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AERO 111 26-622



AERO 111 29-622



EXECUTIVE SUMMARY



AERO 111 A PERFECTED STORM

When Swiss Side's aero expertise, Continental's tire know-how, and DT Swiss's wheel competence collide, the result is the AERO 111 tire: a perfected storm.

Specially designed aero cavities in the patented tread pattern function as vortex generators, creating turbulent airflow on the surface that enables the air to stick to the rim shape of the front wheel. The result is a maximization of the sailing effect by delaying the flow separation from the rim, resulting in the ultimate aero wheel tire system. No matter if chasing personal bests, your friends or competing professionally, the lower drag and even further improved handling will push you to storm ahead.





A PERFECTED STORM EXECUTIVE SUMMARY

AERO 111 FEATURES

AERO WHEEL TIRE SYSTEM (WTS)

With the help of Swiss Side and Continental, DT Swiss is able to offer the ultimate aero Wheel Tire System.

TWO TIRE WIDTHS

Ideal for our Aero and Endurance wheelsets in various rim heights, the Aero 111 tire is available in 26 mm and 29 mm width.

AERO PERFORMANCE REGARDLESS OF RIM HEIGHT AND SPEED

Thanks to a patented technology, the Aero 111 tire is designed to have a positive effect on all rim heights, as well as at both low and high speeds.

ULTIMATE
WHEELTIRE
SYSTEM





THE ULTIMATE WHEEL TIRE SYSTEM

The aero performance of our wheels no longer needs to be established as our aero rims, spokes, and hubs are always fine-tuned to the smallest detail.

In order to take the optimization of the entire wheel tire system (WTS) to the next level, it was clear that an aerodynamic tire would have to be included in the development. We simply found no tire that met our expectations including aspects of low aero drag while maintaining manageable riding characteristics and thus, decided to start the development of our own tire from scratch.

The long and successful cooperation between Swiss Side and DT Swiss made the search for the most acknowledged aero expert in the cycling industry very easy. While form and function were determined at an early stage, the project needed more help from an expert in rubber. It became clear that Continental was the best partner who not only understood the WTS concept but was also able to implement the most advanced features of existing bicycle tire products into this patented aero tire concept.

As a result, we are now able to offer the ultimate aero wheel tire system (WTS) in the AERO 111 front wheel tire. Storming ahead with this new collaboration, it will be impossible to ever consider the two components separately again.

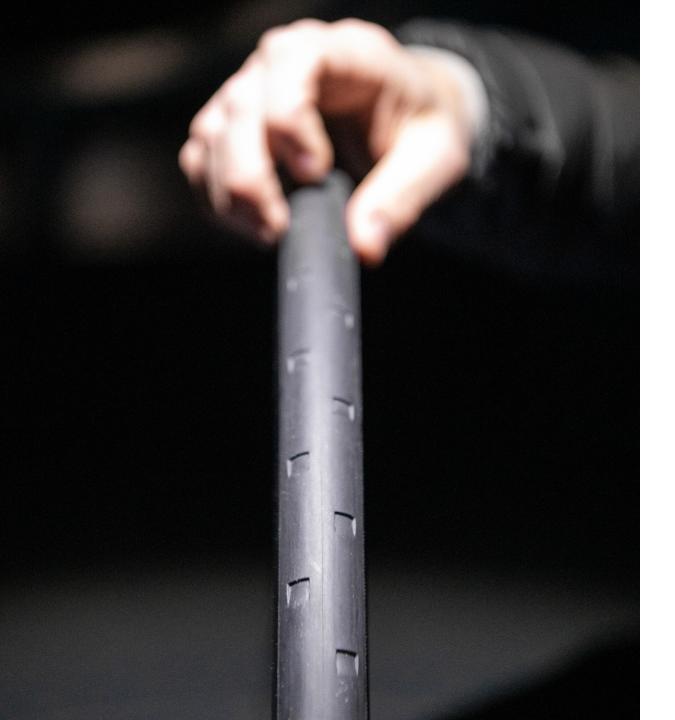




TWO TIRE WIDTHS **AVAILABLE**

Ideal for our Aero and Endurance wheelsets in various rim heights, the AERO 111 front tire is available in widths of 26 mm and 29 mm. If you like to save every watt to reach new top speeds, you will enjoy the low drag of the Aero WTS combined with the 26 mm wide tire. For those who like to rack up kilometers, the aero-optimized Endurance WTS with the 29 mm wide tire will help you save precious energy and keep on riding longer than ever.

