



STAINLESS STEEL ROUND BAR - Imperial
Manufactured to - ASTM A276

DIAMETER Inch	THEORETICAL WEIGHT kgs/m	FREE MACHINING			
		303	304	316	2205
1/8"	0.062	•	•**	•**	
3/16"	0.140	•	•**		
1/4"	0.250	•	•	•	
5/16"	0.390	•	•	•	
3/8"	0.562	•	•	•	
7/16"	0.764		•		
1/2"	0.998	•	•	•	
9/16"	1.265				
5/8"	1.562		•	•	
3/4"	2.246	•	•	•	
7/8"	3.065		•	•	
1"	3.988	•	•	•	
1 1/16"	4.500				
1 1/8"	5.029	•		•	
1 1/4"	6.209	•	•	•	
1 3/8"	7.469				
1 1/2"	8.939	•	•	•	
1 5/8"	10.491				
1 3/4"	12.168			•	
2"	15.892		•	•	
2 1/4"	20.115			•	
2 3/8"	22.422				
2 1/2"	24.833		•	•	
2 3/4"	30.048	•		•	
3"	35.758	•		•	

STAINLESS STEEL ROUND BAR - Metric
Manufactured to - ASTM A276

DIAMETER mm	THEORETICAL WEIGHT kgs/m	FREE MACHINING			
		303	304	316	2205
3	0.06		•**		
4	0.10		•**		
5	0.15		•	•	
6	0.24	•	•	•	
8	0.42	•	•	•	
10	0.62	•	•	•	
12	0.88	•	•	•	
16	1.58	•	•	•	
18	2.02			•	
20	2.47	•	•	•	
22	3.04			•	
25	3.85	•	•	•	
30	5.55	•	•	•	
35	7.55		•	•	
40	9.87		•	•	
45	12.50		•	•	
50	15.41		•	•	
60	22.20		•	•	
65	26.00		•	•	
70	30.10		•	•	
75	35.30		•	•	
80	40.86		•	•	
90	50.00		•	•	
95	53.00		•	•	
100	63.00		•		
110	77.00		•	•	
120	89.35		•	•	
130	101.85		•	•	
150	140.75		•	•	
160	150.95		•	•	
180	199.90			•	
200	244.00			•	



TABLE OF TOLERANCES

ISO H-J-K

H - Minus Tolerance

Example - #45 H9 = +0-0.062

J - Plus/Minus Tolerances

Example - #45 J9 = +0.031-0.031

K - Plus Tolerance

Example - #45 K9 = +0-0.064

Standard stock tolerance H9/H10

Dependent on diameter

DIAMETERS mm	H - TOLERANCES (mm)						
	7	8	9	10	11	12	13
> 1 to 3 inclusive	0.009	0.014	0.025	0.040	0.060	0.090	0.140
> 3 to 6 inclusive	0.012	0.018	0.030	0.048	0.075	0.120	0.180
> 6 to 10 inclusive	0.015	0.022	0.036	0.058	0.090	0.150	0.220
> 10 to 18 inclusive	0.018	0.027	0.043	0.070	0.110	0.180	0.270
> 18 to 30 inclusive	0.021	0.033	0.052	0.084	0.130	0.210	0.330
> 30 to 50 inclusive	0.025	0.039	0.062*	0.100	0.160	0.250	0.390
> 50 to 80 inclusive		0.046	0.074	0.120	0.190	0.300	0.460
> 80 to 120 inclusive			0.087	0.140	0.220	0.350	0.540
> 120 to 180 inclusive			0.100	0.160	0.250	0.400	0.630
> 180 to 250 inclusive			0.115	0.185	0.290	0.460	0.720
> 250 to 315					0.320	0.520	0.810
> 315 to 400					0.336	0.570	0.890
> 100 to 500					0.400	0.630	0.970
> 500					0.440	0.700	1.100