

ARGON 18

2013 collection



Gervais Rioux

This is the story of a little kid riding his very first bike race.

This is the story of a combative little kid riding his very first bike race. His bike is nothing special; heavy, a mass-produced clunker with fat tires. The kid looks kinda funny, too. This being Canada, he's borrowed a buddy's hockey helmet to ride the race, a race he ends up winning. It's 1973 and the kid's name is Gervais Rioux and he's about to discover a whole new world, the wonderful world of cycling and he decides right there and then that he is going to make that world his. A few years later, he witnesses the 1976 Olympics in Montreal and there's no turning back now, his path is set: he too must reach the topmost rung of the ladder, the pinnacle of cycling achievement, pushing the envelope to the limit.

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OPTIMAL BALANCE is Argon 18's design and fabrication philosophy, a fundamental concept that has given rise to many technical innovations and refinements.

For 25 years, Argon 18 has sought to combine in ideal proportion of three essentially conflicting characteristics: rigidity, comfort and light weight. The result of these years of (research and development) and ultimately, the proof can be found in every Argon 18 bike...a unique, distinctive ride feel. That exceptional experience is OPTIMAL BALANCE at work.

As we've applied it, Optimal Balance has let us create bikes that have contributed to evolving industry innovation in a number of ways, bikes that have garnered praise and won the company awards for design and technical innovation.

A high-performance frame must be rigid, but not so stiff as to feel like a plank of wood. The stiffness must be present where needed to take advantage of every watt of the rider's energy, for maximum thrust. It must also be present to ensure stability and accurate steering, but without creating a harsh ride.

A high-performance frame must be light, but not at the cost of rigidity or comfort. Light weight makes for quicker acceleration and faster climbing, but the lowest weight at the expense of other qualities carries a performance penalty and that is not part of Argon 18's design philosophy.

A high-performance frame must be comfortable. Race-caliber performance is often thought to be the result of light and stiff frame, but performance is also a function of comfort. Anyone who has suffered from an ill-fitting or poorly-made bike on a long day understands this completely. Comfort determines the pleasure quotient in any ride as well.

OPTIMAL BALANCE was developed with this single goal in mind: to build highly efficient, comfortable and light bikes, offering riders the unique Argon 18 bike feel.



HDS : ONE OF THE PILLARS OF OPTIMAL BALANCE

HDS-short for Horizontal Dual System- is the primary principle behind the optimal balance of ride characteristics in Argon 18 bicycles. For more than a decade, the HDS concept has remained the central, unchanging tenet behind all the development work at Argon 18. HDS is why those who try an Argon 18 usually point out the bike's remarkable road manners and brilliant performance. Our tests confirm that our bikes are at least as rigid as the majority of products on the market but also more comfortable. How do we manage to combine these often mutually exclusive qualities?

The basic idea is simple: different frame tubes carry different loadings and stresses and one way to differentiate between the two primary types of loading is to divide the frame in upper and lower sections along a diagonal line spanning the frame from the upper headtube to the rear dropouts.

Below this line, the priority is to fully transfer the cyclist's power to the rear wheel for maximum forward motion; this requires lateral rigidity in the downtube, bottom bracket area and chainstays.

The upper section primarily bears the rider's weight and must be compliant, in order to absorb and dissipate road shock and vibration.

A number of elements are involved in achieving this:

