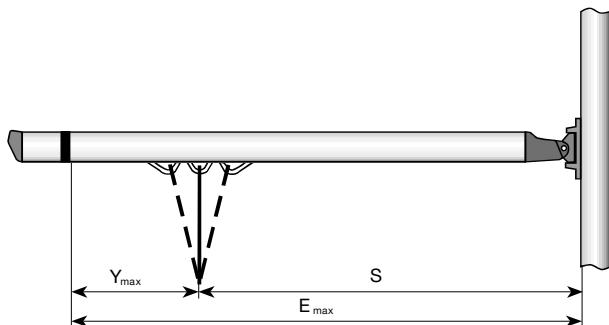


# Boom sections choice

To select the correct boom section, you will need to know the sail foot length ( $E$ ) and righting moment (RM). If the RM is not known, displacement is an alternative.

The  $E$  and  $Y$  measurements must also be known for dimensioning purposes. The length of the boom is sometimes determined by other factors than  $E$  and therefore we need the  $S$  measurement as well. A good example is when the boom extrusion needs an over-length to allow the main sheet to pass a sprayhood.



## Masthead rigs, $E_{\max}$ and $Y_{\max}$ (m)

Section		B087		B104		B120		B135		B153		B172		B199		B250		B290		B380		
RM 30 kNm	Displ. tonnes	$E_{\max}$	$Y_{\max}$																			
6	1.2	3.3	1.7	4.0	1.8	4.2	2.1															
8	1.6	3.3	1.4	4.0	1.6	4.2	1.8	4.6	2.5													
10	2.0	3.3	1.3	4.0	1.4	4.2	1.6	4.6	2.2													
12	2.4	2.9	1.2	4.0	1.3	4.2	1.5	4.6	2.0	5.1	3.1											
14	2.8	2.6	1.1	3.5	1.2	4.2	1.4	4.6	1.9	5.1	2.8											
16	3.2			3.2	1.1	4.2	1.3	4.6	1.8	5.1	2.7	6.1	3.7									
18	3.6			3.0	1.1	4.1	1.2	4.6	1.7	5.1	2.5	6.1	3.5									
20	4.0			2.8	1.0	3.8	1.1	4.6	1.6	5.1	2.4	6.1	3.3									
25	5.0			2.4	0.9	3.3	1.0	4.6	1.4	5.1	2.1	6.1	2.9									
30	5.7				2.9	0.9	4.5	1.3	5.1	1.9	6.1	2.7	6.6	4.1								
35	6.3				2.6	0.9	4.0	1.2	5.1	1.8	6.1	2.5	6.6	3.8								
40	7.0					3.7	1.1	5.1	1.7	6.1	2.3	6.6	3.5									
45	7.7					3.4	1.1	4.8	1.56	6.1	2.2	6.6	3.3									
50	8.2					3.2	1.0	4.5	1.5	6.1	2.1	6.6	3.2									
55	9.0							4.2	1.4	6.1	2.0	6.6	3.0									
60	10							3.9	1.4	5.8	1.9	6.6	2.9									
70	11							3.5	1.3	5.2	1.8	6.6	2.7	7.6	3.7							
80	12							3.2	1.2	4.7	1.6	6.6	2.5	7.6	3.5							
90	14							3.0	1.1	4.4	1.5	6.6	2.4	7.6	3.3							
100	15							2.7	1.1	4.1	1.5	6.2	2.2	7.6	3.1							
110	16									3.8	1.4	5.8	2.1	7.6	3.0							
120	18									3.6	1.3	5.5	2.0	7.6	2.8							
130	19									3.4	1.3	5.2	2.0	7.6	2.7	8.5	4.3					
140	20									3.2	1.2	4.9	1.9	7.6	2.6	8.5	4.1					
150	22											4.7	1.8	7.5	2.5	8.5	4.0					
160	23											4.5	1.8	7.2	2.5	8.5	3.8					
170	25											4.3	1.7	6.9	2.4	8.5	3.7	12	6.1			
180	26											4.1	1.7	6.6	2.3	8.5	3.6	12	5.9			
190	27											4.0	1.6	6.4	2.3	8.5	3.5	12	5.8			
200	28											3.8	1.6	6.1	2.2	8.5	3.4	12	5.6			
220	31													5.7	2.1	8.5	3.3	12	5.4			
240	34													5.4	2.0	8.5	3.1	12	5.1			
260																8.5	3.0	12	4.9			
280																8.2	2.9	12	4.7			
300																7.9	2.8	12	4.6			
320																		12	4.4			
340																		12	4.3			
360																		12	4.2			
380																		11.6	4.1			
400																		11.2	4.0			

