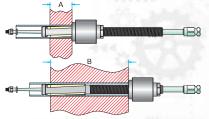


TUBE EXPANDER 1200 SERIES



FEATURES OF "1200" SERIES TUBE EXPANDERS:

- Most popular tool worldwide for use on heat exchangers and condensers.
- with tubes of 1/2"-1.1/2" O.D. Longer reach Expander available.



FOR TUBES INTERNAL DIAMETER From 0.334" (8.4 mm) to 1.430 (36.3 mm)

Tube	Expander Fitted With Roller Length	Minimum A	Maximum B								
	STANDARD REACH	1.1/2" (38.1mm)	6" (152.4 mm)								
1.1/2" (38.1mm)	"A" REACH	1.1/2" (38.1mm)	8" (203.2 mm)								
	"B" REACH	1.1/2" (38.1mm)	10" (253.8 mm)								
	"C" REACH	1.1/2" (38.1mm)	12" (304.6" mm)								
	STANDARD REACH	2.1/4" (57.1mm)	6.3/4" (171.4 mm)								
2.1/4" (57.1mm)	"A" REACH	2.1/4" (57.1mm)	8.3/4" (222.1 mm)								
	"B" REACH	2.1/4" (57.1mm)	10.3/4" (272.8 mm)								
	"C" REACH	2.1/4" (57.1mm)	12.3/4" (323.6" mm)								

