

Sizing report

Fake Submission · 22/09/2026

RIDER

Height **1660** mm · Current bike crank 165 mm -> Target crank 160 mm · Pedals **Wahoo Speedplay with baseplate** · Style **General road** · Hamstring **Average**

POSITION AT EACH STEP

Step	Saddle	Hood X	Hood Y	Bar X	Bar Y	Knee	Ankle	Torso
Draft	663	528	599	413	599	141°	98°	44°
Observed	664	554	634	—	—	138°	99°	46°
Hybrid	669	557	620	442	620	138°	99°	44°

Bar clamp centre, using the Step 1 cockpit: 75 mm bar reach, 40 mm hoods.

KNEE TO PEDAL — FRONT OF STROKE

Measured: -48 mm. Delivered: Measured leg segments and a solved pose are needed before this comparison can be solved.

Observed saddle setback 183 mm. Saddle XY -183.0, 638.3 mm. Measured from the capture: legs thigh 400 · shin 396 mm (saddle inversion); upper arm 292 · forearm 264 mm; wrist→hood 53 mm at 17° above the forearm.

SAVED DATA — PER STEP

Draft	Observed	Hybrid
Height1660 mm	Height1660 mm	Height1660 mm
Crank (this step)165.0 mm	Crank (this step)165.0 mm	Crank (this step)160.0 mm
PedalsWahoo Speedplay with baseplate	PedalsWahoo Speedplay with baseplate	PedalsWahoo Speedplay with baseplate
StyleGeneral road	StyleGeneral road	StyleGeneral road
Thigh407 mm	Thigh400 mm	Thigh400 mm
Shin408 mm	Shin396 mm	Shin396 mm
Upper arm312 mm	Upper arm292 mm	Upper arm292 mm
Forearm241 mm	Forearm264 mm	Forearm264 mm
Wrist→hood108 mm	Wrist→hood53 mm at 17°	Wrist→hood53 mm at 17°
Knee39 °	Knee42 °	Knee42 °
Ankle98 °	Ankle99 °	Ankle99 °
Torso44 °	Torso46 °	Torso44 °
Shoulder84 °	Shoulder83 °	Shoulder84 °
Elbow15 °	Elbow14 °	Elbow14 °
Saddle height663 mm	Saddle height664 mm	Saddle height669 mm
Hood X528 mm	Hood X554 mm	Hood X557 mm

Hood Y	599 mm	Hood Y	634 mm	Hood Y	620 mm
Pelvis rise	—	Pelvis rise	70 mm	Pelvis rise	70 mm

BIKES ASSESSED

Waltly Standard 2026 Road — Road geometry D XS	Good fit	1mm off	Setup: 100 mm stem at -6° · 30 mm spacers below stem · 15 mm headset cover · 70 mm bar reach · 160 mm cranks Hood Δ+0 / +0 mm · 0.5 mm from target Estimated suitable — confirm before purchase. Saddle position appears achievable using assumed 73.5° effective seat-tube angle, assumed 100 mm minimum insertion, assumed 350 mm maximum insertion, assumed 45 mm saddle datum, assumed 17.5 mm forward rail adjustment, assumed 2.5 mm rearward rail adjustment. Confirm component dimensions before purchase.
Specialized Roubaix SL8 49	Good fit	1mm off	Setup: 100 mm stem at -6° · 20 mm spacers below stem · 15 mm headset cover · 70 mm bar reach · 160 mm cranks Hood Δ+1 / +0 mm · 1.4 mm from target Saddle fit unverified. Saddle position not verified: seat-tube length is unavailable. Cockpit assessment is shown, but confirm saddle-height range before purchase.
Waltly Elegance XS	Good fit	2mm off	Setup: 100 mm stem at -6° · 25 mm spacers below stem · 15 mm headset cover · 75 mm bar reach · 160 mm cranks Hood Δ+1 / -1 mm · 1.6 mm from target Estimated suitable — confirm before purchase. Saddle position appears achievable using assumed 73.5° effective seat-tube angle, assumed 100 mm minimum insertion, assumed 350 mm maximum insertion, assumed 45 mm saddle datum, assumed 17.5 mm forward rail adjustment, assumed 2.5 mm rearward rail adjustment. Confirm component dimensions before purchase.
Trek Domane SLR Gen 4 50	Good fit	1mm off	Setup: 90 mm stem at -6° · 25 mm spacers below stem · 15 mm headset cover · 75 mm bar reach · 160 mm cranks