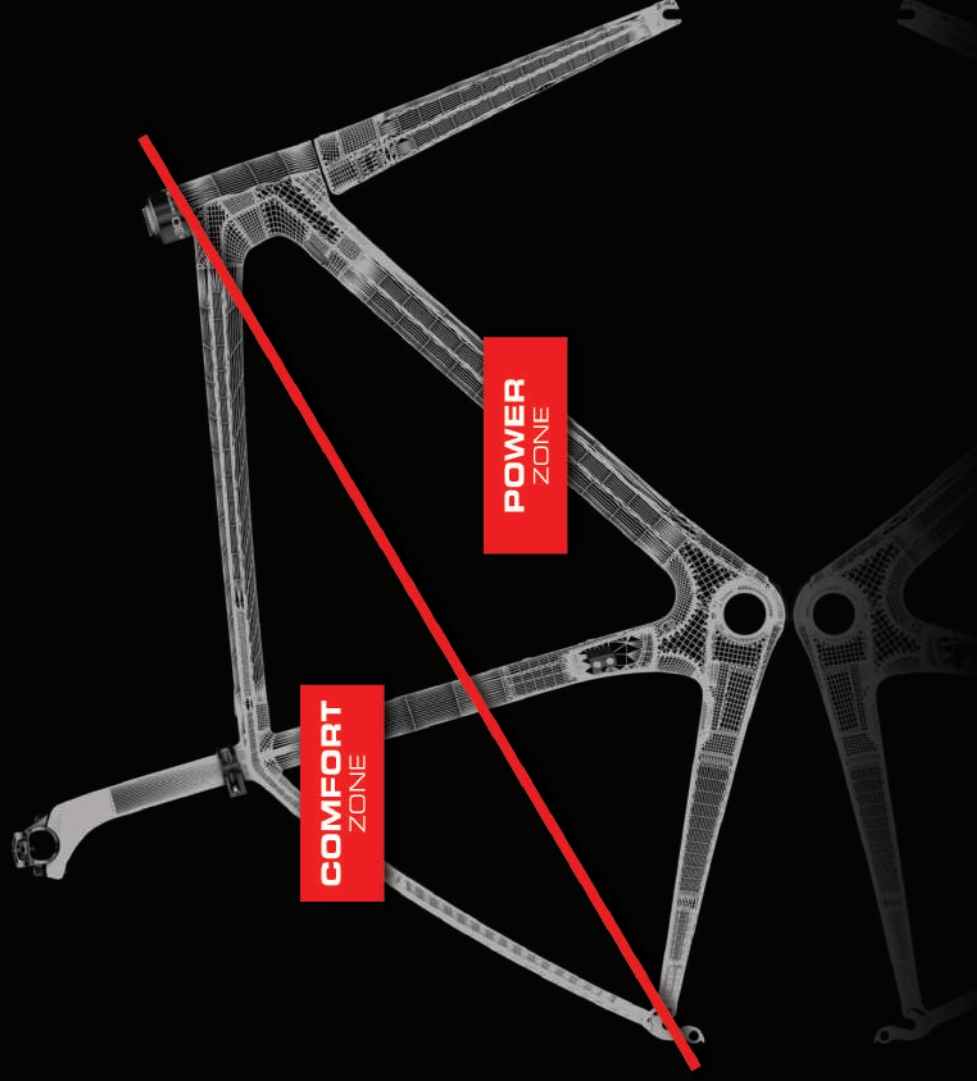
The materials used: each grade of carbon fiber has its specific properties, as do the various aluminum alloys.

The carbon fiber layout configuration: number of plies, fiber orientation.

Tube size and shape: all else being equal, for a given material, larger tubes yield greater stiffness.

Achieving optimal balance is a balancing act; a delicate tweaking of many factors and details. The real value of all this is something you can readily feel on the road.

HDS
HORIZONTAL
DUAL
SYSTEM



AFS GEOMETRY, SIMPLY HUMAN SPECIFIC

AFS can be summarized in a few words: it's the standard frameset geometry for all of our bikes.

Variants of this geometry may occur for specific purposes, but it remains the reference point for all frame designs.

This geometry fulfills two objectives:

To ensure optimized road handling in all frames of every size.

To maintain well-balanced ergonomics in all frames of every size.

AFS is based on Gervais Rioux's long experience both as a racer and bike shop owner: 18 years of road racing and around 2000 bike fitting sessions. We've identified the critical parameters and have optimized them to create 6 balanced and evenly graduated frame sizes.

That said, no one is claiming that there are no physical differences between the two. It may well be worthwhile to select special components, such as a special saddle, a narrower handlebar, shorter brake levers, but this could apply to all small riders, not just to women.

You will find the sizing charts for each bike of your choice in their respective pages in the AFS tab. Or you will find the complete documentation here for each category.

AFS
ARGONFIT
SYSTEM





3D HEADTUBE

The 3D System is one such exclusive innovation: this structural adjustment system permits a wide range of handlebar heights for a given frame size without compromising front end stiffness. A higher or lower bar position is easily obtained to suit the rider's physique, fitness level and riding style, all without compromising performance.

The 3D System lets the user choose from three effective head tube lengths for a given frame size for positioning flexibility. These lengths are as follows:

- Basic head tube length, no 3D spacer
- Basic head tube length + 15mm
- Basic head tube length + 25mm

Thanks to 3D,

- handlebar set at a 15mm height retains an extra 5% of rigidity
- handlebar set at 25mm benefits from 11% retained rigidity, compared to such settings obtained with conventional stacked spacers.