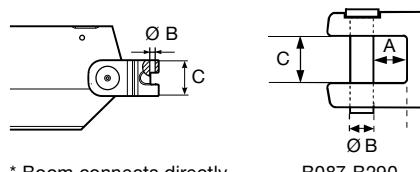


### Fractional rigs, $E_{max}$ and $Y_{max}$ (m)

Section		B087		B104		B120		B135		B153		B172		B199		B250		B290		B380		
RM 30 kNm	Displ. tonnes	$E_{max}$	$Y_{max}$																			
6	1.2	3.4	1.4	4.1	1.6	4.1	1.8															
8	1.6	3.3	1.2	4.1	1.4	4.1	1.6	4.6	2.1													
10	2.0	2.8	1.1	3.7	1.2	4.1	1.4	4.6	1.9													
12	2.4	2.5	1.0	3.3	1.1	4.1	1.3	4.6	1.8													
14	2.8	2.2	0.9	3.0	1.0	4.1	1.2	4.6	1.6	5.1	2.5											
16	3.2	2.0	0.9	2.7	1.0	3.7	1.1	4.6	1.5	5.1	2.3											
18	3.6			2.5	0.9	3.4	1.0	4.6	1.4	5.1	2.2	6.1	3.0									
20	4.0					3.2	1.0	4.6	1.4	5.1	2.1	6.1	2.8									
25	5.0					2.7	0.9	4.3	1.2	5.1	1.8	6.1	2.5	6.6	3.8							
30	5.7							3.8	1.1	5.1	1.7	6.1	2.3	6.6	3.5							
35	6.3							3.4	1.0	4.8	1.6	6.1	2.1	6.6	3.2							
40	7.0							3.1	1.0	4.3	1.4	6.1	2.0	6.6	3.0							
45	7.7									4.0	1.4	5.9	1.9	6.6	2.9							
50	8.2									3.7	1.3	5.5	1.8	6.6	2.7							
55	9.0									3.5	1.2	5.1	1.7	6.6	2.6	7.6	3.6					
60	10									3.3	1.2	4.8	1.6	6.6	2.5	7.6	3.5					
70	11									2.9	1.1	4.3	1.5	6.6	2.3	7.6	3.2					
80	12											4.0	1.4	6.0	2.1	7.6	3.0					
90	14											3.6	1.3	5.6	2.0	7.6	2.8					
100	15											3.4	1.3	5.2	1.9	7.6	2.7					
110	16											3.2	1.2	4.8	1.8	7.6	2.6					
120	18													4.5	1.8	7.3	2.4					
130	19													4.3	1.7	6.9	2.3	8.5	3.7			
140	20													4.1	1.6	6.6	2.3	8.5	3.5			
150	22													3.9	1.6	6.2	2.2	8.5	3.4			
160	23													3.7	1.5	6.0	2.1	8.5	3.3			
170	25													3.6	1.5	5.7	2.1	8.5	3.2	12.0	5.2	
180	26													3.4	1.4	5.5	2.0	8.5	3.1	12.0	5.1	
190	27													3.3	1.4	5.3	1.9	8.5	3.0	12.0	5.0	
200	28															5.1	1.9	8.5	3.0	12.0	4.8	
220	31															4.8	1.8	8.1	2.8	12.0	4.6	
240	34															4.5	1.7	7.6	2.7	12.0	4.4	
260																		7.2	2.6	12.0	4.2	
280																		6.8	2.5	11.9	4.1	
300																		6.5	2.4	11.4	3.9	
320																			10.9	3.8		
340																			10.4	3.7		
360																			10.0	3.6		
380																			9.6	3.5		
400																			9.3	3.4		

