

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

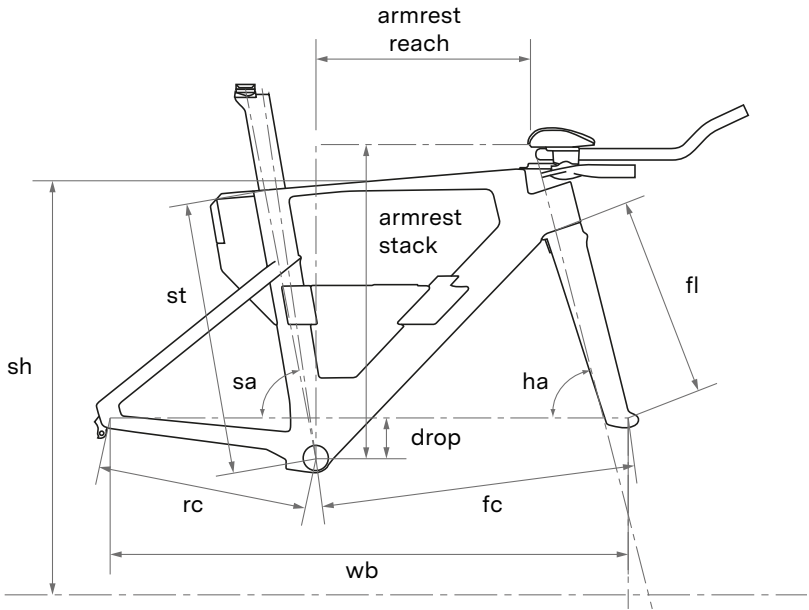
A bicycle rider will only perform at his best if he is correctly positioned on his bike, especially for triathlon and time trial competitions.

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, arm-rest 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.

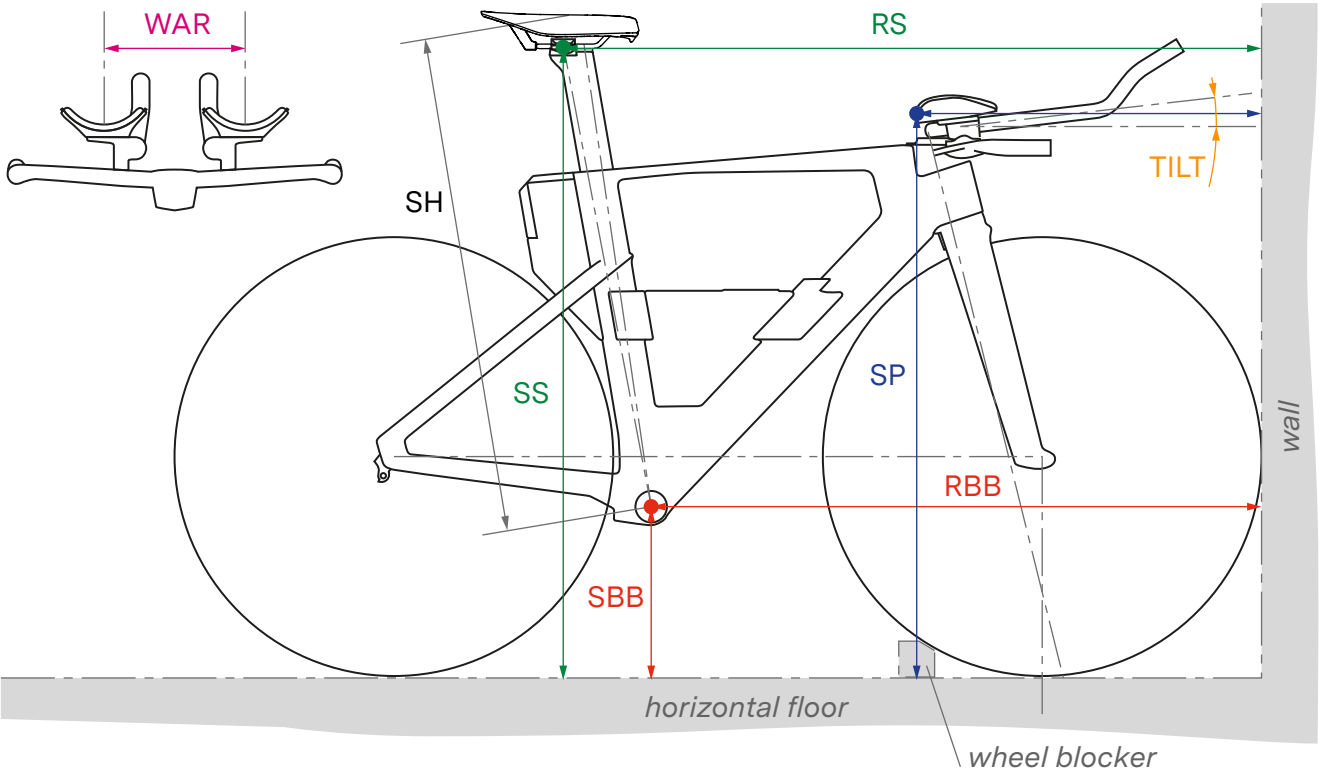
INFORMATION: This sizing method do not integrate the tilt adjustment offered by the Profile Design Aeria. We are starting with a “0° setup” and the tilt adjustment can be applied later.

