Speedmachine

Sizing Guide

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Introduction

The Speedmachine represents the pinnacle of functional integration, aerodynamic form and rider-focused fit. By patiently following these guidelines, the content of this manual will lead to properly fitting and functioning equipment with a high-performance, Swiss Engineered aesthetic.

BMC Speedmachine frame and components are designed as a system to provide a very high level of aerodynamics and riding performance. Adjustability was not in any way compromised and the Speedmachine offers the highest adjustment possibility ever built into a fully integrated triathlon or time trial bicycle.

Adjustability being a key part of the system's performance, it is necessary to understand that most components of the frameset have been designed specifically for speedmachine and their function may slightly differ from your traditional road bike "off the shelf" components.

BMC speedmachine uses all the latest and most high-end technologies that can be found in bicycle manufacturing, including sharp edged and thin-walled carbon fiber composite construction, which should be treated with delicacy from the end user to prevent permanent and sometimes invisible damage.

For the reasons mentioned above, we ask you to carefully follow the instructions provided in this manual.

Incorrect mechanical operation on your bicycle could lead to serious damage, which could cause you to fall and lead to injury or death.

If you do not have the appropriate tools or experience to execute the following instructions, or if you need further information, please contact your official BMC dealer for service of your bicycle.

⚠ WARNING: This guide is not an assembly manual – it is solely intended for identifying which configurations can match a given position.

Please refer to the SPEEDMACHINE Gen1 Owners Manual for all assembly instructions.

Sizing and parts selection

Positioning

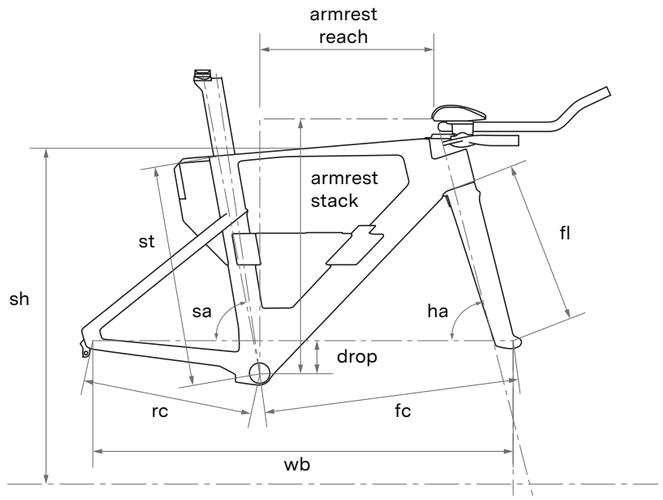
A bicycle rider will only perform at his best if he is correctly positioned on his bike, especially for triathlon and time trial competitions.

The following instructions are simple guidelines to help you decide which size and which extension configuration to choose in order to reach a given handlebar position. We do not in any way provide you with a fitting tool, those instructions can only help you once your position is defined. If you wish to change the position from your previous bike or if the speedmachine will be your first triathlon or time trial bike, we highly recommend you to visit a professional fitting expert.

Many different handlebar types and shapes are available on the market and it is not possible for BMC to guarantee accurate positioning for all of them. The base bar, armrest set, extensions and seat post provided with the speedmachine complete bikes and modules were carefully selected to offer the highest adjustment possibilities in a light, reliable and user-friendly package. Therefore we suggest you start by using the original speedmachine components and carefully follow the instructions. Then, multiple customization options are described later in this manual.

Frame geometry

General frame geometry



Size	S	M	L
Rider Height cm	<174	172-185	>180
Armrest Stack (stack)	558-650	586-678	628-720
Armrest Reach (reach)	348-467	368-487	395-514
Seat Tube (st)	460	525	551
Seat Tube Angle ° (sa)	80°	80°	82,4°
Rear Center (rc)	405	405	405
Front Center (fc)	578	606	646
Wheelbase (wb)	974	1000	1040
BB drop (drop)	62	72	72
Fork Length (fl)	391	391	392
Standover Height (sh)	766	806	837

INFORMATION: Values communicated are for the Flat Base bar and consider all variations of tilt.

Sizing table summary

This table regroup every adjustment range available by frame size.

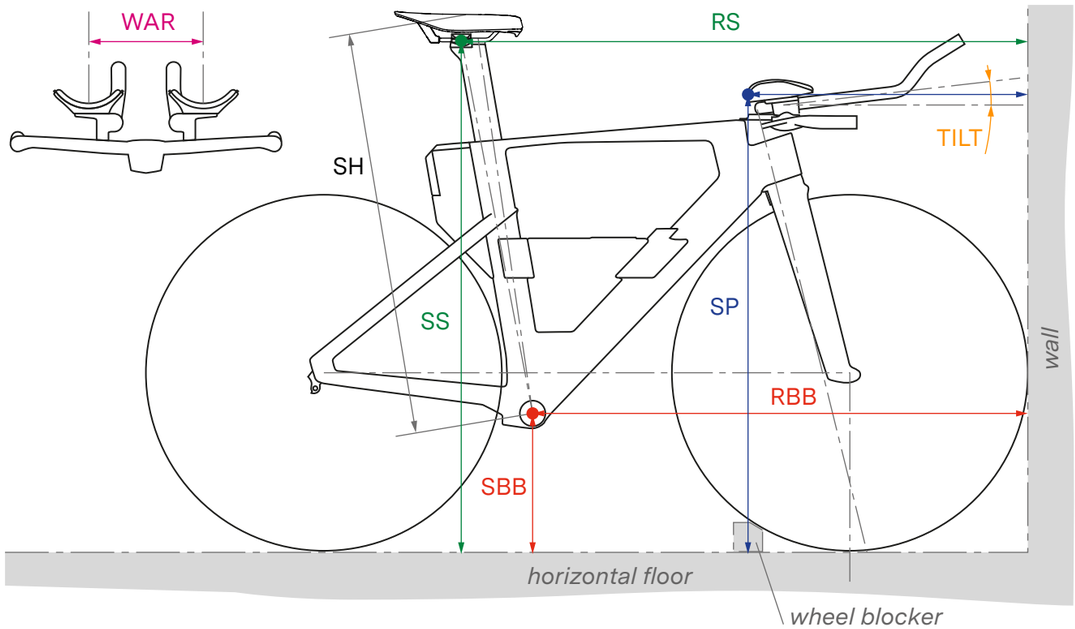
INFORMATION: This sizing method do not integrate the tilt adjustment offered by the Profile Design Aeria. We are starting with a “0° setup” and the tilt adjustment can by applied later.

