

Tab.3 Dimensional Range for tubes made in Workshop no. 3 Cold Rolling and Drawing

| WT | 1.6 | 1.8 | 2 | 2.3 | 2.6 | 2.9 | 3.2 | 3.6 | 4 | 4.5 | 5 | 5.6 | 6.3 | 7.1 | 8 | 8.8 | 10 | 11 | 12.5 | 14.2 | 16 | 17.5 | 19.5 | 20 | 22.2 | 25 | 28 | 30 | | |
|-------|--------------------|------|------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|--|
| OD | Length min-max (m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15,88 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | | | | | | | | | |
| 17,1 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | | | | | | | | |
| 19,05 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | | | | | | |
| 20 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | | | | |
| 21.3 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | | |
| 25 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | |
| 25.4 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | | |
| 26.9 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | | |
| 30 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | | |
| 31.8 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | |
| 33.7 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | | |
| 38 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | | | |
| 40 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-11.5 | 5-11.5 | | | | | | | | |
| 42.4 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-11 | 5-11 | 5-11 | 5-11 | 5-10 | 5-10 | 5-10 | 5-10 | | | | | | | | |
| 44.5 | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 48.3 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-9 | 5-10.5 | 5-11.5 | 5-11.5 | 5-11 | 5-10 | 5-10 | 5-10 | | | | | | | | |
| 51 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-8.5 | 5-10.5 | 5-11 | 5-11 | 5-10 | 5-10 | 5-9.5 | 5-10 | | | | | | | | |
| 54 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-9.5 | 5-10.5 | 5-11 | 5-11 | 5-10.5 | 5-10.5 | 5-9.5 | 5-10 | | | | | | | | |
| 57 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-9 | 5-9.5 | 5-10 | 5-10.5 | 5-10 | 5-10.5 | 5-9 | 5-9 | | | | | | | | |
| 60.3 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-8.5 | 5-8.5 | 5-8.5 | 5-12 | 5-12 | 5-12 | 5-12 | 5-8 | | | | | | | | |
| 63.5 | | | | | 5-10 | 5-10 | 5-10 | 5-12 | 5-11.5 | 5-12 | 5-11 | 5-10 | 5-10 | 5-8.5 | 5-8 | 5-9 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 70 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-8.5 | 5-8.5 | 5-9 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 73 | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-9.5 | 5-12 | 5-12 | 5-12 | 5-8 | 5-8 | 5-8.5 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 76.1 | | | | | 5-10 | 5-10 | 5-11.5 | 5-11 | 5-10.5 | 5-11 | 5-10 | 5-10 | 5-8 | 5-8 | 5-8.5 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 82.5 | | | | | | | | | | 5-11.2 | 5-11.2 | 5-9.5 | 5-10.5 | 5-10 | 5-10 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | | |
| 88.9 | | | | | | | | | | 5-11 | 5-11 | 5-9.5 | 5-10.5 | 5-9.5 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | |
