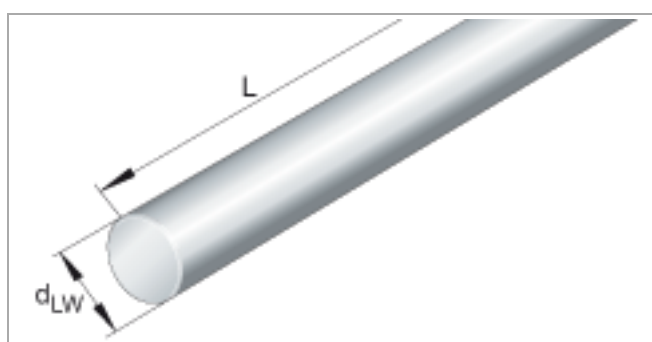




## Solid shafts W

solid shafts, without threaded holes, corrosion-resistant  
design possible

The datasheet is only an overview of dimensions and basic load ratings for the selected series. Please ensure that you note all the guidance in these overview pages. Further information is given on many products under the menu item "Description". You can also obtain comprehensive information material via Catalogue selection (<http://www.ina.de/content.ina.de/en/services/mediathek/library/library.jsp>), by e-mail ([kataloge@de.ina.com](mailto:kataloge@de.ina.com)) or telephone +49 (91 32) 82 - 28 97.



	d <sub>LW</sub> mm	L mm
W04	4	2500
W05	5	3600
W06	6	4000
W08	8	4000
W10	10	6000
W12	12	6000
W14	14	6000
W15	15	6000
W16	16	6000
W18	18	6000
W20	20	6000
W24	24	6000
W25	25	6000
W30	30	6000
W32	32	6000
W40	40	6000
	d <sub>LW</sub> mm	L mm



	dLw mm	L mm
W50	50	6000
W60	60	6000
W80	80	6000

	dLw mm	L mm
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Figure 1

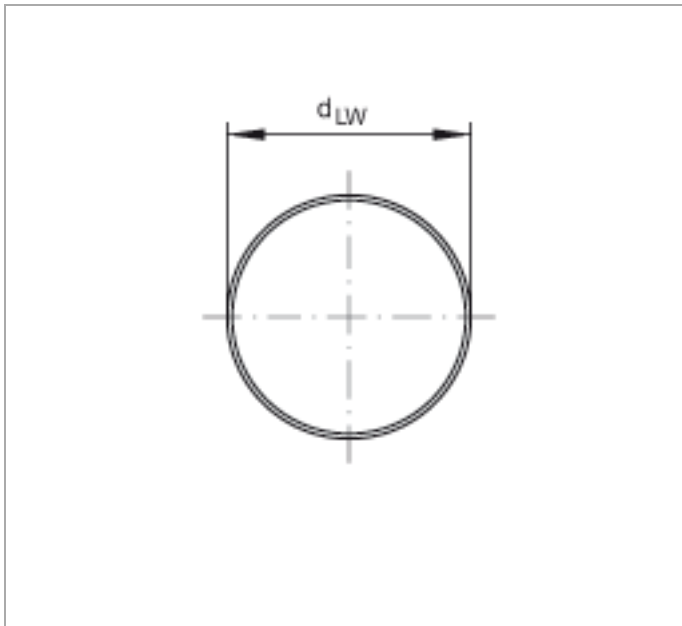
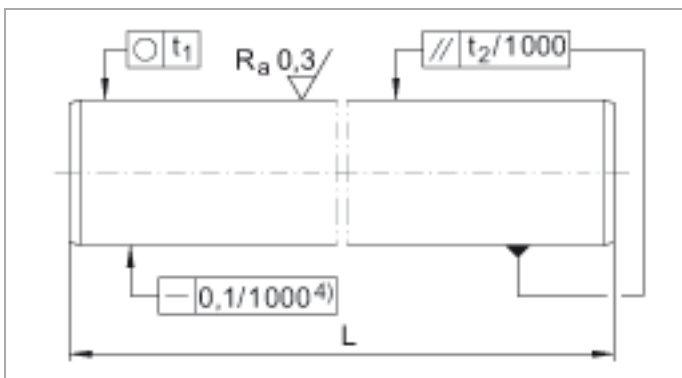


Figure 2



## W04

Figure 1 , Figure 2

dLW	4 mm	
L	2500 mm	
	0 / -8 $\mu$ m	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,4 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	4 $\mu$ m	Roundness
t <sub>2</sub>	5 $\mu$ m	Parallelism: Measured diameter deviation.
mw	0,1 kg/m	Mass of shaft

## W05

Figure 1 , Figure 2

dLW	5 mm	
L	3600 mm	
	0 / -8 $\mu$ m	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,4 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	4 $\mu$ m	Roundness
t <sub>2</sub>	5 $\mu$ m	Parallelism: Measured diameter deviation.
mw	0,15 kg/m	Mass of shaft

## W06

Figure 1 , Figure 2

d <sub>LW</sub>	6 mm	
L	4000 mm	
	0 / -8 μm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
R <sub>htmin</sub>	0,4 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	4 μm	Roundness
t <sub>2</sub>	5 μm	Parallelism: Measured diameter deviation.
m <sub>w</sub>	0,22 kg/m	Mass of shaft

## W08

Figure 1 , Figure 2

d <sub>LW</sub>	8 mm	
L	4000 mm	
	0 / -9 μm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
R <sub>htmin</sub>	0,4 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	4 μm	Roundness
t <sub>2</sub>	6 μm	Parallelism: Measured diameter deviation.
m <sub>w</sub>	0,39 kg/m	Mass of shaft