		S		M		L	
Rider size *(Recommended, theoretical)*		< 174		172	185	> 180	
Saddle height *(theoretical)*		< 725		715	782	> 755	
Saddle height range *(uncut seatpost)*		610	740	705	835	761	891
Saddle height min *(cut seatpost)*		575		640		666	
Flat base bar	**Armrest stack**	558	650	586	678	628	720
	Armrest reach	348	467	368	487	395	514
Low base bar	**Armrest stack**	525	617	553	645	595	687
	Armrest reach	383	502	403	522	430	549

How to measure your current position

With your current bike

In the best scenario, you already have a bike adjusted to your desired position. If there is any doubt for you regarding which position you should use, we highly recommend you to visit a professional bike fitting expert, who will be able to give you the required data.



To take those measurements, the easiest way is to place your bike on a even, horizontal floor and lean it in a corner of a room so the bike is parallel to a wall and the front wheel against the perpendicular wall of your room corner.

All values for Pad X are given to the rear of the armrest pad.

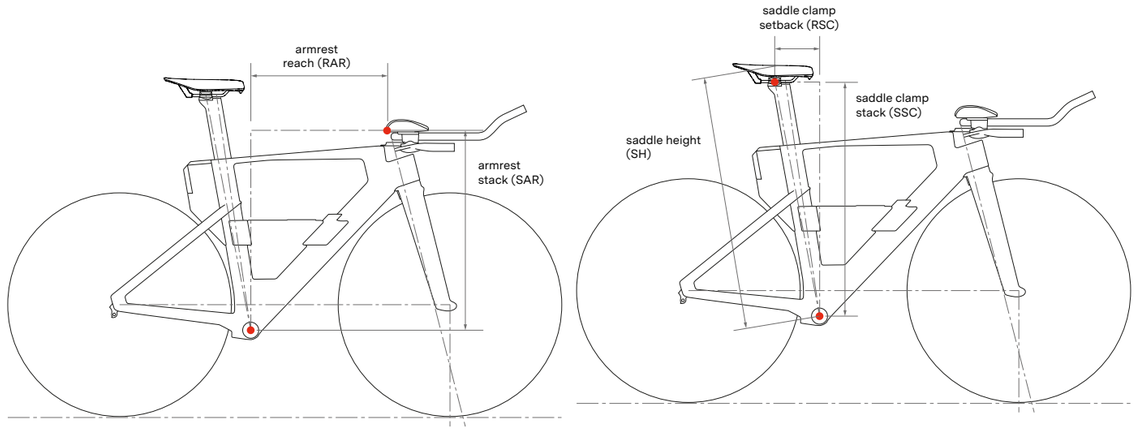
Values for Pad Stack and Reach include the cushion.

Take the following measurements:

- Vertical distance *from* the floor *to* the BB axle center (SBB).....
- Horizontal distance *from* the front wall *to* the BB axle center (RBB).....
- Vertical distance *from* the floor *to* the back of your pads (SP).....
- Horizontal distance *from* the front wall *to* the back of your pads (RP).....
- Vertical distance *from* the floor *to* the center of the saddle clamp (SS).....
- Horizontal distance *from* the front wall *to* the center of the saddle clamp (RS).....
- Distance *from* saddle top *to* the BB axle center (SH).....
- Armrest/extensions tilt (TILT).....

Fit coordinates

You can extract the final fit coordinates from the previous paragraph or from a bike fitting report.



	Measured distance Contact Point		Measured distance Bottom Bracket		Final measurements	
Armrest/extensions tilt					TILT	
Armrest pad reach	RBB	-	RP	=	RAR	.....
Armrest pad stack	SP	-	SBB	=	SAR	.....
Armrest Width value					WAR	.....
Saddle height					SH	.....
Saddle clamp stack	SS	-	SBB	=	SSC	.....
Saddle clamp reach	RS	-	RBB	=	RSC	.....

Frame size and cockpit configuration

⚠ WARNING: This sizing process is a starting point using your current fit coordinates. Please always consider the help of a professional bike fitter to get yourself fitted onto the Speedmachine.

ⓘ INFORMATION: The sizing guide starts with components initially delivered with your bike or module. If your current fit coordinates are not matching the adjustment ranges offered by the initial specifications it continues by suggesting components that are optional and available through our after-market program.

ⓘ INFORMATION: Even with the best range of stack and reach adjustment, the Speedmachine may not be able to cover some extreme fit coordinates. You always have the possibilities to get the bike to fit yours using after-market customized cockpit solutions that would be assembled on the Speedmachine Base bar.

ⓘ INFORMATION: The cockpit must comply with Profile Design Aeria 3 interface.

⚠ WARNING: You always must check compatibility and safety with the cockpit manufacturer.

Profile Design options

Profile Design offers a wide range of compatible parts to tune your cockpit setup to your needs.

You can find the latest product information on www.profile-design.com.

Extensions	**Description**	**Part Number**
43ASC-340	Shaped aero carbon extensions, 340mm long	ACASC43EXT340
43ASC-400	Shaped aero carbon extensions, 400mm long	ACASC43EXT400
50SLC	50deg carbon extension, designed for low weight	ACSLC50EXT400
35SLC	35deg carbon extension, designed for low weight	ACSLC35EXT400
43SLC	43deg carbon extension, designed for low weight	ACSLC43EXT400
4525SLC	25deg carbon extension, designed for low weight	Stock part
52a	52deg alloy extensions	AC52EXT400
39a	39deg alloy extensions	AC39EXT400
26a	26deg alloy extensions	AC26EXT400

Armrests	**Description**	**Part Number**
Race+	A tighter cup for riders that like to feel locked in	ACMRCKT1
Ergo+	A highly adjustable armrest intended for comfort	Stock part

Armpads	**Description**	**Part Number**
10mm	A high density pad with a grooved surface for grip and water dispersion	Stock part
15-10mm	Adds 5mm under the elbow with a taper to 10mm sides	ACMER105PAD
10-5mm	10mm under the elbow with 5mm on the sides for comfort on the Race+ armrest	ACMER1510PAD