		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.

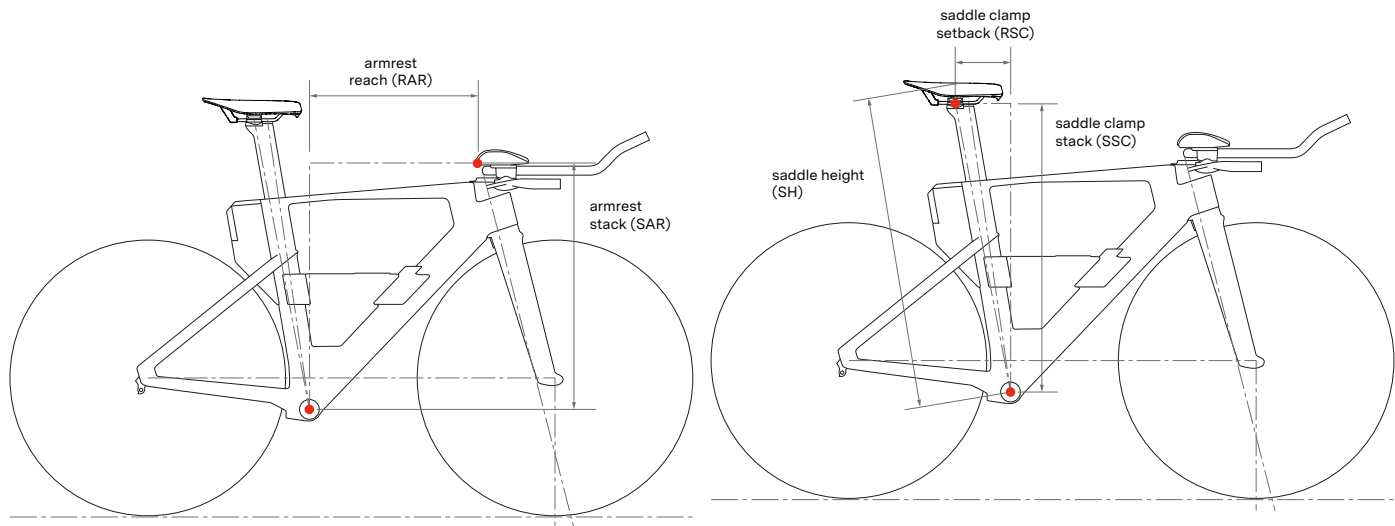
Values for Pad Stack and Reach include the cushion.

