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QA Engineer



Technical Information

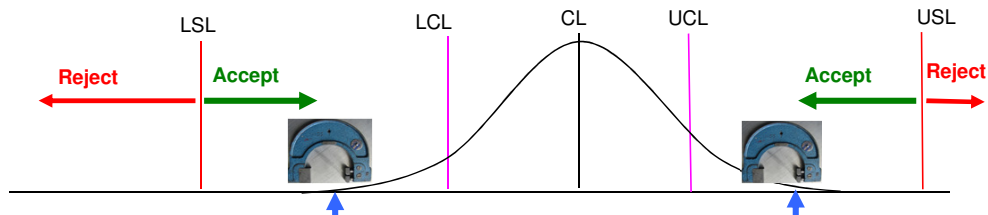
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NZTM-Q02:- Standard Tolerance applicable to tube manufactured by NZTM Tube Mills

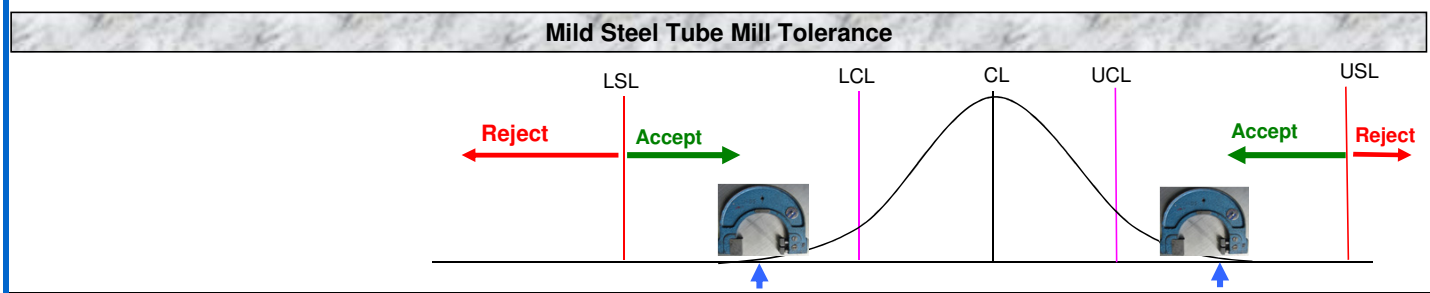
Stainless Steel Tube Mill Tolerance



Nominal Size (Inch)	Nominal Size (mm)	Actual Size (mm)	Mill Tolerance (mm)	Snap Gauge No	Lower Specs Limit (LSL) (mm)	Snap Gauge "NOGO" Limit1 (mm)	Lower Control Limit (LCL) (mm)	Chart Centre Line (CL) (mm)	Upper Control Limit (UCL) (mm)	Snap Gauge "GO" Limit2 (mm)	Upper Specs Limit (USL) (mm)
5/16 "	7.94	7.94	+/- 0.13	05 / 23	7.81	7.84	7.88	7.92	7.96	7.99	8.07
3/8 "	9.5	9.53	+/- 0.13	05 / 24	9.40	9.43	9.46	9.52	9.56	9.58	9.66
	12	12	+/- 0.13		11.87		11.96	12.00	12.04		12.13
1/2 "	12.7	12.7	+/- 0.13	05 / 63	12.57	12.60	12.66	12.68	12.72	12.75	12.83
37/64 "	14.7	14.7	+/- 0.13		14.55		14.68	14.71	14.74		14.81
	15	15	+/- 0.13		14.87		14.94	14.98	15.01		15.13
5/8 "	16	15.88	+/- 0.13	05 / 26	15.75	15.78	15.82	15.87	15.94	15.93	16.01
3/4 "	19.1	19.05	+/- 0.13	05 / 27	18.92	18.95	18.99	19.04	19.09	19.10	19.18
7/8 "	22.2	22.23	+/- 0.13	05 / 28	22.10	22.13	22.19	22.21	22.27	22.28	22.36
1 "	25.4	25.4	+/- 0.13	05 / 29	25.27	25.30	25.35	25.40	25.44	25.45	25.53
1 1/8 "	28.6	28.58	+/- 0.13	05 / 50	28.45	28.52	28.54	28.58	28.62	28.68	28.71
1 1/4 "	31.8	31.75	+/- 0.13	05 / 39	31.62	31.65	31.70	31.74	31.78	31.80	31.88
1 3/8 "	35	34.93	+/- 0.13		34.80	34.85	34.88	34.92	34.96	35.00	35.06
1 1/2 "	38.1	38.1	+/- 0.25	05 / 31	37.85	37.97	38.04	38.09	38.14	38.15	38.35
	42	42	+/- 0.25	05 / 43	41.75	41.87	41.94	41.98	42.02	42.05	42.25
	42.7	42.7	+/- 0.25		42.45		42.66	42.70	42.74		42.95
1 3/4 "	44.5	44.45	+/- 0.25	05 / 32	44.20	44.32	44.41	44.45	44.49	44.50	44.70
1 7/8 "	47.6	47.63	+/- 0.25	05 / 33	47.38	47.49	47.57	47.61	47.65	47.67	47.88
1 15/16"	48.6	48.59	+/- 0.25		48.34		48.56	48.60	48.64		48.84
2 "	51	50.8	+/- 0.25	05 / 38	50.55	50.67	50.75	50.80	50.82	50.85	51.05
2 1/8 "	54	53.98	+/- 0.25	05 / 42	53.73	53.83	53.88	53.92	53.98	54.03	54.23
2 1/4 "	57.2	57.15	+/- 0.25	05 / 36	56.90	57.00	57.06	57.10	57.14	57.20	57.40
2 3/8 "	60.3	60.33	+/- 0.25		60.08		60.28	60.32	60.38		60.58
2 1/2 "	63.5	63.5	+/- 0.25	05 / 34	63.25	63.35	63.42	63.46	63.54	63.55	63.75
3 "	76.2	76.2	+/- 0.25	05 / 61	75.95	76.00	76.15	76.20	76.26	76.40	76.45
3 1/2 "	88.9	88.9	+/- 0.25		88.65		88.82	88.88	88.93		89.15
4 "	101.6	101.6	+/- 0.38	05 / 60	101.22	101.40	101.52	101.60	101.68	101.80	101.98
5 "	127	127.0	+/- 0.38	05 / 64	126.62	126.80	126.92	127.00	127.08	127.20	127.38
6 "	152.4	152.4	+/- 0.76	05 / 45	151.64	151.80	151.80	152.40	153.00	153.00	153.16

