MICROGATE

ARE YOU USING OPTOJUMP AT 20% OF ITS POTENTIAL?

STOP LIMITING OPTOJUMP NEXT TO VERTICAL JUMP TESTS

BEYOND JUMPING: FUNCTIONAL ASSESSMENT, POSTURAL CONTROL, REACTION TIME AND RUNNING ANALYSIS IN ONE SINGLE SYSTEM

MICRO PILLS

DON'T JUST MEASURE OUTPUT. UNDERSTAND MOVEMENT.

Performance metrics tell you how much: how high, how fast, how powerful. Functional analysis tells you how: the quality of movement, control, and strategy behind the result.

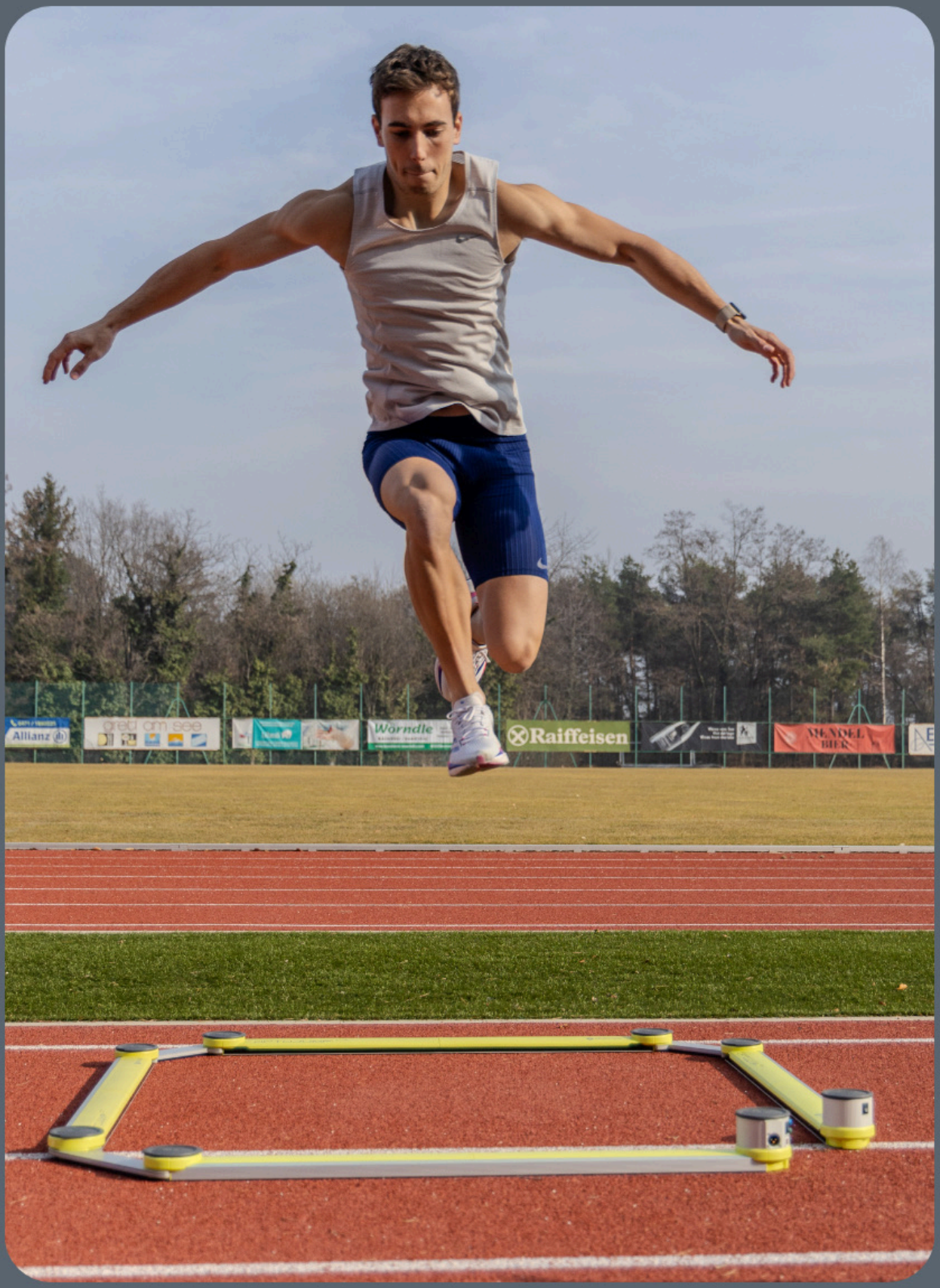
Performance tells you how much. Functional analysis tells you how.

COMMON PERCEPTION

OPTOJUMP = JUMP TESTING. TRUE. BUT NOT ONLY.

OptoJump excels at jump testing. We explored that in our previous pill. But the system was designed to analyze any foot-ground interaction.

If you only use it for jumps, you're leaving data on the table.


Allianz
Raiffeisen

EYES OPEN OR CLOSED? IT'S NOT THE SAME THING.

30 seconds eyes open. 30 seconds eyes closed. With no visual cues, the body relies on proprioceptive and vestibular signals alone, revealing the true quality of postural motor control and sensory integration.

