

SELF-FEEDING TUBE EXPANDERS T



with full bell



with lever bell



with clamping bell

In the **self-feeding tube expanders**, the central axes of the mandrel and the rolls do not lie in one plane, i.e. the rolls are mounted at an angle to the mandrel (twisted). The principle of this tube expander is based on **automatic self-feeding**, caused by the angled position of the rolls.

These tube expanders can be driven both **by hand** and **by machine**. They are partly equipped with **ball bearings** in order to reduce friction heat to a minimum.

TECHNICAL DATA – TUBE EXPANDERS WITH FULL BELL SERIES T 44 (formerly T 54)

TUBE EXPANDER WITH ADJUSTABLE USABLE DEPTH AND FULL BELL (ULTRA-SMALL TUBE EXPANDER)

Tube expander	Spare mandrel	Spare rolls	Spare body	Size	Body Ø	Tube c.w.	max. exp.	Rolling width	Usable depth
Order no.	Order no.	Order no.	Order no.		inch	inch	inch	inch	inch
0445200	1455200	2455200	3455200	009	0.205	0.217	0.224	0.63	1.18
0445500	1455500	2455500	3455500	008	0.217	0.228	0.248	0.63	1.18
0445800	1455800	2455800	3455800	007	0.228	0.236	0.260	0.63	1.18
0446300	1456300	2456300	3456300	006	0.248	0.256	0.280	0.63	1.18
0446700	1456700	2456700	3456700	005	0.264	0.276	0.303	0.63	1.18
0447200	1457200	2457200	3457200	004	0.283	0.295	0.323	0.63	1.18
0447700	1457700	2457700	3457700	003	0.303	0.315	0.343	0.79	1.18
0448200	1458200	2458200	3458200	002	0.323	0.335	0.362	0.79	1.18
0448600	1458600	2458600	3458600	001	0.339	0.354	0.386	0.79	1.18

Tube expander with adjustable rolling width and full bell for the expansion of tubes that lie flush with the tube sheet.

