

Валы линейные из нержавеющей стали NIMET NI-WRB

Технические характеристики

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Сургут (3462)77-98-35
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47

NI-SERIES

WRB

INDUCTION HARDENED AND GROUND STAINLESS STEEL LINEAR SHAFTS

STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
X46Cr13	1.4034	X46Cr13	(420S45)	X40Cr14	-	40Ch13	420C

CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Ni	Mo	V
X46Cr13	0.43 ÷ 0.50	max. 1.0	max. 1.0	max. 0.040	max. 0.030	12.5 ÷ 14.5	-	-	-

MECHANICAL PROPERTIES

Steel grade	Diameter	Tensile strength	Yield strength	Elongation	Hardness	Norm
	Ø	R _m	R _{p0.2}	A ₅	Brinell	
	mm	N/mm ²	N/mm ²	%	HB	
X46Cr13+A	4 < Ø ≤ 50	max. 800	-	-	max. 245	EN 10088-3

A=annealed

HARDENABILITY

Steel grade	Surface hardness HRC min.
X46Cr13+A	53

A = annealed

NI
SERIES

The hardening depth (SHD according to EN ISO 15787 or Rht according to DIN 6773) is defined as the distance from the steel surface up to the point where the hardness value is 80% of the minimum guaranteed value of the surface hardness and it is established in accordance with ISO 13012, depending on the shaft's size.

The minimum guaranteed value of the surface hardness varies depending the steel grade.

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INDUCTION HARDENED AND GROUND STAINLESS STEEL LINEAR SHAFTS

Steel grade X46Cr13 (W1.4034)

Surface hardness 55±2 HRC

Surface roughness Ra max. 0.32 µm

Length tolerance ±200 mm

Surface hardening depth, SHD according to EN ISO 15787

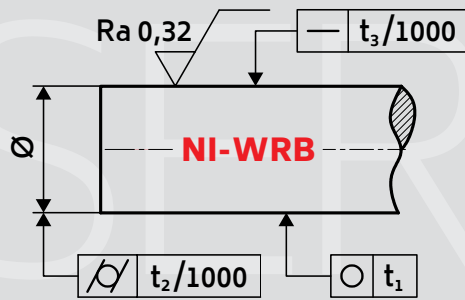
On request special lengths, tolerances and dimensions
chrome plating

NI-WRB/METRIC

Shaft Diameter Ø	Weight	Series	Standard length	Surface hardening depth SHD (min. + tol.)	Roundness (circularity) t1 max. µm	Parallelism (cylindricity) t2 max. µm	Straightness t3 max. mm/m	Standard tolerance ISO h6 µm
mm	kg/m		mm	mm	µm	µm	mm/m	µm
4	0.10	NI-WRB 4	3000	min. 0.4	4	6	0.25	0/-8
5	0.15	NI-WRB 5	3000	min. 0.4	4	6	0.25	0/-8
6	0.22	NI-WRB 6	3000	0.4+0.9	4	6	0.25	0/-8
8	0.39	NI-WRB 8	6000	0.4+0.9	4	6	0.20	0/-9
10	0.62	NI-WRB 10	6000	0.4+0.9	4	6	0.20	0/-9
12	0.89	NI-WRB 12	6000	0.6+0.9	5	8	0.20	0/-11
14	1.21	NI-WRB 14	6000	0.6+0.9	5	8	0.20	0/-11
15	1.39	NI-WRB 15	6000	0.6+0.9	5	8	0.20	0/-11
16	1.58	NI-WRB 16	6000	0.6+0.9	5	8	0.20	0/-11
20	2.46	NI-WRB 20	6000	0.8+0.8	6	9	0.20	0/-13
25	3.85	NI-WRB 25	6000	0.9+0.8	6	9	0.15	0/-13
30	5.55	NI-WRB 30	6000	0.9+0.8	6	9	0.15	0/-13
35	7.55	NI-WRB 35	6000	1.5+1.3	7	11	0.15	0/-16
40	9.86	NI-WRB 40	6000	1.5+1.3	7	11	0.15	0/-16
50	15.41	NI-WRB 50	6000	1.5+1.3	7	11	0.15	0/-16

The hardening depth (SHD according to EN ISO 15787 or Rht according to DIN 6773) is defined as the distance from the steel surface up to the point where the hardness value is 80% of the minimum guaranteed value of the surface hardness and it is established in accordance with ISO 13012, depending on the shaft's size.

The minimum guaranteed value of the surface hardness varies depending the steel grade.