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NZTM-Q02:- Standard Tolerance applicable to tube manufactured by NZTM Tube Mills



Nominal Size (Inch)	Nominal Size (mm)	Actual Size (mm)	Mill Tolerance (mm)	Snap Gauge No	Lower Specs Limit (LSL) (mm)	Snap Gauge "NOGO" Limit1 (mm)	Lower Control Limit (LCL) (mm)	Chart Centre Line (CL) (mm)	Upper Control Limit (UCL) (mm)	Snap Gauge "GO" Limit2 (mm)	Upper Specs Limit (USL) (mm)
3/8 "	9.5	9.53	+/- 0.12	05 / 06	9.41	9.43	9.48	9.53	9.62	9.63	9.65
7/16 "	11.1	11.11	+/- 0.12	05 / 41	10.99	11.01	11.06	11.11	11.16	11.21	11.23
1/2 "	12.7	12.70	+/- 0.12	05 / 07	12.58	12.60	12.65	12.70	12.75	12.80	12.82
	14.3	14.30	+/- 0.12	05 / 40	14.18	14.20	14.24	14.30	14.36	14.40	14.42
5/8 "	16.0	15.88	+/- 0.12	05 / 08	15.76	15.78	15.83	15.88	15.93	15.98	16.00
3/4 "	19.0	19.05	+/- 0.15	05 / 09	18.90	18.95	19.01	19.05	19.09	19.15	19.20
7/8 "	22.2	22.23	+/- 0.15	05 / 10	22.08	22.12	22.17	22.22	22.27	22.32	22.38
1 "	25.4	25.40	+/- 0.15	05 / 11	25.25	25.30	25.34	25.40	25.46	25.50	25.55
1 1/8 "	28.6	28.58	+/- 0.15	05 / 12	28.43	28.48	28.52	28.58	28.64	28.68	28.73
1 1/4 "	31.8	31.75	+/- 0.20	05 / 14	31.55	31.60	31.68	31.75	31.82	31.90	31.95
1 3/8 "	35.0	34.93	+/- 0.20		34.73	34.77	34.85	34.92	34.99	35.07	35.13
1 1/2 "	38.0	38.10	+/- 0.20	05 / 47	37.90	37.95	38.04	38.10	38.16	38.25	38.30
1 5/8 "	41.3	41.28	+/- 0.20	05 / 05	41.08	41.13	41.22	41.28	41.34	41.43	41.48
1 3/4 "	44.5	44.45	+/- 0.20	05 / 04	44.25	44.30	44.38	44.45	44.52	44.60	44.65
1 7/8 "	47.6	47.63	+/- 0.20	05 / 17	47.43	47.47	47.56	47.62	47.68	47.77	47.83
2 "	51.0	50.80	+/- 0.25	05 / 18	50.55	50.60	50.72	50.80	50.88	51.00	51.05
2 1/8 "	54.0	53.98	+/- 0.25	05 / 19	53.73	53.78	53.90	53.98	54.06	54.18	54.23
2 1/4 "	57.2	57.15	+/- 0.25	05 / 44	56.90	56.95	57.08	57.15	57.22	57.35	57.40
2 3/8 "	60.3	60.33	+/- 0.25	05 / 21	60.08	60.12	60.22	60.32	60.42	60.52	60.58
2 1/2 "	63.5	63.50	+/- 0.25	05 / 22	63.25	63.30	63.41	63.50	63.59	63.70	63.75
2 3/4 "	70.0	69.85	+/- 0.25	05 / 37	69.60	69.65	69.76	69.85	69.94	70.05	70.10
3 "	76.2	76.20	+/- 0.30	05 / 01	75.90	76.00	76.11	76.20	76.29	76.40	76.50
3 1/2 "	88.9	88.90	+/- 0.30	05 / 02	88.60	88.75	88.80	88.90	89.06	89.10	89.20
4 "	101.6	101.60	+/- 0.30	05 / 03	101.30	101.60	101.65	101.70	101.72	101.80	101.90

Mill No Tolerance

Tube Cutting length Tolerance	Mill 06 -0.0 / +2.0 mm for specific cut length. -0.0 / +10 mm for standard length.
	Mill 07 -0.0 / +10 mm for standard length.

Note: Upper tolerance may be changed for standard cut length depending on the circumstances
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