

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

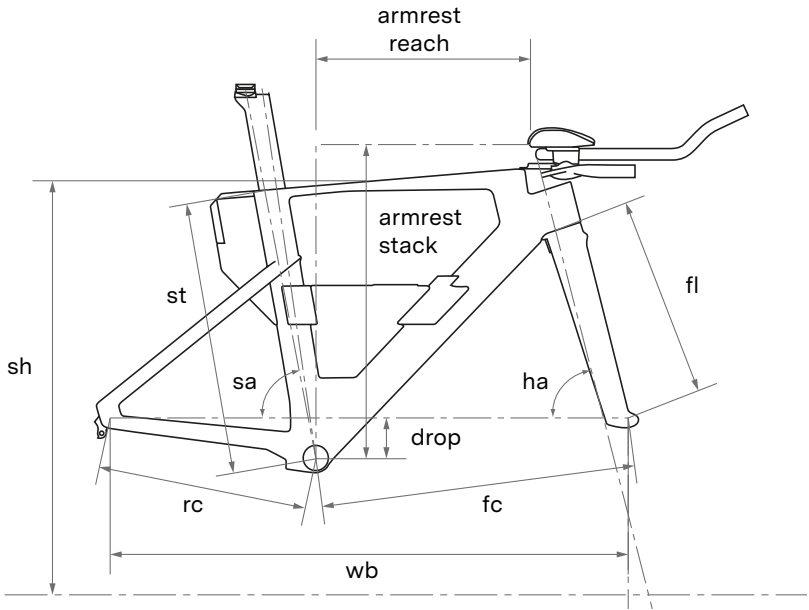
A bicycle rider will only perform at his best if he is correctly positioned on his bike, especially for triathlon and time trial competitions.

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.

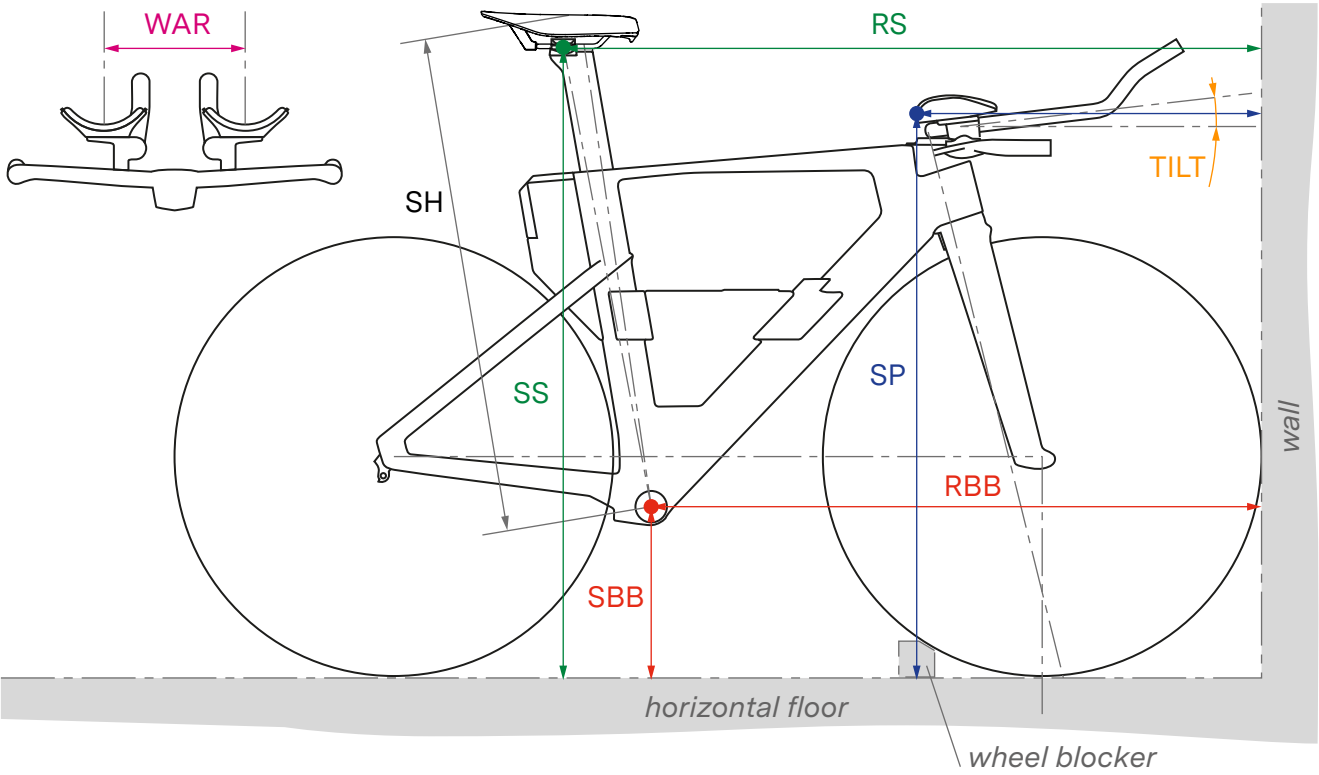
INFORMATION: This sizing method do not integrate the tilt adjustment offered by the Profile Design Aeria. We are starting with a “0° setup” and the tilt adjustment can be applied later.

