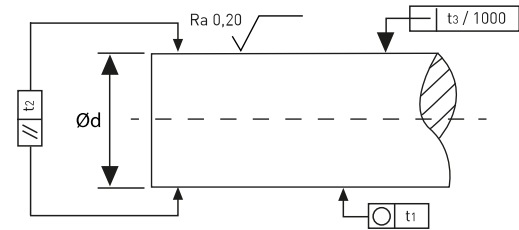


WRA

Precision shafts

Induction hardened stainless steel shafts
Series: WRA (X90 Cr Mo V18 / W 1.4112)



Shaft designation	Shaft diameter d	Standard length	Hardening depth Rht DIN 50190	Standard tolerance ISO h6	Roundness	Parallelism	Straightness	Weight
Type	mm	mm	mm	μm	μm t_1	μm t_2	mm/m t_3	Kg/m
WRA-5	5	2100	0.5 - 0.8	0 - 8	4	5	0.16	0.16
WRA-6	6	3200	0.5 - 0.8	0 - 8	4	6	0.16	0.23
WRA-8	8	6000	0.6 - 0.9	0 - 9	4	6	0.16	0.4
WRA-10	10	6000	0.7 - 1.0	0 - 9	4	6	0.16	0.62
WRA-12	12	6000	0.8 - 1.2	0 - 11	5	8	0.12	0.89
WRA-14	14	6000	0.9 - 1.3	0 - 11	5	8	0.12	1.21
WRA-15	15	6000	1.1 - 1.5	0 - 11	5	8	0.12	1.39
WRA-16	16	6000	1.1 - 1.5	0 - 11	5	8	0.12	1.58
WRA-20	20	6000	1.2 - 1.6	0 - 13	6	9	0.12	2.47
WRA-25	25	6000	1.5 - 1.7	0 - 13	6	9	0.1	3.85
WRA-30	30	6000	1.5 - 1.9	0 - 13	6	9	0.1	5.55
WRA-40	40	3000	2.5 - 3.0	0 - 16	7	11	0.1	9.87
WRA-50	50	3000	2.7 - 3.2	0 - 16	7	11	0.1	15.4
WRA-60	60	3000	2.9 - 3.3	0 - 19	8	13	0.1	22.2

- Special tolerances and diameters are available upon request.
- Length tolerance: +200 / -0 mm.
- Surface hardness: 55 HRC min.