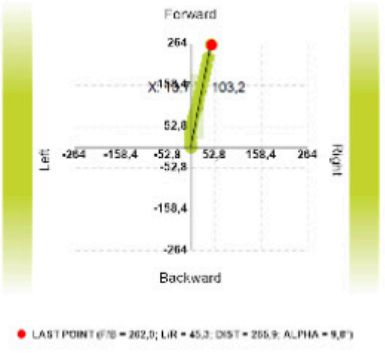
KEY PARAMETERS

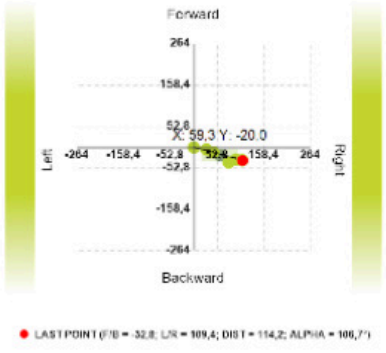
- AP and ML displacement
- Contact and flight times

If postural control collapses without visual input, the system tells you with a number.

MIP

	Eyes open	Eyes closed	Delta%
Average contact time[s]	0,684	0,854	-24,7%
Average flight time[s]	0,360	0,548	-52,3%
Asymmetry contact time[L - R %]	7,2	-25,5	32,7%
Asymmetry flight time[L - R %]	-5,7	27,8	-33,5%
CV contact time[L - R %]	11,0	29,5	-18,6%
CV flight time[L - R %]	4,7	43,4	-38,7%





HOW FAST DOES YOUR ATHLETE REACT?

Optical or acoustic stimulus → movement.

KEY PARAMETERS

- Reaction time with acoustic stimulus
- Reaction time with optical stimulus
- Inter-trial variability

Neuromuscolar response is measurable. Now also in the field.

REACTION TIME TEST

Report

OPTOJUMP

VISUAL REACTION

Athlete		Test data	
Last name:	**Test**	**Time effective:**	**00:02.41**
First name:	**Test**		
Birth date:			
Gender:	**M**		

Avg 0,432 - Max 0,466
Tempo Reazione [s]

Avg 0,317 - Max 0,494
Tempo Volo [s]

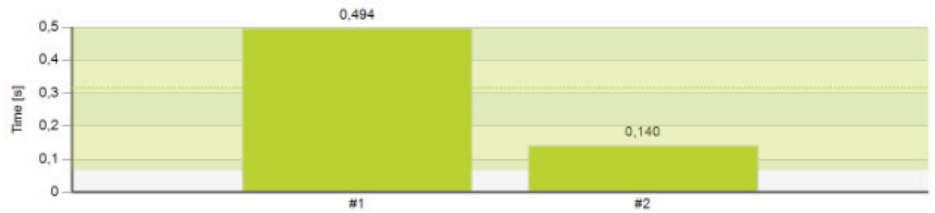
Avg 16,2 - Max 29,9
Height [cm]

TEST DATA

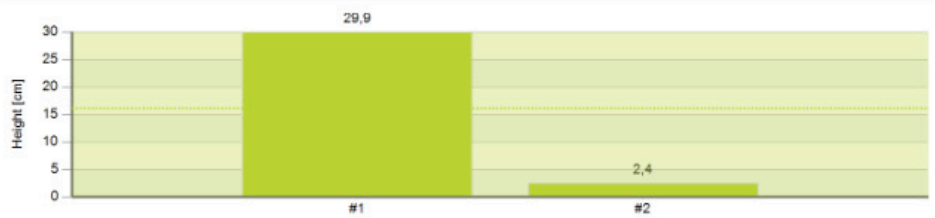
# Jump	Stimulus Time [s]	Reaction Time [s]	Flight times [s]	Height [cm]
1	4,421 ▲	0,466 ▲	0,494 ▲	29,9
2	6,252 ▼	0,399 ▼	0,140 ▼	2,4
Avg(Var)	**5,337(24,2%)**	**0,432(10,9%)**	**0,317(78,9%)**	**16,2(120,4%)**

REACTION TIME CHART

FLIGHT TIME CHART



HEIGHT CHART



MICRO PILLS

RUNNING IS NOT JUST SPEED

Modular system up to 10m+, setup in minutes.

ANALYSIS CONDITIONS

- On track or on treadmill
- Under incremental fatigue
- With different shoes

Same tool. Endless analysis conditions

NOT JUST MEASUREMENT OPTOJUMP TRAINS

A dedicated module turns OptoJump into an active training tool. During gait, MIP and running, the athlete sees their parameters in real time: absolute values and left/right difference.

ANALYSIS CONDITIONS

- Temporal parameters
- Spatial parameters
- Left/right asymmetry

The data doesn't only come after. It comes while you move.

MIP - MARCHING IN PLACE

MICRO PILLS

ONE SYSTEM. FOUR QUESTIONS YOU DIDN'T KNOW YOU COULD ASK

THE FOUR QUESTIONS

1. How is the dynamic stability?
   → **MIP**

2. How fast is the reaction?
   → **Reaction Time Test**

3. How does running change under fatigue?
   → **Running Analysis**

4. How does performance improve in real time?
   → **Biofeedback**

The tool doesn't change. The question you ask does.

SUMMARY

OPTOJUMP BEYOND JUMPING

+ **MIP:**
dynamic postural control

+ **REACTION TIME:**
neuromuscular response

+ **RUNNING ANALYSIS:**
on track or treadmill, in different conditions

+ **BIOFEEDBACK:**
live parameters during different tests in real time

YOU HAVE THE TOOL. NOW YOU HAVE THE RIGHT QUESTIONS TOO.