPANDER FOR HEAT EXCHANGER & BOILERS **TLX-8012 SERIES**

Applications:

To expand tubes in Air Heaters, Boilers & Refinery still tubes.
Can be used to expand thick tube sheets.

Features:

It has extended service life & inbuilt thrust bearings.
It also has more durable components can be used for heavy duty application.



TUBE O.D. inch	TUBE THICKNESS BWG (GAUGE)	TUBE I.D.		MIN I.D.		MAX EXPANSION		EXPANDER WITH 2.1/4" (57.15 mm) long rollers		
		inch	mm	inch	mm	inch	mm	EXPANDER PART NO.	MANDREL PART NO.	ROLLER PART NO.
	8	1.420	36.1	34.7	1.368	1.550	39.3	TLX8012-1.3/4-8	TLXM-90	TLXR-33-A
	10	1.482	37.6	36.0	1.420	1.607	40.8	TLX8012-1.3/4-10		TLXR-37-A
1.3/4"	11	1.510	38.3	36.9	1.454	1.635	41.5	TLX8012-1.3/4-11		TLXR-42
44.45	12	1.532	38.9	37.6	1.482	1.657	42.0	TLX8012-1.3/4-12		TLXR-44
	13	1.560	39.6	38.3	1.510	1.685	42.7	TLX8012-1.3/4-13		TLXR-46
	14	1.584	40.2	38.9	1.532	1.709	43.4	TLX8012-1.3/4-14		TLXR-48
	8	1.670	42.4	40.5	1.595	1.795	45.6	TLX8012-2-8	TLXM-91	TLXR-48
	10	1.732	43.9	41.6	1.640	1.856	47.1	TLX8012-2-10		TLXR-50
	11	1.760	44.7	42.4	1.670	1.884	47.8	TLX8012-2-11		TLXR-52
	12	1.782	45.2	43.4	1.704	1.970	48.4	TLX8012-2-12		TLXR-54
2"	13	1.810	45.9	43.9	1.732	1.954	49.6	TLX8012-2-13-18		TLXR-56
50.8	14	1.834	46.5	43.9	1.732	1.955	49.6	TLX8012-2-13-18		TLXR-56
	15	1.856	47.1	43.9	1.732	1.956	49.6	TLX8012-2-13-18		TLXR-56
	16	1.870	47.4	43.9	1.732	1.956	49.6	TLX8012-2-13-18		TLXR-56
	17	1.884	47.9	43.9	1.732	1.956	49.6	TLX8012-2-13-18		TLXR-56
	18	1.902	48.3	43.9	1.732	1.956	49.6	TLX8012-2-13-18		TLXR-56
	10	1.982	50.3	48.0	1.890	2.106	53.5	TLX8012-2.1/4-10	TLXM-92	TLXR-56
	11	2.010	51.0	48.7	1.920	2.137	54.2	TLX8012-2.1/4-11		TLXR-58
	12	2.032	51.6	49.6	1.954	2.157	54.7	TLX8012-2.1/4-12		TLXR-60
2.1/4"	13	2.060	52.3	50.3	1.982	2.185	55.4	TLX8012-2.1/4-13-16		TLXR-62
57.15	14	2.084	52.9	50.3	1.982	2.185	55.4	TLX8012-2.1/4-13-16		TLXR-62
	15	2.106	53.4	50.3	1.982	2.185	55.4	TLX8012-2.1/4-13-16		TLXR-62
	16	2.120	53.8	50.3	1.982	2.185	55.4	TLX8012-2.1/4-13-16		TLXR-62
2.1/2"	10	2.232	56.6	54.3	2.140	2.407	61.1	TLX8012-2.1/2-10-12	TLXM-93	TLXR-64
63.5	11	2.260	57.4	54.3	2.140	2.407	61.1	TLX8012-2.1/2-10-12		TLXR-64

TLX-8012 expanders can be supplied with 4 & 5 rollers



TLX 8012 SERIES	TUBE SHEET ADJUSTABLE RANGE	
	Roller Length	Min. Max.
2.1/4" 57.1 mm	1/2" (12.7 mm)	4" (101.6 mm)