Since the 3D System offers three effective head tube lengths, a rider can set the right position initially, but can later revise this position as fitness, taste or riding style evolve over time.

This feature offers optimal positioning, which translates to a safe, comfortable, efficient bike with predictable, responsive handling for an exhilarating ride in all circumstances.



BB86 BOTTOM BRACKET



DI2+READY

This threadless system relies on press-fitted sealed cartridge bearings. With BB86, traditional threaded or external cups are no longer necessary, reducing weight while boosting frame properties where it matters most.

Equally compatible with Di2 / EPS or mechanical components. Regardless of the group you choose, all cables and wiring are internally routed.



GALLIUM PRO

Combining rigidity, comfort and light weight in ideal proportions, our OPTIMAL BALANCE design and fabrication philosophy has reached its pinnacle with our flagship 2013 Gallium Pro model, official bike of Team SpiderTech powered by C10.

While this uniquely elegant machine is the result of an exhaustive research and development effort, its design wasn't simply a mathematical engineering exercise; the final objective was to come up with a bike that would foster an exceptional synergy between bike and rider, and offer an extraordinary riding experience.

□ Black Matte

△ 7000HM Carbon Composite

← Ga31 Monocoque Carbon Fork

└ ASP-6500 Carbon Seatpost

3D
HEADTUBE

BB86
BOTTOMBRACKET

DIRT+RACES
READY









GALLIUM

For a bike to bear the Argon 18 name, it must present the ideal blend of rigidity, comfort and light weight. Guided by our OPTIMAL BALANCE design and construction philosophy, our mission is to create outstanding bikes that let you maximize your potential while enjoying an exceptional riding experience. As a remarkable example of a bike that embodies these essential qualities in perfect proportion (Optimal Balance), we are proud to present the 2013 Gallium.

Fabricated in the same mold used for the Gallium Pro, the Gallium shares a number of features found on the Pro.

-  Black Matte
-  6050 HM Carbon Composite
-  Ga31 Monocoque Carbon Fork
-  ASP-6000 Carbon Seatpost

3D
HEADTUBE

BB86
BOTTOMBRACKET

D12+3/8" E23
READY



KRYPTON

One major goal we've set for ourselves at Argon 18 is to make sure the R&D efforts involved in applying our OPTIMAL BALANCE principles to our flagship models should extend to every bike we make. This trickle-down effect means our entry and mid-level bikes offer exceptional performance and remarkable comfort as well; these are bikes on which you'll feel confident and competitive immediately. A perfect example of this is the 2013 Krypton, a punchy performer that definitely benefits from the best of OPTIMAL BALANCE.

The lessons learned in the Gallium and Gallium Pro R&D process have led us to the current version of the Krypton, a high-quality, high-performance 100% carbon frameset. If you feel it's not necessary or justifiable to meet the steep price of a fully professional race bike, consider the Krypton: it has everything needed to help you maximize your performance without breaking the bank.

□ Black Matte

▾ 5650 HM Carbon Composite

— K136 Monocoque Carbon Fork

| ASP-1500 Carbon Seatpost

3D
HEADTUBE

AFS
ARGONFIT
SYSTEM

HDS
HORIZONTAL
SHOULDER
SYSTEM



White Gloss

5650 HM Carbon Composite

Ki36 Monocoque Carbon Fork

ASP-1500 Carbon Seatpost










RADON

For the R&D team at Argon 18, pursuing our ultimate goal of OPTIMAL BALANCE is an ongoing concern: we're on a mission, trying to create the elusive dream bike, as perfect as possible in every way. Because OPTIMAL BALANCE defines an optimal mix of qualities rather than a specific material, its principles are applicable to metals as well as carbon composites.

With the 2013 Radon, we've arrived at the perfect combination of aluminum and carbon. The lessons learned in developing the Gallium Pro and other, earlier bikes have been incorporated into this high-performance, high-quality frameset. A carefully designed ultra-light triple-butted aluminum main triangle complemented by a carbon fork and rear triangle has made the Radon a benchmark in its market segment. This kind of performance and value combined make the Radon the exception rather than the norm.