			Hood $\Delta+0$ / -1 mm · 0.8 mm from target Saddle fit unverified. Saddle position not verified: seat-tube length is unavailable. Cockpit assessment is shown, but confirm saddle-height range before purchase.
Canyon Endurace CF SLX 23-24 XS	Good fit	3mm off	Setup: 90 mm stem at -6° · 25 mm spacers below stem · 15 mm headset cover · 75 mm bar reach · 160 mm cranks Hood $\Delta+2$ / $+2$ mm · 2.6 mm from target Saddle fit unverified. Saddle position not verified: seat-tube length is unavailable. Cockpit assessment is shown, but confirm saddle-height range before purchase.
Orbea Avant 49	Good fit	3mm off	Setup: 90 mm stem at -6° · 30 mm spacers below stem · 15 mm headset cover · 70 mm bar reach · 160 mm cranks Hood $\Delta+1$ / $+3$ mm · 3.2 mm from target Estimated suitable — confirm before purchase. Saddle position appears achievable using assumed 74° effective seat-tube angle, assumed 100 mm minimum insertion, assumed 350 mm maximum insertion, assumed 17.5 mm forward rail adjustment, assumed 2.5 mm rearward rail adjustment. Confirm component dimensions before purchase.

CLOSE STOCK MATCHES

Automatically identified bikes whose cockpit can reach the prescribed position or a fitter-review saddle alternative within a 10 mm BB-centred arc. Confirm availability, component specification and saddle suitability before purchase.

1. Felt NEXAR — M|54 · assumed 90 mm / -6° stem · 35 mm spacer stack · Hood $\Delta X -0$ / $\Delta Y +0$ · 0.2 mm from target · saddle unsuitable · fitter-review alternative 11.8 mm saddle arc, revised Hood XY 568.8 / 622.8
2. Lapierre Pulsium — L · assumed 80 mm / -6° stem · 15 mm spacer stack · Hood $\Delta X -0$ / $\Delta Y +0$ · 0.3 mm from target · saddle unsuitable · fitter-review alternative 16.2 mm saddle arc, revised Hood XY 573.0 / 623.9
3. Tavelo Arow — L (510) · assumed 80 mm / -6° stem · 40 mm spacer stack · Hood $\Delta X +0$ / $\Delta Y +0$ · 0.3 mm from target · saddle estimated · fitter-review alternative 8.0 mm saddle arc, revised Hood XY 565.2 / 621.8
4. ENVE Fray — 54 · assumed 90 mm / -6° stem · 20 mm spacer stack · Hood $\Delta X -0$ / $\Delta Y +0$ · 0.5 mm from target · saddle estimated · fitter-review alternative 18.7 mm saddle arc, revised Hood XY 575.5 / 624.6
5. Liv Avail Advanced — S · assumed 90 mm / -6° stem · 40 mm spacer stack · Hood $\Delta X +0$ / $\Delta Y -0$ · 0.6 mm from target · saddle unverified
6. Van Rysel RCR Pro — L · assumed 90 mm / -6° stem · 25 mm spacer stack · Hood $\Delta X +1$ / $\Delta Y +0$ · 0.6 mm from target · saddle unsuitable · fitter-review alternative 30.2 mm saddle arc, revised Hood XY 586.6 / 627.3
7. Evolve CIMA — ML · assumed 90 mm / -6° stem · 35 mm spacer stack · Hood $\Delta X -1$ / $\Delta Y +0$ · 0.7 mm from target · saddle estimated · fitter-review alternative 23.6 mm saddle arc, revised Hood XY 580.3 / 625.8

8. Merida Scultura Endurance — XS · assumed 110 mm / -6° stem · 35 mm spacer stack · Hood $\Delta X +1 / \Delta Y +1$ · 0.8 mm from target · saddle unsuitable · fitter-review alternative 14.4 mm saddle arc, revised Hood XY 571.3 / 623.5
9. Waltly Standard 2026 Road — Road geometry C — S · assumed 90 mm / -6° stem · 40 mm spacer stack · Hood $\Delta X -1 / \Delta Y -1$ · 1.0 mm from target · saddle unsuitable · fitter-review alternative 11.6 mm saddle arc, revised Hood XY 568.6 / 622.8
10. Merida Scultura — M · assumed 80 mm / -6° stem · 40 mm spacer stack · Hood $\Delta X -1 / \Delta Y +0$ · 1.0 mm from target · saddle unsuitable · fitter-review alternative 17.1 mm saddle arc, revised Hood XY 574.0 / 624.2

Searched 669 frame sizes; 67 models qualified. 36 sizes were excluded because the prescribed saddle position is not reachable on the frame's seat angle, post and rails — that rules out 1 model entirely. 41 models reached a setup, but none within 6 mm of the target hood. 6 already appear in the assessed list above. 51 further qualifying models are not shown (top 10 only). Where a frame's stock cockpit is not published, a conventional cockpit and spacer range were assumed, not published.