DIMENSIONS FOR NORMAL VERSION

Tube expander	Spare Mandrel	Spare rolls	Spare body	Size	Body Ø	Tube c.w.	max. exp.	Rolling width	Mandr. sq.	Outer bell Ø	Actual roll l.
Order no.	Order no.	Order no.	Order no.		inch	inch	inch	inch	inch	inch	inch
0449600	1459600	2459600	3459600	00	0.378	0.394	0.437	0.59 - 0.98	0.35	1.18	1.18
0449700	1459700	2459700	3459700	01	0.417	0.433	0.476	0.59 - 0.98	0.35	1.26	1.18
0449800	1459800	2459800	3459800	02	0.457	0.472	0.535	0.59 - 0.98	0.35	1.26	1.18
0449900	1459900	2459900	3459900	03	0.496	0.512	0.575	0.79 - 1.18	0.35	1.34	1.38
0440100	1450100	2450100	3450100	1	0.535	0.551	0.614	0.79 - 1.18	0.35	1.34	1.38
0440200	1450200	2450200	3450200	2	0.575	0.591	0.654	0.98 - 1.57	0.35	1.54	1.77
0440300	1450300	2450300	3450300	3	0.610	0.630	0.709	0.98 - 1.57	0.35	1.54	1.77
0440400	1450400	2450400	3450400	4	0.650	0.669	0.768	0.98 - 1.77	0.35	1.81	1.97
0440500	1450500	2450500	3450500	5	0.685	0.709	0.803	0.98 - 1.77	0.35	1.81	2.09
0440600	1450600	2450600	3450600	6	0.724	0.748	0.862	0.98 - 1.77	0.35	1.81	2.09
0440700	1450700	2450700	3450700	7	0.748	0.787	0.886	0.98 - 1.77	0.35	1.81	2.09
0440800	1450800	2450800	3450800	8	0.787	0.827	0.906	0.98 - 1.77	0.35	1.81	2.09
0440900	1450900	2450900	3450900	9	0.827	0.866	0.965	0.98 - 1.77	0.35	1.81	2.09
0441000	1451000	2451000	3451000	10	0.866	0.906	1.004	0.98 - 1.77	0.47	2.01	2.09
0441100	1451100	2451100	3451100	11	0.906	0.945	1.043	0.98 - 1.97	0.47	2.01	2.28
0441200	1451200	2451200	3451200	12	0.945	0.984	1.102	0.98 - 1.97	0.47	2.01	2.28
0449000	1459000	2459000	3459000	90	0.984	1.024	1.142	0.98 - 1.97	0.47	2.01	2.28
0441300	1451300	2451300	3451300	13	1.024	1.063	1.181	0.98 - 1.97	0.47	2.24	2.28
0449100	1459100	2459100	3459100	91	1.063	1.102	1.220	0.98 - 1.97	0.47	2.24	2.28
0441400	1451400	2451400	3451400	14	1.102	1.142	1.260	0.98 - 1.97	0.47	2.24	2.28
0449200	1459200	2459200	3459200	92	1.142	1.181	1.299	0.98 - 1.97	0.47	2.24	2.28
0441500	1451500	2451500	3451500	15	1.181	1.220	1.339	0.98 - 1.97	0.55	2.05	2.28
0441600	1451600	2451600	3451600	16	1.260	1.299	1.417	0.98 - 1.97	0.55	2.05	2.28
0441700	1451700	2451700	3451700	17	1.339	1.378	1.496	0.98 - 1.97	0.55	2.05	2.28
0441800	1451800	2451800	3451800	18	1.417	1.457	1.614	0.98 - 1.97	0.55	2.28	2.28
0441900	1451900	2451900	3451900	19	1.496	1.535	1.693	0.98 - 1.97	0.63	2.28	2.28
0442000	1452000	2452000	3452000	20	1.575	1.614	1.772	0.98 - 1.97	0.63	2.56	2.28
0442100	1452100	2452100	3452100	21	1.654	1.693	1.850	0.98 - 1.97	0.63	2.56	2.76
0442200	1452200	2452200	3452200	22	1.732	1.772	1.969	0.98 - 2.24	0.71	2.56	2.76
0442300	1452300	2452300	3452300	23	1.811	1.850	2.047	0.98 - 2.24	0.71	2.95	2.76
0442400	1452400	2452400	3452400	24	1.890	1.929	2.126	0.98 - 2.24	0.71	2.95	2.76
0442500	1452500	2452500	3452500	25	1.969	2.008	2.205	0.98 - 2.24	0.71	2.95	2.76
0442600	1452600	2452600	3452600	26	2.047	2.087	2.323	0.98 - 2.24	0.71	3.31	2.76
0442700	1452700	2452700	3452700	27	2.126	2.165	2.402	0.98 - 2.24	0.71	3.31	2.76
0442800	1452800	2452800	3452800	28	2.205	2.244	2.480	0.98 - 2.24	0.87	3.31	2.76
0442900	1452900	2452900	3452900	29	2.283	2.323	2.559	0.98 - 2.24	0.71	3.31	2.76
0443000	1453000	2453000	3453000	30	2.362	2.402	2.677	0.98 - 2.24	0.87	3.70	2.76
0443100	1453100	2453100	3453100	31	2.441	2.520	2.756	0.98 - 2.24	0.87	3.70	2.76
0443200	1453200	2453200	3453200	32	2.520	2.598	2.835	0.98 - 2.24	0.87	3.70	2.76
0443300	1453300	2453300	3453300	33	2.598	2.677	2.913	0.98 - 2.24	0.87	3.70	2.76
0443400	1453400	2453400	3453400	34	2.677	2.756	2.992	0.98 - 2.24	0.87	4.02	2.76

TECHNICAL DATA – TUBE EXPANDERS WITH CLAMPING BELL SERIES T 45 (formerly T 55)

TUBE EXPANDER WITH ADJUSTABLE USABLE DEPTH AND FULL BELL (ULTRA-SMALL TUBE EXPANDER)

Tube expander	Spare mandrel	Spare rolls	Spare body	Size	Body Ø	Tube c.w.	max. exp.	Rolling width	Usable depth
Order no.	Order no.	Order no.	Order no.		inch	inch	inch	inch	inch
0455200	1455200	2455200	3455200	009	0.205	0.217	0.224	0.63	1.18
0455500	1455500	2455500	3455500	008	0.217	0.228	0.248	0.63	1.18
0455800	1455800	2455800	3455800	007	0.228	0.236	0.260	0.63	1.18
0456300	1456300	2456300	3456300	006	0.248	0.256	0.280	0.63	1.18
0456700	1456700	2456700	3456700	005	0.264	0.276	0.303	0.63	1.18
0457200	1457200	2457200	3457200	004	0.283	0.295	0.323	0.63	1.18
0457700	1457700	2457700	3457700	003	0.303	0.315	0.343	0.79	1.18
0458200	1458200	2458200	3458200	002	0.323	0.335	0.362	0.79	1.18
0458600	1458600	2458600	3458600	001	0.339	0.354	0.386	0.79	1.18

Tube expander with adjustable rolling width and clamping bell for the expansion of the tubes at the second, opposite expansion side in the case of straight tubes. With full bell for U-tubes.