Brackets	**Description**	**Part Number**
A2 Race	A lighter, smaller platform bracket with less adjustment than the standard model	ACARARBRKT
A2 Standard	A highly adjustable bracket offering a wide range of pad positions and 15deg of tilt	Stock part

Risers	**Description**	**Part Number**
A3A Low	5-35mm of spacers, no bridge required	ACA3ALRSKT
A3A High	40-65mm of spacers with a 5mm bridge. Bridge is not UCI legal	ACA3AHRSKT
A3C High	Required for UCI legal racing, features an integrated carbon bridge	ACA3CHRSKT

Custom options

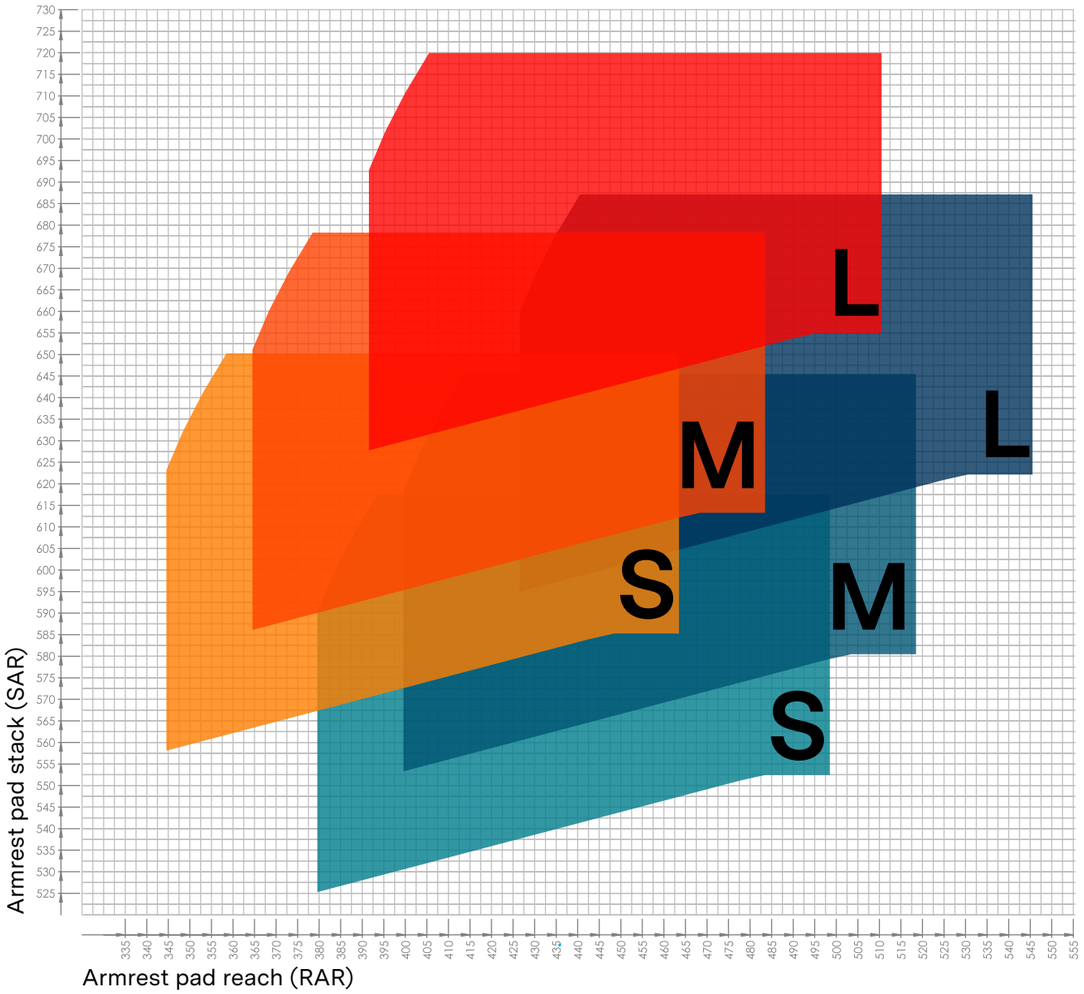
As the Speedmachine Base bar complies with Profile Design Aeria 3 interface, you could opt for a full customized solution.

Here are some existing custom cockpit manufacturers (not limited to this list).

- UNIQO CUSTOM BIKES www.uniqocustombikes.com
- WATTSHOP www.shopforwatts.co.uk
- SWISS SIDE www.swissside.com
- AEROCOACH www.aero-coach.co.uk
- FAST TT www.fasttt.bike

Frame size, Base bar, Tilt, Stack and Reach

For a quick selection of your Frame and Base bar, you can use your SAR and RAR values and report them on the Speedmachine Stack Pad and Reach Pad graphic bellow.



For a detailed configuration, we will find the matching Speedmachine setup using the following steps:

1. Lookup for your tilt
2A. Use your Armrest Stack value (SAR) and find your Base bar type and Reach Pad position.
2B. Use your Armrest Reach value (RAR) and find your Stack Pad position.
3. Use your Armrest Width value (WAR) and find your Width pad setup and position
4. Use your Saddle Clamp values (SSC and RSC) and find your saddle clamp setup.

1. Tilt selection

Tilt could be adjusted to every degree of precision. To make your setup process easier, we have simplified the tilt selection to 0°, 5°, 10° and 15°.