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		Measured distance		Final measurements	
	Contact Point		Bottom Bracket			
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

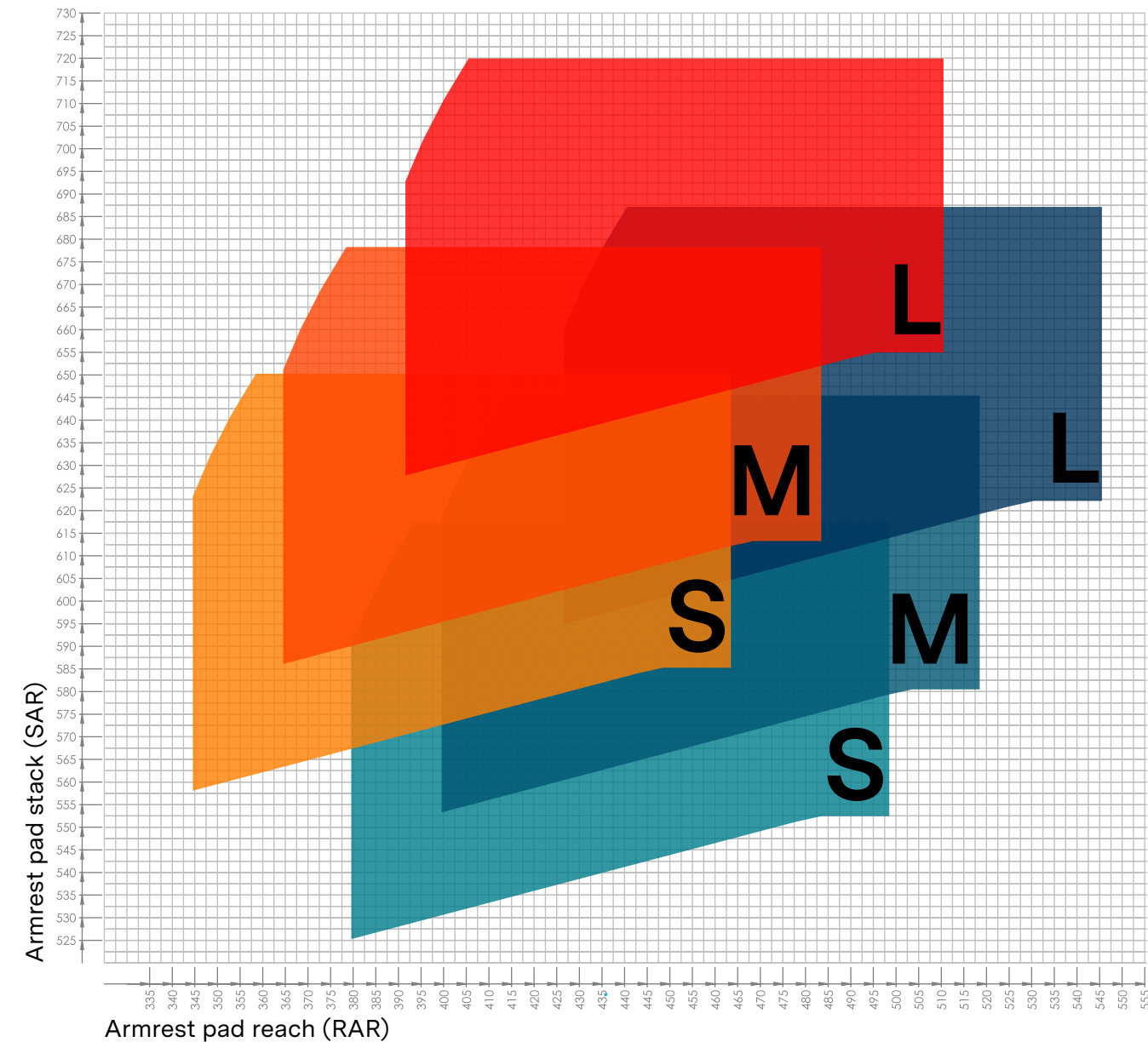
As the Speedmachine Base bar complies with Profile Design Aeria 3 interface, you could opt for a full customized solution.