| 95 | | | | | | | | | | 5-11 | 5-11 | 5-9.5 | 5-10.5 | 5-9.5 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | | | | | | | |
| 101.6 | | | | | | | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-11.8 | 5-11.6 | 5-11.6 | 5-11.5 | 5-11.5 | 5-11.4 | 5-11.2 | | | | | |
| 108 | | | | | | | | | | | | 5-11.2 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-11.8 | 5-11.7 | 5-11.6 | 5-11.4 | 5-11.4 | 5-11.2 | 5-11.2 | | | | | |
| 114.3 | | | | | | | | | | | | | 5-10.4 | 5-12 | 5-12 | 5-12 | 5-12 | 5-12 | 5-11.8 | 5-11.6 | 5-11.5 | 5-11.3 | 5-11.4 | 5-11.2 | 5-11.2 | 5-11 | | | | |
| 121 | | | | | | | | | | | | | | 5-12 | 5-12 | 5-12 | 5-12 | 5-11.8 | 5-11.5 | 5-11.3 | 5-11.3 | 5-11.2 | 5-11.2 | 5-11.2 | 5-11 | 7-11.2 | 7-11.4 | 7-11.4 | 7-11.4 | |
| 127 | | | | | | | | | | | | | | 5-12 | 5-12 | 5-12 | 5-11.9 | 5-11.6 | 6-11.5 | 6-11 | 6-10.8 | 6-10.5 | 6-10.2 | 6-10.3 | 7-11.1 | 7-11.1 | 7-11.1 | 7-11.1 | 7-11.1 | |
| 133 | | | | | | | | | | | | | | 5-11.9 | 5-11.9 | 5-12 | 5-11.7 | 5-11.5 | 5-11.3 | 5-10.9 | 6-10.5 | 6-10.2 | 6-10 | 6-10 | 7-10.8 | 7-10.8 | 7-10.8 | 7-10.8 | 7-10.8 | |
| 139.7 | | | | | | | | | | | | | | 8-12 | 8-12 | 8-12 | 8-12 | 7.5-11.8 | 7.4-11.7 | 7.5-11.2 | 7-11 | 6.5-10.1 | 6-10.1 | 6.5-10 | 6-10 | 6.4-9.4 | 6.5-9.5 | 6-9.2 | 6-9 | |
| 146 | | | | | | | | | | | | | | 7.8-12 | 8-12 | 8-12 | 8-12 | 7.5-12 | 7.5-11.7 | 7.3-11.3 | 7-10.9 | 7-10.9 | 7-10.9 | 7-10.8 | 7-10.3 | 6.3-10 | 6-9.6 | 6-9.3 | 6-9.3 | |
| 152.4 | | | | | | | | | | | | | | | 8-12 | 8-12 | 8-12 | 7.7-11.8 | 7.5-11.5 | 7.2-11 | 7-11 | 7-10.7 | 7-10.2 | 7-10.2 | 6.5-10 | 6.5-9.5 | 6-9.2 | 6-9.1 | 6-9.1 | |
| 159 | | | | | | | | | | | | | | | | | 9-12 | 8.3-12 | 8.3-12 | 8-12 | 8-12 | 7.5-11.5 | 7.2-11.4 | 7.2-11.3 | 7-11 | 6.5-10.5 | 6.5-10.1 | 6.4-10 | 6.4-10 | |
| 160 | | | | | | | | | | | | | | | | | 9-12 | 8.3-12 | 8.3-12 | 8-12 | 8-12 | 7.5-11.5 | 7.2-11.4 | 7.2-11.3 | 7-11 | 6.8-10.6 | 6.5-10.2 | 6.5-9.8 | 6.2-9.7 | |
| 165.1 | | | | | | | | | | | | | | | | | 8-12 | 7.5-11.7 | 7.3-11.3 | 7-11 | 7-10.8 | 7-10.4 | 6.5-10 | 6.4-9.9 | 6.3-9.7 | 6-9.5 | 6-9.2 | 6-9 | 6-9 | |
| 168.3 | | | | | | | | | | | | | | | | | 9-12 | 8.7-12 | 8.5-12 | 8-12 | 7.5-11.8 | 7.5-11.3 | 7-10.8 | 7-10.8 | 7-10.5 | 6.5-10.1 | 6.5-9.8 | 6.2-9.5 | 6.2-9.5 | |
| 177.8 | | | | | | | | | | | | | | | | | 9-12 | 9-12 | 9-12 | 8.5-12 | 8.5-12 | 8-12 | 7.5-11.5 | 7.5-11.5 | 7.5-11.3 | 7.2-11 | 7-10.7 | 7-10.4 | 7-10.4 | |
| 193.7 | | | | | | | | | | | | | | | | | 9-12 | 9-12 | 9-12 | 8.5-12 | 8-12 | 7.5-11.5 | 7-11 | 7.11 | 6.8-10.6 | 6.5-10.2 | 6.5-9.8 | 6.2-9.7 | 6.2-9.7 | |
| 203 | | | | | | | | | | | | | | | | | 8.5-12 | 8.3-12 | 8-12 | 7.5-11.5 | 7-11 | 7-10.6 | 6.5-10.2 | 6.5-10.2 | 6.5-9.9 | 6-9.6 | 6-9.3 | 6-9.1 | 6-9.1 | |
| 210 | | | | | | | | | | | | | | | | | | | | | 6.5-10 | 6-9.6 | 6-9.2 | 6-9 | 6-9 | 6-8.8 | 5.5-8.5 | 5.5-8.4 | 5.5-8.3 | |
| 219.1 | | | | | | | | | | | | | | | | | | | | | | | | | 5.5-8.2 | 5.2-8 | 5.2-7.9 | 5-7.8 | 5-7.6 | |

MC1 Category - one cold drawing or one cold rollings

MC2 Category - two cold drawings

MC3 Category - two cold rollings