TUBE O.D. inch	TUBE THICKNESS BWG (GAUGE)	TUBE I.D.		MIN I.D.		MAX EXPANSION		EXPANDER WITH 2.1/4" (57.15 mm) long rollers		
		inch	mm	inch	mm	inch	mm	EXPANDER PART NO.	MANDREL PART NO.	ROLLER PART NO.
	12	2.282	57.9	2.140	54.3	2.407	61.1	TLX8012-2.1/2-10-12	TLXM-94	TLXR-64
	13	2.310	58.6	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
2.1/2"	14	2.334	59.2	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
63.5	15	2.356	59.8	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
	16	2.370	60.1	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
	17	2.384	60.6	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
	18	2.402	61.0	2.232	56.6	2.450	62.2	TLX8012-2.1/2-13-18		TLXR-64
	10	2.482	63.0	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16	TLXM-96	TLXR-66
	11	2.510	63.7	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16		TLXR-66
2.3/4"	12	2.532	64.3	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16		TLXR-66
69.85	13	2.560	65.0	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16		TLXR-66
	14	2.584	65.6	2.390	60.7	2.701	68.6	TLX8012-2.3/4-10-16		TLXR-66
	15	2.606	66.1	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16		TLXR-66
	16	2.620	66.6	2.390	60.7	2.702	68.6	TLX8012-2.3/4-10-16		TLXR-66
	8	2.670	67.8	2.560	65.0	2.829	71.8	TLX8012-3-8-9	TLXM-97	TLXR-67
	9	2.701	68.6	2.560	65.0	2.829	71.8	TLX8012-3-8-9		TLXR-67
	10	2.732	69.3	2.640	67.0	2.952	74.9	TLX8012-3-10-18	TLXM-96	TLXR-67
	11	2.760	70.1	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
3"	12	2.782	70.6	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
76.2	13	2.810	71.3	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
	14	2.834	71.9	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
	15	2.856	72.5	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
	16	2.870	72.8	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
	17	2.884	73.3	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67
	18	2.902	73.7	2.640	67.0	2.952	74.9	TLX8012-3-10-18		TLXR-67

GROOVING TOOL - TLW SERIES

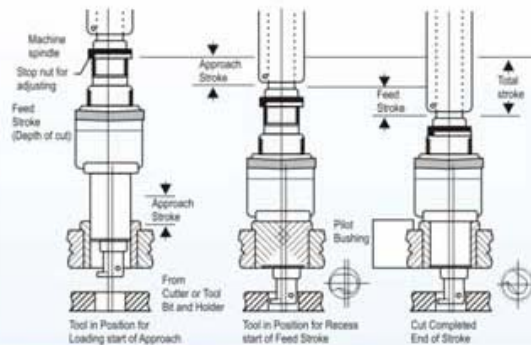


FEATURES:

1. Provides precision grooving of heat exchanger tubes, boiler drums and headers.
 2. Accurate & Quick.
 3. Covers wide range of diameter holes by simply changing the cutters and pilot nose.
 4. Location & depth of cut is very easy to adjust.
 5. Light pressure required to cut precision grooves.
 6. Automatic two in one design.
 7. Readily fits on CNG drill / Lathe / boring machines.
 8. Life of the cutter extendable by sharpening.
- Sizes available : 3/8" OD to 4" O.D.

TOOL NO.	TUBE SHEET HOLE DIAMETER	MAXIMUM GROOVE DEPTH	ADJUSTABLE RANGE (FACE TO GROOVE)	SHANK SIZE (MORSE TAPER)
1TLW2MT	9.5-32.0	2.00	3.0-9.0	2
3TLW3MT	16.0-42.0	3.50	3.0-14.0	3
4TLW4MT	19.0-48.0	4.50	3.0-14.0	4
6TLW5MT	38.0-130.0	7.50	3.0-16.0	5

SPECIAL APPLICATION OF PILOT IN BUSHING



TORQUE CONTROLLERS

Tulux offers two types of Torque Controllers:

1. Wattage setting Torque Control Unit (TUWTC Series) available in 230/110 volts.
2. Current Based Torque Control Unit (TUCTC Series) available in 230/110 volts

Wattage Based Torque controllers VS.