TUBE EXPANDERS SPECIFICATION

Inch	TUBE	DD Thickness				ibe	Tube			aximum		DER with(38.1 m	ım)	EXPANDER with (57.1mm)		
Part	OD				1.0.		Tool Enters	nters	Expans	ION OT 100		/2" Long Rollers		2.1/4" Long Rollers		
12 15 1.82 0.072 9.0 0.356 8.8 0.348 10.1 0.398 1199 1119 R-1 - - - - -		BWG	mm	inch	mm	inch	Mm	inch	Mm	inch		Mandre l	Roller	Tool No	Mandrel	Roller
10		14	2.1	0.083	8.4	0.334	8.2	0.324	9.5	0.374	1197	1197	797	-	-	-
17	12.70	15	1.82	0.072	9.0	0.356	8.8	0.348	10.1	0.398	1199	1199	R- 1	-	-	-
18		16	1.65	0.065	9.4	0.370	9.1	0.360	10.4	0.410	1201	M- 51	R- 1	-	-	-
120 0.88 0.035 10.9 0.430 10.3 0.406 11.7 0.461 1205 M-53 R-3	1/2 "	17	1.47	0.058	9.7	0.384	9.5	0.374	10.7	0.424	1203	M- 51	R- 2	-	-	-
12 2.76 0.109 10.3 0.407 9.9 0.392 11.3 0.447 1205 M-52 R-3 1206 M-52 R-3 13 2.41 0.095 11.0 0.0435 10.8 0.025 12.1 0.480 0.270 M-53 R-4 1208 M-53 R-4 14 2.11 0.083 11.6 0.459 11.4 0.449 12.9 0.599 12.09 M-54 R-4 1210 M-54 R-5 R		18	1.24	0.049	10.2	0.402	9.9	0.392	11.3	0.447	1205	M- 52	R- 3	-	-	-
13		20	0.88	0.035	10.9	0.430	10.3	0.406	11.7	0.461	1205 S	M - 53	R- 3	-	-	-
14		12	2.76	0.109	10.3	0.407	9.9	0.392	11.3	0.447	1205	M- 52	R- 3	1206	M- 52	R- 3 A
15.88		13	2.41	0.095	11.0	0.435	10.8	0.425	12.1	0.480	1207	M- 53	R- 4	1208	M- 53	R- 4 A
15.88		14	2.11	0.083	11.6	0.459	11.4	0.449	12.9	0.509	1209	M- 54	R- 4	1210	M- 54	R- 4 A
16	15.00	15	1.82	0.072	12.2	0.481	11.9	0.471	13.6	0.536	1211	M- 55	R - 5	1212	M- 55	R- 5 A
18	15.88	16	1.65	0.065	12.5	0.495	12.3	0.485	13.9	0.550	1213	M- 55	R- 6	1214	M- 55	R- 6 A
18 1.24 0.049 13.3 0.527 13.1 0.517 14.5 0.572 1217 M-57 R-7 1218 M-57 R-7 A 19 1.06 0.042 13.7 0.541 13.2 0.522 14.7 0.582 1219 M-56 R-7 1220 M-56 R-7 A 20 0.88 0.035 14.1 0.555 13.6 0.536 15.1 0.596 12195 M-58 R-7 12205 M-58 R-7 A 21 0.81 0.032 14.2 0.561 13.6 0.536 15.1 0.596 12195 M-58 R-7 12205 M-58 R-7 A 22 0.71 0.028 14.4 0.569 13.6 0.536 15.1 0.596 12195 M-58 R-7 12205 M-58 R-7 A 10 3.40 0.134 12.2 0.482 11.9 0.471 13.6 0.536 1211 M-55 R-5 1212 M-55 R-5 A 11 3.04 0.120 12.9 0.510 12.6 0.499 14.3 0.564 1215 M-56 R-6 1216 M-55 R-6 A 12 2.76 0.109 13.5 0.532 13.2 0.522 14.7 0.582 1219 M-56 R-7 1220 M-58 R-8 A 13 2.41 0.095 14.2 0.560 13.9 0.550 15.6 0.615 1221 M-58 R-8 R-9 1224 M-58 R-8 A 14 2.10 0.083 14.8 0.584 14.5 0.574 16.2 0.639 1223 M-58 R-9 1224 M-58 R-9 A 16 1.65 0.065 15.7 0.660 15.1 0.596 16.7 0.661 1225 M-59 R-10 1228 M-59 R-11 1230 M-59 R-11 1230 M-59 R-11 1230 M-59 R-11 1230 M-59 R-12 1232 M-59	5/Q W	17	1.47	0.058	12.9	0.509	12.6	0.499	14.3	0.564	1215	M- 56	R- 6	1216	M- 56	R- 6 A
20	3/0	18	1.24	0.049	13.3	0.527	13.1	0.517	14.5	0.572	1217	M- 57	R- 7	1218	M - 57	R-7A
19.05 14.2 0.561 13.6 0.536 15.1 0.596 12195 M-58 R-7 12205 M-58 R-7A 12205 M-58 R-5A 121 M-55 R-5A 121 M-56 R-7A 1220 M-58 R-8A 1222 M-58 R-9A 1224 M-58 R-9A 1225 M-58 R-10 1226 M-58 R-10A 1226 M-59 R-11A 1220 M-59 R-12A 1220 M-59		19	1.06	0.042	13.7	0.541	13.2	0.522	14.7	0.582	1219	M- 56	R- 7	1220	M- 56	R-7A
19.05 1.0 1.		20	0.88	0.035	14.1	0.555	13.6	0.536	15.1	0.596	12195	M- 58	R- 7	1220 S	M- 58	R-7A
100 3.40 0.134 12.2 0.482 11.9 0.471 13.6 0.536 1211 M-55 R-5 1212 M-55 R-5 R-5 1212 M-55 R-5 R-5 R-6		21	0.81	0.032	14.2	0.561	13.6	0.536	15.1	0.596	12195	M- 58	R- 7	1220 S	M- 58	R-7A
11 3.04 0.120 12.9 0.510 12.6 0.499 14.3 0.564 1215 M-56 R-6 1216 M-56 R-6 A 12 2.76 0.109 13.5 0.532 13.2 0.522 14.7 0.582 1219 M-56 R-7 1220 M-56 R-7 A 13 2.41 0.095 14.2 0.560 13.9 0.550 15.6 0.615 1221 M-58 R-8 1222 M-58 R-8 A 14 2.10 0.083 14.8 0.584 14.5 0.574 16.2 0.639 1223 M-58 R-9 1224 M-58 R-9 A 15 1.82 0.072 15.3 0.606 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 16 1.65 0.065 15.7 0.620 15.3 0.605 17.4 0.685 1227 M-59 R-10 1228 M-59 R-10 A 17 1.47 0.058 16.1 0.634 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11 A 18 1.24 0.049 16.5 0.652 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11 A 19 1.06 0.042 16.9 0.666 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 20 0.88 0.035 17.2 0.680 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 11 3.04 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-59 R-12 A 11 3.04 0.103 17.4 0.685 17.0 0.619 17.7 0.699 1229 M-59 R-12 1232 M-59 R-12 A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 11 3.04 0.103 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 11 3.04 0.103 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 11 3.04 0.103 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 11 3.04 0.104 16.1 0.635 15.7 0.619 17.7 0.699 129 M-59 R-12 1232 M-59 R-12 A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 14 2.11 0.083 18.0 0.709 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13 1234 M-60 R-13 1240 M-60 R-15 A		22	0.71	0.028	14.4	0.569	13.6	0.536	15.1	0.596	12195	M- 58	R- 7	1220 S	M- 58	R-7A
