Ordering example, ordering designation

Solid shaft, without machining	Type	W
	Shaft diameter d_{LW}	20
	Tolerance	h6
	Material	Cf53
	Coating	–
	Length	1 200
	Parting cut	–
	Standard chamfer	No suffix
Ordering designation	**W20/h6-Cf53-1 200**	
Hollow shaft, without machining	Type	WH
	Shaft diameter d_{LW}	20
	Tolerance	h7
	Material	C60
	Coating	–
	Length	1 500
	Parting cut	T
	Standard chamfer	–
Ordering designation	**WH20/h7-C60-1 500-T**	
Solid shaft, with machining	Type	W
	Shaft diameter d_{LW}	30
	Tolerance	h7
	Material	Cf53
	Coating	Cr
	Hole pattern	B05
	Axial threaded hole	M12
	Radial threaded hole	M10
	Hole pitch, radial threaded hole	100
	Length	1 110
	Parting cut	T
	Standard chamfer	–
	Distance a_L	60
	Distance a_R	50
Ordering designation	**W30/h7-Cf53-Cr-B05/M12-M10×100-1110-T-60-50**	

Solid shaft, according to customer requirements

If the standard designations are not sufficient to describe the shaft, please submit a drawing with your enquiry.

Possible ordering designation for standard shafts

Type	W, WH
Shaft diameter d_{LW}	10 to 80
Tolerance[1)]	h6, h7
Material[2)]	Cf53, X46, X90
Coating	Cr, RROC
Hole pattern	B01, B02, B03, B04, B05
Axial threaded hole[3)]	M3 to M24
Radial threaded hole[3)]	M4 to M14
Hole pitch, radial threaded hole j_L	Measured from centre point of hole, *Figure 21*
Length[3)]	Single piece up to 6 000
Parting cut	T
Standard chamfer	No suffix
Distance a_L	Start of shaft – first hole, *Figure 21*
Distance a_R	Last hole – end of shaft, *Figure 21*

1) Available tolerances are dependent on diameter, see dimension table page 124 and page 126.

2) Hollow shafts are only available in Cf53 and C60.

3) Dependent on diameter, see dimension table page 124 to page 126.

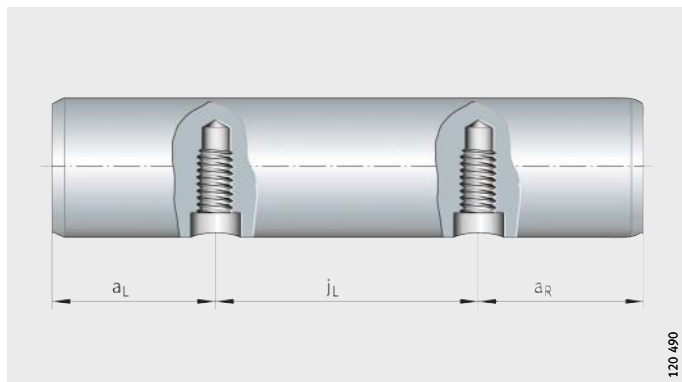
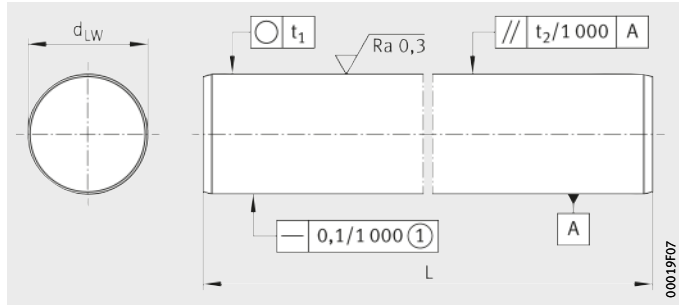


Figure 21
Hole pitch of radial threaded hole j_L

Solid shafts



W
① [3]

Dimension table · Dimensions in mm

Designation	Mass	Dimensions		Tolerance	Roundness	Parallelism	Surface hardening depth
	m	d_{LW}	L	h6	t_1	t_2[1]	SHD[2]
	≈kg/m			µm	µm	µm	min.
W04	0,1	**4**	2 500	$^{0}_{-8}$	4	5	0,4
W05	0,15	**5**	4 000	$^{0}_{-8}$	4	5	0,4
W06	0,22	**6**	4 000	$^{0}_{-8}$	4	5	0,4
W08	0,39	**8**	4 000	$^{0}_{-9}$	4	6	0,4
W10	0,62	**10**	6 000	$^{0}_{-9}$	4	6	0,4
W12	0,89	**12**	6 000	$^{0}_{-11}$	5	8	0,6
W14	1,21	**14**	6 000	$^{0}_{-11}$	5	8	0,6
W15	1,39	**15**	6 000	$^{0}_{-11}$	5	8	0,6
W16	1,58	**16**	6 000	$^{0}_{-11}$	5	8	0,6
W20	2,47	**20**	6 000	$^{0}_{-13}$	6	9	0,9
W25	3,85	**25**	6 000	$^{0}_{-13}$	6	9	0,9
W30	5,55	**30**	6 000	$^{0}_{-13}$	6	9	0,9
W40	9,87	**40**	6 000	$^{0}_{-16}$	7	11	1,5
W50	15,41	**50**	6 000	$^{0}_{-16}$	7	11	1,5
W60	22,2	**60**	6 000	$^{0}_{-19}$	8	13	2,2
W80	39,45	**80**	6 000	$^{0}_{-19}$	8	13	2,2

1) Differential diameter measurement.

2) To DIN ISO 13012.

3) ① For shaft length < 400 mm, max. straightness tolerance of 0,04 mm.