

Polar H10 Heart Rate & Respiration Sensor

The Polar H10, integrated with the WBT Measurement Ecosystem, is a biometric sensor device that measures athletes' and students' physiological effort capacity, resting and active heart rate values, and respiration rate with medical-grade precision.

The real-time data collected is transmitted wirelessly to the WBT Software, forming the foundation for cardiovascular performance analyses.



Feature	Description
Product Name	Polar H10 Heart Rate & Respiration Sensor
Product Description	The Polar H10 is a chest-strap biometric sensor integrated into the WBT measurement system to collect medical-grade, high-precision heart rate and respiration rate data during physiological performance and cardiovascular endurance testing.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Medical/Sports Equipment) • Data Transmission: Bluetooth / ANT+ Wireless Data Transmission • Electrode Technology: High-sensitivity ECG-based chest strap electrodes • Durability: Waterproof construction, long battery life
Measured Parameters & Analyses	The live data collected is processed by WBT Software's algorithms to generate the following indicators: • Instantaneous Heart Rate (HR): Resting and exertion heart rate data • Respiration Rate: Breathing rhythm during exertion • Cardiovascular Load Analysis: Calculation of sport-discipline aptitude profile
Usage & Application Protocol	• Duration: Real-time/simultaneous data streaming throughout the test • Position: Standing or in motion, secured to the chest area with an elastic strap • Application: The chest strap is placed directly below the rib cage; the sensor is activated and wirelessly paired with the WBT software.

SpO2 Pulse Oximeter Sensor

The SpO2 Pulse Oximeter, integrated with the WBT Measurement Ecosystem, is a medical-grade biometric sensor device that measures athletes' and students' blood oxygen saturation and instantaneous pulse values from the fingertip using a contactless, optical method.

The data collected is transmitted to the WBT Software, forming the foundation for tissue oxygenation and physiological condition analyses during exertion.



Feature	Description
Product Name	SpO2 Pulse Oximeter Sensor
Product Description	A digital sensor built to medical standards that measures blood oxygen saturation (SpO2) and instantaneous pulse data from the fingertip using optical infrared technology.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Medical Equipment) • Measurement Technology: Contactless infrared optical sensor • Data Transmission: Digital display and real-time data synchronization • Ergonomics: Portable, compact and lightweight fingertip design
Measured Parameters & Analyses	• Blood Oxygen Saturation (SpO2): Percentage expression of the oxygen level reaching the tissues • Instantaneous Pulse (Heart Rate): Pulse rhythm at the moment of measurement
Usage & Application Protocol	• Duration: Instant measurement • Position: Seated or standing, at rest • Application: The sensor is placed on the fingertip; the digital reading is recorded in the WBT software.

Digital Blood Pressure Monitor (Blood Pressure Cuff)

The Digital Blood Pressure Monitor, integrated with the WBT Measurement Ecosystem, is a diagnostic biometric device that measures athletes' and students' resting and post-exertion blood pressure (systolic/diastolic) and pulse values to medical standards.

The data collected is transmitted to the WBT Software, enabling analysis of an individual's cardiovascular health status and exertion tolerance.



Feature	Description
Product Name	Digital Blood Pressure Monitor (Blood Pressure Cuff)
Product Description	A medical device that performs precise upper-arm blood pressure measurement to identify cardiovascular health risks and monitor exertion response.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Medical Equipment) • Measurement Technology: Oscillometric digital upper-arm measurement mechanism • Data Transmission: Digital display and real-time data logging • Ergonomics: Automatically inflating, adjustable cuff compatible with different arm circumferences
Measured Parameters & Analyses	• Systolic Blood Pressure: Intravascular pressure at the moment of cardiac contraction • Diastolic Blood Pressure: Intravascular pressure at the moment of cardiac relaxation • Resting Pulse: Heart rate at the moment of measurement
Usage & Application Protocol	• Duration: Approximately 30–45 seconds • Position: Seated, arm at heart level, body completely at rest • Application: The cuff is wrapped around the upper arm; automatic measurement is started with a single button press, and the resulting values are recorded in the WBT software.

Digital Body Weight Scale

The Digital Scale, integrated with the WBT Measurement Ecosystem, is a fundamental biometric device that measures the total body weight of athletes and students with millimeter-level precision.

The weight data collected is transmitted to the WBT Software in real time, forming the foundation for Body Mass Index (BMI), growth and development trend, and sport-aptitude analyses.



