

Chemical analysis

C%	Si%	Mn%	P%	S%
0.50 - 0.57	0.15 - 0.35	0.40 - 0.70	max 0.025	max 0.035

Mechanical Properties

Φ mm	Tensile Strength Rm N/mm ²	Yield Point Rp0.2 N/mm ²	Elong. A5%
Ø ≤ 18*	700-850	min. 475	min. 10
18 < Ø ≤ 100**	610-760	min. 340	min. 16
Ø > 100**	min. 560	min. 275	min. 16

* cold drawn

** hot rolled

Corresponding standards

A-LINE	EN	DIN 17212	BS	AFNOR	ASTM
A-LINE W	—	Cf53	070M55	XC48TS	1050

Surface Roughness

The surface roughness (Ra) is maximum 0.20 µm.

Diameter tolerance

ISO h6 is standard; other tolerances can be supplied upon request.

Tolerance Range according to ISO 286-2 Table for ISO h6 in µm

Size (mm)	upper	lower
>4-6	0	-8
>6-10	0	-9
>10-18	0	-11
>18-30	0	-13
>30-50	0	-16
>50-80	0	-19
>80-120	0	-22

Packaging

Bars are degreased and oiled, placed in bundles that are wrapped in wax paper and raffia.

On request with additional cost

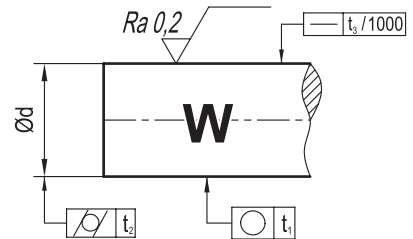
- Wooden boxes



Our products packaging
is recyclable

Marking

Each batch has a label showing: manufacturing date, product name, diameter, tolerance range, number of bars, heat No. to facilitate full traceability.



Hardness depth, roundness, parallelism, straightness

Shaft Diameter d	Weight per metre	Shaft part number	Standard length	Hardening depth Rht DIN 6773	Standard tolerance ISO h6	Roundness (circular) t1	Parallelism (cylindric) t2	Straightness t3
mm	kg		mm	mm	µm	µm	µm	mm/m
4	0.10	W 4	4000	0.5 - 0.8	0/-8	4	6	0.16
5	0.16	W 5	4000	0.5 - 0.8	0/-8	4	6	0.16
6	0.23	W 6	6000	0.5 - 0.8	0/-8	4	6	0.16
8	0.40	W 8	6000	0.6 - 0.9	0/-9	4	6	0.16
10	0.62	W 10	6000	0.7 - 1.0	0/-9	4	6	0.12
12	0.89	W 12	6000	0.8 - 1.2	0/-11	5	8	0.12
13	1.04	W 13	6000	0.8 - 1.2	0/-11	5	8	0.12
14	1.21	W 14	6000	0.9 - 1.3	0/-11	5	8	0.12
15	1.39	W 15	6000	1.0 - 1.4	0/-11	5	8	0.12
16	1.58	W 16	6000	1.1 - 1.5	0/-11	5	8	0.1
18	2.00	W 18	6000	1.1 - 1.5	0/-11	5	8	0.1
20	2.47	W 20	6000	1.2 - 1.5	0/-13	6	8	0.1
22	2.98	W 22	6000	1.2 - 1.5	0/-13	6	8	0.1
24	3.55	W 24	6000	1.4 - 1.6	0/-13	6	8	0.1
25	3.85	W 25	6000	1.5 - 1.7	0/-13	6	9	0.1
28	4.83	W 28	6000	1.5 - 1.8	0/-13	6	9	0.1
30	5.55	W 30	6000	1.5 - 1.9	0/-13	6	9	0.1
32	6.31	W 32	6000	1.5 - 1.9	0/-16	7	11	0.1
35	7.55	W 35	6000	1.5 - 1.9	0/-16	7	11	0.1
40	9.87	W 40	6000	1.6 - 2.0	0/-16	7	11	0.1
45	12.50	W 45	6000	1.6 - 2.0	0/-16	7	11	0.1
50	15.40	W 50	6000	2.2 - 2.6	0/-16	7	11	0.1
55	18.64	W 55	6000	2.2 - 2.6	0/-19	8	13	0.1
60	22.20	W 60	7000	2.2 - 2.6	0/-19	8	13	0.1
65	26.03	W 65	7000	2.2 - 2.6	0/-19	8	13	0.1
70	30.20	W 70	7000	2.2 - 2.6	0/-19	8	13	0.1
75	34.70	W 75	7000	2.2 - 2.6	0/-19	8	13	0.1
80	39.50	W 80	7000	2.2 - 2.6	0/-19	8	13	0.1
90	49.92	W 90	7000	2.2 - 3.2	0/-22	8	13	0.2
100	61.62	W 100	7000	2.2 - 3.2	0/-22	8	13	0.2
120	88.73	W 120	7000	2.5 - 4.0	0/-22	10	16	0.2

Surface Hardness

Steel grade Cf53: 62±2 HRC

Certifications

ISO 9001

ISO 14001

OHSAS 18001