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.swisside.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		Reach Pad position							
Flat	Low	1	2	3	4	5	6	7	8
Stack Pad position		0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm
1	0mm	552	552	552	552	552	552	552	552
	5mm	557	557	557	557	557	557	557	557
	10mm	562	562	562	562	562	562	562	562
	15mm	567	567	567	567	567	567	567	567
	20mm	572	572	572	572	572	572	572	572
	25mm	577	577	577	577	577	577	577	577
	30mm	582	582	582	582	582	582	582	582
	35mm	587	587	587	587	587	587	587	587
	40mm	592	592	592	592	592	592	592	592
	45mm	595	595	595	595	595	595	595	595
	50mm	597	597	597	597	597	597	597	597
	55mm	602	602	602	602	602	602	602	602
	60mm	605	605	605	605	605	605	605	605
	65mm	607	607	607	607	607	607	607	607
2	0mm	610	610	610	610	610	610	610	610
	5mm	612	612	612	612	612	612	612	612
	10mm	615	615	615	615	615	615	615	615
	15mm	617	617	617	617	617	617	617	617
	20mm	620	620	620	620	620	620	620	620
	25mm	625	625	625	625	625	625	625	625
	30mm	630	630	630	630	630	630	630	630
	35mm	635	635	635	635	635	635	635	635
	40mm	640	640	640	640	640	640	640	640
	45mm	645	645	645	645	645	645	645	645
	50mm	650	650	650	650	650	650	650	650
	55mm	655	655	655	655	655	655	655	655
	60mm	660	660	660	660	660	660	660	660
	65mm	662	662	662	662	662	662	662	662
3	0mm	665	665	665	665	665	665	665	665
	5mm	667	667	667	667	667	667	667	667
	10mm	670	670	670	670	670	670	670	670
	15mm	672	672	672	672	672	672	672	672
	20mm	675	675	675	675	675	675	675	675
	25mm	677	677	677	677	677	677	677	677
	30mm	680	680	680	680	680	680	680	680
	35mm	682	682	682	682	682	682	682	682
	40mm	685	685	685	685	685	685	685	685
	45mm	687	687	687	687	687	687	687	687
	50mm	690	690	690	690	690	690	690	690
	55mm	695	695	695	695	695	695	695	695
	60mm	700	700	700	700	700	700	700	700
	65mm	705	705	705	705	705	705	705	705
4	0mm	710	710	710	710	710	710	710	710
	5mm	715	715	715	715	715	715	715	715
	10mm	720	720	720	720	720	720	720	720
	15mm	725	725	725	725	725	725	725	725
	20mm	730	730	730	730	730	730	730	730
	25mm	735	735	735	735	735	735	735	735
	30mm	740	740	740	740	740	740	740	740
	35mm	745	745	745	745	745	745	745	745
	40mm	750	750	750	750	750	750	750	750
	45mm	755	755	755	755	755	755	755	755
	50mm	760	760	760	760	760	760	760	760
	55mm	765	765	765	765	765	765	765	765
	60mm	770	770	770	770	770	770	770	770
	65mm	775	775	775	775	775	775	775	775
5	0mm	780	780	780	780	780	780	780	780
	5mm	785	785	785	785	785	785	785	785
	10mm	790	790	790	790	790	790	790	790
	15mm	795	795	795	795	795	795	795	795
	20mm	800	800	800	800	800	800	800	800
	25mm	805	805	805	805	805	805	805	805
	30mm	810	810	810	810	810	810	810	810
	35mm	815	815	815	815	815	815	815	815
	40mm	820	820	820	820	820	820	820	820
	45mm	825	825	825	825	825	825	825	825
	50mm	830	830	830	830	830	830	830	830
	55mm	835	835	835	835	835	835	835	835
	60mm	840	840	840	840	840	840	840	840
	65mm	845	845	845	845	845	845	845	845
6	0mm	850	850	850	850	850	850	850	850
	5mm	855	855	855	855	855	855	855	855
	10mm	860	860	860	860	860	860	860	860
	15mm	865	865	865	865	865	865	865	865
	20mm	870	870	870	870	870	870	870	870
	25mm	875	875	875	875	875	875	875	875
	30mm	880	880	880	880	880	880	880	880
	35mm	885	885	885	885	885	885	885	885
	40mm	890	890	890	890	890	890	890	890
	45mm	895	895	895	895	895	895	895	895
	50mm	900	900	900	900	900	900	900	900
	55mm	905	905	905	905	905	905	905	905
	60mm	910	910	910	910	910	910	910	910
	65mm	915	915	915	915	915	915	915	915
7	0mm	920	920	920	920	920	920	920	920
	5mm	925	925	925	925	925	925	925	925
	10mm	930	930	930	930	930	930	930	930
	15mm	935	935	935	935	935	935	935	935
	20mm	940	940	940	940	940	940	940	940
	25mm	945	945	945	945	945	945	945	945
	30mm	950	950	950	950	950	950	950	950
	35mm	955	955	955	955	955	955	955	955
	40mm	960	960	960	960	960	960	960	960
	45mm	965	965	965	965	965	965	965	965
	50mm	970	970	970	970	970	970	970	970
	55mm	975	975	975	975	975	975	975	975
	60mm	980	980	980	980	980	980	980	980
	65mm	985	985	985	985	985	985	985	985
8	0mm	990	990	990	990	990	990	990	990
	5mm	995	995	995	995	995	995	995	995
	10mm	1000	1000	1000	1000	1000	1000	1000	1000
	15mm	1005	1005	1005	1005	1005	1005	1005	1005
	20mm	1010	1010	1010	1010	1010	1010	1010	1010
	25mm	1015	1015	1015	1015	1015	1015	1015	1015
	30mm	1020	1020	1020	1020	1020	1020	1020	1020
	35mm	1025	1025	1025	1025	1025	1025	1025	1025
	40mm	1030	1030	1030	1030	1030	1030	1030	1030
	45mm	1035	1035	1035	1035	1035	1035	1035	1035
	50mm	1040	1040	1040	1040	1040	1040	1040	1040
	55mm	1045	1045	1045	1045	1045	1045	1045	1045
	60mm	1050	1050	1050	1050	1050	1050	1050	1050
	65mm	1055	1055	1055	1055	1055	1055	1055	1055

