

HARDOX® ROUND BARS DIMENSIONAL PROGRAM

Dimension range

Product	Ø (mm)
Hardox® 400	40.0 - 100.0

For information concerning Hardox development products and their extension of the dimensional program, see page 2.

Standard dimensions

The stock dimension table shows available dimensions in mm for direct order including standard length. Minimum order quantity from stock is 1 bar.

For more information regarding further dimensions, test deliveries, bright bars and lengths on request from new rolling, please contact barsales@ssab.com. Minimum order quantity for customer specific order is 4 ton.

Stock dimension Ø (mm)	Standard length (mm)		
	Hardox® 400	AR 400	AR 500
13		4400	
20		5000	5000
30		5000	5000
40	5000		5000
50	5000		5000
60	5000		5000
70	5000		5000
80	5000		5000
90	5000		5000
100	5000	5000	5000
110		5000	5000
120		5000	5000
140		5000	5000
150			5000
160			5000

Length tolerances according to EN 10060 with tolerance -0/+200 mm up to Ø 100 mm.

Diameters

Dimension Ø (mm)	Tolerances, Rolled surfaces (mm)	
	Min	Max
13.0 - 15.0	- 0.40	+ 0.40
16.0 - 25.0	- 0.50	+ 0.50
26.0 - 35.0	- 0.60	+ 0.60
36.0 - 50.0	- 0.80	+ 0.80
52.0 - 75.0	- 1.00	+ 1.00
76.0 - 115.0	- 0.00	+ 3.50
116.0 - 155.0	- 0.00	+ 3.00
160.0	- 0.00	+ 3.50

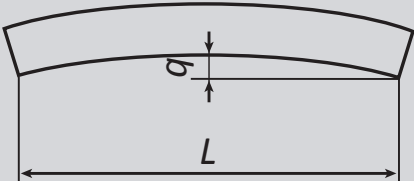
According to EN 10060 for $\varnothing \leq 75$ mm. SSAB specification for $\varnothing \geq 76 - 140$ mm.

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 2 mm/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

Both bright and rolled surfaces are available in the stock from previous replenishments, although the standard surface for Hardox bars are/will be as rolled. Bright bar can be offered from new rolling. Minimum order quantity for customer orders 4 ton.

Possible add-in Processes:

The following processes are offered as added process before delivery: cut to demanded length, surface machining to reach bright surface or tight tolerances.

Contact information

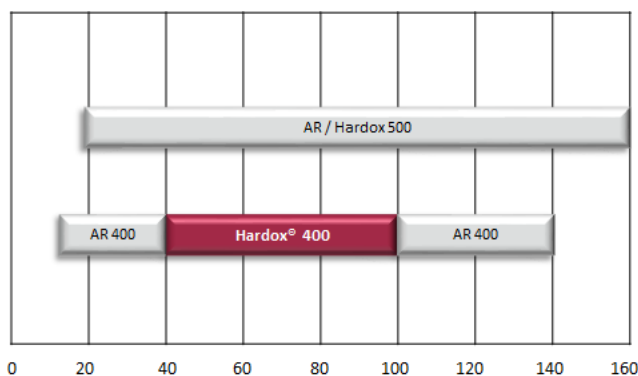
www.ssab.com/contact

AR Round bars

AR 400 round bar available in Ø of 13-39 and 101-140 mm is a development grade of Hardox[®] 400 round bar. AR 500 round bar in Ø of 20-160 mm is a new product, that is under development to reach properties of Hardox[®] 500.

AR products are still in the developing and trial delivery phase. The presented requirements in this sheet represent the targeted values for the development products. The values are typical and not guaranteed.

For more information on dimensions, length and other requirements, please contact your local sales representant or Tech Support, techsupport@ssab.com.



184-en-Hardox[®] round bars dimensional program - V4-2021