		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.

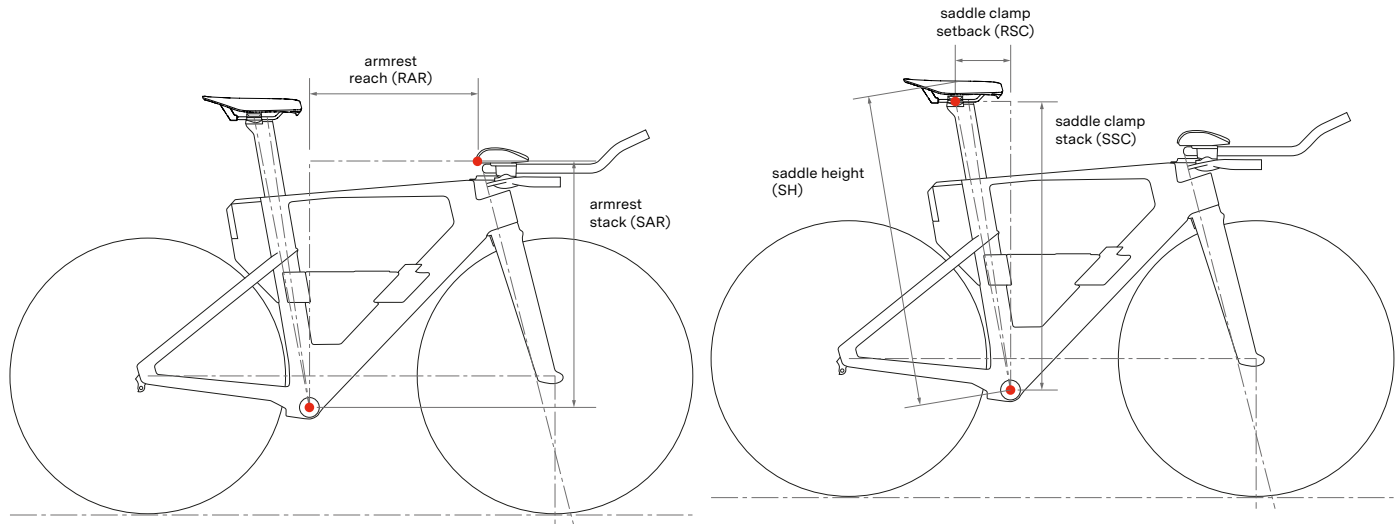
Values for Pad Stack and Reach include the cushion.