DIMENSIONS FOR NORMAL VERSION

Tube expander	Spare mandrel	Spare rolls	Spare body	Size	Body Ø	Tube c.w.	max. exp.	Rolling width	Mandr. sq.	Insert. clamp. b.	Outer bell Ø	Actual roll l.
Order no.	Order no.	Order no.	Order no.		inch	inch	inch	inch	inch	inch	inch	inch
0459600	1459600	2459600	3459600	00	0,378	0,394	0,437	0.59 - 0.98	0,35	0,59	1,18	1,18
0459700	1459700	2459700	3459700	01	0,417	0,433	0,476	0.59 - 0.98	0,35	0,59	1,26	1,18
0459800	1459800	2459800	3459800	02	0,457	0,472	0,535	0.59 - 0.98	0,35	0,59	1,26	1,18
0459900	1459900	2459900	3459900	03	0,496	0,512	0,575	0.79 - 1.18	0,35	0,59	1,34	1,38
0450100	1450100	2450100	3450100	1	0,535	0,551	0,614	0.79 - 1.18	0,35	0,59	1,34	1,38
0450200	1450200	2450200	3450200	2	0,575	0,591	0,654	0.98 - 1.57	0,35	0,59	1,54	1,77
0450300	1450300	2450300	3450300	3	0,610	0,630	0,709	0.98 - 1.57	0,35	0,59	1,54	1,77
0450400	1450400	2450400	3450400	4	0,650	0,669	0,768	0.98 - 1.77	0,35	0,59	1,81	1,97
0450500	1450500	2450500	3450500	5	0,685	0,709	0,803	0.98 - 1.77	0,35	0,59	1,81	2,09
0450600	1450600	2450600	3450600	6	0,724	0,748	0,862	0.98 - 1.77	0,35	0,59	1,81	2,09
0450700	1450700	2450700	3450700	7	0,748	0,787	0,886	0.98 - 1.77	0,35	0,59	1,81	2,09
0450800	1450800	2450800	3450800	8	0,787	0,827	0,906	0.98 - 1.77	0,35	0,59	1,81	2,09
0450900	1450900	2450900	3450900	9	0,827	0,866	0,965	0.98 - 1.77	0,35	0,59	1,81	2,09
0451000	1451000	2451000	3451000	10	0,866	0,906	1,004	0.98 - 1.77	0,47	0,59	2,01	2,09
0451100	1451100	2451100	3451100	11	0,906	0,945	1,043	0.98 - 1.97	0,47	0,59	2,01	2,28
0451200	1451200	2451200	3451200	12	0,945	0,984	1,102	0.98 - 1.97	0,47	0,59	2,01	2,28
0459000	1459000	2459000	3459000	90	0,984	1,024	1,142	0.98 - 1.97	0,47	0,59	2,01	2,28
0451300	1451300	2451300	3451300	13	1,024	1,063	1,181	0.98 - 1.97	0,47	0,59	2,24	2,28
0459100	1459100	2459100	3459100	91	1,063	1,102	1,220	0.98 - 1.97	0,47	0,59	2,24	2,28
0451400	1451400	2451400	3451400	14	1,102	1,142	1,260	0.98 - 1.97	0,47	0,59	2,24	2,28
0459200	1459200	2459200	3459200	92	1,142	1,181	1,299	0.98 - 1.97	0,47	0,59	2,24	2,28
0451500	1451500	2451500	3451500	15	1,181	1,220	1,339	0.98 - 1.97	0,55	0,00	2,05	2,28
0451600	1451600	2451600	3451600	16	1,260	1,299	1,417	0.98 - 1.97	0,55	0,00	2,05	2,28
0451700	1451700	2451700	3451700	17	1,339	1,378	1,496	0.98 - 1.97	0,55	0,00	2,05	2,28
0451800	1451800	2451800	3451800	18	1,417	1,457	1,614	0.98 - 1.97	0,55	0,00	2,28	2,28
0451900	1451900	2451900	3451900	19	1,496	1,535	1,693	0.98 - 1.97	0,63	0,00	2,28	2,28
0452000	1452000	2452000	3452000	20	1,575	1,614	1,772	0.98 - 1.97	0,63	0,00	2,56	2,28
0452100	1452100	2452100	3452100	21	1,654	1,693	1,850	0.98 - 1.97	0,63	0,00	2,56	2,76
0452200	1452200	2452200	3452200	22	1,732	1,772	1,969	0.98 - 2.24	0,71	0,00	2,56	2,76
0452300	1452300	2452300	3452300	23	1,811	1,850	2,047	0.98 - 2.24	0,71	0,00	2,95	2,76
0452400	1452400	2452400	3452400	24	1,890	1,929	2,126	0.98 - 2.24	0,71	0,00	2,95	2,76
0452500	1452500	2452500	3452500	25	1,969	2,008	2,205	0.98 - 2.24	0,71	0,00	2,95	2,76
0452600	1452600	2452600	3452600	26	2,047	2,087	2,323	0.98 - 2.24	0,71	0,00	3,31	2,76
0452700	1452700	2452700	3452700	27	2,126	2,165	2,402	0.98 - 2.24	0,71	0,00	3,31	2,76
0452800	1452800	2452800	3452800	28	2,205	2,244	2,480	0.98 - 2.24	0,87	0,00	3,31	2,76
0452900	1452900	2452900	3452900	29	2,283	2,323	2,559	0.98 - 2.24	0,71	0,00	3,31	2,76
0453000	1453000	2453000	3453000	30	2,362	2,402	2,677	0.98 - 2.24	0,87	0,00	3,70	2,76
0453100	1453100	2453100	3453100	31	2,441	2,520	2,756	0.98 - 2.24	0,87	0,00	3,70	2,76
0453200	1453200	2453200	3453200	32	2,520	2,598	2,835	0.98 - 2.24	0,87	0,00	3,70	2,76
0453300	1453300	2453300	3453300	33	2,598	2,677	2,913	0.98 - 2.24	0,87	0,00	3,70	2,76
0453400	1453400	2453400	3453400	34	2,677	2,756	2,992	0.98 - 2.24	0,87	0,00	4,02	2,76