Feature	Description
Product Name	WBT Digital Body Weight Scale
Product Description	A digital scale that measures an individual's total body mass with high precision, serving as the first step in body composition and growth tracking.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Medical/Sports Equipment) • Data Transmission: Digital display and real-time data synchronization • Precision: High-precision, gram-level load-cell sensors • Base Structure: Non-slip base providing maximum stability on flat, hard surfaces
Measured Parameters & Analyses	• Body Weight: Total body mass (kg) • Rate of Weight Change: Monthly growth and development tracking (kg/month – software-calculated) • Body Mass Index (BMI): Automatically calculated by combining with height data (software-calculated)
Usage & Application Protocol	• Duration: Approximately 13 seconds • Position: On flat ground, standing upright, barefoot or in light sportswear • Application: The individual steps onto the scale; once a stable stance is achieved, the measured weight data is recorded in the WBT software.

Skinfold Caliper

The Skinfold Caliper, integrated with the WBT Measurement Ecosystem, is a biometric device that measures athletes' and students' body fat percentage and regional subcutaneous fat thickness with millimeter-level precision.

The skinfold data collected is transmitted to the WBT Software, enabling body composition, lean mass, and somatotype (body type) analyses.



Feature	Description
Product Name	Skinfold Thickness Measuring Device (Skinfold Caliper)
Product Description	A medical/sports measurement device used to determine body fat percentage and composition by measuring subcutaneous fat thickness at specific anatomical sites.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Medical/Sports Equipment) • Mechanism: Precision spring-loaded jaw mechanism applying constant pressure • Precision: Millimeter (mm) precision reading scale • Ergonomics: Design enabling comfortable one-handed grip and standard compression pressure
Measured Parameters & Analyses	• Triceps Skinfold: Posterior upper-arm skinfold thickness • Subscapular Skinfold: Skinfold thickness below the shoulder blade • Suprailiac Skinfold: Skinfold thickness above the iliac crest • Medial Calf Skinfold: Skinfold thickness on the inner calf • Body Fat Percentage (%Body Fat): Automatically calculated from the data by WBT algorithms
Usage & Application Protocol	• Duration: Approximately 13 seconds • Position: On flat ground, relaxed, standing upright • Application: The skinfold at the relevant anatomical site is pinched with the thumb and index finger; the caliper jaws are placed on the fold, the value is read, and entered into the WBT software.

Hand Dynamometer (Grip Strength Meter)

The Digital Hand Dynamometer, integrated with the WBT Measurement Ecosystem, is a motor-skills testing device that measures athletes' and students' right- and left-hand isometric grip strength in kilograms with high precision.

The data collected is transmitted to the WBT Software in real time, enabling analysis of overall body strength, muscular symmetry, and sport-discipline aptitude.

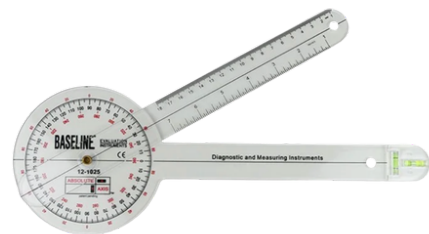


Feature	Description
Product Name	Hand Dynamometer (Hand Grip Strength Meter)
Product Description	A digital measuring device used to determine upper-extremity isometric muscle strength and right/left hand strength imbalances.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Sports/Medical Equipment) • Data Transmission: Digital display and real-time data logging • Ergonomics: Grip mechanism adjustable to different hand and finger sizes • Precision: High-precision digital load-cell
Measured Parameters & Analyses	• Right Hand Grip Strength (Hand Grip Right): Maximum right-hand isometric strength (kg) • Left Hand Grip Strength (Hand Grip Left): Maximum left-hand isometric strength (kg) • Strength Asymmetry & Overall Strength Profile: Analysis of the strength difference between the two hands and sport aptitude
Usage & Application Protocol	• Duration: Approximately 20 seconds • Position: Standing upright, arm relaxed at the side of the body, elbow fully extended • Application: The individual squeezes the device with maximum force; the peak force value is read and recorded in the WBT software.

Joint Angle Measurement Device – Goniometer Angle Meter

The Reaction Test Kit, integrated with the WBT Measurement Ecosystem, is a motor-skills testing device that measures athletes' and students' neuromuscular reaction time (reaction speed) to a visual stimulus, expressed in centimeters (cm) and milliseconds (ms).

The data collected is transmitted to the WBT Software, enabling analysis of reflexes, focus, and neuromotor speed.