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 43ASC-340 43ASC-400 50SLC 35SLC 43SLC 4525SLC 52a 39a 26a	Description Shaped aero carbon extensions, 340mm long Shaped aero carbon extensions, 400mm long 50deg carbon extension, designed for low weight 35deg carbon extension, designed for low weight 43deg carbon extension, designed for low weight 25deg carbon extension, designed for low weight 52deg alloy extensions 39deg alloy extensions 26deg alloy extensions	Part Number ACASC43EXT340 ACASC43EXT400 ACSLC50EXT400 ACSLC35EXT400 ACSLC43EXT400 Stock part AC52EXT400 AC39EXT400 AC26EXT400
Armrests Race+ Ergo+	Description A tighter cup for riders that like to feel locked in A highly adjustable armrest intended for comfort	Part Number ACMRCKT1 Stock part
Armpads 10mm 15-10mm 10-5mm	Description A high density pad with a grooved surface for grip and water dispersion Adds 5mm under the elbow with a taper to 10mm sides 10mm under the elbow with 5mm on the sides for comfort on the Race+ armrest	Part Number Stock part ACMER105PAD ACMER1510PAD
Brackets A2 Race A2 Standard	Description A lighter, smaller platform bracket with less adjustment than the standard model A highly adjustable bracket offering a wide range of pad positions and 15deg of tilt	Part Number ACARARBRKT Stock part
Risers A3A Low A3A High A3C High	Description 5-35mm of spacers, no bridge required 40-65mm of spacers with a 5mm bridge. Bridge is not UCI legal Required for UCI legal racing, features an integrated carbon bridge	Part Number ACA3ALRSKT ACA3AHRSKT ACA3CHRSKT

Custom options

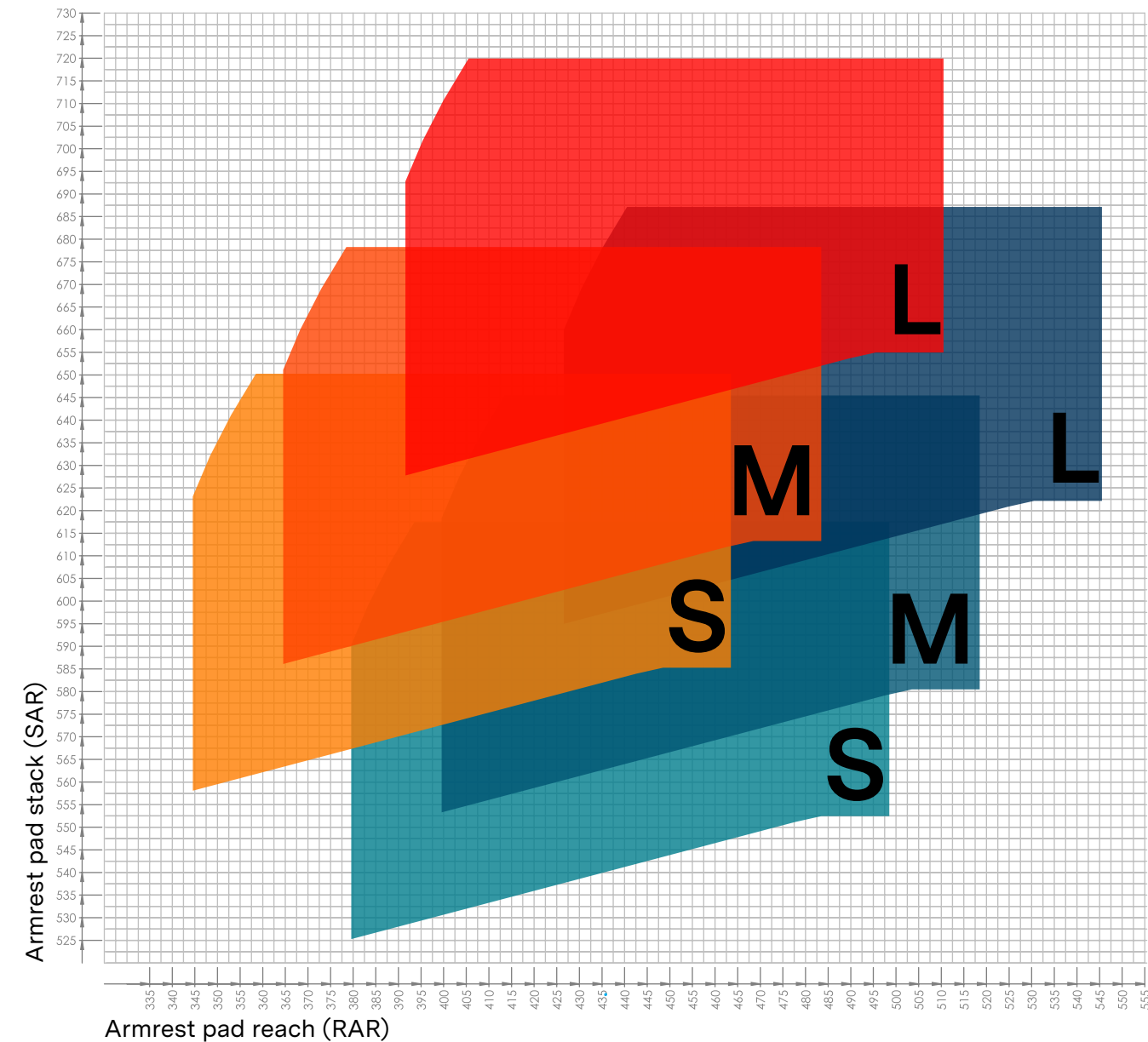
As the Speedmachine Base bar complies with Profile Design Aeria 3 interface, you could opt for a full customized solution.