TECHNICAL DATA – TUBE EXPANDERS WITH LEVER BELL, SERIES T 46 (formerly T 56)

DIMENSIONS FOR NORMAL VERSION

Tube expander	Spare mandrel	Spare rolls	Spare body	Size	Body Ø	Tube c.w.	max. exp.	Rolling width	Man-drel sq.	Tube proj.	Tube outer Ø min.	Tube outer Ø max.	Outer bell Ø	Actual roll l.	Centre-dist. „a“
Order no.	Order no.	Order no.	Order no.		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
0459600	1459600	2459600	3459600	00	0.378	0.394	0.437	0.59 - 0.98	0.35	0.08	0.472	0.551	1.18	1.18	0.79
0459700	1459700	2459700	3459700	01	0.417	0.433	0.476	0.59 - 0.98	0.35	0.08	0.512	0.669	1.26	1.18	0.87
0459800	1459800	2459800	3459800	02	0.457	0.472	0.535	0.59 - 0.98	0.35	0.08	0.571	0.669	1.26	1.18	0.87
0459900	1459900	2459900	3459900	03	0.496	0.512	0.575	0.79 - 1.18	0.35	0.08	0.610	0.748	1.34	1.38	0.91
0450100	1450100	2450100	3450100	1	0.535	0.551	0.614	0.79 - 1.18	0.35	0.08	0.650	0.748	1.34	1.38	0.91
0450200	1450200	2450200	3450200	2	0.575	0.591	0.654	0.98 - 1.57	0.35	0.08	0.689	0.846	1.54	1.77	0.98
0450300	1450300	2450300	3450300	3	0.610	0.630	0.709	0.98 - 1.57	0.35	0.08	0.748	0.846	1.54	1.77	0.98
0450400	1450400	2450400	3450400	4	0.650	0.669	0.768	0.98 - 1.77	0.35	0.12	0.807	0.846	1.81	1.97	0.98
0450500	1450500	2450500	3450500	5	0.685	0.709	0.803	0.98 - 1.77	0.35	0.12	0.846	0.906	1.81	2.09	1.02
0450600	1450600	2450600	3450600	6	0.724	0.748	0.862	0.98 - 1.77	0.35	0.12	0.906	0.906	1.81	2.09	1.02
0450700	1450700	2450700	3450700	7	0.748	0.787	0.886	0.98 - 1.77	0.35	0.12	0.925	1.102	1.81	2.09	1.14
0450800	1450800	2450800	3450800	8	0.787	0.827	0.906	0.98 - 1.77	0.35	0.12	0.965	1.102	1.81	2.09	1.14
0450900	1450900	2450900	3450900	9	0.827	0.866	0.965	0.98 - 1.77	0.35	0.12	1.004	1.181	1.81	2.09	1.18
0451000	1451000	2451000	3451000	10	0.866	0.906	1.004	0.98 - 1.77	0.47	0.12	1.043	1.181	2.01	2.09	1.18
0451100	1451100	2451100	3451100	11	0.906	0.945	1.043	0.98 - 1.97	0.47	0.12	1.083	1.299	2.01	2.28	1.26
0451200	1451200	2451200	3451200	12	0.984	1.102	1.102	0.98 - 1.97	0.47	0.12	1.142	1.339	2.01	2.28	1.26
0459000	1459000	2459000	3459000	90	0.984	1.024	1.142	0.98 - 1.97	0.47	0.12	1.181	1.299	2.01	2.28	1.26
0451300	1451300	2451300	3451300	13	1.024	1.063	1.181	0.98 - 1.97	0.47	0.12	1.220	1.457	2.24	2.28	1.34
0459100	1459100	2459100	3459100	91	1.063	1.102	1.220	0.98 - 1.97	0.47	0.12	1.260	1.457	2.24	2.28	1.34