12 2.76 0.109 13.5 0.532 13.2 0.522 14.7 0.582 1219 M-56 R-7 1220 M-56 R-7A 13 2.41 0.095 14.2 0.560 13.9 0.550 15.6 0.615 1221 M-58 R-8 1222 M-58 R-8A 14 2.10 0.083 14.8 0.584 14.5 0.574 16.2 0.639 1223 M-58 R-9 1224 M-58 R-8A 15 18.2 0.072 15.3 0.606 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 16 1.65 0.065 15.7 0.620 15.3 0.605 17.4 0.685 1227 M-59 R-10 1228 M-59 R-10A 17 1.47 0.058 16.1 0.634 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 18 1.24 0.049 16.5 0.652 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 19 1.06 0.042 16.9 0.666 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 20 0.88 0.035 17.2 0.680 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-12 1232 M-59 R-12A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 129 M-59 R-11 1230 M-59 R-12A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 14 2.11 0.083 18.0 0.709 17.4 0.685 17.0 0.699 1229 M-59 R-11 1230 M-59 R-12 1232 M-59 R-12A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-14 1236 M-61 R-15A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15A 17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243 M-62 R-15 1244 M-62 R-15A		10	3.40	0.134	12,2	0.482	11.9	0.471	13.6	0.536	1211	M- 55	R - 5	1212	M- 55	R- 5 A
13		11	3.04	0.120	12.9	0.510	12.6	0.499	14.3	0.564	1215	M- 56	R- 6	1216	M- 56	R- 6 A
19.05 14 2.10 0.083 14.8 0.584 14.5 0.574 16.2 0.639 1223 M-58 R-9 1224 M-58 R-9A 15 1.82 0.072 15.3 0.606 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 16 1.65 0.065 15.7 0.620 15.3 0.605 17.4 0.685 1227 M-59 R-10 1228 M-59 R-10A 17 1.47 0.058 16.1 0.634 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 18 1.24 0.049 16.5 0.652 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 19 1.06 0.042 16.9 0.666 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 20 0.88 0.035 17.2 0.680 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-12A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-12 1232 M-59 R-12A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-12 1232 M-59 R-12A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-12A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 14 2.11 0.083 18.0 0.709 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13 R-14 R-15 1238 M-61 R-15 R-15 R-15 R-15 R-15 R-15 R-15 R-1		12	2.76	0.109	13.5	0.532	13.2	0.522	14.7	0.582	1219	M- 56	R - 7	1220	M- 56	R-7A
19.05 15 1.82 0.072 15.3 0.606 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A		13	2.41	0.095	14.2	0.560	13.9	0.550	15.6	0.615	1221	M- 58	R- 8	1222	M- 58	R-8A
15 1.82 0.072 15.3 0.606 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 16 1.65 0.065 15.7 0.620 15.3 0.605 17.4 0.685 1227 M-59 R-10 1228 M-59 R-10 A 17 1.47 0.058 16.1 0.634 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11 A 18 1.24 0.049 16.5 0.652 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-12 A 19 1.06 0.042 16.9 0.666 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 20 0.88 0.035 17.2 0.680 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11 A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-14 A 12 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13 1234 M-60 R-13 A 14 2.11 0.083 18.0 0.709 17.4 0.685 19.6 0.774 1235 M-61 R-14 1236 M-61 R-14 A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15 A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15 A	10.05	14	2.10	0.083	14.8	0.584	14.5	0.574	16.2	0.639	1223	M- 58	R - 9	1224	M- 58	R- 9 A
17	19.05	15	1.82	0.072	15.3	0.606	15.1	0.596	16.7	0.661	1225	M- 58	R- 10	1226	M- 58	R- 10 A