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		613	613	613	613	613	613	613	613	613
		8	35mm	615	615	615	615	615	615	615	615
	5mm		618	618	618	618	618	618	618	618	618
		9	40mm	620	620	620	620	620	620	620	620
	10mm		623	623	623	623	623	623	623	623	623
		10	45mm	625	625	625	625	625	625	625	625
	15mm		628	628	628	628	628	628	628	628	628
2		11	50mm	630	630	630	630	630	630	630	630
		12	55mm	633	633	633	633	633	633	633	633
		13	60mm	635	635	635	635	635	635	635	635
		14	65mm	638	638	638	638	638	638	638	638
	20mm		640	640	640	640	640	640	640	640	640
		1	0mm	643	643	643	643	643	643	643	643
		2	5mm	645	645	645	645	645	645	645	645
		3	10mm	648	648	648	648	648	648	648	648
		4	15mm	653	653	653	653	653	653	653	653
		5	20mm	658	658	658	658	658	658	658	658
		6	25mm	663	663	663	663	663	663	663	663
		7	30mm	668	668	668	668	668	668	668	668
		8	35mm	673	673	673	673	673	673	673	673
		9	40mm	678	678	678	678	678	678	678	678
	10	45mm									

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		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
	0mm		576	577	579	580	581	583	584	585	
		8	35mm	578	580	581	582	584	585	586	587
	5mm		581	582	584	585	586	588	589	590	
		9	40mm	583	585	586	587	589	590	591	592
	10mm		586	587	589	590	591	593	594	595	
		10	45mm	588	590	591	592	594	595	596	597
	15mm		591	592	594	595	596	598	599	600	
2		11	50mm	593	595	596	597	599	600	601	602
			596	597	599	600	601	603	604	605	
		12	55mm	598	600	601	602	604	605	606	607
			601	602	604	605	606	608	609	610	
		13	60mm	603	605	606	607	609	610	611	612
			606	607	609	610	611	613	614	615	
		14	65mm	608	610	611	612	614	615	616	617
	35mm		611	612	614	615	616	618	619	620	
			616	617	619	620	621	623	624	625	
			621	622	624	625	626	628	629	630	
			626	627	629	630	631	633	634	635	
			631	632	634	635	636	638	639	640	
			636	637	639	640	641	643	644	645	
			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		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
	0mm		604	605	607	608	609	611	612	613	
		8	35mm	606	608	609	610	612	613	614	615
	5mm		609	610	612	613	614	616	617	618	
		9	40mm	611	613	614	615	617	618	619	620
	10mm		614	615	617	618	619	621	622	623	
		10	45mm	616	618	619	620	622	623	624	625
	15mm		619	620	622	623	624	626	627	628	
2		11	50mm	621	623	624	625	627	628	629	630
			624	625	627	628	629	631	632	633	
		12	55mm	626	628	629	630	632	633	634	635
			629	630	632	633	634	636	637	638	
		13	60mm	631	633	634	635	637	638	639	640
			634	635	637	638	639	641	642	643	
		14	65mm	636	638	639	640	642	643	644	645
	35mm		639	640	642	643	644	646	647	648	
			644	645	647	648	649	651	652	653	
			649	650	652	653	654	656	657	658	
			654	655	657	658	659	661	662	663	
			659	660	662	663	664	666	667	668	
			664	665	667	668	669	671	672	673	
			669	670	672	673	674	676	677	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	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
	0mm		646	647	648	650	651	652	654	655	
		8	35mm	648	649	651	652	653	655	656	657
	5mm		651	652	653	655	656	657	659	660	
		9	40mm	653	654	656	657	658	660	661	662
	10mm		656	657	658	660	661	662	664	665	
		10	45mm	658	659	661	662	663	665	666	667
	15mm		661	662	663	665	666	667	669	670	
2		11	50mm	663	664	666	667	668	670	671	672
			666	667	668	670	671	672	674	675	
		12	55mm	668	669	671	672	673	675	676	677
			671	672	673	675	676	677	679	680	
		13	60mm	673	674	676	677	678	680	681	682
			676	677	678	680	681	682	684	685	
		14	65mm	678	679	681	682	683	685	686	687
	35mm		681	682	683	685	686	687	689	690	
			686	687	688	690	691	692	694	695	
			691	692	693	695	696	697	699	700	