Select the nearest tilt value and go the the appropriate page:

- 0° go to page “Tilt 0°”, page 12
- 5° go to page “Tilt 5°”, page 14
- 10° go to page “Tilt 10°”, page 16
- 15° go to page “Tilt 15°”, page 18

2. Stack and Reach tables - Tilt 0°

2A. Reach: *select the closest Reach value (RAR) from the table and note Base bar type and the Reach Pad position.*

Frame	Base bar												
S	Flat	359 [1]	374 [2]	389 [3]	404 [4]	419 [5]	434 [6]	449 [7]	464 [8]				
M	Flat		379 [1]	394 [2]	409 [3]	424 [4]	439 [5]	454 [6]	469 [7]	484 [8]			
L	Flat				406 [1]	421 [2]	436 [3]	451 [4]	466 [5]	481 [6]	496 [7]	511 [8]	
S	Low			394 [1]	409 [2]	424 [3]	439 [4]	454 [5]	469 [6]	484 [7]	499 [8]		
M	Low				414 [1]	429 [2]	444 [3]	459 [4]	474 [5]	489 [6]	504 [7]	519 [8]	
L	Low						441 [1]	456 [2]	471 [3]	486 [4]	501 [5]	516 [6]	531 [7]	546 [8]

2B. Stack: *select the closest Stack value (SAR) from the different frame size tables using the Base bar type and the Reach Pad position and note the Stack Pad position.*

frame size S

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	552	552	552	552	552	552	552	552
	2	5mm	557	557	557	557	557	557	557	557
	3	10mm	562	562	562	562	562	562	562	562
	4	15mm	567	567	567	567	567	567	567	567
	5	20mm	572	572	572	572	572	572	572	572
	6	25mm	577	577	577	577	577	577	577	577
	7	30mm	582	582	582	582	582	582	582	582
1		0mm	585	585	585	585	585	585	585	585
	8	35mm	587	587	587	587	587	587	587	587
2		5mm	590	590	590	590	590	590	590	590
	9	40mm	592	592	592	592	592	592	592	592
3		10mm	595	595	595	595	595	595	595	595
	10	45mm	597	597	597	597	597	597	597	597
4		15mm	600	600	600	600	600	600	600	600
	11	50mm	602	602	602	602	602	602	602	602
5		20mm	605	605	605	605	605	605	605	605
	12	55mm	607	607	607	607	607	607	607	607
6		25mm	610	610	610	610	610	610	610	610
	13	60mm	612	612	612	612	612	612	612	612
7		30mm	615	615	615	615	615	615	615	615
	14	65mm	617	617	617	617	617	617	617	617
8		35mm	620	620	620	620	620	620	620	620
9		40mm	625	625	625	625	625	625	625	625
10		45mm	630	630	630	630	630	630	630	630
11		50mm	635	635	635	635	635	635	635	635
12		55mm	640	640	640	640	640	640	640	640
13		60mm	645	645	645	645	645	645	645	645
14		65mm	650	650	650	650	650	650	650	650

frame size M

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	580	580	580	580	580	580	580	580
	2	5mm	585	585	585	585	585	585	585	585
	3	10mm	590	590	590	590	590	590	590	590
	4	15mm	595	595	595	595	595	595	595	595
	5	20mm	600	600	600	600	600	600	600	600
	6	25mm	605	605	605	605	605	605	605	605
	7	30mm	610	610	610	610	610	610	610	610
1		0mm	613	613	613	613	613	613	613	613
	8	35mm	615	615	615	615	615	615	615	615
2		5mm	618	618	618	618	618	618	618	618
	9	40mm	620	620	620	620	620	620	620	620
3		10mm	623	623	623	623	623	623	623	623
	10	45mm	625	625	625	625	625	625	625	625
4		15mm	628	628	628	628	628	628	628	628
	11	50mm	630	630	630	630	630	630	630	630
5		20mm	633	633	633	633	633	633	633	633
	12	55mm	635	635	635	635	635	635	635	635
6		25mm	638	638	638	638	638	638	638	638
	13	60mm	640	640	640	640	640	640	640	640
7		30mm	643	643	643	643	643	643	643	643
	14	65mm	645	645	645	645	645	645	645	645
8		35mm	648	648	648	648	648	648	648	648
9		40mm	653	653	653	653	653	653	653	653
10		45mm	658	658	658	658	658	658	658	658
11		50mm	663	663	663	663	663	663	663	663
12		55mm	668	668	668	668	668	668	668	668
13		60mm	673	673	673	673	673	673	673	673
14		65mm	678	678	678	678	678	678	678	678

frame size L

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	622	622	622	622	622	622	622	622
	2	5mm	627	627	627	627	627	627	627	627
	3	10mm	632	632	632	632	632	632	632	632
	4	15mm	637	637	637	637	637	637	637	637
	5	20mm	642	642	642	642	642	642	642	642
	6	25mm	647	647	647	647	647	647	647	647
	7	30mm	652	652	652	652	652	652	652	652
1		0mm	655	655	655	655	655	655	655	655
	8	35mm	657	657	657	657	657	657	657	657
2		5mm	660	660	660	660	660	660	660	660
	9	40mm	662	662	662	662	662	662	662	662
3		10mm	665	665	665	665	665	665	665	665
	10	45mm	667	667	667	667	667	667	667	667
4		15mm	670	670	670	670	670	670	670	670
	11	50mm	672	672	672	672	672	672	672	672
5		20mm	675	675	675	675	675	675	675	675
	12	55mm	677	677	677	677	677	677	677	677
6		25mm	680	680	680	680	680	680	680	680
	13	60mm	682	682	682	682	682	682	682	682
7		30mm	685	685	685	685	685	685	685	685
	14	65mm	687	687	687	687	687	687	687	687
8		35mm	690	690	690	690	690	690	690	690
9		40mm	695	695	695	695	695	695	695	695
10		45mm	700	700	700	700	700	700	700	700
11		50mm	705	705	705	705	705	705	705	705
12		55mm	710	710	710	710	710	710	710	710
13		60mm	715	715	715	715	715	715	715	715
14		65mm	720	720	720	720	720	720	720	720

2. Stack and Reach tables - Tilt 5°

2A. Reach: *select the closest Reach value from the table and note Base bar type and the Reach Pad position.*

Frame	Base bar												
S	Flat	353 [1]	368 [2]	383 [3]	398 [4]	413 [5]	428 [6]	443 [7]	458 [8]				
M	Flat		373 [1]	388 [2]	403 [3]	418 [4]	433 [5]	448 [6]	463 [7]	478 [8]			
L	Flat				400 [1]	415 [2]	430 [3]	445 [4]	460 [5]	475 [6]	490 [7]	505 [8]	
S	Low			388 [1]	403 [2]	418 [3]	433 [4]	448 [5]	463 [6]	478 [7]	493 [8]		
M	Low				408 [1]	423 [2]	438 [3]	453 [4]	468 [5]	483 [6]	498 [7]	513 [8]	
L	Low						435 [1]	450 [2]	465 [3]	480 [4]	495 [5]	510 [6]	525 [7]	540 [8]

