ATLAS

TBR PCR v2.1

Advanced Tyre Layout Architecting and Simulation

From mould cavity to inflated footprint, in one application.

ATLAS develops a tyre from a blank mould cavity to a simulated, inflated footprint in three connected steps. Two versions share one workflow: ATLAS TBR for truck and bus radials, and ATLAS PCR for passenger car radials.

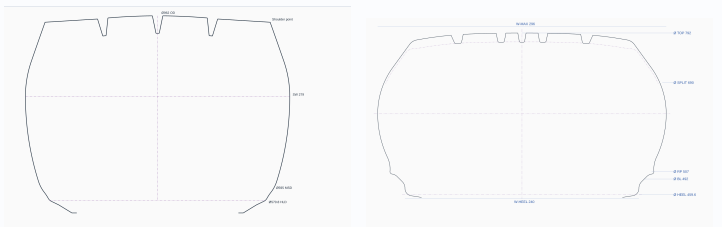
HOW IT WORKS

Three steps, one tool

Each step builds on the last, so the cavity, the layout and the simulation always agree.

1 Cavity generation

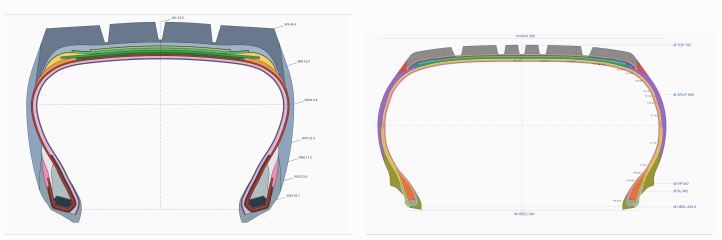
Start from the mould. A handful of key dimensions become an exact cavity outline in a fraction of a second.



ATLAS TBR | ATLAS PCR

2 Layout generation

Every component finds its place. The full tyre layout is built inside the cavity, ready to take into your design workflow.



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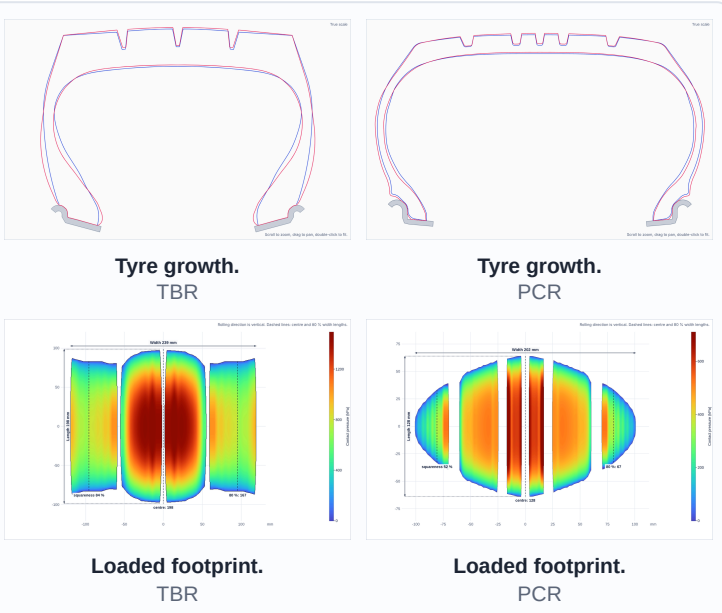
3 FEA for tyre growth and footprint

See how the tyre grows when it is inflated, and what it leaves on the road. Mount it, inflate it, load it, and read the result in minutes.

What the results reveal is best seen for yourself.



Tyre growth. TBR | **Tyre growth.** PCR

Loaded footprint. TBR | **Loaded footprint.** PCR

3
Steps, from cavity to simulated footprint.

2
Versions: ATLAS TBR and ATLAS PCR.

Seconds
From cavity to layout.

Minutes
To a full growth and footprint run.

CHOOSE YOUR VERSION

ATLAS TBR — Truck and bus radial

Built around the demands of truck and bus tyres.

ATLAS PCR — Passenger car radial

Built around the demands of passenger car tyres.

Your tyre data stays on your computer

ATLAS runs as a desktop application and does all of its calculation locally. No tyre geometry, material or result data is uploaded anywhere.

PLATFORM

Windows desktop application, delivered as a single .exe. Nothing else to install.

VERSIONS

ATLAS TBR for truck and bus radials, ATLAS PCR for passenger car radials.

SEE IT IN ACTION

Talk to Woodtecher for a demonstration at www.woodtecher.com.

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