17 1.47 0.058 16.1 0.634 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11 A	3// "	16	1.65	0.065	15.7	0.620	15.3	0.605	17.4	0.685	1227	M- 59	R- 10	1228	M- 59	R- 10 A
19 1.06 0.042 16.9 0.666 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A	3/4	17	1.47	0.058	16.1	0.634	15.7	0.619	17.7	0.699	1229	M- 59	R- 11	1230	M- 59	R- 11 A
20 0.88 0.035 17.2 0.680 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-11A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-11A 14 2.11 0.083 18.0 0.709 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-14 1236 M-61 R-15A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15A		18	1.24	0.049	16.5	0.652	15.7	0.619	17.7	0.699	1229	M- 59	R- 11	1230	M- 59	R- 11 A
21 0.81 0.032 17.4 0.686 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 A		19	1.06	0.042	16.9	0.666	16.3	0.642	18.3	0.722	1231	M- 59	R- 12	1232	M- 59	R- 12 A
22 0.71 0.028 17.6 0.694 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10A 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-11A 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13A 14 2.11 0.083 18.0 0.709 17.4 0.685 19.6 0.774 1235 M-61 R-14 1236 M-61 R-14A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15A 17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243 M-62 R-16 1244 M-62 R-16A		20	0.88	0.035	17.2	0.680	16.3	0.642	18.3	0.722	1231	M- 59	R- 12	1232	M- 59	R- 12 A
10 3.40 0.134 15.4 0.607 15.1 0.596 16.7 0.661 1225 M-58 R-10 1226 M-58 R-10 1226 M-58 R-10 11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-12 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12 1232 M-59 R-12 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13 1234 M-60 R-13 124 M-60 R-13 125 M-61 R-14 1236 M-61 R-14 125 M-61 R-14 125 M-61 R-14 125 M-61 R-14 125 M-61 R-15 M-61		21	0.81	0.032	17.4	0.686	16.3	0.642	18.3	0.722	1231	M- 59	R- 12	1232	M- 59	R- 12 A
11 3.04 0.120 16.1 0.635 15.7 0.619 17.7 0.699 1229 M-59 R-11 1230 M-59 R-11A 1230 M-59 R-12A 1231 M-59 R-12A 1231 M-59 R-12A 1232 M-59 R-12A 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13A 1234 M-61A R-14A 1236 M-61 R-14A 1236 M-61 R-14A 1236 M-61 R-15A 1236 M-61 R-15A 1238 M-61 R-15A 1		22	0.71	0.028	17.6	0.694	16.3	0.642	18.3	0.722	1231	M- 59	R- 12	1232	M- 59	R- 12 A
22.22 12 2.76 0.109 16.6 0.657 16.3 0.642 18.3 0.722 1231 M-59 R-12 1232 M-59 R-12A 7/8 " 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13A 14 2.11 0.083 18.0 0.709 17.4 0.685 19.6 0.774 1235 M-61 R-14 1236 M-61 R-14A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15 A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15 A 17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243		10	3.40	0.134	15.4	0.607	15.1	0.596	16.7	0.661	1225	M- 58	R- 10	1226	M- 58	R- 10 A
22.22 13 2.41 0.095 17.4 0.685 17.0 0.670 19.0 0.870 1233 M-60 R-13 1234 M-60 R-13A 14 2.11 0.083 18.0 0.709 17.4 0.685 19.6 0.774 1235 M-61 R-14 1236 M-61 R-14A 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15 A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15 A 17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243 M-62 R-16 1244 M-62 R-16 A		11	3.04	0.120	16.1	0.635	15.7	0.619	17.7	0.699	1229	M- 59	R- 11	1230	M- 59	R- 11 A
7/8 13 2.41	22.22	12	2.76	0.109	16.6	0.657	16.3	0.642	18.3	0.722	1231	M- 59	R- 12	1232	M - 59	R- 12 A
7/8 15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15 A 16 1.65 0.065 18.9 0.745 18.4 0.726 20.7 0.815 1239 M-62 R-15 1240 M-62 R-15 A 17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243 M-62 R-16 1244 M-62 R-16 A	22.22	13	2.41	0.095	17.4	0.685	17.0	0.670	19.0	0.870	1233	M- 60	R- 13	1234	M- 60	R- 13 A
15 1.82 0.072 18.5 0.731 18.0 0.712 20.3 0.801 1237 M-61 R-15 1238 M-61 R-15 A	7/0	14	2.11	0.083	18.0	0.709	17.4	0.685	19.6	0.774	1235	M- 61	R- 14	1236	M- 61	R- 14 A
17 1.47 0.058 19.2 0.879 18.8 0.740 21.0 0.829 1243 M-62 R-16 1244 M-62 R-16 A	//8	15	1.82	0.072	18.5	0.731	18.0	0.712	20.3	0.801	1237	M- 61	R- 15	1238	M- 61	R- 15 A
		16	1.65	0.065	18.9	0.745	18.4	0.726	20.7	0.815	1239	M- 62	R- 15	1240	M - 62	R- 15 A
18 1.24 0.049 19.7 0.777 18.8 0.740 21.0 0.829 1243 M-62 R-16 1244 M-62 R-16 A		17	1.47	0.058	19.2	0.879	18.8	0.740	21.0	0.829	1243	M- 62	R- 16	1244	M- 62	R- 16 A
		18	1.24	0.049	19.7	0.777	18.8	0.740	21.0	0.829	1243	M- 62	R- 16	1244	M- 62	R- 16 A

