

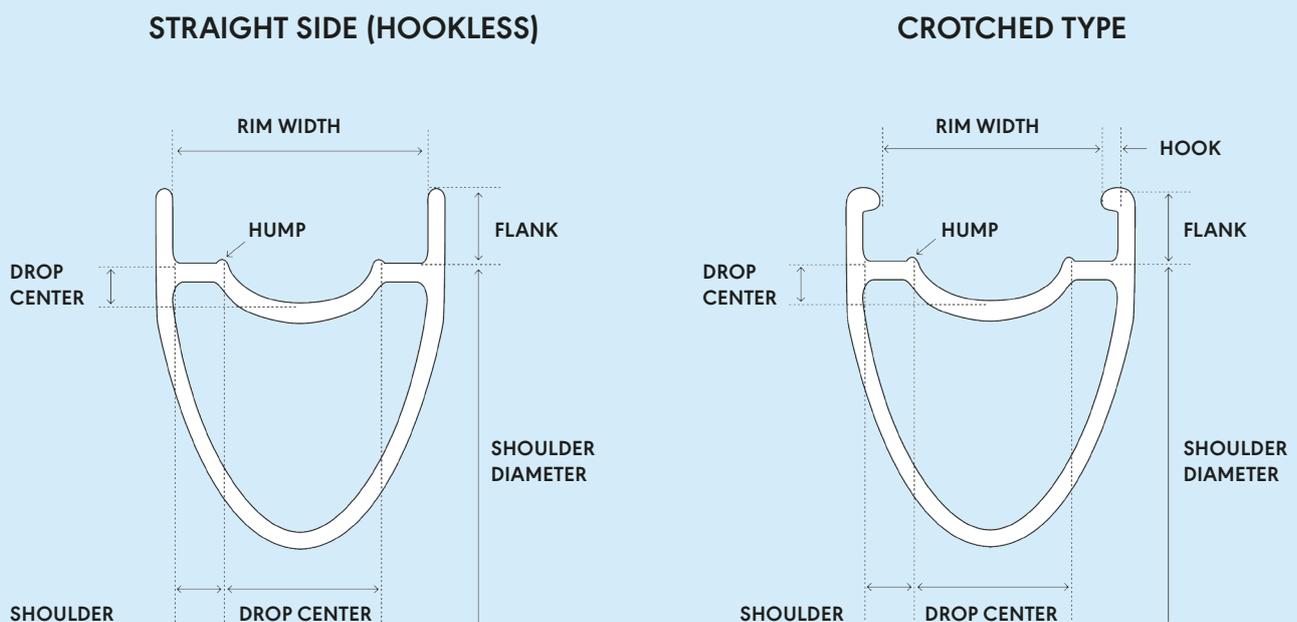
SPECIAL FEATURES HOOKLESS FEATURES AND COMPATIBILITY WITH SCHWALBE TIRES

SCHWALBE 

For safety and performance, the tire and rim interface must be a perfect match. In addition to the classic hooked rims (crotched type), so-called „hookless“ rims (straight side) are becoming increasingly popular in the current model year. The main reason for rim-manufacturers are gains of efficiency in production. The technical advantage is a stronger dimensioning of the rim flank, which generates a higher snake-bite protection. Based on this higher requirements in terms of derailing-safety, Hookless rims are only allowed to use with Schwalbe TLR/TLE models (from model year 2020). Regardless of the segment (MTB, Race, Gravel, Cross), these tires are specified with a very strength bead core technology.

Due to the larger internal rim-width and the lack of hooks, the tire volume increases compared to conventional rims. For optimum performance and safety, a lower air pressure is required in comparison to conventional hooked rims. Schwalbe only recommends the use of rims/wheels that are ISO/ETRTO compliant and explicitly approved for tubeless use. Please note that most rim manufacturers indicate a lower maximum air pressure than the engraved on our tires.

HOOKLESS VS. HOOKED RIM



HOOKLESS COMPACT

- Hookless rims, also called „Straight Side“, are characterised by the absence of the small hook at the end of the rim flank.
- The official designation for tubeless hookless rims according to ISO/ETRTO is „Tubeless Straight Side“.
- It is mandatory that the used rim complies with the ISO/ETRTO standard for hookless rims (Straight Side).
- The specified maximum pressure of the tire and rim must be considered too. If the specified maximum pressure of the rim is lower than that of the tire, the maximum pressure of the rim must be followed. This is a common case for tubeless hookless rims (TSS).
- Hookless or Straight Side rims may only be combined with Schwalbe TLE/TLR tires (Tubeless Easy/Tubeless Ready). These tires can be used with a tube as well as tubeless on hookless rims. The compatible tire widths specified by the wheel/rim manufacturer must be taken into account. In particular, the minimum tire width must be respected, otherwise the tire/rim volume ratio will increase excessively. This restriction applies regardless of the intended use (MTB, gravel/cross, city/touring, road bike).
- Below are the current hookless inflation pressure recommendations of the ISO/ETRTO.
- Schwalbe offers verification for rim-manufacturers and OEM partners.

TIRE WIDTH IN mm

MAX. AIR PRESSURE IN BAR

18-24	5,5 bar
25-29	5 bar
30-34	4,5 bar
35-39	4 bar
40-44	3,5 bar
45-54	3 bar
55-64	2,5 bar
65-74	2 bar
75-84	1,5 bar