TIRE FEATURES



VORTEX GENERATORS

The tire certainly looks different: 48 little cavities are regularly distributed over its surface. We call them vortex generators as they are the very features that manage to control the turbulence in the airflow on the surface of the front wheel. Ultimately, this results in a perfected storm that allows for the reduction of drag of the entire wheel tire system.



TIRE **TECHNOLOGIES**

The AERO 111 tire could not have been created without the right technology partner. This tire was produced in very close collaboration with renowned tire manufacturer, Continental. Aside from the proven aerodynamic effects, the tire contains Continental's finest state-of-theart technologies.

Tubeless ready: The AERO 111 tire can be ideally set up in our tubeless ready rim beds, allowing the rider to run the tire at a lower pressure, improving both comfort and puncture resistance.

BlackChili®: Continental's Black Chili compound revolutionized the world of cycling tires. It is renowned for offering the perfect balance of grip and low rolling resistance. The tread compound utilizes the latest research in polymers, including specially developed 'carbon black' particles.

VectranTM: The VectranTM Breaker sits beneath the tread and offers an unparalleled level of protection from sharp foreign objects. The multiple-thread yarn has a tensile strength five times higher than steel! This Breaker is lighter than a nylon equivalent whilst not affecting rolling resistance.

The combination of all these features means on top of the low aerodynamic drag, the AERO 111 offers low rolling resistance, good puncture resistance and exceptional grip in both wet and dry conditions.

Learn more



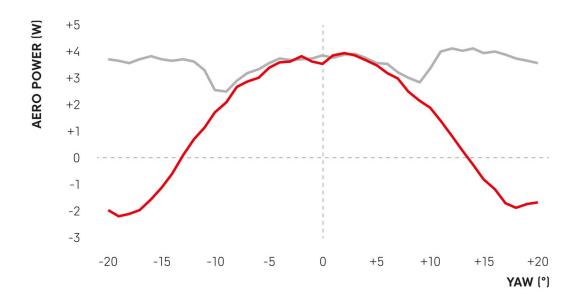
WIND TUNNEL DATA



30 KM/H - DRAG PERFORMANCE DT SWISS ARC 1100 DICUT® DB 62

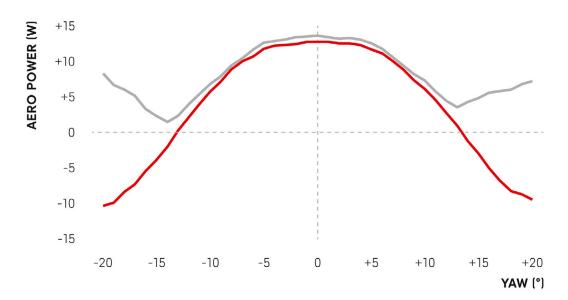
AERODYNAMIC DRAG LOW SPEED

Currently other so-called aero tires available on the market are limited to specific usage, speeds and certain rim profiles and their heights. Moreover, some simply provide no aerodynamic improvement. As a result, these tires serve a very small group of riders and their positive effects are difficult to replicate. While the sailing effect can be more easily generated at high speeds, the beauty of the AERO 111 tire is that it allows the WTS to «sail» at lower speeds as well. This means that the average rider who rides at 30 km/h will benefit the most from the aero optimization of their WTS combined with all our aero-optimized wheels. We call this the «democratization of wheel aero performance».



 DT Swiss ARC 1100 DICUT® DB 62 Continental AERO 111 26C, 30 km/h DT Swiss ARC 1100 DICUT® DB 62 Continental GP 5000s TR 25C, 30 km/h

45 KM/H - DRAG PERFORMANCE DT SWISS ARC 1100 DICUT® DB 62



- DT Swiss ARC 1100 DICUT® DB 62 Continental AERO 111 26C, 45 km/h
- DT Swiss ARC 1100 DICUT® DB 62 Continental GP 5000s TR 25C, 45 km/h

