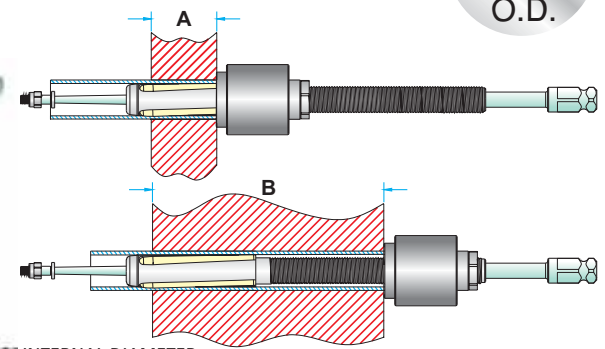


# 1200 SERIES LONG REACH

1/2"-1 1/2"  
O.D.

1200 SERIES



FOR TUBES INTERNAL DIAMETER  
FROM (8.4 mm) .334" TO (36.3 mm) 1.43"

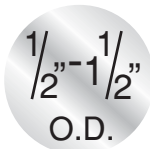
- Use : Most popular tool worldwide for heat exchangers and condensers with tubes of 5/8"-1.1/2" O.D. and thick tube sheets.
- Longer reach expanders are available. Please let us know reach needed.

| TUBE EXPANDERS<br>FITTED WITH<br>ROLLER LENGTH |            | FOR TUBE SHEET<br>ADJUSTABLE RANGE |                   |
|--|------------|------------------------------------|-------------------|
|  |            | MINIMUM<br>A                       | MAXIMUM<br>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.<br>(mm)<br>inch | Tube Thickness |      |      | Tube I.D. |      | Minimum I.D.<br>Tool Enters |      | Maximum<br>Expansion of Tool |        | EXPANDER with (38.10 mm)<br>1.1/2" Long Rollers |                |                     | EXPANDER with (57.15 mm)<br>2.1/4" Long Rollers |                |                     |        |
|---------------------------|----------------|------|------|-----------|------|-----------------------------|------|------------------------------|--------|---|----------------|---------------------|---|----------------|---------------------|--------|
|                           | bwg            | mm   | inch | mm        | inch | mm                          | inch | mm                           | inch   | Complete<br>Tool No.                            | Mandrel<br>No. | Rollers<br>Set. No. | Complete<br>Tool No.                            | Mandrel<br>No. | Rollers<br>Set. No. |        |
| (12.70)                   | 14             | 2.10 | .083 | 8.4       | .334 | 8.2                         | .324 | 9.5                          | .374   | 1197  | 1197           | 797                 | -   | -              | -                   |        |
|                           | 15             | 1.82 | .072 | 9.0       | .356 | 8.8                         | .348 | 10.1                         | .398   | 1199  | 1199           | R-1                 | -   | -              | -                   |        |
|                           | 16             | 1.65 | .065 | 9.4       | .370 | 9.1                         | .360 | 10.4                         | .410   | 1201  | M-51           | R-1                 | -   | -              | -                   |        |
|                           | 17             | 1.47 | .058 | 9.7       | .384 | 9.5                         | .374 | 10.7                         | .424   | 1203  | M-51           | R-2                 | -   | -              | -                   |        |
|                           | 18             | 1.24 | .049 | 10.2      | .402 | 9.9                         | .392 | 11.3                         | .447   | 1205  | M-52           | R-3                 | -   | -              | -                   |        |
| 1/2                       | 20             | 0.88 | .035 | 10.9      | .430 | 10.3                        | .406 | 11.7                         | .461   | 1205 S  | M-53           | R-3                 | -   | -              | -                   |        |
| (15.88)                   | 12             | 2.76 | .109 | 10.3      | .407 | 9.9                         | .392 | 11.3                         | .447   | 1205  | M-52           | R-3                 | -   | -              | -                   |        |
|                           | 13             | 2.41 | .095 | 11.0      | .435 | 10.8                        | .425 | 12.1                         | .480   | 1207  | M-53           | R-4                 | -   | -              | -                   |        |
|                           | 14             | 2.10 | .083 | 11.6      | .459 | 11.4                        | .449 | 12.9                         | .509   | 1209  | M-54           | R-4                 | 1210  | M-54           | R-4-A               |        |
|                           | 15             | 1.82 | .072 | 12.2      | .481 | 11.9                        | .471 | 13.6                         | .536   | 1211  | M-55           | R-5                 | 1212  | M-55           | R-5-A               |        |
|                           | 16             | 1.65 | .065 | 12.5      | .495 | 12.3                        | .485 | 13.9                         | .550   | 1213  | M-55           | R-6                 | 1214  | M-55           | R-6-A               |        |
|                           | 17             | 1.47 | .058 | 12.9      | .509 | 12.6                        | .499 | 14.3                         | .564   | 1215  | M-56           | R-6                 | 1216  | M-56           | R-6-A               |        |
|                           | 18             | 1.24 | .049 | 13.3      | .527 | 13.1                        | .517 | 14.5                         | .572   | 1217  | M-57           | R-7                 | 1218  | M-57           | R-7-A               |        |
|                           | 19             | 1.06 | .042 | 13.7      | .541 | 13.2                        | .522 | 14.7                         | .582   | 1219  | M-56           | R-7                 | 1220  | M-56           | R-7-A               |        |
|                           | 5/8            | 20   | 0.88 | .035      | 14.1 | .555                        | 13.6 | .536                         | 15.1   | .596  | 1219 S         | M-58                | R-7   | 1220 S         | M-58                | R-7-A  |
|                           | 21             | 0.81 | .032 | 14.2      | .561 | 13.6                        | .536 | 15.1                         | .596   | 1219 S  | M-58           | R-7                 | 1220 S  | M-58           | R-7-A               |        |