Current Based Torque Controllers:

Tube expansion can be done best by expanding tubes at a set torque value. Wattage based Torque controller has proven reliable & accurate than current based control units. In case of current based torque controller the drive current can become proportional to the torque if and only if the supply voltage is constant. In case of higher supply voltage the tubes will be over expanded & for supply voltage less than normal tubes will be under expanded. Thus an operator could achieve near perfect tube expansions with the help of a wattage based Torque Controller.

Note : Electrically operated Drive Units also available for 230/110 volts Drive models for different ranges of RPM & expansion Range (For S.S. Tube OD & Copper Tube OD)



TUBE INSTALLATION & REMOVAL TOOLS



SERRATING TOOL

It is a high production self centered internal grooving tool for predetermined size and is ideal for use where one tool is needed per bore. One piece cryogenically treated tool bit ensures maximum life. Ideally suited for CNC applications. Sizes available: 3/8" O.D to 1/2" O.D.



TUBE DRIFT / KNOCK OUT TOOL

Designed to removes tubes from the tube sheets. Used with a pneumatic chipping hammer to knock out tubes/tube stubs from the tube sheet. Available in 01 and 06 shanks as standard. Other sizes are available on request.



COLLAPSING TOOL

Used to collapse tube and drive out collapsed tube sheet with the help of a chipping hammer. Recommended for use on 16 gauge and thinner tubes. Available on 01 & 06 shanks as standards and sizes: 1/2" to 1.1/2" O.D.



TUBE GUIDE

It has an aluminum tapered nose with replaceable nylon brush used to guide tubes through tube and support plate holes. It prevents damage of the tube ends and speeds up the assembly operation. The nylon brush fits in the tube end and holds the pilot firmly.



MANUAL TUBE PULLER

Features: It is used for pulling the stub ends from the tube sheet. No power needed. Manual insertion and removal of tube is done with the help of a hand wrench. Available for 5/8" to 1.1/2" O.D. Tube size.



PUSH TYPE INTERNAL TUBE CUTTER

It cuts through the walls of ferrous tubes in condensers and Heat exchangers as a step in their removal from the tube sheet. This sturdy Internal Tube cutter can be used with portal Electric or Air Drill Motor. Sizes available from 5/8" to 1.1/2" O.D.

INTERNAL TUBE CUTTER - TLXR-68 SERIES



FEATURES:

TLXR 68 tube cutters are ideal for cutting thick walled boiler tubes of 2" OD & higher. It is driven via the square in a clockwise direction using either an electric, pneumatic or hydraulic driving machine. The clutch mechanism and bevel spring housed in the cutter body provides self feed positive cutting force. This eliminates operator fatigue. This design increases the life of the cutter blade & depth of the cut can also be adjusted. These tube cutters are available in standard reach of 4" (100mm). Additional reaches in increments of 4" are available up to 16" (400). Sizes available: 3/8" S.D. to 3/4" S.D. Tube I.D. 10mm to 105mm, Max. Tube OD 19mm to 113mm.

Note: Also available tube end facers/ tube sheet hole reamer / Flaring Tool / Tube Wall Reducers, etc.

TUBE EXPANDER FOR BOILER AND SUGAR INDUSTRY

TU- A SERIES (3 PLAIN ROLLERS)



FEATURES:

- Sturdy construction with self contained rollers in a cage.
- Time tested durable design.
- 3 Rollers parallel tube expanders, to suit plain tube expansion of boiler tubes.
- Economical tool used for applications where small number of tubes to be expanded **without** flaring.
- To suit tubes of sizes ranging from 7/8" OD. to 4.1/2" OD. A range of models are available to cover tube expansion lengths of 1/2" to 2.5/8".

TU-AF3 SERIES (3 PLAIN & 3 FLARE ROLLERS)



FEATURES:

- Best tool in the world when flaring of tube ends is needed.
- Sturdy construction with self contained rollers in a cage.
- Time tested durable design.
- Overlapping flare rollers prevents ridging of tube.
- Economical tool used for application where small number of tubes to be expanded **with** flaring.
- To suit tubes of sizes ranging from 7/8" OD. to 4.1/2":
- A range of models are available to cover tube expansion lengths of 1/2" to 2.5/8".