AERODYNAMIC DRAG HIGH SPEED

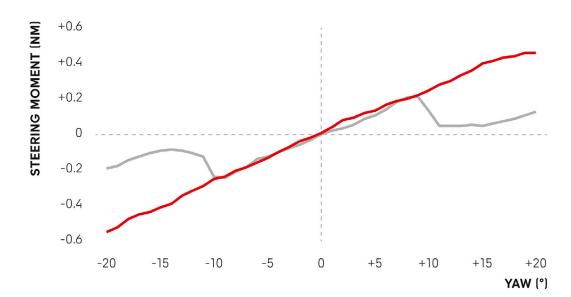
While our ARC 1100 DICUT 62 wheels already have a strong aerodynamic performance, it is at yaw angles greater than +10° and smaller than -10° that the WTS with the AERO 111 will shine. The yaw angle can be explained as the relative direction of the wind that the rider will encounter when riding. Find out more about our AERO+ concept. We can see from the red curve that the sailing effect (drag reduction) increases as the yaw angle goes beyond $+/-10^{\circ}$. The curves indicate the aero drag in watts (W) of the moving front wheel, which is the aerodynamic power the rider has to overcome in riding direction. For the riders, frontal cross wind conditions do not slow them down - in fact the decreasing aero drag of the front wheel tire system translates into propulsion of the complete rider/bike system, so called 'Negative Drag'. This turns into an overall faster WTS.

STEERING MOMENT

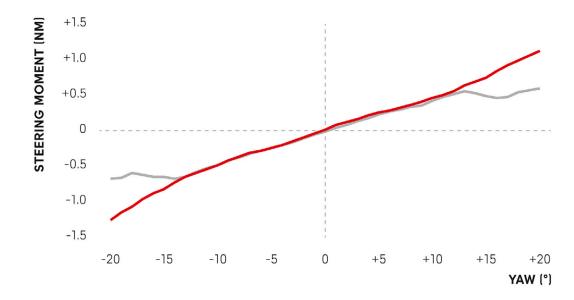
As both graphs show, the aero-optimized WTS provides a slightly higher linear steering moment at both low (30 km/h) and high (45 km/h) speed. This means the torque felt by the rider in their steering increases evenly in cross-wind conditions, avoiding any jolts. This translates into more predictable and comfortable the rider, ultimately increasing the confidence to stay as aero as possible at all times.

STEERING MOMENT

30 KM/H - STEERING MOMENT DT SWISS ARC 1100 DICUT® DB 62

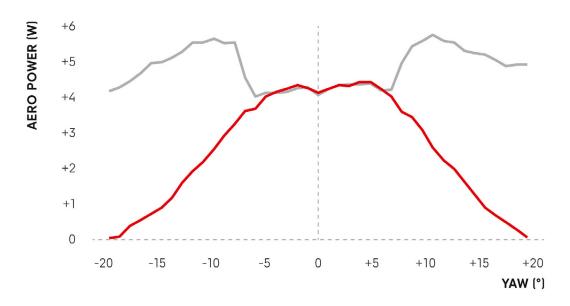


 DT Swiss ARC 1100 DICUT® DB 62 Continental AERO 111 26C, 30 km/h DT Swiss ARC 1100 DICUT® DB 62 Continental GP 5000s TR 28C, 30 km/h 45 KM/H - STEERING MOMENT DT SWISS ARC 1100 DICUT® DB 62



 DT Swiss ARC 1100 DICUT® DB 62 Continental AERO 111 26C, 45 km/h DT Swiss ARC 1100 DICUT® DB 62 Continental GP 5000s TR 28C, 45 km/h

30 KM/H - DRAG PERFORMANCE DT SWISS ERC 1100 DICUT® DB 45



DT Swiss ERC 1100 DICUT® DB 45 Continental AERO 111 29C, 30 km/h DT Swiss ERC 1100 DICUT® DB 45 Continental GP 5000s TR 28C, 30 km/h

AERO PERFORMANCE ENDURANCE WHEELS

As seen in this graph, the aero performance of the 29 mm wide tire is equally beneficial to the Endurance ERC 45 wheels as the 26 mm wide tire is to the Aero wheels. The identical improvements in aerodynamic and also riding characteristics are achieved.

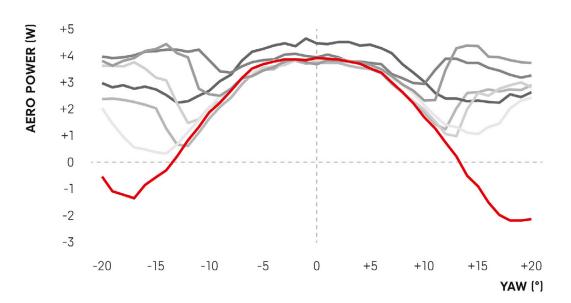
AERO 111 VS OTHER BRANDS

As our test showed, the AERO 111 front tire outperforms any other tire brands tested in the WTS. This ensures that when riders combine our wheels with the new AERO 111 tire, they will have the fastest WTS currently available. Now there is no excuse for not reaching new top speeds and personal best times.