-  Black Matte
-  3000 Aluminum front triangle
-  4050 HT Carbon rear triangle
-  Rn86 Specific Carbon Fork
-  ASP-1500 Carbon Seatpost

-  **AFS**
ARGONFIT
SYSTEM
-  **HDS**
HORIZONTAL
DUVAL
SYSTEM
-  **TRIPLE BUTTED**
ALUMINUM
3000
THERMO-TECH
-  **REAR TRIANGLE**
NANO-TECH TUBING
HT4050





Terrenzo Bozzone
5 X WORLD CHAMPION







ONEness 2.0

ONEness 2.0 WITH AHB-7500 : THE PERFECT POSITION

The ONEness 2.0 concept was developed by Argon 18 to uniquely complement the E-118 time trial/triathlon frameset. The E-118 was the subject of an intensive research and development effort wherein Computational Fluid Dynamics (CFD) analysis had a decisive impact on the bike's aerodynamic efficiency.

This research demonstrated conclusively that it's the rider who generates up to 70% of aerodynamic drag in trying to maintain speed. This is what motivated the development of ONEness 2.0 and the AHB-7500 handlebar system. Together, these components work to help the rider improve aerodynamic efficiency by ensuring an ergonomically and aerodynamically effective position that's easily maintained over longer distances.

Setting up the ideal position begins with ONEness 2.0, a new system that quickly adjusts to two effective stem lengths of 65mm or 95mm, placing the base bar in the appropriate position.

Once the primary fore-aft adjustment has been set, a wide range of adjustment possibilities come into play thanks to the AHB-7500 handlebar. Designed as a single unit made of carbon fiber, this handlebar is an example of innovative technology applied to cycle components, weighing only 345 grams while offering an unequalled adjustment range. This not only makes

the E-118 one of the most completely integrated bikes of its kind but also one of the most versatile in terms of positioning possibilities.

The base bar and tri-bar angles are adjustable and two types of tri-bar extensions are supplied with the E-118. The armrests offer a vertical range of 5cm, adjustable in 1cm increments. Because the entire handlebar is reversible, a further 5cm height increase is easily obtained, for a total range of 10cm of armrest height variability.

The armrests feature 12cm of lateral and 4cm of fore-aft adjustment, making it simple to dial in the ideal configuration.

With such a wide range of positioning possibilities, the ONEness 2.0 and AHB-7500 combination is one of the most versatile cockpit set-ups available today. At Argon 18, we believe that a rider can only be optimally aerodynamic and maximizing energy output if he or she is comfortable and able to keep that efficient position for the duration of the race. It is truly a customized fit for riders of all shapes and sizes.



BB86 BOTTOM BRACKET



DIZ+ READY

Equally compatible with DIZ / EPS or mechanical components. Regardless of the group you choose, all cables and wiring are internally routed.



E-118

Born of an exhaustive R&D effort in close collaboration with triathlon champion Tim O'Donnell, the E-118 is THE bike of champions. Developed with state of the art CFD virtual wind tunnel software and validated in a physical wind-tunnel & with Pro testers, the UCI-certified E-118 represents the ultimate of our OPTIMAL BALANCE concept applied to a triathlon/time trial machine: the perfect blend of aerodynamics, rigidity, comfort and light weight.

Black Matte

7105 HM Carbon Composite

E-118 Monocoque Carbon Fork

ASP-7500 Carbon Seatpost

ONENESS
2.0

BB86
BOTTOMBRACKET

DIZ+SERIES
READY



E-116

Built using the E-118 mold and a product of the same R&D process, here is a bike embodying many of the E-118's qualities of refined aerodynamics, rigidity, comfort and light weight. Presenting the E-116, another outstanding example of OPTIMAL BALANCE, in Triathlon and Time-Trial form.

□ Black Matte

△ 6105 HM Carbon Composite

— E 116 monocoque aero carbon fork

└ ASP-7000 Carbon Seatpost

3D
HEADTUBE





BB86
BOTTOMBRACKET

DIRTY
READY



E-112

A favourite of many champions, the E-112 has become a classic model in the Argon 18 E-series. Constructed in the mold used for the award-winning E-114, a benchmark machine in the time trial and triathlon fields, the E-112 reaps all the benefits of our OPTIMAL BALANCE design and construction philosophy.

-  Black Matte
-  5655 HM Carbon Composite
-  E-112 Monocoque Aero Carbon Fork
-  ASP-4000 Carbon Seatpost

3D
HEADTUBE

AFS
ARGONFIT
SYSTEM

HDS
HORIZONTAL
DOWN
SYSTEM





Leon Griffin
WORLD CHAMPION ATHLETE



E-80

Benefitting from the lessons learned in developing the E-118 and E-116 as well as the advantages OPTIMAL BALANCE delivers, the E-80 has become the leader in its category, a benchmark of performance and value.