			696	697	698	700	701	702	704	705	
			701	702	703	705	706	707	709	710	
			706	707	708	710	711	712	714	715	
			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	0mm	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
	35mm	8	35mm	558	562	566	570	574	577	581	585
		9	40mm	560	564	568	572	576	580	584	587
		10	45mm	563	567	571	575	579	582	586	590
		11	50mm	565	569	573	577	581	585	589	592
		12	55mm	568	572	576	580	584	587	591	595
		13	60mm	570	574	578	582	586	590	594	597
		14	65mm	573	577	581	585	589	592	596	600
2	5mm	1	0mm	575	579	583	587	591	595	599	602
		2	5mm	578	582	586	590	594	597	601	605
		3	10mm	580	584	588	592	596	600	604	607
		4	15mm	583	587	591	595	599	602	606	610
		5	20mm	585	589	593	597	601	605	609	612
		6	25mm	588	592	596	600	604	607	611	615
		7	30mm	590	594	598	602	606	610	614	617
	35mm	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			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				
	8	35mm	586	590	594	598	602	605	609	613					
		5mm	8	35mm	588	592	596	600	604	608	612	615			
			9	40mm	591	595	599	603	607	610	614	618			
			10mm	9	40mm	593	597	601	605	609	613	617	620		
				10	45mm	596	600	604	608	612	615	619	623		
				15mm	10	45mm	598	602	606	610	614	618	622	625	
					11	50mm	601	605	609	613	617	620	624	628	
20mm	11				50mm	603	607	611	615	619	623	627	630		
	12	55mm			606	610	614	618	622	625	629	633			
	25mm	12			55mm	608	612	616	620	624	628	632	635		
		30mm	13		60mm	611	615	619	623	627	630	634	638		
			14		65mm	613	617	621	625	629	633	637	640		
			35mm	14	65mm	616	620	624	628	632	635	639	643		
				40mm	15	70mm	618	622	626	630	634	638	642	645	
45mm					16	75mm	621	625	629	633	637	640	644	648	
					50mm	17	80mm	626	630	634	638	642	645	649	653
	55mm					18	85mm	631	635	639	643	647	650	654	658
		60mm				19	90mm	636	640	644	648	652	655	659	663
						65mm	20	95mm	641	645	649	653	657	660	664
			70mm				21	100mm	646	650	654	658	662	665	669
				75mm			22	105mm	651	655	659	663	667	670	674
80mm							23	110mm	656	660	664	668	672	675	679
					85mm		24	115mm	661	665	669	673	677	680	684
	90mm						25	120mm	666	670	674	678	682	685	689
		95mm					26	125mm	671	675	679	683	687	690	694
						100mm	27	130mm	676	680	684	688	692	695	699
			105mm				28	135mm	681	685	689	693	697	700	704
				110mm			29	140mm	686	690	694	698	702	705	709
115mm							30	145mm	691	695	699	703	707	710	714
					120mm		31	150mm	696	700	704	708	712	715	719
	125mm						32	155mm	701	705	709	713	717	720	724
		130mm					33	160mm	706	710	714	718	722	725	729
						135mm	34	165mm	711	715	719	723	727	730	734
			140mm				35	170mm	716	720	724	728	732	735	739
				145mm			36	175mm	721	725	729	733	737	740	744
150mm							37	180mm	726	730	734	738	742	745	749
					155mm		38	185mm	731	735	739	743	747	750	754
	160mm						39	190mm	736	740	744	748	752	755	759
		165mm					40	195mm	741	745	749	753	757	760	764
						170mm	41	200mm	746	750	754	758	762	765	769
			175mm				42	205mm	751	755	759	763	767	770	774
				180mm			43	210mm	756	760	764	768	772	775	779
185mm							44	215mm	761	765	769	773	777	780	784
					190mm		45	220mm	766	770	774	778	782	785	789
	195mm						46	225mm	771	775	779	783	787	790	794
		200mm					47	230mm	776	780	784	788	792	795	799
						205mm	48	235mm	781	785	789	793	797	800	804
			210mm				49	240mm	786	790	794	798	802	805	809
				215mm			50	245mm	791	795	799	803	807	810	814
220mm							51	250mm	796	800	804	808	812	815	819
					225mm		52	255mm	801	805	809	813	817	820	824
	230mm						53	260mm	806	810	814	818	822	825	829
		235mm					54	265mm	811	815	819	823	827	830	834