2B. Stack: *select the closest Stack value from the different frame size tables using the Base bar type and the Reach Pad position and note the Stack Pad position.*

frame size S

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	543	545	546	547	549	550	551	552
	2	5mm	548	550	551	552	554	555	556	557
	3	10mm	553	555	556	557	559	560	561	562
	4	15mm	558	560	561	562	564	565	566	567
	5	20mm	563	565	566	567	569	570	571	572
	6	25mm	568	570	571	572	574	575	576	577
	7	30mm	573	575	576	577	579	580	581	582
1	0mm		576	577	579	580	581	583	584	585
	8	35mm	578	580	581	582	584	585	586	587
2	5mm		581	582	584	585	586	588	589	590
	9	40mm	583	585	586	587	589	590	591	592
3	10mm		586	587	589	590	591	593	594	595
	10	45mm	588	590	591	592	594	595	596	597
4	15mm		591	592	594	595	596	598	599	600
	11	50mm	593	595	596	597	599	600	601	602
5	20mm		596	597	599	600	601	603	604	605
	12	55mm	598	600	601	602	604	605	606	607
6	25mm		601	602	604	605	606	608	609	610
	13	60mm	603	605	606	607	609	610	611	612
7	30mm		606	607	609	610	611	613	614	615
	14	65mm	608	610	611	612	614	615	616	617
8	35mm		611	612	614	615	616	618	619	620
9	40mm		616	617	619	620	621	623	624	625
10	45mm		621	622	624	625	626	628	629	630
11	50mm		626	627	629	630	631	633	634	635
12	55mm		631	632	634	635	636	638	639	640
13	60mm		636	637	639	640	641	643	644	645
14	65mm		641	642	644	645	646	648	649	650

frame size M

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	571	573	574	575	577	578	579	580
	2	5mm	576	578	579	580	582	583	584	585
	3	10mm	581	583	584	585	587	588	589	590
	4	15mm	586	588	589	590	592	593	594	595
	5	20mm	591	593	594	595	597	598	599	600
	6	25mm	596	598	599	600	602	603	604	605
	7	30mm	601	603	604	605	607	608	609	610
1	0mm		604	605	607	608	609	611	612	613
	8	35mm	606	608	609	610	612	613	614	615
2	5mm		609	610	612	613	614	616	617	618
	9	40mm	611	613	614	615	617	618	619	620
3	10mm		614	615	617	618	619	621	622	623
	10	45mm	616	618	619	620	622	623	624	625
4	15mm		619	620	622	623	624	626	627	628
	11	50mm	621	623	624	625	627	628	629	630
5	20mm		624	625	627	628	629	631	632	633
	12	55mm	626	628	629	630	632	633	634	635
6	25mm		629	630	632	633	634	636	637	638
	13	60mm	631	633	634	635	637	638	639	640
7	30mm		634	635	637	638	639	641	642	643
	14	65mm	636	638	639	640	642	643	644	645
8	35mm		639	640	642	643	644	646	647	648
9	40mm		644	645	647	648	649	651	652	653
10	45mm		649	650	652	653	654	656	657	658
11	50mm		654	655	657	658	659	661	662	663
12	55mm		659	660	662	663	664	666	667	668
13	60mm		664	665	667	668	669	671	672	673
14	65mm		669	670	672	673	674	676	677	678

frame size L

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	613	614	616	617	618	620	621	622
	2	5mm	618	619	621	622	623	625	626	627
	3	10mm	623	624	626	627	628	630	631	632
	4	15mm	628	629	631	632	633	635	636	637
	5	20mm	633	634	636	637	638	640	641	642
	6	25mm	638	639	641	642	643	645	646	647
	7	30mm	643	644	646	647	648	650	651	652
1	0mm		646	647	648	650	651	652	654	655
	8	35mm	648	649	651	652	653	655	656	657
2	5mm		651	652	653	655	656	657	659	660
	9	40mm	653	654	656	657	658	660	661	662
3	10mm		656	657	658	660	661	662	664	665
	10	45mm	658	659	661	662	663	665	666	667
4	15mm		661	662	663	665	666	667	669	670
	11	50mm	663	664	666	667	668	670	671	672
5	20mm		666	667	668	670	671	672	674	675
	12	55mm	668	669	671	672	673	675	676	677
6	25mm		671	672	673	675	676	677	679	680
	13	60mm	673	674	676	677	678	680	681	682
7	30mm		676	677	678	680	681	682	684	685
	14	65mm	678	679	681	682	683	685	686	687
8	35mm		681	682	683	685	686	687	689	690
9	40mm		686	687	688	690	691	692	694	695
10	45mm		691	692	693	695	696	697	699	700
11	50mm		696	697	698	700	701	702	704	705
12	55mm		701	702	703	705	706	707	709	710
13	60mm		706	707	708	710	711	712	714	715
14	65mm		711	712	713	715	716	717	719	720

2. Stack and Reach tables - Tilt 10°

2A. Reach: *select the closest Reach value from the table and note Base bar type and the Reach Pad position.*

Frame	Base bar													
S	Flat	348 [1]	363 [2]	378 [3]	393 [4]	407 [5]	422 [6]	437 [7]	452 [8]					
M	Flat		368 [1]	383 [2]	398 [3]	413 [4]	427 [5]	442 [6]	457 [7]	472 [8]				
L	Flat				395 [1]	410 [2]	425 [3]	440 [4]	454 [5]	469 [6]	484 [7]	499 [8]		
S	Low			383 [1]	398 [2]	413 [3]	428 [4]	442 [5]	457 [6]	472 [7]	487 [8]			
M	Low				403 [1]	418 [2]	433 [3]	448 [4]	462 [5]	477 [6]	492 [7]	507 [8]		
L	Low						430 [1]	445 [2]	460 [3]	475 [4]	489 [5]	504 [6]	519 [7]	534 [8]