Steel grade X46Cr13 (W1.4034)

Surface hardness 55±2 HRC

Surface roughness Ra max. 0.32 µm

Length tolerance ±200 mm

Surface hardening depth, SHD according to EN ISO 15787

On request special lengths, tolerances and dimensions
chrome plating

NI-WRB/IMPERIAL

Shaft Diameter Ø		Weight	Series	Standard length	Surface hardening depth SHD (min. + tol.)	Roundness (circularity) t ₁ max.	Parallelism (cylindricity) t ₂ max.	Straightness t ₃ max.	Standard tolerance Class "L"
mm	inch	kg/m		inch	inch	inch	inch	in/ft	inch
6.35	0.25	0.25	NI-WRB 6.35	118.11	0.016 + 0.035	0.00016	0.00024	0.00308	-0.0005 / -0.001
9.525	0.375	0.56	NI-WRB 9.525	236.22	0.016 + 0.035	0.00016	0.00024	0.00246	-0.0005 / -0.001
12.7	0.5	0.99	NI-WRB 12.7	236.22	0.024 + 0.035	0.00020	0.00031	0.00246	-0.0005 / -0.001
15.875	0.625	1.55	NI-WRB 15.875	236.22	0.024 + 0.035	0.00020	0.00031	0.00246	-0.0005 / -0.001
19.05	0.75	2.24	NI-WRB 19.05	236.22	0.032 + 0.032	0.00024	0.00035	0.00246	-0.0005 / -0.001
25.4	1	3.98	NI-WRB 25.4	236.22	0.032 + 0.032	0.00024	0.00035	0.00185	-0.0005 / -0.001
31.75	1.25	6.21	NI-WRB 31.75	236.22	0.059 + 0.051	0.00028	0.00043	0.00185	-0.0005 / -0.001
38.1	1.5	8.94	NI-WRB 38.1	236.22	0.059 + 0.051	0.00028	0.00043	0.00185	-0.0006 / -0.0011
50.8	2	15.90	NI-WRB 50.8	236.22	0.087 + 0.063	0.00028	0.00043	0.00185	-0.0006 / -0.0013

The hardening depth (SHD according to EN ISO 15787 or Rht according to DIN 6773) is defined as the distance from the steel surface up to the point where the hardness value is 80% of the minimum guaranteed value of the surface hardness and it is established in accordance with ISO 13012, depending on the shaft's size.

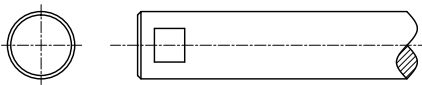
The minimum guaranteed value of the surface hardness varies depending the steel grade.

NI-SERIES

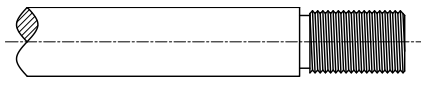
WRB

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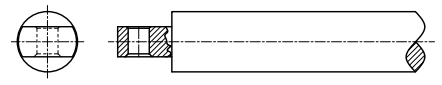
CROSSWISE GROOVE



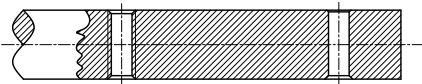
OUTSIDE DIAMETER THREAD



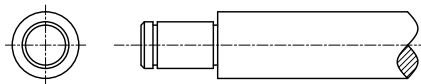
END FOR MOUNT WITH CLEVIS
CLAMP



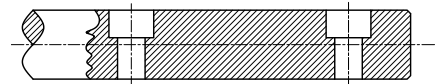
TAPPED OR DRILLED HOLES
RADIALLY THROUGH SHAFT



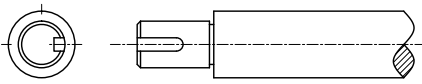
GROOVES FOR SNAP RING



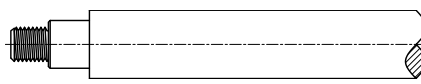
RADIAL DRILLING HOLES, BORED



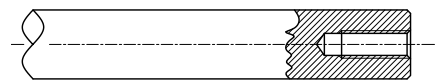
REDUCED DIAMETER WITH/
WITHOUT FEATHER KEYWAY



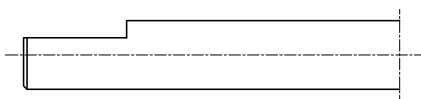
REDUCED DIAMETER WITH
THREADED END



AXIAL DRILLED AND THREADED
TO ENDS



D-CUT SHAPE



PACKING SOLUTIONS

- Branorost paper, spacer rings, raffia and wooden boxes for Ø 4 - 16 mm.
- Bundles protected with branorost paper, spacer rings and raffia for Ø over 16 mm. Same range but in chrome plated condition can be packed in individual cardboard tubes.
- Customized packaging solutions - wooden cases and wooden Euro-pallets.
- Aluminum foil vacuum bags extra protection of bundles for overseas transportation.

STORAGE AND HANDLING RECOMMENDATIONS

- Keep the products stored in dry and covered spaces.
- Whenever possible, please use the crane to load or unload the bundles; when you use the fork lift, please avoid the direct contact of the forks with the products.
- Always lift the bundles using textile slings. Do not use metal slings during handling of bundles.
- Always use gloves when handling the shafts.
- Always keep dry the cardboard tubes that protect the chromed products.

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Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пермь (342)205-81-47	Тверь (4822)63-31-35	
Россия (495)268-04-70	Казахстан (772)734-952-31	Киргизия (996)312-96-26-47		