						240mm	55	270mm	816	820	824	828	832	835	839
			245mm				56	275mm	821	825	829	833	837	840	844
				250mm			57	280mm	826	830	834	838	842	845	849
255mm							58	285mm	831	835	839	843	847	850	854
					260mm		59	290mm	836	840	844	848	852	855	859
	265mm						60	295mm	841	845	849	853	857	860	864
		270mm					61	300mm	846	850	854	858	862	865	869
						275mm	62	305mm	851	855	859	863	867	870	874
			280mm				63	310mm	856	860	864	868	872	875	879
				285mm			64	315mm	861	865	869	873	877	880	884
290mm							65	320mm	866	870	874	878	882	885	889
					295mm		66	325mm	871	875	879	883	887	890	894
	300mm						67	330mm	876	880	884	888	892	895	899
		305mm					68	335mm	881	885	889	893	897	900	904
						310mm	69	340mm	886	890	894	898	902	905	909
			315mm				70	345mm	891	895	899	903	907	910	914
				320mm			71	350mm	896	900	904	908	912	915	919
325mm							72	355mm	901	905	909	913	917	920	924
					330mm		73	360mm	906	910	914	918	922	925	929
	335mm						74	365mm	911	915	919	923	927	930	934
		340mm					75	370mm	916	920	924	928	932	935	939
						345mm	76	375mm	921	925	929	933	937	940	944
			350mm				77	380mm	926	930	934	938	942	945	949
				355mm			78	385mm	931	935	939	943	947	950	954
360mm							79	390mm	936	940	944	948	952	955	959
					365mm		80	395mm	941	945	949	953	957	960	964
	370mm						81	400mm	946	950	954	958	962	965	969
		375mm					82	405mm	951	955	959	963	967	970	974
						380mm	83	410mm	956	960	964	968	972	975	979
			385mm				84	415mm	961	965	969	973	977	980	984
				390mm			85	420mm	966	970	974	978	982	985	989
395mm							86	425mm	971	975	979	983	987	990	994
					400mm		87	430mm	976	980	984	988	992	995	999
	405mm						88	435mm	981	985	989	993	997	1000	1004
		410mm					89	440mm	986	990	994	998	1002	1005	1009
						415mm	90	445mm	991	995	999	1003	1007	1010	1014
			420mm				91	450mm	996	1000	1004	1008	1012	1015	1019
				425mm			92	455mm	1001	1005	1009	1013	1017	1020	1024
430mm							93	460mm	1006	1010	1014	1018	1022	1025	1029
					435mm		94	465mm	1011	1015	1019	1023	1027	1030	1034
	440mm						95	470mm	1016	1020	1024	1028	1032	1035	1039
		445mm					96	475mm	1021	1025	1029	1033	1037	1040	1044
						450mm	97	480mm	1026	1030	1034	1038	1042	1045	1049
			455mm				98	485mm	1031	1035	1039	1043	1047	1050	1054
				460mm			99	490mm	1036	1040	1044	1048	1052	1055	1059
465mm							100	495mm	1041	1045	1049	1053	1057	1060	1064
					470mm		101	500mm	1046	1050	1054	1058	1062	1065	1069
	475mm						102	505mm	1051	1055	1059	1063	1067	1070	1074
		480mm					103	510mm	1056	1060	1064	1068	1072	1075	1079
						485mm	104	515mm	1061	1065	1069	1073	1077	1080	1084
			490mm				105	520mm	1066	1070	1074	1078	1082	1085	1089
				495mm			106	525mm	1071	1075	1079	1083	1087	1090	1094
500mm							107	530mm	1076	1080	1084	1088	1092	1095	1099
					505mm		108	535mm	1081	1085	1089	1093	1097	1100	1104
	510mm						109	540mm	1086	1090	1094	1098	1102	1105	1109
		515mm					110	545mm	1091	1095	1099	1103	1107	1110	1114
						520mm	111	550mm	1096	1100	1104	1108	1112	1115	1119
			525mm				112	555mm	1101	1105	1109	1113	1117	1120	1124
				530mm			113	560mm	1106	1110	1114	1118	1122	1125	1129
535mm							114	565mm	1111	1115	1119	1123	1127	1130	1134
					540mm		115	570mm	1116	1120	1124	1128	1132	1135	1139
	545mm						116	575mm	1121	1125	1129	1133	1137	1140	1144
		550mm					117	580mm	1126	1130	1134	1138	1142	1145	1149
						555mm	118	585mm	1131	1135	1139	1143	1147	1150	1154
			560mm				119	590mm	1136	1140	1144	1148	1152	1155	1159
				565mm			120	595mm	1141	1145	1149	1153	1157	1160	1164
570mm							121	600mm</							