DT SWISS **©ntinental №** SWISS SIDE

AERO 111 VS OTHER BRANDS

30 KM/H - DRAG PERFORMANCE COMPETITOR ANALYSIS

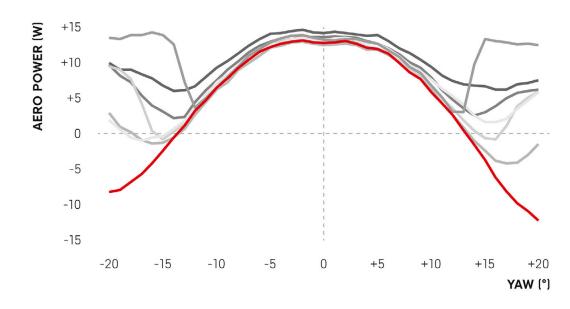


- Continental AERO 111 26C
- Schwalbe Pro One Aero 28C
- Enve SES Road Tire 25C
- Vittoria Corsa Speed TLR G+ 2.0 25C
- Cadex Aero Tubeless 25C

- Pirelli P Zero Race TLR 25C
- Schwalbe Pro One TLE 25C

All tires measured with DT Swiss ARC 1100 DICUT® DB 62

45 KM/H - DRAG PERFORMANCE COMPETITOR ANALYSIS



- Continental AERO 111 26C
- Schwalbe Pro One Aero 28C
- Enve SES Road Tire 25C
- Vittoria Corsa Speed TLR G+ 2.0 25C
- Cadex Aero Tubeless 25C

- Pirelli P Zero Race TLR 25C
- Schwalbe Pro One TLE 25C

All tires measured with DT Swiss ARC 1100 DICUT® DB 62

WTS PRODUCTS



AERO WHEEL TIRE SYSTEM



ARC 1100 DICUT® 80 WTS



ARC 1100 DICUT® 62 WTS



ARC 1100 DICUT® 50 WTS



ARC 1100 DICUT® 38 WTS



AERO WHEEL TIRE SYSTEM



ARC 1400 DICUT® 80 WTS



ARC 1400 DICUT® 62 WTS



ARC 1400 DICUT® 50 WTS



ARC 1400 DICUT® 38 WTS

AERO WHEEL TIRE SYSTEM



AR 1600 SPLINE® 30 WTS



A 1800 SPLINE® 30 WTS



ENDURANCE WHEEL TIRE SYSTEM



ERC 1100 DICUT® 35 WTS



ERC 1100 DICUT® 45 WTS



ERC 1400 DICUT® 35 WTS



ERC 1400 DICUT® 45 WTS

ENDURANCE WHEEL TIRE SYSTEM







E 1800 SPLINE® 30 WTS

TIRE PRODUCTS





AERO 111

DIMENSION	26-622 / 29-622
WEIGHT	250 g / 280 g
USAGE	Front tire only
COMPATIBILITY	Hooked & hookless
MAX PRESSURE PSI	72/101 (TSS/TC)
TECHNOLOGIES	Aerodynamics by Swiss Side BlackChili compound Vectran breaker Tubeless ready
PRICE	119.95 EUR / 120.95 USD



TECHNOLOGIES



TECHNOLOGIES



TUBELESS TECHNOLOGY More information →



AERO+ **TECHNOLOGY** More information →



AERO 111 TIRE A PERFECTED STORM LIVE ON DTSWISS.COM FROM JULY 3, 2024, 9AM CEST

RIDER'S OPINION



LARRY WARBASSE'S **OPINION**

«I was lucky enough to test the Continental AERO 111 tire this winter and what impressed me the most was how similar it felt in terms of handling to our GP5000 S TR - the normal model, in fact if I didn't look at the tire I would not have realized a difference at all, something that I think attests to its performance. It's [...]maintaining the gold standard performance we are used to in terms of grip, rolling resistance, and puncture protection.

Over Christmas I was on the Big Island of Hawaii and while I was there, I decided to attempt the KOM of Mauna Kea, the longest/biggest KOM in terms of elevation gain in the world. Since I already had the AERO 111 on my bike, I decided to leave it on, to benefit from its improved aerodynamics. And probably not by chance I took the nearly 5 hour segment by around 10 seconds, surely thanks to the improved aerodynamics of the tires!»

LARRY WARBASSE

PROFESSIONAL RIDER
DECATHLON AG2R LA MONDIALE TEAM



VIDEO PRODUCT PRESENTATION



WATCH NOW

Find the product presentation about the new Aero 111 tire. Inclusion of the video in your communications is greatly appreciated.



Scan the QR code or click the link below* to watch the video.



YOUR CONTACTS

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