2B. Stack: *select the closest Stack value from the different frame size tables using the Base bar type and the Reach Pad position and note the Stack Pad position.*

frame size S

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	534	537	539	542	545	547	550	552
	2	5mm	539	542	544	547	550	552	555	557
	3	10mm	544	547	549	552	555	557	560	562
	4	15mm	549	552	554	557	560	562	565	567
	5	20mm	554	557	559	562	565	567	570	572
	6	25mm	559	562	564	567	570	572	575	577
	7	30mm	564	567	569	572	575	577	580	582
1		0mm	567	570	572	575	577	580	583	585
	8	35mm	569	572	574	577	580	582	585	587
2		5mm	572	575	577	580	582	585	588	590
	9	40mm	574	577	579	582	585	587	590	592
3		10mm	577	580	582	585	587	590	593	595
	10	45mm	579	582	584	587	590	592	595	597
4		15mm	582	585	587	590	592	595	598	600
	11	50mm	584	587	589	592	595	597	600	602
5		20mm	587	590	592	595	597	600	603	605
	12	55mm	589	592	594	597	600	602	605	607
6		25mm	592	595	597	600	602	605	608	610
	13	60mm	594	597	599	602	605	607	610	612
7		30mm	597	600	602	605	607	610	613	615
	14	65mm	599	602	604	607	610	612	615	617
8		35mm	602	605	607	610	612	615	618	620
9		40mm	607	610	612	615	617	620	623	625
10		45mm	612	615	617	620	622	625	628	630
11		50mm	617	620	622	625	627	630	633	635
12		55mm	622	625	627	630	632	635	638	640
13		60mm	627	630	632	635	637	640	643	645
14		65mm	632	635	637	640	642	645	648	650

frame size M

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	562	565	567	570	573	575	578	580
	2	5mm	567	570	572	575	578	580	583	585
	3	10mm	572	575	577	580	583	585	588	590
	4	15mm	577	580	582	585	588	590	593	595
	5	20mm	582	585	587	590	593	595	598	600
	6	25mm	587	590	592	595	598	600	603	605
	7	30mm	592	595	597	600	603	605	608	610
1		0mm	595	598	600	603	605	608	611	613
	8	35mm	597	600	602	605	608	610	613	615
2		5mm	600	603	605	608	610	613	616	618
	9	40mm	602	605	607	610	613	615	618	620
3		10mm	605	608	610	613	615	618	621	623
	10	45mm	607	610	612	615	618	620	623	625
4		15mm	610	613	615	618	620	623	626	628
	11	50mm	612	615	617	620	623	625	628	630
5		20mm	615	618	620	623	625	628	631	633
	12	55mm	617	620	622	625	628	630	633	635
6		25mm	620	623	625	628	630	633	636	638
	13	60mm	622	625	627	630	633	635	638	640
7		30mm	625	628	630	633	635	638	641	643
	14	65mm	627	630	632	635	638	640	643	645
8		35mm	630	633	635	638	640	643	646	648
9		40mm	635	638	640	643	645	648	651	653
10		45mm	640	643	645	648	650	653	656	658
11		50mm	645	648	650	653	655	658	661	663
12		55mm	650	653	655	658	660	663	666	668
13		60mm	655	658	660	663	665	668	671	673
14		65mm	660	663	665	668	670	673	676	678

frame size L

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	604	607	609	612	614	617	620	622
	2	5mm	609	612	614	617	619	622	625	627
	3	10mm	614	617	619	622	624	627	630	632
	4	15mm	619	622	624	627	629	632	635	637
	5	20mm	624	627	629	632	634	637	640	642
	6	25mm	629	632	634	637	639	642	645	647
	7	30mm	634	637	639	642	644	647	650	652
1		0mm	637	639	642	645	647	650	652	655
	8	35mm	639	642	644	647	649	652	655	657
2		5mm	642	644	647	650	652	655	657	660
	9	40mm	644	647	649	652	654	657	660	662
3		10mm	647	649	652	655	657	660	662	665
	10	45mm	649	652	654	657	659	662	665	667
4		15mm	652	654	657	660	662	665	667	670
	11	50mm	654	657	659	662	664	667	670	672
5		20mm	657	659	662	665	667	670	672	675
	12	55mm	659	662	664	667	669	672	675	677
6		25mm	662	664	667	670	672	675	677	680
	13	60mm	664	667	669	672	674	677	680	682
7		30mm	667	669	672	675	677	680	682	685
	14	65mm	669	672	674	677	679	682	685	687
8		35mm	672	674	677	680	682	685	687	690
9		40mm	677	679	682	685	687	690	692	695
10		45mm	682	684	687	690	692	695	697	700
11		50mm	687	689	692	695	697	700	702	705
12		55mm	692	694	697	700	702	705	707	710
13		60mm	697	699	702	705	707	710	712	715
14		65mm	702	704	707	710	712	715	717	720

2. Stack and Reach tables - Tilt 15°

2A. Reach: *select the closest Reach value from the table and note Base bar type and the Reach Pad position.*

Frame	Base bar														
S	Flat	345 [1]	359 [2]	374 [3]	388 [4]	403 [5]	417 [6]	432 [7]	446 [8]						
M	Flat		365 [1]	379 [2]	394 [3]	408 [4]	423 [5]	437 [6]	452 [7]	466 [8]					
L	Flat				392 [1]	406 [2]	421 [3]	435 [4]	450 [5]	464 [6]	479 [7]	493 [8]			
S	Low			380 [1]	394 [2]	409 [3]	423 [4]	438 [5]	452 [6]	467 [7]	481 [8]				
M	Low				400 [1]	414 [2]	429 [3]	443 [4]	458 [5]	472 [6]	487 [7]	501 [8]			
L	Low						427 [1]	441 [2]	456 [3]	470 [4]	485 [5]	499 [6]	514 [7]	528 [8]	

2B. Stack: *select the closest Stack value from the different frame size tables using the Base bar type and the Reach Pad position and note the Stack Pad position.*

frame size S

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	525	529	533	537	541	545	549	552
	2	5mm	530	534	538	542	546	550	554	557
	3	10mm	535	539	543	547	551	555	559	562
	4	15mm	540	544	548	552	556	560	564	567
	5	20mm	545	549	553	557	561	565	569	572
	6	25mm	550	554	558	562	566	570	574	577
	7	30mm	555	559	563	567	571	575	579	582
1	0mm		558	562	566	570	574	577	581	585
	8	35mm	560	564	568	572	576	580	584	587
2	5mm		563	567	571	575	579	582	586	590
	9	40mm	565	569	573	577	581	585	589	592
3	10mm		568	572	576	580	584	587	591	595
	10	45mm	570	574	578	582	586	590	594	597
4	15mm		573	577	581	585	589	592	596	600
	11	50mm	575	579	583	587	591	595	599	602
5	20mm		578	582	586	590	594	597	601	605
	12	55mm	580	584	588	592	596	600	604	607
6	25mm		583	587	591	595	599	602	606	610
	13	60mm	585	589	593	597	601	605	609	612
7	30mm		588	592	596	600	604	607	611	615
	14	65mm	590	594	598	602	606	610	614	617
8	35mm		593	597	601	605	609	612	616	620
9	40mm		598	602	606	610	614	617	621	625
10	45mm		603	607	611	615	619	622	626	630
11	50mm		608	612	616	620	624	627	631	635
12	55mm		613	617	621	625	629	632	636	640
13	60mm		618	622	626	630	634	637	641	645
14	65mm		623	627	631	635	639	642	646	650