| 22                        | 0.71           | .028 | 14.4 | .569      | 13.6 | .536                        | 15.1 | .596                         | 1219 S | M-58  | R-7            | 1220 S              | M-58  | R-7-A          |                     |        |
| (19.05)                   | 10             | 3.40 | .134 | 12.2      | .482 | 11.9                        | .471 | 13.6                         | .536   | 1211  | M-55           | R-5                 | 1212  | M-55           | R-5-A               |        |
|                           | 11             | 3.04 | .120 | 12.9      | .510 | 12.6                        | .499 | 14.3                         | .564   | 1215  | M-56           | R-6                 | 1216  | M-56           | R-6-A               |        |
|                           | 12             | 2.76 | .109 | 13.5      | .532 | 13.2                        | .522 | 14.7                         | .582   | 1219  | M-56           | R-7                 | 1220  | M-56           | R-7-A               |        |
|                           | 13             | 2.41 | .095 | 14.2      | .560 | 13.9                        | .550 | 15.6                         | .615   | 1221  | M-58           | R-8                 | 1222  | M-58           | R-8-A               |        |
|                           | 14             | 2.10 | .083 | 14.8      | .584 | 14.5                        | .574 | 16.2                         | .639   | 1223  | M-58           | R-9                 | 1224  | M-58           | R-9-A               |        |
|                           | 15             | 1.82 | .072 | 15.3      | .606 | 15.1                        | .596 | 16.7                         | .661   | 1225  | M-58           | R-10                | 1226  | M-58           | R-10-A              |        |
|                           | 16             | 1.65 | .065 | 15.7      | .620 | 15.3                        | .605 | 17.4                         | .685   | 1227  | M-59           | R-10                | 1228  | M-59           | R-10-A              |        |
|                           | 3/4            | 17   | 1.47 | .058      | 16.1 | .634                        | 15.7 | .619                         | 17.7   | .699  | 1229           | M-59                | R-11  | 1230           | M-59                | R-11-A |
|                           | 18             | 1.24 | .049 | 16.5      | .652 | 15.7                        | .619 | 17.7                         | .699   | 1229  | M-59           | R-11                | 1230  | M-59           | R-11-A              |        |
|                           | 19             | 1.06 | .042 | 16.9      | .666 | 16.3                        | .642 | 18.3                         | .722   | 1231  | M-59           | R-12                | 1232  | M-59           | R-12-A              |        |
| (22.22)                   | 20             | 0.88 | .035 | 17.2      | .680 | 16.3                        | .642 | 18.3                         | .722   | 1231  | M-59           | R-12                | 1232  | M-59           | R-12-A              |        |
|                           | 21             | 0.81 | .032 | 17.4      | .686 | 16.3                        | .642 | 18.3                         | .722   | 1231  | M-59           | R-12                | 1232  | M-59           | R-12-A              |        |
|                           | 22             | 0.71 | .028 | 17.6      | .694 | 16.3                        | .642 | 18.3                         | .722   | 1231  | M-59           | R-12                | 1232  | M-59           | R-12-A              |        |
|                           | 10             | 3.40 | .134 | 15.4      | .607 | 15.1                        | .596 | 16.7                         | .661   | 1225  | M-58           | R-10                | 1226  | M-58           | R-10-A              |        |
|                           | 11             | 3.04 | .120 | 16.1      | .635 | 15.7                        | .619 | 17.7                         | .699   | 1229  | M-59           | R-11                | 1230  | M-59           | R-11-A              |        |
|                           | 12             | 2.76 | .109 | 16.6      | .657 | 16.3                        | .642 | 18.3                         | .722   | 1231  | M-59           | R-12                | 1232  | M-59           | R-12-A              |        |
|                           | 7/8            | 13   | 2.41 | .095      | 17.4 | .685                        | 17.0 | .670                         | 19.0   | .750  | 1233           | M-60                | R-13  | 1234           | M-60                | R-13-A |
|                           | 14             | 2.10 | .083 | 18.0      | .709 | 17.4                        | .685 | 19.6                         | .774   | 1235  | M-61           | R-14                | 1236  | M-61           | R-14-A              |        |
|                           | 15             | 1.82 | .072 | 18.5      | .731 | 18.0                        | .712 | 20.3                         | .801   | 1237  | M-61           | R-15                | 1238  | M-61           | R-15-A              |        |
|                           | 16             | 1.65 | .065 | 18.9      | .745 | 18.4                        | .726 | 20.7                         | .815   | 1239  | M-62           | R-15                | 1240  | M-62           | R-15-A              |        |
| 17                        | 1.47           | .058 | 19.2 | .759      | 18.8 | .740                        | 21.0 | .829                         | 1243   | M-62  | R-16           | 1244                | M-62  | R-16-A         |                     |        |
| 18                        | 1.24           | .049 | 19.7 | .777      | 18.8 | .740                        | 21.0 | .829                         | 1243   | M-62  | R-16           | 1244                | M-62  | R-16-A         |                     |        |