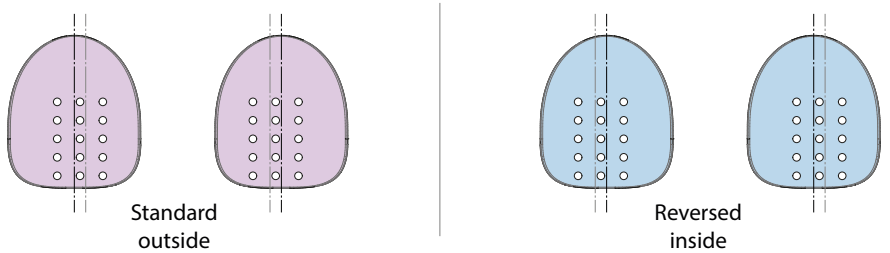
frame size L			Reach Pad position															
Flat	Low		1	2	3	4	5	6	7	8								
Stack Pad position			0mm	15mm	30mm	45mm	60mm	75mm	90mm	105mm								
1	0mm	1	0mm	595	599	603	607	611	614	618	622							
		2	5mm	600	604	608	612	616	619	623	627							
		3	10mm	605	609	613	617	621	624	628	632							
		4	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							
	8	35mm		628	632	636	639	643	647	651	655							
				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
	9										40mm	668	672	676	679	683	687	691
	10		45mm									673	677	681	684	688	692	696
				11							50mm	678	682	686	689	693	697	701
				12	55mm							683	687	691	694	698	702	706
									13		60mm	688	692	696	699	703	707	711
							14		65mm			693	697	701	704	708	712	716

