

Brass round bars Z33 (W5000)

updated on: february 2019

material	Wieland Z33 / CuZn39Pb3	availability	● Stock Wieland Metalix AG
standard	EN-Nr. CW614N / 12164		CH-4512 Bellach
length (mm)	3000 ± 30	○	Stock Wieland-Werke
Packaging	to Dimension 9.5 in Kisten / from Dim. 10 in Bunden		DE-89269 Vöhringen

Nenn ø [mm]	Features			state	mechanical properties			HB2,5	mass (kg/m)	avail- ability	Nenn ø [mm]
	ISO-Tolerance [mm]	end	eddy current test		Rm [MPa]	Rp0,2 [MPa]	A [%]				
1									0.007	●	1
1.2									0.010	●	1.2
1.3									0.011	●	1.3
1.4									0.013	●	1.4
1.5									0.015	●	1.5
1.6									0.017	●	1.6
1.7									0.019	●	1.7
1.8									0.022	●	1.8
1.9									0.024	●	1.9
2									0.027	●	2
2.1	+0 / -0.014								0.029	●	2.1
2.2									0.032	●	2.2
2.3									0.035	●	2.3
2.35									0.037	●	2.35
2.4									0.038	●	2.4
2.5									0.042	●	2.5
2.6									0.045	●	2.6
2.7									0.049	●	2.7
2.8									0.052	●	2.8
2.9									0.056	●	2.9
3									0.060	●	3
3.1									0.064	●	3.1
3.2									0.068	●	3.2
3.3									0.073	●	3.3
3.4									0.077	●	3.4
3.5									0.082	●	3.5
3.6	+0 / -0.018								0.087	●	3.6
3.7									0.091	●	3.7
3.8									0.096	●	3.8
3.9									0.102	●	3.9
4									0.107	●	4
4.2									0.118	●	4.2
4.3									0.123	●	4.3
4.4									0.129	●	4.4
4.5									0.135	●	4.5
4.6									0.141	●	4.6
4.7									0.147	●	4.7

* also available in thermally relaxed version from stock (for watch parts).

Nenn ø [mm]	Features		eddy current test	state	mechanical properties			HB2,5	mass (kg/m)	avail- ability	Nenn ø [mm]
ISO-Tolerance [mm]	end				Rm [MPa]	Rp0,2 [MPa]	A [%]				
31	h9	+0 / -0.062	chamfer 0.2 - 4.0 top 7.5 - 11.0	standard to DKI- Check Sheet 791	R430	≥ 430	ca. 250	ca. 120	6.432	●	31
32 *									6.840	●	32 *
33									7.276	●	33
34 *									7.716	●	34 *
35 *									8.188	●	35 *
36 *									8.652	●	36 *
37	h9	+0 / -0.100	chamfer 0.2 - 4.0 top 10 - 12	on request	R360	≥ 360	ca. 150	ca. 90	9.152	●	37
38 *									9.640	●	38 *
39									10.156	●	39
40 *									10.688	●	40 *
41									11.222	●	41
42 *									11.780	●	42 *
43	h10	+0 / -0.160	chamfer 0.2 - 4.0 top serrated	on request	R430	≥ 10	ca. 250	ca. 120	12.344	●	43
44									12.920	●	44
45 *									13.520	●	45 *
46									14.130	●	46
48 *									15.380	●	48 *
49									16.029	●	49
50 *	h11	+0 / -0.190	chamfer 0.2 - 4.0 top serrated	on request	M	≥ 20	ca. 150	ca. 90	16.680	●	50 *
51									17.364	●	51
52									18.050	●	52
54									19.467	●	54
55									20.180	●	55
56									20.940	●	56
58	serrated	+0 / -0.190	chamfer 0.2 - 4.0 top serrated	on request	M	≥ 20	ca. 150	ca. 90	22.460	●	58
60									24.030	●	60
65									28.210	●	65
70									32.710	●	70
75									37.552	●	75
80									42.726	●	80

* also available in thermally relaxed version from stock (for watch parts).

Further dimensions and alloys on request

The Wieland Precision Rods W5000 in overview

W5000 S

The W5000 S. is the precision pole in the dimension area of 1 to 10 mm. She considers the demands in speeds more than 10,000 revos and the special signs for the treatment on long automatic lathes. Diameter tolerance h8 is limited within an alliance to 5 around and the unroundness on 0. 05%. Of diameter (4 - 10 mm), i. e. for a pole with 4 mm of diameter the unroundness only max. 2 amounts around. The W5000 S. if we deliver diamond-pulled with an improved, evenly bright and shining surface.

W5000 M

The W5000 M is the classical precision pole in the dimension area more than 10 to 50 mm. She considers in to special measure the demands for the treatment on Mehrspindelautomaten by a high same moderation within a lot. To diameter of 30 mm we deliver the W5000 M with tolerance h8. The allowed one We have limited directness divergence to max. 0. 5 mm / m.

W5000 L

The W5000 L is the "big" precision pole in the dimension area more than 50 to 80 mm. She allows an undisturbed one Treatment with big rotary masses and also reaches a directness from 0. 5 mm / m

This datasheet is for information only and does not represent a change to service. Apart from intent or gross negligence, we assume no liability for its accuracy. Product features are not guaranteed.