Feature	Description
Product Name	Reaction Test Kit (Standard Measurement Ruler)
Product Description	A measurement device based on catching a freely dropped object, used to determine an individual's hand-eye coordination and simple reaction time.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Measurement Apparatus) • Measurement Scale: Clear millimeter and centimeter graduation markings • Material: Rigid construction with standard weight and surface resistance • Standardization: Standard 30 cm measurement scale range
Measured Parameters & Analyses	• Drop Distance (cm): Scale of the distance the ruler falls before being caught between the fingers • Reaction Time (ms): Response time automatically calculated from the catch distance by WBT algorithms
Usage & Application Protocol	• Duration: Approximately 15–20 seconds • Position: Seated upright in a chair, forearm fixed on a table/support surface, hand poised in the air ready to catch • Application: The ruler is released without warning; the individual catches it as quickly as possible between the thumb and index finger. The point at which it is caught is entered into the WBT software.

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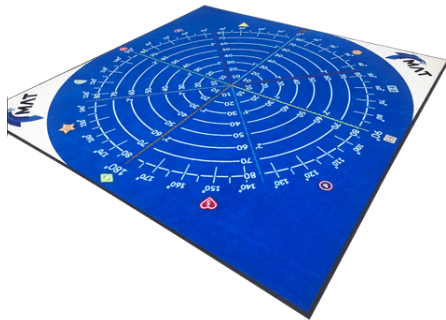


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Measured Parameters & Analyses	• Drop Distance (cm): Scale of the distance the ruler falls before being caught between the fingers • Reaction Time (ms): Response time automatically calculated from the catch distance by WBT algorithms
Usage & Application Protocol	• Duration: Approximately 15-20 seconds • Position: Seated upright in a chair, forearm fixed on a table/support surface, hand poised in the air ready to catch • Application: The ruler is released without warning; the individual catches it as quickly as possible between the thumb and index finger. The point at which it is caught is entered into the WBT software.

Vertical Jump Measurement Test

The Optical Jump and Contact Measurement System, integrated with the WBT Measurement Ecosystem, is an optical sensor device that measures athletes' and students' vertical jump height, ground contact time, and Reactive Strength Index (RSI) in milliseconds (ms) and centimeters (cm) with high precision.

The data collected is transmitted to the WBT Software, enabling analysis of lower-extremity explosive power, elastic strength, and neuromuscular quickness.



Feature	Description
Product Name	Vertical Jump Measurement Device
Product Description	A wireless testing device that precisely measures jump height and ground contact time based on the interruption and reconnection of infrared beams between two optical bars placed opposite each other at ground level.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Biomechanical Optical Test Equipment) • Detection Technology: High-precision, opposing infrared (LED/Optical) sensor array • Precision: Millisecond-level (1/1000 s) detection of flight time and ground contact time • Structure & Ergonomics: Impact-resistant dual-bar structure that can be placed flush with the ground, with wireless connectivity support
Measured Parameters & Analyses	• Jump Height (cm): Net vertical jump distance calculated from flight time • Ground Contact Time (ms): The time, in milliseconds, the foot remains in contact with the ground • Reactive Strength Index (RSI): Explosive elastic power analysis based on the ratio of jump height to contact time (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 10–15 seconds (for single or repeated jump tests) • Position: Standing upright and ready to jump in the area between the two optical bars • Application: The individual jumps vertically between the bars; flight time and contact time are automatically calculated from the beam-break and reconnection moments and recorded in the WBT software.

Y Balance Test (Floor Mat)

The Y Balance Test Mat, integrated with the WBT Measurement Ecosystem, is a motor-skills testing device that measures athletes' and students' dynamic balance, lower-extremity reach distance, and neuromuscular control ability in centimeters (cm). The data collected is transmitted to the WBT Software, enabling analysis of dynamic balance performance, left/right leg asymmetry, and lower-extremity injury risk.