Model 1197-1256 expanders come with 3/8" square mandrel drives and Model 1257-1300 expanders come with 1/2" square mandrel drives.

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1200 SERIES LONG REACH

| Tube O.D.<br>(mm)<br>inch | Tube Thickness |      |      | Tube I.D. |       | Minimum I.D. Tool Enters |       | Maximum Expansion of Tool |       | EXPANDER with (38.10 mm) 1.1/2" Long Rollers |             |                  | EXPANDER with (57.15 mm) 2.1/4" Long Rollers |             |                  |
|---------------------------|----------------|------|------|-----------|-------|--------------------------|-------|---------------------------|-------|--|-------------|------------------|--|-------------|------------------|
|                           | bwg            | mm   | inch | mm        | inch  | mm                       | inch  | mm                        | inch  | Complete Tool No.                            | Mandrel No. | Rollers Set. No. | Complete Tool No.                            | Mandrel No. | Rollers Set. No. |
| 1<br>(25.40)              | 8              | 4.19 | .165 | 17.0      | .670  | 16.6                     | .655  | 18.6                      | .735  | 1241   | M-59        | R-13             | 1242   | M-59        | R-13-A           |
|                           | 9              | 3.75 | .148 | 17.8      | .704  | 17.4                     | .685  | 19.6                      | .774  | 1235   | M-61        | R-14             | 1236   | M-61        | R-14-A           |
|                           | 10             | 3.40 | .134 | 18.5      | .732  | 18.0                     | .712  | 20.3                      | .801  | 1237   | M-61        | R-15             | 1238   | M-61        | R-15-A           |
|                           | 11             | 3.04 | .120 | 19.3      | .760  | 18.8                     | .740  | 21.0                      | .829  | 1243   | M-62        | R-16             | 1244   | M-62        | R-16-A           |
|                           | 12             | 2.76 | .109 | 19.8      | .782  | 19.3                     | .763  | 21.6                      | .852  | 1245   | M-62        | R-17             | 1246   | M-62        | R-17-A           |
|                           | 13             | 2.41 | .095 | 20.5      | .810  | 20.0                     | .791  | 22.3                      | .880  | 1247   | M-62        | R-18             | 1248   | M-62        | R-18-A           |
|                           | 14             | 2.10 | .083 | 21.1      | .834  | 20.5                     | .810  | 23.0                      | .909  | 1249   | M-63        | R-18             | 1250   | M-63        | R-18-A           |
|                           | 15             | 1.82 | .072 | 21.7      | .856  | 21.2                     | .837  | 23.7                      | .936  | 1251   | M-63        | R-19             | 1252   | M-63        | R-19-A           |
|                           | 16             | 1.65 | .065 | 22.1      | .870  | 21.2                     | .837  | 23.7                      | .936  | 1251   | M-63        | R-19             | 1252   | M-63        | R-19-A           |
|                           | 17             | 1.47 | .058 | 22.4      | .884  | 21.9                     | .865  | 24.4                      | .964  | 1255   | M-63        | R-21             | 1256   | M-63        | R-21-A           |
|                           | 18             | 1.24 | .049 | 22.9      | .902  | 21.9                     | .865  | 24.4                      | .964  | 1255   | M-63        | R-21             | 1256   | M-63        | R-21-A           |
| 19                        | 1.06           | .042 | 23.2 | .916      | 21.9  | .865                     | 24.4  | .964                      | 1255  | M-63   | R-21        | 1256             | M-63   | R-21-A      |                  |
| 20                        | 0.88           | .035 | 23.6 | .930      | 21.9  | .865                     | 24.4  | .964                      | 1255  | M-63   | R-21        | 1256             | M-63   | R-21-A      |                  |