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:

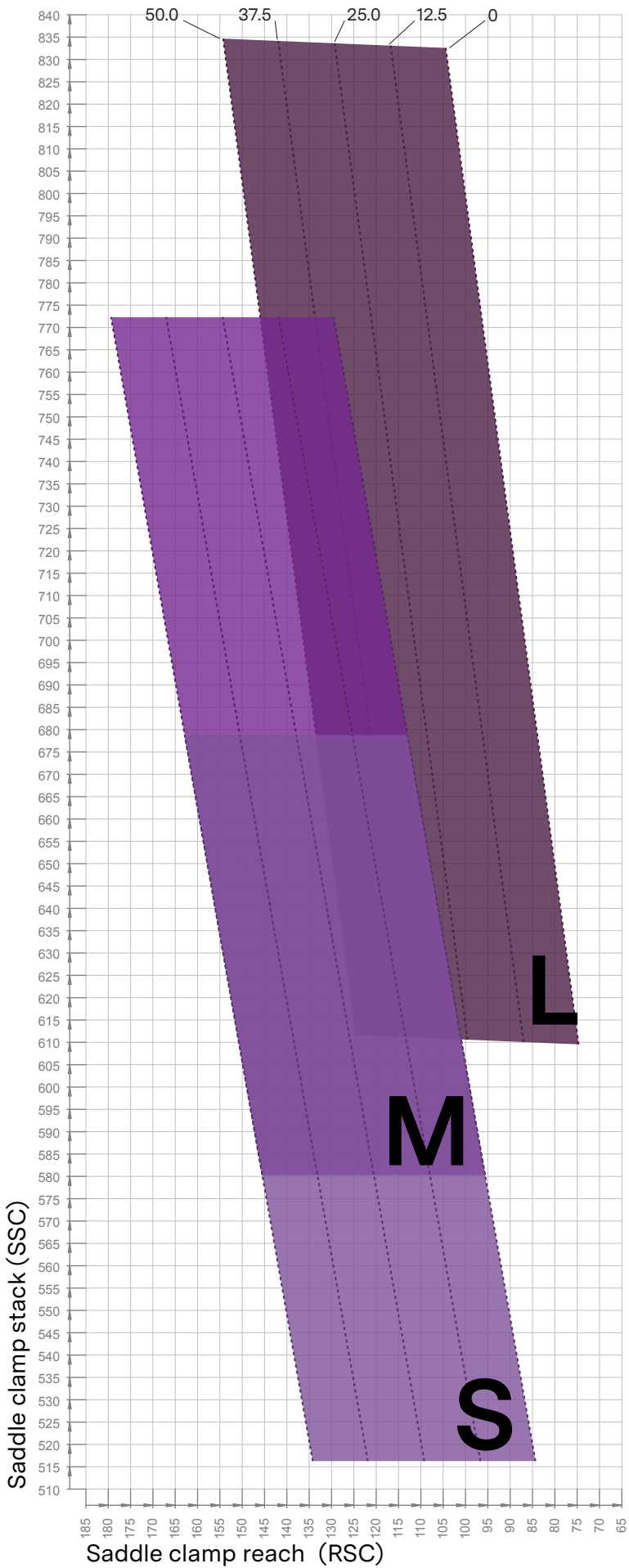
- *Reach Pad position* here in red.
- Armrest Width value (WAR) here in black.

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



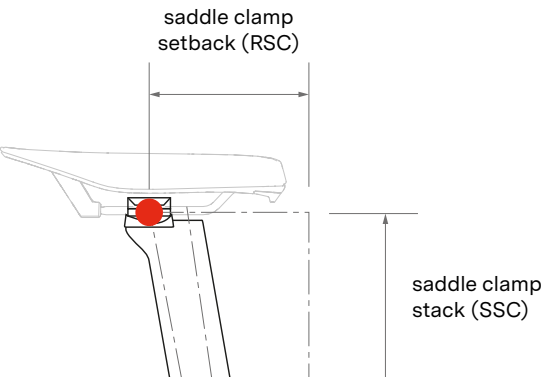
8							8	
7								7
6								6
5								5
4								4
3								3
2								2
1							1	
	124 A	142 B	161 C	179 D	198 E	216 F	235 G	253 H

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

