

# HARDOX® ROUND BARS DIMENSIONAL PROGRAM

## Dimension range

Product	Ø (mm)
Hardox® 400	40.0 - 100.0
Hardox® 500	40.0 - 160.0

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

## Standard dimensions

The dimension table shows available dimensions in mm for direct order including standard length.

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

Dimension Ø (mm)	Standard length (mm)			
	Hardox® 400	AR 400	Hardox® 500	AR 500
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	
130			5000	
140			5000	
150			5000	
160			5000	

Length tolerances according to EN 10060 with tolerance -0/+200 mm up to Ø 160 mm.

## Diameters

Dimension Ø (mm)	Tolerances, Rolled surfaces (mm)	
	Min	Max
20.0 - 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

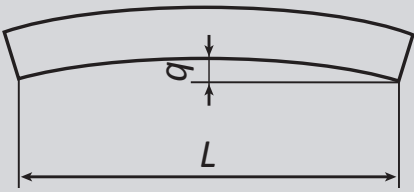
According to EN 10060 for Ø ≤ 75 mm. SSAB specification for Ø ≥ 76 - 160 mm.

## Ovality

Tolerances for rolled surface 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

Hardox® bars are delivered in as rolled condition.

### 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](http://www.ssab.com/contact)

### AR Round bars

AR 400 and AR 500 bars are available in 20-39 mm. They are development grades of Hardox® 400 and Hardox® 500 respectively.

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.