An ISO 9001: 2015 Certified Co.





TUBE EXPANDER 1200 SERIES

TUBE OD	Tube Thickness				ube .D.		Tube I.D. Tool Enters		oansion Foo l		ER with(38.1 m	m)	EXPANDER with (57.1mm) 2.1/4" Long Rollers		
(mm) Inch	BWG	mm	inch	mm	inch	Mm	inch	Mm	inch	Tool No	Mandrel	Roller	Tool No	Mandrel	Roller
	8	4.19	0.165	17.0	0.670	16.6	0.655	18.6	0.735	1241	M- 59	R- 13	1242	M- 59	R- 13 A
	9	3. 87	0.148	17.8	0.704	17.4	0.685	19.6	0.774	1235	M- 61	R- 14	1236	M- 61	R- 14 A
	10	3.40	0.134	18.5	0.732	18.0	0.712	20.3	0.801	1237	M- 61	R- 15	1238	M- 61	R- 15 A
	11	3.04	0.120	19.3	0.760	18.8	0.740	21.0	0.829	1243	M- 62	R- 16	1244	M- 62	R- 16 A
	12	2.76	0.109	19.8	0.782	19.3	0.763	21.6	0.852	1245	M- 62	R- 17	1246	M- 62	R- 17 A
25.40	13	2.41	0.095	20.5	0.810	20.0	0.791	22.3	0.880	1247	M- 62	R- 18	1248	M- 62	R- 18 A
	14	2.11	0.083	21.1	0.834	20.5	0.810	23.0	0.909	1249	M - 63	R- 18	1250	M- 63	R- 18 A
1"	15	1.82	0.072	21.7	0.856	21.2	0.837	23.7	0.936	1251	M- 63	R- 19	1252	M- 63	R- 19 A
	16	1.65	0.065	22.1	0.870	21.2	0.837	23.7	0.936	1251	M- 63	R- 19	1252	M- 63	R- 19 A
	17	1.47	0.058	22.4	0.884	21.9	0.865 0.865	24.4	0.964	1255 1255	M- 63 M- 63	R-21 R-21	1256 1256	M- 63 M- 63	R- 21 A R- 21 A
	19	1.06	0.049	23.2	0.902	21.9	0.865	24.4	0.964	1255	M- 63	R-21	1256	M- 63	R-21 A
	20	0.88	0.042	23.6	0.910	21.9	0.865	24.4	0.964	1255	M- 63	R-21	1256	M- 63	R-21 A
	8	4.19	0.165	20.1	0.795	19.7	0.776	22.2	0.8 87	1253	M- 63	R- 20	1254	M- 63	R- 20 A
	9	3. 87	0.148	21.0	0.829	20.5	0.810	23.0	0.909	1249	M- 63	R- 18	1250	M- 63	R- 18 A
	10	3.40	0.134	21.7	0.857	21.2	0.837	23.7	0.936	1251	M - 63	R- 19	1252	M- 63	R- 19 A
	11	3.04	0.120	22.4	0.885	21.9	0.865	24.4	0.964	1255	M- 63	R-21	1256	M- 63	R- 21 A
28.58	12	2.76	0.109	23.0	0.907	22.4	0.883	24.9	0.982	1257	M- 64	R-21	1258	M- 64	R- 21 A
	13	2.41	0.095	23.7	0.935	23.2	0.926	25.7	1.025	1259	M- 64	R- 22	1260	M- 64	R- 22 A
1.1/8"	14	2.11	0.083	24.3	0.959	23.7	0.935	26.5	1.044	1261	M- 65	R-23	1262	M- 65	R- 23 A
	15	1.82	0.072	24.9	0.981	24.4	0.962	27.2	1.071	1263	M- 65	R- 24	1264	M- 65	R- 24 A
	16	1.65	0.065	25.2	0.995	24.4	0.962	27.2	1.071	1263	M- 65	R-24	1264	M- 65	R- 24 A
	17	1.47	0.058	25.6	1.010	25.1	0.990	27.9	1.009	1267	M- 66	R- 26	1268	M- 66	R- 26 A
	18	1.24	0.049	26.0	1.027	25.1	0.990	27.9	1.009	1267	M- 66	R- 26	1268	M- 66	R- 26 A
	9	4.19	0.165	23.3	0.920	22.8	0.901	25.6	1.010	1265	M- 65	R- 25	1266	M- 65	R- 25 A
	10	3. 87 3.40	0.148	24.2	0.954	23.7	0.935	26.5 27.2	1.044	1261 1263	M- 65 M- 65	R- 23 R- 24	1262 1264	M- 65 M- 65	R- 23 A R- 24 A