# Booms for slab reef, Single Line Reef and furling masts

After you have determined the correct boom section for your yacht (previous tables), all you have to do is decide what kind of reefing system you prefer. Then check the tables below to find the complete boom in question. If you are in any doubt about which boom to choose, please contact your Seldén dealer for expert advice. When fitting a Seldén boom to a mast of another brand, check the existing toggle's dimensions for compatibility.



\* Boom connects directly to gooseneck bracket.  
(B190 and B230)

## Inboard end

Boom section	A mm	B mm	C mm
B087	8	8	16
B104	8	8	16
B120	14	10	20
B135	14	12	20
B153	13	12	21
B172	16	12	20
B199	21	16	30
B250	18	16	30
B290	30	16	30
B190*	-	12.2	78
B230*	-	12.2	78

## Booms for furling masts

Art. No.	Boom section	E <sub>max</sub> mm
BS 120-72B	B120	3505
BS 120-73B		4005
BS 135-72	B135	4055
BS 135-73		4555
BS 153-72	B153	4520
BS 153-73		5020
BS 153-74		5520
BS 172-71	B172	4530
BS 172-72		5030
BS 172-73		5530
BS 172-74		6130
BS 199-71	B199	5530
BS 199-72		6630
BS 250-71B	B250	5610
BS 250-72B		6110
BS 250-73B		7110
BS 250-74B		7510
BS 290-71	B290	6885
BS 290-73		8385