frame size M			Reach Pad position								
Flat	Low		1	2	3	4	5	6	7	8	
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm	
1		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
	0mm		8	35mm	613	613	613	613	613	613	613
			9	40mm	615	615	615	615	615	615	615
	5mm		10	45mm	618	618	618	618	618	618	618
			11	50mm	620	620	620	620	620	620	620
	10mm		12	55mm	623	623	623	623	623	623	623
			13	60mm	625	625	625	625	625	625	625
	15mm		14	65mm	628	628	628	628	628	628	628
2				630	630	630	630	630	630	630	630
				633	633	633	633	633	633	633	633
				635	635	635	635	635	635	635	635
				638	638	638	638	638	638	638	638
				640	640	640	640	640	640	640	640
				643	643	643	643	643	643	643	643
				645	645	645	645	645	645	645	645
				648	648	648	648	648	648	648	648
				653	653	653	653	653	653	653	653
				658	658	658	658	658	658	658	658
				663	663	663	663	663	663	663	663
				668	668	668	668	668	668	668	668
				673	673	673	673	673	673	673	673
				678	678	678	678	678	678	678	678

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		Reach Pad position									
Flat	Low	1	2	3	4	5	6	7	8		
Stack Pad position		0mm	15mm	30mm	45mm	60mm	75mm	90mm	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			Reach Pad position								
Flat		Low	1	2	3	4	5	6	7	8	
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm	
1	0mm	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
	5mm	8	35mm	604	605	607	608	609	611	612	613
		9	40mm	606	608	609	610	612	613	614	615
	10mm	10	45mm	609	610	612	613	614	616	617	618
		11	50mm	611	613	614	615	617	618	619	620
	15mm	12	55mm	614	615	617	618	619	621	622	623
		13	60mm	616	618	619	620	622	623	624	625
	20mm	14	65mm	619	620	622	623	624	626	627	628
			621	623	624	625	627	628	629	630	
25mm			624	625	627	628	629	631	632	633	
			626	628	629	630	632	633	634	635	
30mm			629	630	632	633	634	636	637	638	
			631	633	634	635	637	638	639	640	
35mm			634	635	637	638	639	641	642	643	
			636	638	639	640	642	643	644	645	
40mm			639	640	642	643	644	646	647	648	
			644	645	647	648	649	651	652	653	
45mm			649	650	652	653	654	656	657	658	
			654	655	657	658	659	661	662	663	
50mm			659	660	662	663	664	666	667	668	
			664	665	667	668	669	671	672	673	
55mm			669	670	672	673	674	676	677	678	
60mm											
65mm											

