

TOOLOX ENGINEERING & TOOL STEEL DIMENSIONAL PROGRAM BARS

Toolox round bar dimension range

Products	Ø (mm)
Toolox 33	21–141
Toolox 44	21–172

Dimensions

Stock dimension Ø (mm)	Standard length (mm)	
	Toolox 33	Toolox 44
21	5000	5000
26	5000	5000
31	5000	5000
36	5000	5000
41	5000	5000
46	5000	5000
51	5000	5000
56	5000	5000
61	5000	5000
66	N.A	5000
71	5000	5000
81	5000	5000
91	5000	5000
101	5000	5000
111	5000	5000
121	4500	5000
126	N.A	4800
131	4500	4800
141	5000	5000
151	N.A	4300
161	N.A	3300
172	N.A	3400

Length tolerance according to EN10 060 with tolerances -0/+200 mm.

Other diameters and lengths on request from new production.

Diameters

Dimension Ø (mm)	Tolerances, Turned surfaces (mm)	
	Min	Max
20–23	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
126–172	0	+ 2.0

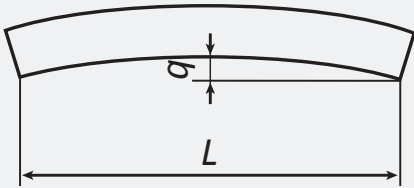
According to EN 10 060 Limit deviation Precision for $\text{Ø} \leq 71$ mm. SSAB specification for $\text{Ø} \geq 81$ –172 mm.

Ovality

Tolerances for both rolled and turned according to EN 10 060 meaning the deviation of roundness shall not exceed 75% of the diameter tolerance range.

Straightness

Tolerances according to EN 10 060. 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 $\varnothing \leq 71$ mm.

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

maximal R_A 16 μm for $\varnothing > 141$ 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 10 308 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 10 083. Impact testing according to EN 10 083, EN ISO 148.

Contact information

www.ssab.com/contact