Feature	Description
Product Name	Y Balance Test Equipment (Floor Test Mat)
Product Description	A floor mat/poster with standardized measurement lines used to measure the maximum reach distance of the free foot in the anterior, posteromedial, and posterolateral directions while standing on one leg.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Sports Equipment) • Material: Durable, easy-to-clean vinyl/PVC material with a non-slip underside • Measurement Scale: Clear millimeter/centimeter reach lines in 3 directions, separated by 135-degree angles • Portability: Rollable design, lightweight and practical for field applications
Measured Parameters & Analyses	• Anterior (Front) Reach Distance (cm): Separately for right and left foot • Posteromedial (Back-Inner) Reach Distance (cm): Separately for right and left foot • Posterolateral (Back-Outer) Reach Distance (cm): Separately for right and left foot • Composite Balance Score Relative to Leg Length (%): Overall balance and asymmetry score normalized to leg length (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 2-3 minutes (for both legs) • Position: Standing on one foot fixed at the center point of the mat, hands locked on the hips (pelvis) • Application: Without losing balance, the individual touches the farthest point in each of the 3 directions with the free foot; the distances reached are recorded in the WBT software.

Biometric Breadth Caliper

The Biometric Breadth Caliper, developed specifically for the WBT Measurement Ecosystem, is a hybrid device that measures athletes' and students' skeletal/bone structure breadths (shoulder, hip, etc.) with millimeter level precision.

A digital Renpho sensor base is combined with a WBT custom-designed 3D-printed long-jaw attachment, enabling the collected data to be transmitted to the WBT Software via Bluetooth.



Feature	Description
Product Name	WBT Biometric Breadth Caliper
Product Description	A custom-built anthropometric device integrating a digital tape sensor with a 3D-printed jaw module to precisely measure the transverse dimensions and bone breadths of the skeletal system.
Key Technical Features	• Manufacturing Type: Custom Design (WBT 3D-Printed Module + Renpho Sensor Integration) • Data Transmission: Bluetooth Wireless Synchronization • Custom Attachment: WBT-designed 3D-printed long-jaw module that grips bony landmarks • Precision: Millimeter-level digital measurement with real-time transmission
Measured Parameters & Analyses	• Shoulder Breadth (Biacromial Breadth – cm): Distance between the two acromion processes • Hip Breadth (Biiliac/Bicristal Breadth – cm): Width between the iliac crests • Skeletal Structure & Somatotype Analysis: Body frame breadth and sport-apitude profile (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 15-20 seconds • Position: Standing upright, arms relaxed at the sides of the body • Application: The tips of the long-jaw attachment are placed on the relevant bony landmarks; the value recorded by the digital sensor is transmitted to the WBT software via Bluetooth.

Biometric Length Meter

The Biometric Length Meter, developed specifically for the WBT Measurement Ecosystem, is a hybrid device that measures athletes' and students' limb lengths (arm, leg, arm span, etc.) with millimeter-level precision.

A digital Renpho sensor base is combined with a WBT custom-designed 3D-printed short-jaw attachment, enabling the collected data to be transmitted to the WBT Software via Bluetooth.



Feature	Description
Product Name	WBT Biometric Length Meter
Product Description	A custom-built anthropometric device integrating a digital tape sensor with a 3D-printed short-jaw module to precisely measure the longitudinal lengths and limb dimensions of the skeletal system.
Key Technical Features	• Manufacturing Type: Custom Design (WBT 3D-Printed Module + Renpho Sensor Integration) • Data Transmission: Bluetooth Wireless Synchronization • Custom Attachment: WBT-designed 3D-printed short-jaw module that aligns easily with anatomical reference points • Precision: Millimeter-level digital measurement with real-time transmission
Measured Parameters & Analyses	• Arm Length (cm): Distance from the shoulder point to the tip of the middle finger • Leg Length (cm): Distance from the iliac/thigh reference point to the sole of the foot • Arm Span (cm): Total width between fingertips with arms spread sideways • Segmental Ratios & Growth Tracking: Limb-to-height ratios and sport-aptitude profile (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 15-20 seconds • Position: Standing upright or with arms spread sideways, depending on the limb being measured • Application: The reference tip of the short-jaw attachment is placed at the starting point, the tape is drawn out and aligned with the end point; the value is transmitted to the WBT software via Bluetooth.

Digital Balance and Force Platform (Force Plate)

The Digital Force Platform (Force Plate), integrated with the WBT Measurement Ecosystem, is a biomechanical analysis device that uses high-precision load sensors to measure athletes' and students' static and dynamic balance, weight transfer, postural sway (COP), and ground reaction forces.

The data collected is transmitted to the WBT Software in real time via Bluetooth, enabling analysis of neuromuscular control, balance symmetry, and fall/injury risk.