	11	3.04	0.134	25.6	1.010	25.9	0.962	27.2	1.099	1267	M- 66	R-24	1268	M- 66	R- 24 A
31. 87	12	2.76	0.109	26.2	1.032	25.7	1.013	28.5	1.122	1269	M- 66	R- 27	1270	M- 66	R- 27 A
307	13	2.41	0.095	26.9	1.060	26.4	1.039	29.2	1.150	1271	M- 67	R- 28	1272	M- 67	R- 28 A
1.1/4 "	14	2.11	0.083	27.5	1.084	26.9	1.060	29.6	1.169	1273	M- 67	R- 29	1274	M- 67	R- 29 A
	15	1.82	0.072	28.0	1.106	27.6	1.087	30.3	1.196	12 87	M- 67	R-30	1276	M- 67	R- 30 A
	16	1.65	0.065	28.4	1.120	27.6	1.087	30.3	1.196	12 87	M- 67	R-30	1276	M- 67	R- 30 A
	17	1.47	0.058	28.8	1.134	28.3	1.115	31.0	1.224	1279	M- 68	R-30	1280	M- 68	R- 30 A
	18	1.24	0.049	29.2	1.152	28.3	1.115	31.0	1.224	1279	M- 68	R-30	1280	M- 68	R- 30 A
	8	4.19	0.165	26.5	1.045	26.0	1.026	28.8	1.135	1277	M- 67	R-31	1272	M- 67	R- 31 A
	9	3. 87	0.148	27.4	1.079	26.9	1.060	29.6	1.169	1273	M- 67	R- 29	1274	M- 67	R- 29 A
	10	3.40	0.134	28.1	1.107	27.6	1.087	30.3	1.196	12 87	M- 67	R-30	1276	M- 67	R- 30 A
34.92	11	3.04 2.76	0.120	28.8	1.135 1.157	28.3	1.115	31.0 31.5	1.224	1279 1281	M- 68 M- 68	R- 30 R- 32	1280 1282	M- 68 M- 68	R- 30 A R- 32 A
1.3/8 "	13	2.76	0.109	30.1	1.137	29.4	1.160	32.3	1.242	1283	M- 69	R-32	1284	M- 69	R- 32 A
,0	14	2.11	0.093	30.7	1.209	29.9	1.179	32.8	1.294	1285	M- 70	R-34	1286	M- 70	R- 34 A
	15	1.82	0.072	31.2	1.231	30.6	1.206	33.5	1.321	1287	M- 70	R- 35	1288	M- 70	R- 35 A
	16	1.65	0.065	31.6	1.245	30.6	1.206	33.5	1.321	1287	M- 70	R-35	1288	M- 70	R- 35 A
	8	4.19	0.165	29.7	1.170	29.0	1.145	32.0	1.260	1289	M- 69	R-34	1290	M- 69	R- 34 A
	9	3. 87	0.148	30.5	1.204	29.9	1.177	32.8	1.294	1285	M- 70	R-34	1286	M- 70	R- 34 A
	10	3.40	0.134	31.2	1.232	30.6	1.206	33.5	1.321	1287	M- 70	R-35	1288	M- 70	R- 35 A
38.10	11	3.04	0.120	32.0	1.260	31.3	1.235	34.2	1.350	1291	M- 70	R-36	1292	M- 70	R- 36 A
	12	2.76	0.109	32.5	1.282	31.9	1.257	34.8	1.372	1293	M- 70	R-37	1294	M- 70	R- 37 A
1.1/2 "	13	2.41	0.095	33.2	1.310	32.6	1.285	35.5	1.400	1295	M- 71	R-37	1296	M- 71	R- 37 A
	14	2.11	0.083	33.8	1.334	32.6	1.285	35.5	1.400	1295	M- 71	R-37	1296	M- 71	R- 37 A
	15 16	1.82	0.072	34.4	1.356	33.8	1.331	36.7 36.7	1.446 1.446	1297 1297	M- 71 M- 71	R- 38 R- 38	1298 1298	M- 71 M- 71	R- 38 A R- 38 A
	17	1.65	0.065	35.1	1.370	33.8	1.331	37.3	1.472	1297	M- 71 M- 72	R-38	1300	M- 71	R- 38 A
	18	1.47	0.058	35.6	1.402	33.8	1.331	37.3	1.472	1299	M- 72	R-38	1300	M- 72	R- 38 A
	19	1.06	0.049	35.9	1.416	33.8	1.331	37.3	1.472	1299	M- 72	R-38	1300	M- 72	R- 38 A
	20	0.88	0.035	36.3	1.430	33.8	1.331	37.3	1.472	1299	M- 72	R-38	1300	M- 72	R- 38 A

