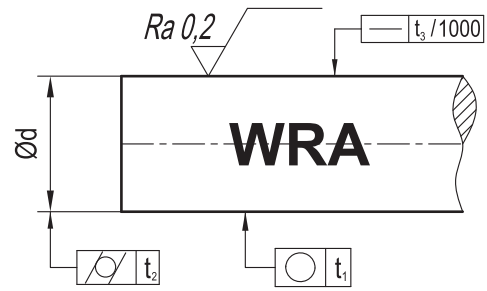


## STEEL GRADE X90CrMoV18 (W1.4112)



Shaft Diameter d	Weight per metre	Shaft part number	Standard length	Hardening depth Rht DIN 50190 (max)	Standard tolerance ISO h6	Roundness (circular) t1	Parallelism (cylindric) t2	Straightness t3
mm	kg		mm	mm	µm	µm	µm	mm/m
5	0.16	WRA 5	5000	0.5 - 0.8	0/-8	4	5	0.16
6	0.23	WRA 6	6000	0.5 - 0.8	0/-8	4	6	0.16
8	0.40	WRA 8	6000	0.6 - 0.9	0/-9	4	6	0.16
10	0.62	WRA 10	6000	0.7 - 1.0	0/-9	4	6	0.16
12	0.89	WRA 12	6000	0.8 - 1.2	0/-11	5	8	0.12
14	1.21	WRA 14	6000	0.9 - 1.3	0/-11	5	8	0.12
15	1.39	WRA 15	6000	1.1 - 1.5	0/-11	5	8	0.12
16	1.58	WRA 16	6000	1.1 - 1.5	0/-11	5	8	0.12
20	2.47	WRA 20	6000	1.2 - 1.6	0/-13	6	9	0.1
25	3.85	WRA 25	6000	1.5 - 1.7	0/-13	6	9	0.1
30	5.55	WRA 30	6000	1.5 - 1.9	0/-13	6	9	0.1
40	9.87	WRA 40	6000	2.5 - 3.0	0/-16	7	11	0.1
50	15.40	WRA 50	6000	2.7 - 3.2	0/-16	7	11	0.1
60	22.20	WRA 60	6000	2.9 - 3.3	0/-19	8	13	0.1

By request we can supply shaft diameters in no listed dimensions with special lengths and tolerances.

Length tolerance: 0/+200 mm

Surface hardness: min. 56±3 HRC

NB: because of the centerless grinding process used for random length shafts, the outmost 100mm of both shaft ends are not guaranteed to be either in diameter tolerance or induction hardened to the standard hardness values