## Slab reef and Single Line Reef booms

Art. No.	Boom section	E <sub>max</sub> mm	Remarks	Art. No.	Boom section	E <sub>max</sub> mm	Remarks
BS 087-01	B087	3365	Outhaul (2:1) + 2 reefs, aft	BS 172-61	B172	4580	Outhaul (3:1) + 2 Single Line Reef, aft
BS 087-21		3365	Outhaul (4:1) + 2 reefs, cam cleats	BS 172-62		5080	Outhaul (3:1) + 2 Single Line Reef, aft
BS 087-61		3365	Outhaul (2:1) + 2 Single Line Reef, aft	BS 172-63		5580	Outhaul (3:1) + 2 Single Line Reef, aft
BS 104-01	B104	3515	Outhaul (2:1) + 2 reefs, aft	BS 172-64		6180	Outhaul (3:1) + 2 Single Line Reef, aft
BS 104-02		4015	Outhaul (2:1) + 2 reefs, aft	BS 190-02	B190	4940	Outhaul + 2 reefs, aft
BS 104-21		3515	Outhaul (4:1) + 2 reefs, cam cleats	BS 190-03		5440	Outhaul + 2 reefs, aft
BS 104-22		4015	Outhaul (4:1) + 2 reefs, cam cleats	BS 190-62		4940	Outhaul + 2 Single Line Reef, aft
BS 104-61		3515	Outhaul (2:1) + 2 Single Line Reef, aft	BS 190-63		5440	Outhaul + 2 Single Line Reef, aft
BS 104-62		4015	Outhaul (2:1) + 2 Single Line Reef, aft	BS 199-01	B199	5590	Outhaul (4:1) + 3 reefs, aft
BS 120-03B	B120	4040	Outhaul (3:1) + 2 reefs, aft	BS 199-02		6690	Outhaul (4:1) + 3 reefs, aft
BS 120-23		4135	Outhaul (3:1) + 2 reefs, jam levers	BS 199-21		5590	Outhaul (4:1) + 3 reefs, jam levers
BS 120-63B		4040	Outhaul (3:1) + 2 Single Line Reef, aft	BS 199-22		6690	Outhaul (4:1) + 3 reefs, jam levers
BS 135-02	B135	4105	Outhaul (3:1) + 2 reefs, aft	BS 199-61		5590	Outhaul (4:1) + 2 Single Line Reef, aft
BS 135-03		4605	Outhaul (3:1) + 2 reefs, aft	BS 199-62		6690	Outhaul (4:1) + 2 Single Line Reef, aft
BS 135-22		4105	Outhaul (3:1) + 2 reefs, jam levers	BS 230-01	B230	4540	Outhaul + 2 reefs, aft
BS 135-23		4605	Outhaul (3:1) + 2 reefs, jam levers	BS 230-02		4940	Outhaul + 2 reefs, aft
BS 135-62		4105	Outhaul (3:1) + 2 Single Line Reef, aft	BS 230-03		5440	Outhaul + 2 reefs, aft
BS 135-63		4605	Outhaul (3:1) + 2 Single Line Reef, aft	BS 230-04		6040	Outhaul + 2 reefs, aft
BS 153-02	B153	4570	Outhaul (3:1) + 3 reefs, aft	BS 230-61		4540	Outhaul + 2 Single Line Reef, aft
BS 153-03		5070	Outhaul (3:1) + 3 reefs, aft	BS 230-62		4950	Outhaul + 2 Single Line Reef, aft
BS 153-04		5570	Outhaul (3:1) + 3 reefs, aft	BS 230-63		5440	Outhaul + 2 Single Line Reef, aft
BS 153-22		4570	Outhaul (3:1) + 2 reefs, jam levers	BS 230-64		6040	Outhaul + 2 Single Line Reef, aft
BS 153-23		5070	Outhaul (3:1) + 2 reefs, jam levers	BS 250-01B	B250	5670	Outhaul (4:1) + 3 reefs, aft
BS 153-24		5570	Outhaul (3:1) + 2 reefs, jam levers	BS 250-02B		6170	Outhaul (4:1) + 3 reefs, aft
BS 153-62	B172	4570	Outhaul (3:1) + 2 Single Line Reef, aft	BS 250-03B		7170	Outhaul (4:1) + 3 reefs, aft
BS 153-63		5070	Outhaul (3:1) + 2 Single Line Reef, aft	BS 250-04B		7570	Outhaul (4:1) + 3 reefs, aft
BS 153-64		5570	Outhaul (3:1) + 2 Single Line Reef, aft	BS 250-21B		5670	Outhaul (4:1) + 3 reefs, jam levers
BS 172-01		4580	Outhaul (3:1) + 3 reefs, aft	BS 250-22B		6170	Outhaul (4:1) + 3 reefs, jam levers
BS 172-02		5080	Outhaul (3:1) + 3 reefs, aft	BS 250-23B		7170	Outhaul (4:1) + 3 reefs, jam levers
BS 172-03		5580	Outhaul (3:1) + 3 reefs, aft	BS 250-24B		7570	Outhaul (4:1) + 3 reefs, jam levers
BS 172-04	B172	6180	Outhaul (3:1) + 3 reefs, aft	BS 250-61B		5670	Outhaul (4:1) + 2 Single Line Reef, aft
BS 172-21		4580	Outhaul (3:1) + 3 reefs, jam levers	BS 250-62B		6170	Outhaul (4:1) + 2 Single Line Reef, aft
BS 172-22		5080	Outhaul (3:1) + 3 reefs, jam levers	BS 250-63B		7170	Outhaul (4:1) + 2 Single Line Reef, aft
BS 172-23		5580	Outhaul (3:1) + 3 reefs, jam levers	BS 250-64B		7570	Outhaul (4:1) + 2 Single Line Reef, aft
BS 172-24		6180	Outhaul (3:1) + 3 reefs, jam levers	BS 290-01	B290	6885	Outhaul + 2 reefs, aft
				BS 290-03		8385	Outhaul + 2 reefs, aft
				BS 290-61		6885	Outhaul (3:1) + 2 Single Line Reef, aft
				BS 290-63		8385	Outhaul (3:1) + 2 Single Line Reef, aft

Aft = Lines to cockpit. Jam levers/cam cleats = Lines operated at gooseneck.