

TOOLOX[®] ENGINEERING & TOOL STEEL DIMENSIONAL PROGRAM BARS

Toolox round bar dimension range

Products	Ø (mm)
Toolox [®] 44	21 - 282

Dimensions

Stock dimension Ø (mm)	Standard length (mm)
	Toolox [®] 44
21	5000
26	5000
31	5000
36	5000
41	5000
46	5000
51	5000
56	5000
61	5000
71	5000
81	5000
91	5000
101	5000
111	5000
121	5000
126	4800
131	4800
141	5000
151	4300
161	3300
172	3400
182	3400
202	3600
225	3000
242	4000
262	3500
282	4400

Length tolerance according to EN 10060 with tolerances -0/+200 mm.

Diameters

Dimension Ø (mm)	Tolerances, Turned surfaces (mm)	
	Min	Max
21 - 23	0	+ 0.4
24 - 31	0	+ 0.5
32 - 41	0	+ 0.6
42 - 54	0	+ 0.8
55 - 75	0	+ 1.0
76 - 125	0	+ 1.0
126 - 220	0	+ 2.0
221 - 250	0	+ 3.0
> 250	0	+ 5.0

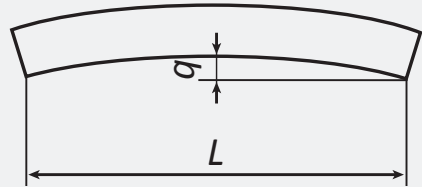
According to EN 10060 Limit deviation Precision for $\text{Ø} \leq 71$ mm.
SSAB specification for $\text{Ø} \geq 81 - 282$ mm.

Ovality

Tolerances for both rolled and turned according to EN 10060 meaning the deviation of roundness shall not exceed 75% of the diameter tolerance range.

Straightness

Tolerances according to EN 10060. The deviation is considered as the maximum height of the arch, while using a calibrated 1 meter ruler. The maximum allowed deviation is 2mm/m.

Straightness, q	
	
Normal Ø	Tolerances
$q < d \leq 25$	Not fixed
$25 < d \leq 80$	$q \leq 0.4\%$ of L
$80 < d \leq 250$	$q \leq 0.25\%$ of L

Surface conditions

Turned surface with:

maximal R_A 2 μm for $\emptyset \leq 71$ mm.

maximal R_A 3 μm for $\emptyset > 75 \leq 141$ mm.

maximal R_A 16 μm for $\emptyset > 141$ mm.

Rolled surfaces can be supplied upon request.

Minimum order quantity 2 ton.

Delivery condition

Toolox[®] bars are delivery with turned and oiled surface.

Testing

Toolox[®] bars are ultrasonic tested according to EN 10308 with extra demands according to specification SSAB V6.

Mechanical properties are tested for each heat treatment batch. Bar hardness is measured on a milled surface, with indents positioned as impact test according to EN 10083. Impact testing according to EN 10083, EN ISO 148.

Contact information

www.ssab.com/contact