Black Matte



3005 Aluminum Thermo-Tech



E80 Aero Carbon Fork



ASP-4000 Carbon Seatpost

AFS
ARGONFIT
SYSTEM

HDS
HORIZONTAL
DUAD
SYSTEM

TRIPLE BUTTED
ALUMINUM
3005
THERMO-TECH



ELECTRON PRO

The Electron Pro was developed primarily for Canadian Olympian Martin Gilbert and Stéphane Cossette, two track riders who also feature on Team SpiderTech's roster.

The Electron Pro is built in the E-114/112 mold, but using a different composite formulation and layup. As such, aerodynamic efficiency has been a primary consideration, along with power transfer. All Argon 18 bikes have exceptional rigidity where needed, but in this case, we've emphasized it further, so that even the most powerful sprinters can get all those watts straight down to the rear tire.

Black Matte

7051HM Carbon Composite

E99 Monocoque Carbon Fork

ASP-4500 Carbon Seatpost

3D
HEADTUBE

AFS
ARGONFIT
SYSTEM

HDS
HORIZONTAL
DOWN
SYSTEM



ELECTRON

The Electron is the real deal, a track frameset for all events: Matched Sprints, Points or Madison racing. The wheelbase is short and the frame is stiff...very stiff.



Black Matte



3001 Aluminum Thermo-Tech



E99 Aero Carbon Fork

AFS
ARGONFIT
SYSTEM

HDS
HORIZONTAL
DUBAI
SYSTEM

TRIPLE BUTTED
ALUMINUM
3001
THERMO-TECH



GEOS

Gallium Pro & Gallium

Size	XXS*	XS*	S*	M*	L*	XL*
Classic	44-46	47-50	51-53	54-56	57-59	60-62
A cm	41.5	45	49	53.5	56	59
B deg	75.5	74.5	74	73.5	73	72.5
C deg	71	72	72.7	72.7	72.7	73
D cm	50.2	52	54	56	57.5	59.5
E cm	40.6	40.6	40.6	40.8	41	41
F cm	96	96	97	98	100	101.5
G cm	7.5	7.5	7.5	7.5	7.5	7.5
H1 cm	7.7	8.2	10.9	13.9	16.2	18.9
H2 cm	9.1	9.6	12.3	15.3	17.6	20.3
H3 cm	10.1	10.6	13.3	16.3	18.6	21.3
I cm	66	69	73	77	79	81.5

* Sloping Top Tube

Krypton

Size	XXS*	XS*	S*	M*	L*	XL*
Classic	44-46	47-50	51-53	54-56	57-59	60-62
A cm	43	46.5	51.3	55	57.5	60
B deg	75.5	74.5	74	73.5	73	72.5
C deg	71	72	72.7	72.7	72.7	73
D cm	50	52	54	55.6	57.5	59.5
E cm	40.6	40.6	40.6	40.8	41	41
F cm	96.3	96.7	97.6	98.9	100	101
G cm	7	7	7	7	7	7
H1 cm	9.0	10.0	12.3	14.7	17.3	19.5
H2 cm	10.4	11.4	13.7	16.1	18.7	20.9
H3 cm	11.4	12.4	14.7	17.1	19.7	21.9
I cm	67.5	70.5	75	78	80	83

* Sloping Top Tube

Radon

Size	XXS*	XS*	S*	M*	L*	XL*
Classic	43-46	47-50	51-53	54-55	57-59	60-62
A cm	41	46	51	54	57	60
B deg	75.5	75	74	73.5	73	72.5
C deg	71	72	72.7	72.7	72.7	73
D cm	50	52	54	55.5	57.5	59.5
E cm	40.6	40.6	40.6	40.8	41	41
F cm	96.1	96.7	97.2	98.5	100	100.7
G cm	7	7	7	7	7	7
H1 cm	9.8	10.8	12.8	15.6	18.2	21
I cm	66.4	69.4	74.5	77	80	82

* Sloping Top Tube

E-118

Size	XS*	S	M	L
Classic	47-50	51-53	54-56	57-60
A cm	46.4	51	52.5	55.5
B deg	76	76	76	76
C deg	72.5	72.5	72.5	72.5
D cm	52	53.5	55	56
E cm	39.5	39.5	39.5	39.5
F cm	96.5	98	99	100
G cm	7.5	7.5	7.5	7.5
H1 cm	8.5	9.5	11.5	13.8
I cm	71	75.5	77	79.5