frame size M

Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	553	557	561	565	569	573	577	580
	2	5mm	558	562	566	570	574	578	582	585
	3	10mm	563	567	571	575	579	583	587	590
	4	15mm	568	572	576	580	584	588	592	595
	5	20mm	573	577	581	585	589	593	597	600
	6	25mm	578	582	586	590	594	598	602	605
	7	30mm	583	587	591	595	599	603	607	610
1	0mm		586	590	594	598	602	605	609	613
	8	35mm	588	592	596	600	604	608	612	615
2	5mm		591	595	599	603	607	610	614	618
	9	40mm	593	597	601	605	609	613	617	620
3	10mm		596	600	604	608	612	615	619	623
	10	45mm	598	602	606	610	614	618	622	625
4	15mm		601	605	609	613	617	620	624	628
	11	50mm	603	607	611	615	619	623	627	630
5	20mm		606	610	614	618	622	625	629	633
	12	55mm	608	612	616	620	624	628	632	635
6	25mm		611	615	619	623	627	630	634	638
	13	60mm	613	617	621	625	629	633	637	640
7	30mm		616	620	624	628	632	635	639	643
	14	65mm	618	622	626	630	634	638	642	645
8	35mm		621	625	629	633	637	640	644	648
9	40mm		626	630	634	638	642	645	649	653
10	45mm		631	635	639	643	647	650	654	658
11	50mm		636	640	644	648	652	655	659	663
12	55mm		641	645	649	653	657	660	664	668
13	60mm		646	650	654	658	662	665	669	673
14	65mm		651	655	659	663	667	670	674	678

frame size L

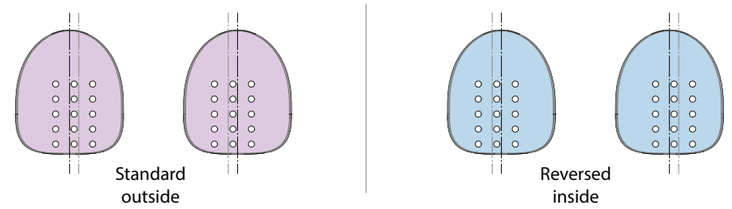
Flat	Low	Stack Pad position	Reach Pad position 1 (0mm)	2 (15mm)	3 (30mm)	4 (45mm)	5 (60mm)	6 (75mm)	7 (90mm)	8 (105mm)
	1	0mm	595	599	603	607	611	614	618	622
	2	5mm	600	604	608	612	616	619	623	627
	3	10mm	605	609	613	617	621	624	628	632
	4	15mm	610	614	618	622	626	629	633	637
	5	20mm	615	619	623	627	631	634	638	642
	6	25mm	620	624	628	632	636	639	643	647
	7	30mm	625	629	633	637	641	644	648	652
1	0mm		628	632	636	639	643	647	651	655
	8	35mm	630	634	638	642	646	649	653	657
2	5mm		633	637	641	644	648	652	656	660
	9	40mm	635	639	643	647	651	654	658	662
3	10mm		638	642	646	649	653	657	661	665
	10	45mm	640	644	648	652	656	659	663	667
4	15mm		643	647	651	654	658	662	666	670
	11	50mm	645	649	653	657	661	664	668	672
5	20mm		648	652	656	659	663	667	671	675
	12	55mm	650	654	658	662	666	669	673	677
6	25mm		653	657	661	664	668	672	676	680
	13	60mm	655	659	663	667	671	674	678	682
7	30mm		658	662	666	669	673	677	681	685
	14	65mm	660	664	668	672	676	679	683	687
8	35mm		663	667	671	674	678	682	686	690
9	40mm		668	672	676	679	683	687	691	695
10	45mm		673	677	681	684	688	692	696	700
11	50mm		678	682	686	689	693	697	701	705
12	55mm		683	687	691	694	698	702	706	710
13	60mm		688	692	696	699	703	707	711	715
14	65mm		693	697	701	704	708	712	716	720

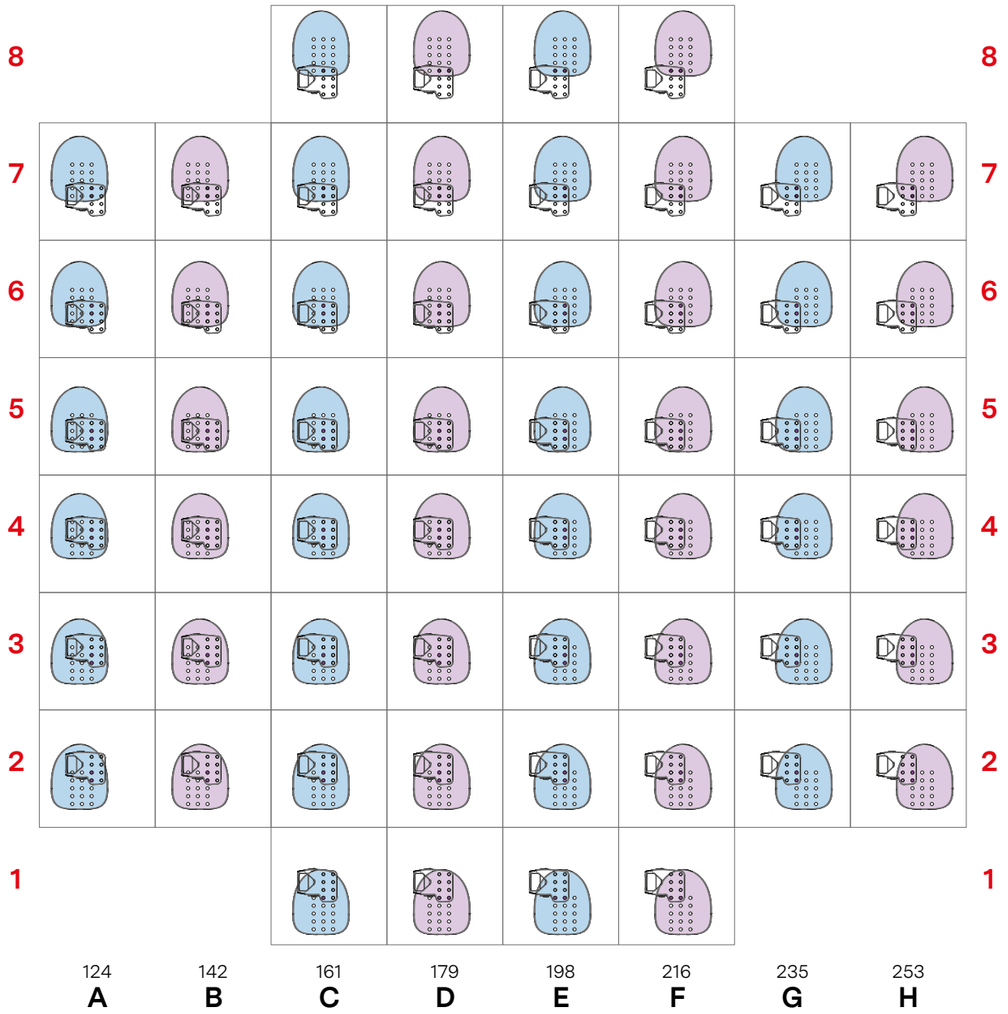
3. Width and final armrest pads positions