0451400	1451400	2451400	3451400	14	1.102	1.142	1.260	0.98 - 1.97	0.47	0.12	1.299	1.457	2.24	2.28	1.34
0459200	1459200	2459200	3459200	92	1.142	1.181	1.299	0.98 - 1.97	0.47	0.12	1.339	1.457	2.24	2.28	1.34
0451500	1451500	2451500	3451500	15	1.181	1.220	1.339	0.98 - 1.97	0.55	0.00	1.378	—	2.05	2.28	2.13
0451600	1451600	2451600	3451600	16	1.260	1.299	1.417	0.98 - 1.97	0.55	0.00	1.457	—	2.05	2.28	2.13
0451700	1451700	2451700	3451700	17	1.339	1.378	1.496	0.98 - 1.97	0.55	0.00	1.535	—	2.05	2.28	2.13
0451800	1451800	2451800	3451800	18	1.417	1.457	1.614	0.98 - 1.97	0.55	0.00	1.654	—	2.28	2.28	2.24
0451900	1451900	2451900	3451900	19	1.496	1.535	1.693	0.98 - 1.97	0.63	0.00	1.732	—	2.28	2.28	2.24
0452000	1452000	2452000	3452000	20	1.575	1.614	1.772	0.98 - 1.97	0.63	0.00	1.811	—	2.56	2.28	2.40
0452100	1452100	2452100	3452100	21	1.654	1.693	1.850	0.98 - 1.97	0.63	0.00	1.890	—	2.56	2.76	2.40
0452200	1452200	2452200	3452200	22	1.732	1.772	1.969	0.98 - 2.24	0.71	0.00	2.008	—	2.56	2.76	2.40
0452300	1452300	2452300	3452300	23	1.811	1.850	2.047	0.98 - 2.24	0.71	0.00	2.087	—	2.95	2.76	2.60
0452400	1452400	2452400	3452400	24	1.890	1.929	2.126	0.98 - 2.24	0.71	0.00	2.165	—	2.95	2.76	2.60
0452500	1452500	2452500	3452500	25	1.969	2.008	2.205	0.98 - 2.24	0.71	0.00	2.244	—	2.95	2.76	2.60
0452600	1452600	2452600	3452600	26	2.047	2.087	2.323	0.98 - 2.24	0.71	0.00	2.362	—	3.31	2.76	2.76
0452700	1452700	2452700	3452700	27	2.126	2.165	2.402	0.98 - 2.24	0.71	0.00	2.441	—	3.31	2.76	2.76
0452800	1452800	2452800	3452800	28	2.205	2.244	2.480	0.98 - 2.24	0.87	0.00	2.520	—	3.31	2.76	2.76
0452900	1452900	2452900	3452900	29	2.283	2.323	2.559	0.98 - 2.24	0.71	0.00	2.598	—	3.31	2.76	2.76
0453000	1453000	2453000	3453000	30	2.362	2.402	2.677	0.98 - 2.24	0.87	0.00	2.717	—	3.70	2.76	2.95
0453100	1453100	2453100	3453100	31	2.441	2.520	2.756	0.98 - 2.24	0.87	0.00	2.795	—	3.70	2.76	2.95
0453200	1453200	2453200	3453200	32	2.520	2.598	2.835	0.98 - 2.24	0.87	0.00	2.874	—	3.70	2.76	2.95
0453300	1453300	2453300	3453300	33	2.598	2.677	2.913	0.98 - 2.24	0.87	0.00	2.953	—	3.70	2.76	2.95
0453400	1453400	2453400	3453400	34	2.677	2.756	2.992	0.98 - 2.24	0.87	0.00	3.031	—	4.02	2.76	3.11

Tube expander with adjustable rolling width and holding lever for holding the loose tube at the start of expansion at the first expansion end.