frame size L			Reach Pad position												
Flat		Low	1	2	3	4	5	6	7	8					
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm					
1	0mm	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				
	8	35mm	646	647	648	650	651	652	654	655					
		648	649	651	652	653	655	656	657						
		5mm	9	40mm	651	652	653	655	656	657	659	660			
			653	654	656	657	658	660	661	662					
			10mm	10	45mm	656	657	658	660	661	662	664	665		
				658	659	661	662	663	665	666	667				
				15mm	11	50mm	661	662	663	665	666	667	669	670	
663	664				666	667	668	670	671	672					
20mm	12				55mm	666	667	668	670	671	672	674	675		
	668	669			671	672	673	675	676	677					
	25mm	13			60mm	671	672	673	675	676	677	679	680		
		673	674		676	677	678	680	681	682					
		30mm	14		65mm	676	677	678	680	681	682	684	685		
			678	679	681	682	683	685	686	687					
			35mm	681	682	683	685	686	687	689	690				
40mm				686	687	688	690	691	692	694	695				
				45mm	691	692	693	695	696	697	699	700			
	50mm				696	697	698	700	701	702	704	705			
					55mm	701	702	703	705	706	707	709	710		
		60mm				706	707	708	710	711	712	714	715		
						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		Reach Pad position									
Flat	Low	1	2	3	4	5	6	7	8		
Stack Pad position		0mm	15mm	30mm	45mm	60mm	75mm	90mm	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			Reach Pad position								
Flat	Low		1	2	3	4	5	6	7	8	
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm	
1		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
		8	35mm	595	598	600	603	605	608	611	613
		9	40mm	597	600	602	605	608	610	613	615
		10	45mm	600	603	605	608	610	613	616	618
		11	50mm	602	605	607	610	613	615	618	620
		12	55mm	605	608	610	613	615	618	621	623
		13	60mm	607	610	612	615	618	620	623	625
		14	65mm	610	613	615	618	620	623	626	628
2	5mm		612	615	617	620	623	625	628	630	
3	10mm		615	618	620	623	625	628	631	633	
4	15mm		617	620	622	625	628	630	633	635	
5	20mm		620	623	625	628	630	633	636	638	
6	25mm		622	625	627	630	633	635	638	640	
7	30mm		625	628	630	633	635	638	641	643	
8	35mm		627	630	632	635	638	640	643	645	
9	40mm		630	633	635	638	640	643	646	648	
10	45mm		635	638	640	643	645	648	651	653	
11	50mm		640	643	645	648	650	653	656	658	
12	55mm		645	648	650	653	655	658	661	663	
13	60mm		650	653	655	658	660	663	666	668	
14	65mm		655	658	660	663	665	668	671	673	
			660	663	665	668	670	673	676	678	

frame size L			Reach Pad position								
Flat		Low	1	2	3	4	5	6	7	8	
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm	
1	0mm	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
	5mm	8	35mm	637	639	642	645	647	650	652	655
		9	40mm	639	642	644	647	649	652	655	657
		10	45mm	642	644	647	650	652	655	657	660
		11	50mm	644	647	649	652	654	657	660	662
		12	55mm	647	649	652	655	657	660	662	665
		13	60mm	649	652	654	657	659	662	665	667
		14	65mm	652	654	657	660	662	665	667	670
10mm	15	70mm	654	657	659	662	664	667	670	672	
	16	75mm	657	659	662	665	667	670	672	675	
	17	80mm	659	662	664	667	669	672	675	677	
	18	85mm	662	664	667	670	672	675	677	680	
	19	90mm	664	667	669	672	674	677	680	682	
	20	95mm	667	669	672	675	677	680	682	685	
	21	100mm	669	672	674	677	679	682	685	687	
15mm	22	105mm	672	674	677	680	682	685	687	690	
	23	110mm	677	679	682	685	687	690	692	695	
	24	115mm	682	684	687	690	692	695	697	700	
	25	120mm	687	689	692	695	697	700	702	705	
	26	125mm	692	694	697	700	702	705	707	710	
	27	130mm	697	699	702	705	707	710	712	715	
	28	135mm	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		Reach Pad position											
Flat	Low	1	2	3	4	5	6	7	8				
Stack Pad position		0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm				
1		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		
	0mm		8	558	562	566	570	574	577	581	585		
		8	35mm	560	564	568	572	576	580	584	587		
	5mm		9	563	567	571	575	579	582	586	590		
		9	40mm	565	569	573	577	581	585	589	592		
	10mm		10	568	572	576	580	584	587	591	595		
		10	45mm	570	574	578	582	586	590	594	597		
	15mm		11	573	577	581	585	589	592	596	600		
2		11	50mm	575	579	583	587	591	595	599	602		
		12	55mm	578	582	586	590	594	597	601	605		
		12	55mm	580	584	588	592	596	600	604	607		
		13	60mm	583	587	591	595	599	602	606	610		
		14	65mm	585	589	593	597	601	605	609	612		
	30mm			588	592	596	600	604	607	611	615		
				590	594	598	602	606	610	614	617		
	35mm			593	597	601	605	609	612	616	620		
	40mm			598	602	606	610	614	617	621	625		
	45mm			603	607	611	615	619	622	626	630		
	50mm			608	612	616	620	624	627	631	635		
	55mm			613	617	621	625	629	632	636	640		
	60mm			618	622	626	630	634	637	641	645		
	65mm			623	627	631	635	639	642	646	650		