## W10

Figure 1 , Figure 2

d <sub>LW</sub>	10 mm	
L	6000 mm	
	0 / -9 μm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
R <sub>htmin</sub>	0,4 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	4 μm	Roundness
t <sub>2</sub>	6 μm	Parallelism: Measured diameter deviation.
mw	0,62 kg/m	Mass of shaft

## W12

Figure 1 , Figure 2

d <sub>LW</sub>	12 mm	
L	6000 mm	
	0 / -11 μm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
R <sub>htmin</sub>	0,6 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	5 μm	Roundness
t <sub>2</sub>	8 μm	Parallelism: Measured diameter deviation.
mw	0,89 kg/m	Mass of shaft

## W14

Figure 1 , Figure 2

d <sub>LW</sub>	14 mm	
L	6000 mm	
	0 / -11 μm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
R <sub>ht</sub> min	0,6 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	5 μm	Roundness
t <sub>2</sub>	8 μm	Parallelism: Measured diameter deviation.
mw	1,21 kg/m	Mass of shaft

## W15

Figure 1 , Figure 2

d <sub>LW</sub>	15 mm	
L	6000 mm	
	0 / -11 μm	Tolerance h6
	-16 / -34 μm	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
f <sub>7</sub>		Special tolerance: Only for shafts made from quenched and tempered steel. Tolerance (μm): -16 / -34
R <sub>ht</sub> min	0,6 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	5 μm	Roundness
t <sub>2</sub>	8 μm	Parallelism: Measured diameter deviation.
mw	1,39 kg/m	Mass of shaft

## W16

Figure 1 , Figure 2

dLw	16 mm	
L	6000 mm	
	0 / -11 $\mu\text{m}$	Tolerance h6
	+5 / -3 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
	-16 / -34 $\mu\text{m}$	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,6 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	5 $\mu\text{m}$	Roundness
t <sub>2</sub>	8 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	1,58 kg/m	Mass of shaft

## W18

Figure 1 , Figure 2

dLw	18 mm	
L	6000 mm	
	0 / -11 $\mu\text{m}$	Tolerance h6
	-16 / -34 $\mu\text{m}$	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,6 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	5 $\mu\text{m}$	Roundness
t <sub>2</sub>	8 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	2,0 kg/m	Mass of shaft

## W20

Figure 1 , Figure 2

dLw	20 mm	
L	6000 mm	
	0 / -13 µm	Tolerance h6
	+5 / -4 µm	Special tolerance j5: Only for shafts made from quenched and tempered steel.
	-20 / -41 µm	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,9 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	6 µm	Roundness
t <sub>2</sub>	9 µm	Parallelism: Measured diameter deviation.
mw	2,47 kg/m	Mass of shaft

## W24

Figure 1 , Figure 2

dLw	24 mm	
L	6000 mm	
	0 / -13 µm	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,9 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	6 µm	Roundness
t <sub>2</sub>	9 µm	Parallelism: Measured diameter deviation.
mw	3,55 kg/m	Mass of shaft

## W25

Figure 1 , Figure 2

dLw	25 mm	
L	6000 mm	
	0 / -13 $\mu\text{m}$	Tolerance h6
	+5 / -4 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
	-20 / -41 $\mu\text{m}$	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,9 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	6 $\mu\text{m}$	Roundness
t <sub>2</sub>	9 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	3,85 kg/m	Mass of shaft

## W30

Figure 1 , Figure 2

dLw	30 mm	
L	6000 mm	
	0 / -13 $\mu\text{m}$	Tolerance h6
	+5 / -4 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
	-20 / -41 $\mu\text{m}$	Special tolerance f7: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	0,9 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	6 $\mu\text{m}$	Roundness
t <sub>2</sub>	9 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	5,55 kg/m	Mass of shaft

## W32

Figure 1 , Figure 2

dLW	32 mm	
L	6000 mm	
	0 / -16 $\mu\text{m}$	Tolerance h6
	-25 / -50 $\mu\text{m}$	Special tolerance f7: Only for shafts made from quenched and tempered steel.
	+6,5 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	1,5 mm	Surface hardening depth: To DIN ISO 13012
t1	7 $\mu\text{m}$	Roundness
t2	11 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	6,31 kg/m	Mass of shaft

## W40

Figure 1 , Figure 2

dLW	40 mm	
L	6000 mm	
	0 / -16 $\mu\text{m}$	Tolerance h6
	+6 / -5 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	1,5 mm	Surface hardening depth: To DIN ISO 13012
t1	7 $\mu\text{m}$	Roundness
t2	11 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	9,87 kg/m	Mass of shaft

## W50

Figure 1 , Figure 2

dLw	50 mm	
L	6000 mm	
	0 / -16 $\mu\text{m}$	Tolerance h6
	+6 / -5 $\mu\text{m}$	Special tolerance j5: Only for shafts made from quenched and tempered steel.
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	1,5 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	7 $\mu\text{m}$	Roundness
t <sub>2</sub>	11 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	15,41 kg/m	Mass of shaft

## W60

Figure 1 , Figure 2

dLw	60 mm	
L	6000 mm	
	0 / -19 $\mu\text{m}$	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	2,2 mm	Surface hardening depth: To DIN ISO 13012
t <sub>1</sub>	8 $\mu\text{m}$	Roundness
t <sub>2</sub>	13 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	22,20 kg/m	Mass of shaft

## W80

Figure 1 , Figure 2

dLw	80 mm	
L	6000 mm	
	0 / -19 $\mu\text{m}$	Tolerance h6
4)		For shaft length < 400 mm max. straightness tolerance of 0,04 mm.
Rht <sub>min</sub>	2,2 mm	Surface hardening depth: To DIN ISO 13012
t1	8 $\mu\text{m}$	Roundness
t2	13 $\mu\text{m}$	Parallelism: Measured diameter deviation.
mw	39,45 kg/m	Mass of shaft