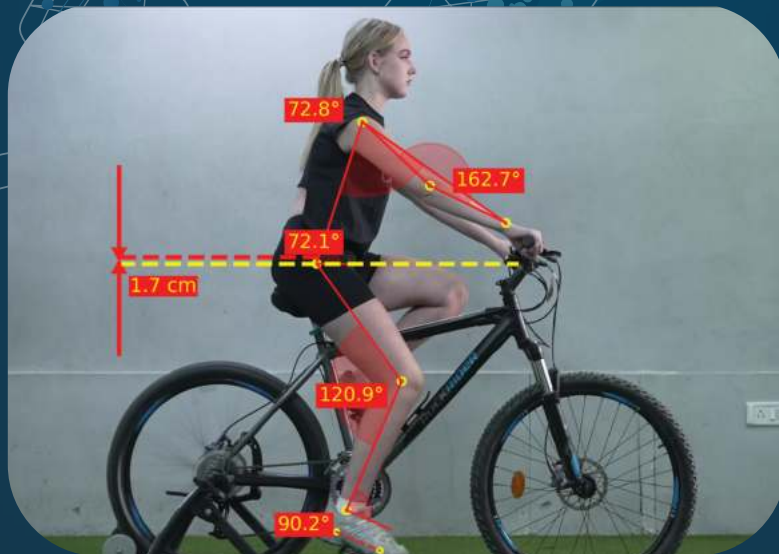


# GaitON<sup>®</sup>



## Bike Fitting Analysis

**GaitON<sup>®</sup>** is trusted by **500+ clinicians**  
globally for gait & posture analysis

**Is your center GaitON<sup>®</sup> ready?**

# WORKFLOW

A 3 step process to complete a biomechanical assessment

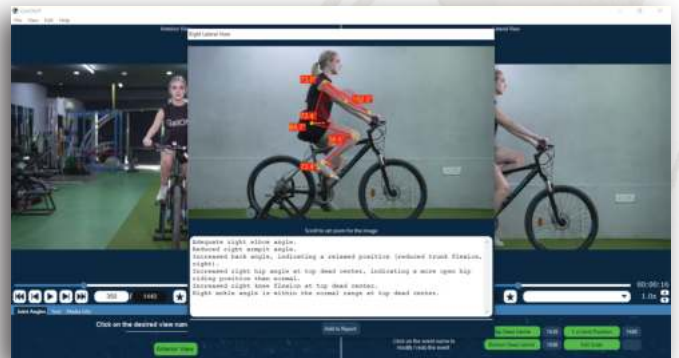


## 1. CAPTURE

Capture the motion of the cyclist using cameras.

## 2. ANALYZE

Use GaitON's inbuilt bike fitting module for analysis.



## 3. REPORT

GaitON exports the analysis result to well organised and print ready reports.

# BIKE FITTING ANALYSIS

GaitON® bike fitting software is used by 500+ clinicians globally for a detailed bike fit assessment. It helps in adjusting the bike as per the rider's body measurements, flexibility, riding goals, and any existing injuries.



## VIEWS ANALYZED



## LATERAL AND ANTERIOR VIEW

## POSITIONS

ROAD, MTB, TT, TRIATHLETE

# BIKE FITTING REPORTS : KEY FEATURES

A detailed report with reference values and with different fit positions (Road, MTB, TT, Triathlete).

KINEMATIC DATA			
LATERAL VIEW			
	Right	Left	Reference Value
<b>Arms</b>			
Arm Angle (Min)	84.2°	81.8°	72° to 80°
Arm Angle (Max)	109.8°	106.2°	95° to 103°
Arm ROM	23.7°	22.9°	15° to 20°
<b>Knee</b>			
Knee Angle (Min)	22.3°	20.7°	20° to 22°
Knee Angle (Max)	143.2°	141.7°	140° to 145°
Knee ROM	-4.7°	-5.4°	-1° to 0.5°
<b>Hip</b>			
Hip Angle (Min)	43.7°	46.3°	51° to 65°
Hip Vertical Offset	6.6 cm	2.8 cm	-4.0 cm to 3.0 cm
<b>Trunk &amp; Ankle</b>			
Back Angle (Average)	41.8°	41.8°	45° to 55°
Ankle Angle (Average)	27.7°	31.9°	20° to 30°
Elbow Angle (Average)	109.2°	106.9°	100° to 120°

ANTERIOR VIEW		
	Right	Left
Feet Style	Knock Out	Stiletto

A: Full range = 40° flexion, 20° to knee side & 40° angle = 40° flexion over flexion.  
B: knee angle = 140° flexion, 140° to knee side & 140° angle = 140° flexion over flexion.

### TOP DEAD CENTRE | Lateral View

Instant when the pedal is at the 12 o'clock position.

**Left**

Increased left elbow extension.  
Reduced left arm angle.  
Increased back angle, indicating a relaxed position (reduced trunk flexion, left).  
Increased left hip angle at top dead center, indicating a more open hip riding position than normal.  
Reduced left knee flexion at top dead center.  
Left ankle angle is within the normal range at top dead center.

**Right**

Adequate right elbow angle.  
Reduced right arm angle.  
Increased back angle, indicating a relaxed position (reduced trunk flexion, right).  
Increased right hip angle at top dead center, indicating a more open hip riding position than normal.  
Increased right knee flexion at top dead center.  
Right ankle angle is within the normal range at top dead center.

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Comparison between left and right extremity riding positions.

# BIKE FITTING REPORTS : KEY FEATURES

**BOTTOM DEAD CENTRE | Lateral View**  
Instant when the pedal is at the 6 o'clock position

**Left (LowSaddle)**

Increased left elbow extension.  
Reduced left armpit angle.  
Increased back angle, indicating a relaxed position (reduced trunk flexion, left).  
Reduced vertical hip travel between top & bottom dead center (left).  
Reduced left knee extension at bottom dead centre.  
Left ankle angle is within the normal range at bottom dead centre.

**Left (HighSaddle)**

Increased left elbow extension.  
Reduced left armpit angle.  
Increased back angle, indicating a relaxed position (reduced trunk flexion, left).  
Increased vertical hip travel between top & bottom dead center (left).  
Increased left knee extension at bottom dead centre.  
Increased left ankle plantarflexion at bottom dead centre.

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Easy comparison between different fit positions.

Automatic documentation of notes.

Right Lateral View

Scroll to set zoom for the image

Adequate right elbow angle.  
Reduced right armpit angle.  
Increased back angle, indicating a relaxed position (reduced trunk flexion, right).  
Increased right hip angle at top dead center, indicating a more open hip riding position than normal.  
Increased right knee flexion at top dead center.  
Right ankle angle is within the normal range at top dead center.

Add to Report

## TOP REFERENCES

### BIKE FITTING ANALYSIS



FitLab, UK

#### SETUP



2 Digital Cameras



Trainer



GaitON<sup>®</sup> Software

## REFERENCES



Adidas



Indian Navy



BSF



Safdarjung hospital



Hawai'i Pacific University



SRM University



Amrita Hospital



Belle Vue Clinic



Col(Dr) Rana K Chengappa  
Sports Medicine & Ortho Rehab



Perfect Bounce



Delhi Foot



Sporting Ethos

# GaitON<sup>®</sup>

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