| 1.1/8<br>(28.58)          | 8              | 4.19 | .165 | 20.1      | .795  | 19.7                     | .776  | 22.2                      | .875  | 1253   | M-63        | R-20             | 1254   | M-63        | R-20-A           |
|                           | 9              | 3.75 | .148 | 21.0      | .829  | 20.5                     | .810  | 23.0                      | .909  | 1249   | M-63        | R-18             | 1250   | M-63        | R-18-A           |
|                           | 10             | 3.40 | .134 | 21.7      | .857  | 21.2                     | .837  | 23.7                      | .936  | 1251   | M-63        | R-19             | 1252   | M-63        | R-19-A           |
|                           | 11             | 3.04 | .120 | 22.4      | .885  | 21.9                     | .865  | 24.4                      | .964  | 1255   | M-63        | R-21             | 1256   | M-63        | R-21-A           |
|                           | 12             | 2.76 | .109 | 23.0      | .907  | 22.4                     | .883  | 24.9                      | .982  | 1257   | M-64        | R-21             | 1258   | M-64        | R-21-A           |
|                           | 13             | 2.41 | .095 | 23.7      | .935  | 23.2                     | .916  | 25.7                      | 1.015 | 1259   | M-64        | R-22             | 1260   | M-64        | R-22-A           |
|                           | 14             | 2.10 | .083 | 24.3      | .959  | 23.7                     | .935  | 26.5                      | 1.044 | 1261   | M-65        | R-23             | 1262   | M-65        | R-23-A           |
|                           | 15             | 1.82 | .072 | 24.9      | .981  | 24.4                     | .962  | 27.2                      | 1.071 | 1263   | M-65        | R-24             | 1264   | M-65        | R-24-A           |
|                           | 16             | 1.65 | .065 | 25.2      | .995  | 24.4                     | .962  | 27.2                      | 1.071 | 1263   | M-65        | R-24             | 1264   | M-65        | R-24-A           |
| 17                        | 1.47           | .058 | 25.6 | 1.010     | 25.1  | .990                     | 27.9  | 1.099                     | 1267  | M-66   | R-26        | 1268             | M-66   | R-26-A      |                  |
| 18                        | 1.24           | .049 | 26.0 | 1.027     | 25.1  | .990                     | 27.9  | 1.099                     | 1267  | M-66   | R-26        | 1268             | M-66   | R-26-A      |                  |
| 1.1/4<br>(31.75)          | 8              | 4.19 | .165 | 23.3      | .920  | 22.8                     | .901  | 25.6                      | 1.010 | 1265   | M-65        | R-25             | 1266   | M-65        | R-25-A           |
|                           | 9              | 3.75 | .148 | 24.2      | .954  | 23.7                     | .935  | 26.5                      | 1.044 | 1261   | M-65        | R-23             | 1262   | M-65        | R-23-A           |
|                           | 10             | 3.40 | .134 | 24.9      | .982  | 24.4                     | .962  | 27.2                      | 1.071 | 1263   | M-65        | R-24             | 1264   | M-65        | R-24-A           |
|                           | 11             | 3.04 | .120 | 25.6      | 1.010 | 25.1                     | .990  | 27.9                      | 1.099 | 1267   | M-66        | R-26             | 1268   | M-66        | R-26-A           |
|                           | 12             | 2.76 | .109 | 26.2      | 1.032 | 25.7                     | 1.013 | 28.5                      | 1.122 | 1269   | M-66        | R-27             | 1270   | M-66        | R-27-A           |
|                           | 13             | 2.41 | .095 | 26.9      | 1.060 | 26.4                     | 1.039 | 29.2                      | 1.150 | 1271   | M-67        | R-28             | 1272   | M-67        | R-28-A           |
|                           | 14             | 2.10 | .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 | .072 | 28.0      | 1.106 | 27.6                     | 1.087 | 30.3                      | 1.196 | 1275   | M-67        | R-30             | 1276   | M-67        | R-30-A           |