frame size M			Reach Pad position										
Flat		Low	1	2	3	4	5	6	7	8			
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm			
1	0mm	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		
	5mm	8	35mm	586	590	594	598	602	605	609	613		
		8	35mm	588	592	596	600	604	608	612	615		
		9	40mm	9	40mm	591	595	599	603	607	610	614	618
				9	40mm	593	597	601	605	609	613	617	620
		10	45mm	10	45mm	596	600	604	608	612	615	619	623
				10	45mm	598	602	606	610	614	618	622	625
		11	50mm	11	50mm	601	605	609	613	617	620	624	628
11	50mm			603	607	611	615	619	623	627	630		
5	20mm	12	55mm	12	55mm	606	610	614	618	622	625	629	633
				12	55mm	608	612	616	620	624	628	632	635
6	25mm	13	60mm	13	60mm	611	615	619	623	627	630	634	638
				13	60mm	613	617	621	625	629	633	637	640
7	30mm	14	65mm	14	65mm	616	620	624	628	632	635	639	643
				14	65mm	618	622	626	630	634	638	642	645
8	35mm	15	70mm	15	70mm	621	625	629	633	637	640	644	648
				15	70mm	626	630	634	638	642	645	649	653
10	45mm	16	75mm	16	75mm	631	635	639	643	647	650	654	658
				16	75mm	636	640	644	648	652	655	659	663
11	50mm	17	80mm	17	80mm	641	645	649	653	657	660	664	668
				17	80mm	646	650	654	658	662	665	669	673
12	55mm	18	85mm	18	85mm	646	650	654	658	662	665	669	673
				18	85mm	651	655	659	663	667	670	674	678

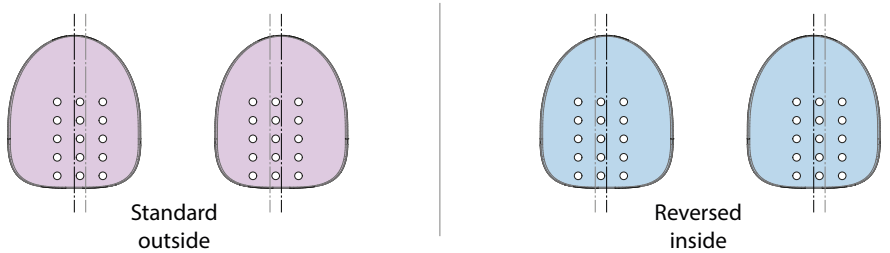
frame size L			Reach Pad position								
Flat	Low		1	2	3	4	5	6	7	8	
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm	
1		1	0mm	595	599	603	607	611	614	618	622
		2	5mm	600	604	608	612	616	619	623	627
		3	10mm	605	609	613	617	621	624	628	632
		4	15mm	610	614	618	622	626	629	633	637
		5	20mm	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
	0mm		8	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
5		11	50mm	645	649	653	657	661	664	668	672
		12	55mm	648	652	656	659	663	667	671	675
	6	25mm		650	654	658	662	666	669	673	677
		13	60mm	653	657	661	664	668	672	676	680
				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:

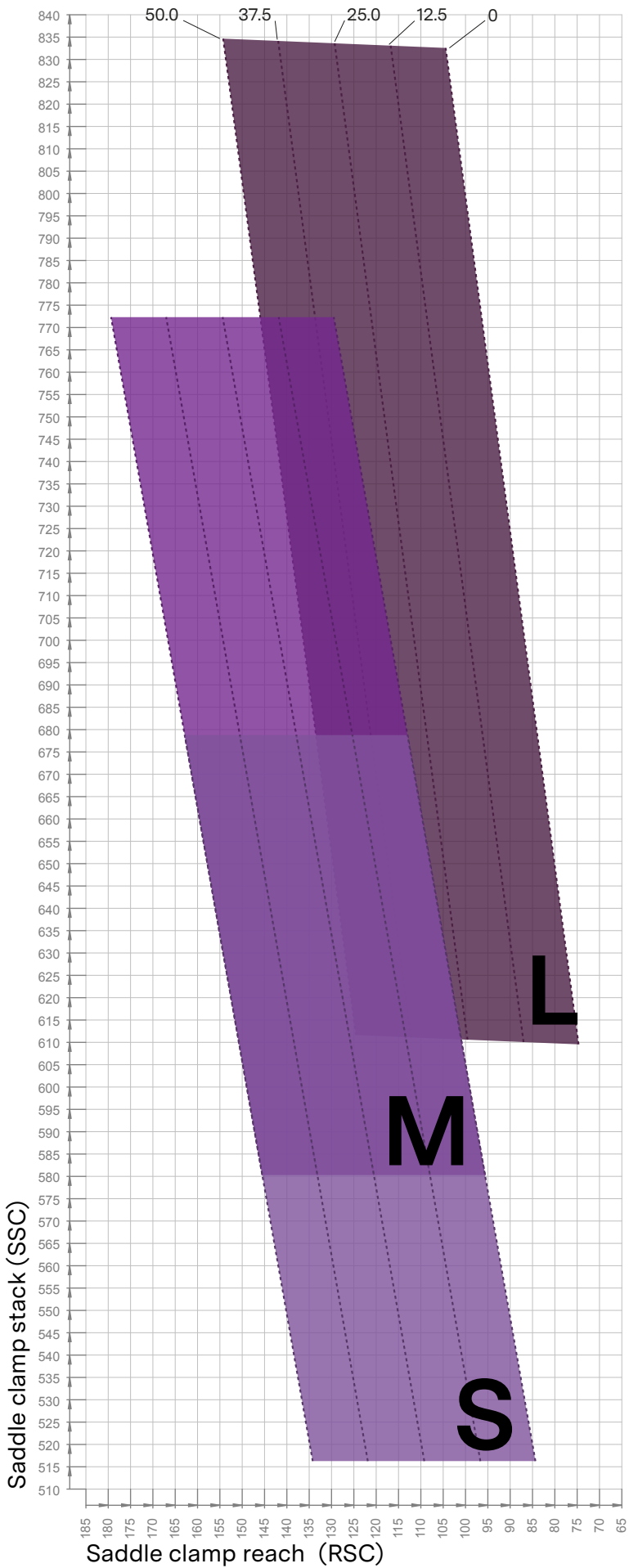
- *Reach Pad position* here in red.
- Armrest Width value (WAR) here in black.

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



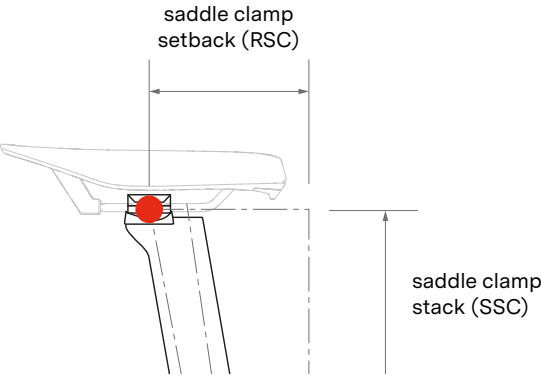
8							8		
7									7
6									6
5									5
4									4
3									3
2									2
1							1		
	124 A	142 B	161 C	179 D	198 E	216 F	235 G	253 H	

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 dotted 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.

ℹ 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