TU- 114 SERIES (4 PLAIN & 2 FLARE ROLLERS)



FEATURES:

- Overlapping rolls prevent ridging of tube
- Self retained rolls in a cage.
- Compact design for use through small hand holes, headers etc.
- Used for expanding & flaring boiler tubes, water wall, down comer, economizer, riser, and air heater tubes.
- To suit tubes of size ranging from 2" OD to 4.1/2" OD. Range of models are available to cover tube expansion lengths of 1/2" to 2.5/8".

TU-SB SERIES FOR SUGAR MILLS (5 PLAIN ROLLERS)



FEATURES:

- These are special purpose tube expanders to meet exact needs of sugar and dairy industry.
- It has a 5 Roll design & is used primarily for rolling thin walled tubes in sugar mill juice heaters Pans etc .
- '5 Rollers' gives a more concentric, uniform expansion vs., a '3 rollers' expander in thin tubes and reduces '**tube spring back**' effect.
- Used for top plate tube expansion in pans, juice heaters in sugar mills.

TU-CSB SERIES (LONG REACH) FOR SUGAR MILLS (5 PLAIN ROLLERS)



FEATURES:

- These are special purpose tube expanders to meet exact needs of sugar & dairy industry.
- It has a 5 Roll design & is used primarily for rolling thin walled tubes used in sugar mill juice heaters, pans, etc.
- 5 Rolls gives a more concentric, uniform expansion vs. a '3 roll' expander in thin tubes & reduce '**tube spring back**' effect.
- Used for bottom plate tube expansion in pans, juice heaters in sugar mills.
- To suit tubes of sizes ranging from 1.3/4" to 4" OD.

MANDREL DRIVES & ACCESSORIES

Mandrel drives serve the purpose of adapting tube expander mandrels to existing air or electric drills. Loosening the knurled nut, releases the square insert type of socket for the introduction of another size of insert to couple to other size of mandrel square

The different types of Drives & Accessories available with us are:

- Taper shank Inter changeable Female Square
- Taper Shank Male Square
- Taper Shank Female Square
- Triangle Shank Female Square
- Reversible Ratchet Wrench
- Male x Male Drive Extensions
- Female x Female Extension Couplings
- Universal Joints F/F, M/F, F/M
- Gear Drivers Parallel / Right Angle types



TUBE SIZES

BWG WALL THICKNESS	13	14	15	16	17	18	19	20	21	22	23	24
	0.095	0.083	0.072	0.065	0.058	0.049	0.042	0.035	0.032	0.028	0.025	0.022
BWG WALL THICKNESS	1	2	3	4	5	6	7	8	9	10	11	12
	0.300	0.284	0.259	0.238	0.220	0.203	0.180	0.165	0.148	0.134	0.120	0.109



OUR OTHER PRODUCTS



Impact Socket (Hex / Bihex)



Impact Universal Joint



Slugging Wrench (Straight Ring)



Quick Change Adaptor 3/8" S.D x 1/2 Hex (F)



Torque Multiplier



Spring Loaded Slotted Bit Finder



Crow Foot Wrench



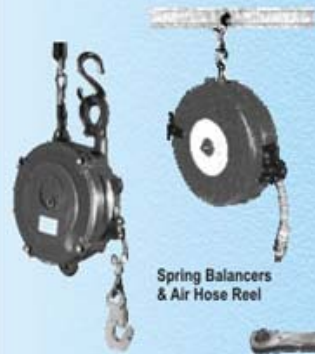
Impact Stud Drivers



Allen Bit Socket (Impact / Manual)



Universal Socket



Spring Balancers & Air Hose Reel



Special Tools As per Clients Drawings



Socket Sets

Heavy Duty Industrial Tool Kits / Boxes



Click Type Adjustable Torque Wrenches



Slugging Wrench (Offset Model)



Allen Head Power Bit



Castellated Slugging Wrench



Castellated Impact Socket



Bihex Flare End Type Crow Foot Wrench



Impact Extension Bar



Flexible Magnetic Pick Up Tools



Fixed Magnetic Socket



Torx Bit Socket



M / F Stack / Insert Socket For Slugging Wrench

TULEX

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