|                           | 16             | 1.65 | .065 | 28.4      | 1.120 | 27.6                     | 1.087 | 30.3                      | 1.196 | 1275   | M-67        | R-30             | 1276   | M-67        | R-30-A           |
|                           | 17             | 1.47 | .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           | .049 | 29.2 | 1.152     | 28.3  | 1.115                    | 31.0  | 1.224                     | 1279  | M-68   | R-30        | 1280             | M-68   | R-30-A      |                  |
| 1.3/8<br>(34.92)          | 8              | 4.19 | .165 | 26.5      | 1.045 | 26.0                     | 1.026 | 28.8                      | 1.135 | 1277   | M-67        | R-31             | 1278   | M-67        | R-31-A           |
|                           | 9              | 3.75 | .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 | .134 | 28.1      | 1.107 | 27.6                     | 1.087 | 30.3                      | 1.196 | 1275   | M-67        | R-30             | 1276   | M-67        | R-30-A           |
|                           | 11             | 3.04 | .120 | 28.8      | 1.135 | 28.3                     | 1.115 | 31.0                      | 1.224 | 1279   | M-68        | R-30             | 1280   | M-68        | R-30-A           |
|                           | 12             | 2.76 | .109 | 29.3      | 1.157 | 28.7                     | 1.133 | 31.5                      | 1.242 | 1281   | M-68        | R-32             | 1282   | M-68        | R-32-A           |
|                           | 13             | 2.41 | .095 | 30.1      | 1.185 | 29.4                     | 1.160 | 32.3                      | 1.275 | 1283   | M-69        | R-33             | 1284   | M-69        | R-33-A           |
|                           | 14             | 2.10 | .083 | 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 | .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           | .065 | 31.6 | 1.245     | 30.6  | 1.206                    | 33.5  | 1.321                     | 1287  | M-70   | R-35        | 1288             | M-70   | R-35-A      |                  |
| 1.1/2<br>(38.10)          | 8              | 4.19 | .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              | 3.75 | .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 | .134 | 31.2      | 1.232 | 30.6                     | 1.206 | 33.5                      | 1.321 | 1287   | M-70        | R-35             | 1288   | M-70        | R-35-A           |
|                           | 11             | 3.04 | .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 | .109 | 32.5      | 1.282 | 31.9                     | 1.257 | 34.8                      | 1.372 | 1293   | M-70        | R-37             | 1294   | M-70        | R-37-A           |
|                           | 13             | 2.41 | .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             | 2.10 | .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             | 1.82 | .072 | 34.4      | 1.356 | 33.8                     | 1.331 | 36.7                      | 1.446 | 1297   | M-71        | R-38             | 1298   | M-71        | R-38-A           |
|                           | 16             | 1.65 | .065 | 34.8      | 1.370 | 33.8                     | 1.331 | 36.7                      | 1.446 | 1297   | M-71        | R-38             | 1298   | M-71        | R-38-A           |
|                           | 17             | 1.47 | .058 | 35.1      | 1.384 | 33.8                     | 1.331 | 37.3                      | 1.472 | 1299   | M-72        | R-38             | 1300   | M-72        | R-38-A           |
|                           | 18             | 1.24 | .049 | 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 | .042 | 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           | .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 1197-1256 expanders come with 3/8" square mandrel drives and Model 1257-1300 expanders come with 1/2" square mandrel drives.