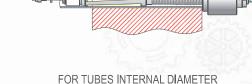
Model 1197 To 1256 come with 3/8" Sq Drive & Model 1257 To 1300 come with 1/2" Sq Dr Mandrel.

An ISO 9001: 2015 Certified Co.



TUBE EXPANDER 1200-5 SERIES





FEATURES OF "1200-5" SERIES TUBE EXPANDERS:

- Use: highly recommended for use on thin wall tubes (19 thru 22 gauge walls) of Stainless Steel, Titanium, Incoloy and other exotic materials.
- Advantages: Gives a more concentric and even expansion when expanding thin walled tubes vs. a conventional 3 roll expander and reduces tube spring back effect.

	From 0.584" (14.8 mm) to 1.430 (36.3 mm)												
		Expander Fitted With Roller Length	Minimum A	Maximum B									
		STANDARD REACH	1.1/2" (38.1mm)	6" (152.4 mm)									
	1.1/2" (38.1mm)	"A" REACH	1.1/2" (38.1mm)	8" (203.2 mm)									
		"B" REACH	1.1/2" (38.1mm)	10" (253.8 mm)									
		"C" REACH	1.1/2" (38.1mm)	12" (304.6" mm)									
		STANDARD REACH	2.1/4" (57.1mm)	6.3/4" (171.4 mm)									
	2.1/4"	"A" REACH	2.1/4" (57.1mm)	8.3/4" (222.1 mm)									
	(57.1mm)	"B" REACH	2.1/4" (57.1mm)	10.3/4" (272.8 mm)									
		"C" REACH	2.1/4" (57.1mm)	12.3/4" (323.6" mm)									