To determine the armrest final setup and bolts positions, identify in the illustration bellow the right combinaison of:

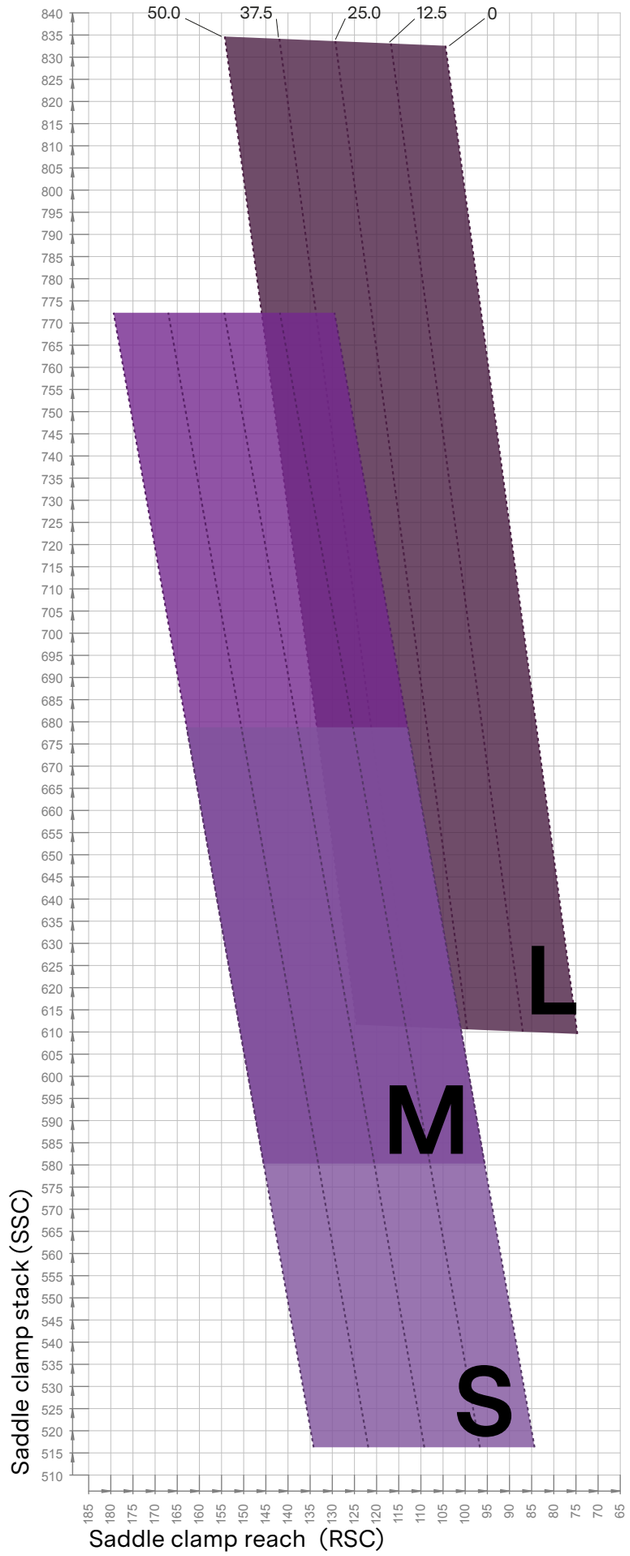
- *Reach Pad position* here in red.
- Armrest Width value (WAR) here in black.

You could invert left and right armrests to tune the armrest width.



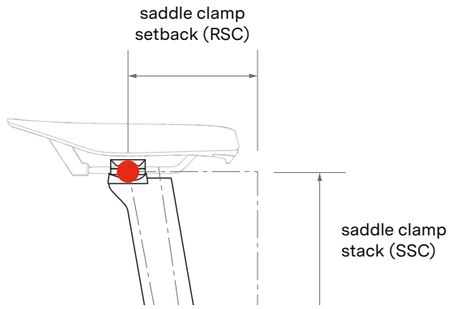


4. Seat post hardware position



To determine the right position of the saddle clamp (seatpost hardware), you need to know SSC and RSC.

Place the SSC and RSC values in the chart. The point thus created will fall into a colored zone and near a doted line.



- The color code will confirm the frame size saddle height adjustment (from bottom bracket to saddle clamp)
- The dotted line will guide you for the offset selection.

⚠ WARNING: Saddles are all different and this chart gives you a general information. Please double check your saddle adjustment on the final bike.

ⓘ INFORMATION: The Speedmachine is delivered with a seatpost providing 0, 12.5 and 25mm offsets. If you need either 37.5 or 50mm offset, an optional seatpost is available in our after-market program.

Notes

Notes

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