* Sloping Top Tube

E-116

Size	XS*	S	M	L
Classic	47-50	51-53	54-56	57-60
A cm	46.4	51	52.5	55.5
B deg	76	76	76	76
C deg	72.5	72.5	72.5	72.5
D cm	52	53.5	55	56
E cm	39.5	39.5	39.5	39.5
F cm	96.5	98	99	100
G cm	7.5	7.5	7.5	7.5
H1 cm	8.5	9.5	11.4	13.8
H2 cm	9.9	10.9	12.8	15.2
H3 cm	10.9	11.9	13.8	16.2
I cm	71	75.5	77	79.5

* Sloping Top Tube

E-80

Size	XS*	S	M	L
Classic	47-49	50-53	54-56	57-60
A cm	46	53	55	57
B deg	76	76	76	76
C deg	72.5	72.5	72.5	72.5
D cm	52	53.5	54.5	56
E cm	40	40	40	40
F cm	96.9	98.3	99.6	101.1
G cm	7	7	7	7
H1 cm	8.5	9.5	11.4	14
I cm	69.5	74.7	76.6	79

* Sloping Top Tube

E-112

Size	XS*	S	M	L
Classic	47-50	51-53	54-56	57-60
A cm	49.5	55.5	59	61
B deg	76	76	76	76
C deg	72.5	72.5	72.5	72.5
D cm	52	53.5	54.7	56
E cm	40	40	40	40
F cm	96.9	98.3	99.6	101.1
G cm	7	7	7	7
H1 cm	8.5	9.5	11.4	13.8
H2 cm	9.9	10.9	12.8	15.2
H3 cm	10.9	11.9	13.8	16.2
I cm	71.5	75.9	77.9	80.4

* Sloping Top Tube

ElectronPro

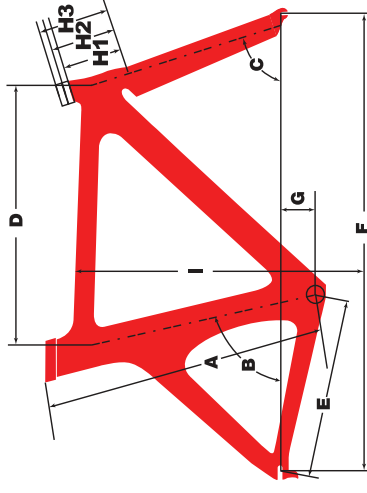
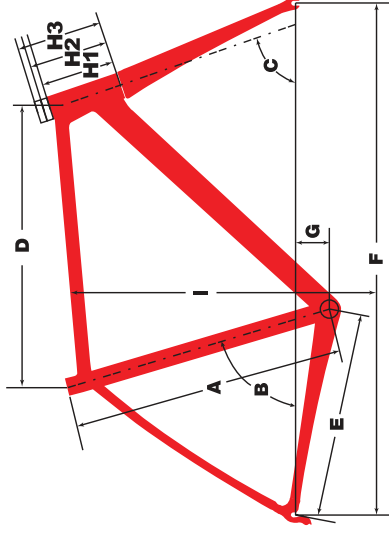
Size	XS*	S	M	L
Classic	47-50	51-53	54-56	57-60
A cm	49.5	55.5	59	61
B deg	76	76	76	76
C deg	72.5	72.5	72.5	72.5
D cm	52	53.5	54.7	56
E cm	39	39	39	39
F cm	96.9	98.3	99.6	101.1
G cm	5.5	5.5	5.5	5.5
H1 cm	8.5	9.5	11.4	13.8
H2 cm	9.9	10.9	12.8	15.2
H3 cm	10.9	11.9	13.8	16.2
I cm	71.5	75.9	77.9	80.4

* Sloping Top Tube

Electron

Size	XS*	S	M	L
Classic	46-49	50-53	54-56	57-59
A cm	41	51	54	57
B deg	76	75	74.5	74
C deg	74	74.5	74.5	74.5
D cm	50	52	54	56
E cm	38.3	38.3	38.3	38.3
F cm	92.2	93.7	94.7	96.1
G cm	4.5	4.5	4.5	4.5
H1 cm	9	10	12.5	15
I cm	67	75.5	78	80.3

* Sloping Top Tube





ARGON 18



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