TUBE EXPANDERS SPECIFICATION

TUBE OD (mm)	OD Tube Thickness		Tube I.D.		Tube I.D. Tool Enters		Maximum Expansion of Tool		EXPANDER with(38 . 10mm) 1.1/2" Long Rollers			EXPANDER with(57.10 mm) 2.1/4" Long Rollers			
Inch	BWG	mm	inch	mm	inch	mm	inch	mm	inch	Tool No	Mandrel	Roller	Tool No	Mandrel	Roller
	14	2.10	0.083	14.8	0.584	14.5	0.574	16.2	0.639	1223 - 5	1224 - 5	R- 6- 5	1224 - 5	1224 - 5	R- 6A - 5
	15	1.82	0.072	15.3	0.606	15.1	0.596	16.7	0.661	1225 - 5	1226 - 5	R- 7- 5	1226 - 5	1226 - 5	R- 7A - 5
	16	1.65	0.065	15.7	0.620	15.3	0.605	17.4	0.685	1227 - 5	M- 63	R- 7- 5	1228 - 5	M- 63	R-7A-5
19.05	17	1.47	0.058	16.1	0.634	15.7	0.619	17.7	0.699	1229 - 5	1230 - 5	R- 7- 5	1230 - 5	1230 - 5	R-7A-5
3/4 **	18	1.24	0.049	16.5	0.652	15.7	0.619	17.7	0.699	1229 - 5	1230 - 5	R- 7- 5	1230 - 5	1230 - 5	R-7A-5
3/4 "	19	1.06	0.042	16.9	0.666	16.3	0.642	18.3	0.722	1231 - 5	M- 63	R- 9- 5	1232 - 5	M- 63	R- 9A - 5
	20	0.88	0.035	17.2	0.680	16.3	0.642	18.3	0.722	1231 - 5	M- 63	R- 9- 5	1232 - 5	M- 63	R- 9A - 5
	21	0.81	0.032	17.4	0.686	16.3	0.642	18.3	0.722	1231 - 5	M- 63	R- 9- 5	1232 - 5	M- 63	R- 9A - 5
	22	0.71	0.028	17.6	0.694	16.3	0.642	18.3	0.722	1231 - 5	M- 63	R- 9- 5	1232 - 5	M- 63	R- 9A - 5
	14	2.1	0.083	21.2	0.835	20.5	0.807	22.3	0.878	1249 - 5	1250 - 5	R- 12 - 5	1250 - 5	1250 - 5	R- 12A - 5
	15	1.82	0.072	21.7	0.854	21.3	0.839	23.8	0.937	1251 - 5	1252 - 5	R- 13 - 5	1252 - 5	1252 - 5	R- 13A - 5
25.40	16	1.65	0.065	22.0	0.866	21.3	0.839	23.8	0.937	1251 - 5	1252 - 5	R- 13 - 5	1252 - 5	1252 - 5	R- 13A - 5
	17	1.47	0.058	22.4	0.882	22.0	0.866	24.5	0.965	1255 - 5	1256 - 5	R- 13 - 5	1256 - 5	1256 - 5	R- 13A - 5
1"	18	1.24	0.049	22.9	0.902	22.0	0.866	24.5	0.965	1255 - 5	1256 - 5	R- 13 - 5	1256 - 5	1256 - 5	R- 13A - 5
	19	1.06	0.042	23.2	0.913	22.0	0.866	24.5	0.965	1255 - 5	1256 - 5	R- 13 - 5	1256 - 5	1256 - 5	R-13A-5
	20	0.88	0.035	23.6	0.929	22.0	0.866	24.5	0.965	1255 - 5	1256 - 5	R- 13 - 5	1256 - 5	1256 - 5	R-13A-5
	21	0.81	0.032	23.8	0.937	22.4	0.882	24.9	0.982	1257 - 5	M- 71*	R- 15 - 5	1258 - 5	M- 71*	R- 15A - 5
	22	0.71	0.028	24.0	0.945	22.4	0.882	24.9	0.982	1257 - 5	M- 71*	R- 15 - 5	1258 - 5	M- 71*	R- 15A - 5
28.58	12	2.76	0.109	23.0	0.907	22.4	0.883	24.9	0.982	1257 - 5	M-71*	R- 15 - 5	1258 - 5	M- 71*	R- 15A - 5
1.1/8 "	15	1.82	0.072	24.9	0.981	24.4	0.962	27.2	1.071	1263 - 5	1263 - 5	R- 18 - 5	-	-	-
	16	1.65	0.065	25.2	0.995	24.4	0.962	27.2	1.071	1263 - 5	1263 - 5	R- 18 - 5	-	-	-
38.10	17	1.47	0.058	35.1	1.396	33.8	1.341	37.3	1.472	1299 - 5	1299 - 5	R- 29 - 5	1300 - 5	1299 - 5	R- 29A - 5
	18	1.24	0.049	35.6	1.416	33.8	1.341	37.3	1.472	1299 - 5	1299 - 5	R- 29 - 5	1300 - 5	1299 - 5	R- 29A - 5
1.1/2 "	19	1.06	0.042	36.0	1.431	33.8	1.341	37.3	1.472	1299 - 5	1299 - 5	R- 29 - 5	1300 - 5	1299 - 5	R- 29A - 5
	20	0.89	0.035	36.3	1.443	33.8	1.341	37.3	1.472	1299 - 5	1299 - 5	R- 29 - 5	1300 - 5	1299 - 5	R- 29A - 5

Note: * Mandrel Come with 3/8" Square Mandrel Drive.

Model 1215-5 to 1258-5 expanders come with 3/8" Square Mandrel Drive and Model 1259-5 to 1300-5 expanders come with 1/2" Square Mandrel Drive.