

Tabel 1 Cold Rolled Mechanical Tubes - Cold Rolling and Drawing - TMK-ARTROM

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																											
17,1	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	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																			
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																			
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																		
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	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	5-10	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													
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														
51					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	5-9.5	5-10														
54					5-12	5-12	5-12	5-12	5-12	5-12	5-12	5-12	5-12	5-9.5	5-9.5	5-8.5	5-11	5-10.5	5-9.5	5-9.5														
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	5-9	5-9														
60.3					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	5-8												
63.5					5-10	5-10	5-10	5-10	5-12	5-11.5	5-12	5-11	5-10	5-8.5	5-8	5-9	5-12	5-12	5-12	5-12	5-12													
70					5-12	5-12	5-12	5-12	5-12	5-12	5-10	5-12	5-12	5-8.5	5-8.5	5-9	5-12	5-12	5-12	5-12	5-12													
73					5-12	5-12	5-12	5-12	5-12	5-12	5-9.5	5-12	5-12	5-8	5-8	5-8.5	5-12	5-12	5-12	5-12	5-12													
76.1					5-10	5-10	5-10	5-10	5-11.5	5-11	5-10.5	5-11	5-10	5-8	5-8	5-8.5	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	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	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	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	5-12	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	5-12	5-11.8	5-11.6	5-11.5	5-11.3	5-11.4	5-11.2	5-11							
121														5-12	5-12	5-12	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	5-11.1	7-11.2	7-11.4	7-11.4	7-11.4			
127														5-12	5-12	5-12	5-12	5-11.9	5-11.9	5-12	5-11.9	5-11.5	5-11.5	5-11.3	5-11.3	5-11.2	6-10.3	7-11.1	7-11.1	7-11.1	7-11.1			
133														5-11.9	5-11.9	5-12	5-11.7	5-11.7	5-11.7	5-11.7	5-11.5	5-11.5	5-11.3	5-11.3	5-11.2	6-10.5	6-10.2	6-10	6-10	7-10.8	7-10.8	7-10.8	7-10.8	
139.7														8-12	8-12	8-12	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	6.4-9.4	6.5-9.5	6-9.2	6-9			
146														7.8-12	8-12	8-12	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			
152.4															8-12	8-12	8-12	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			
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		
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	6.5-10.5	6.5-10.1	6.4-10		
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			
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		
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		
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		
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		
210																																		
219.1																																		

MC1 Category - one cold drawing or one cold rollings

MC2 Category - two cold drawings

MC3 Category - two cold rollings