Feature	Description
Product Name	Digital Balance and Force Platform (Force Plate)
Product Description	A medically and athletically calibrated digital platform that assesses postural stability by measuring the vertical force distribution an individual exerts on the ground and microscopic deviations in the center of pressure (COP).
Key Technical Features	• Manufacturing Type: Custom Design (WBT Hardware and Sensor Integration) • Data Transmission: Bluetooth Wireless Synchronization • Sensor Technology: High-frequency, high-precision load-cell array • Ergonomics & Structure: Non-slip, low-profile, durable platform surface providing comfortable two-footed standing
Measured Parameters & Analyses	• Center of Pressure Sway Area (mm² – COP Area): Magnitude of postural stability and balance area • Right/Left Weight Distribution Percentage (%): Load transfer and force symmetry between legs • Dynamic & Static Balance Score: Neuromuscular control, balance index, and injury risk analysis (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 30-60 seconds (depending on the test protocol) • Position: Standing upright on the platform, eyes open/closed, on one or both feet • Application: The individual stands on the platform and remains still for the specified duration; the force and balance data detected by the sensors are automatically recorded in the WBT software via Bluetooth.

Laser Height Meter

The Laser Height Meter, developed specifically for the WBT Measurement Ecosystem, is a custom-designed device that measures athletes' and students' height, sitting height, and vertical distance parameters with millimeter-level precision.

An industrial laser distance-sensor base is combined with a WBT custom-designed 3D-printed mount and alignment attachment, enabling the collected data to be transmitted to the WBT Software.



Feature	Description
Product Name	WBT Laser Height Meter
Product Description	A custom-built device that uses optical laser technology, in place of a traditional stadiometer, to measure height and vertical anthropometric dimensions with high accuracy and without physical contact.
Key Technical Features	• Manufacturing Type: Custom Design (WBT 3D-Printed Mount + Laser Sensor Integration) • Measurement Technology: Contactless precision optical laser distance sensor • Custom Attachment: WBT-designed 3D-printed mount module ensuring perfect perpendicular alignment to a wall or measuring pole • Precision: Millimeter-level digital distance reading
Measured Parameters & Analyses	• Standing Height (cm): Vertical distance from the floor to the top of the head (vertex) • Sitting Height (cm): Vertical distance from the sitting surface to the top of the head • Growth & Body Proportions: Growth tracking via height/arm-span and sitting-height ratios (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 10 seconds • Position: Standing upright on the measurement surface with head, back, and heels aligned • Application: The laser mount is brought to the top of the head; the distance the laser beam travels to the floor/ceiling is read digitally and entered into the WBT software.

Laser Photocell Timing System

The Laser/Optical Photocell System, integrated with the WBT Measurement Ecosystem, is a timing test device that measures athletes' and students' acceleration, sprint, agility, and reaction times in milliseconds (ms) with high precision.

The data collected is transmitted to the WBT Software, enabling analysis of maximum speed, acceleration capacity, split times, and performance progression.



Feature	Description
Product Name	Laser / Optical Photocell Timing System
Product Description	A wireless timing device that detects athletes' running times with millisecond accuracy — free of human reaction error — based on the interruption of an infrared/laser beam at the start, intermediate, and finish points.
Key Technical Features	• Manufacturing Type: Off-the-shelf (Standard Biomechanical Timing Equipment) • Timing & Precision: High-precision time measurement at millisecond (1/1000 s) level • Data Transmission: Wireless synchronization and real-time data transmission • Structure & Ergonomics: Height-adjustable tripod legs, optical alignment sensors, and a durable body suited to field conditions
Measured Parameters & Analyses	• Sprint & Acceleration Times (s / ms): Times over distances such as 5m, 10m, 20m, 30m, and split times • Agility & Shuttle Run Times (s): Direction-change and reactive-run completion times • Speed & Acceleration Profile: Time to reach maximum speed and acceleration capacity (software-calculated by WBT)
Usage & Application Protocol	• Duration: Between 5–30 seconds, depending on the test protocol • Position: Stationary, ready to run, behind the starting gate or on the designated line • Application: Timing starts automatically the moment the individual passes through the gate and breaks the beam; times are recorded in the WBT software in real time as the individual passes through the intermediate and finish gates.

WBT Biometric Circumference Meter

The Biometric Circumference Meter, developed specifically for the WBT Measurement Ecosystem, is a hybrid device that performs trunk and limb circumference measurements (chest, waist, hip, thigh, etc.) for athletes and students with millimeter-level precision.

A digital Renpho sensor base is combined with a WBT custom-designed 3D-printed locking clip, enabling the collected data to be transmitted to the WBT Software via Bluetooth.



Feature	Description
Product Name	WBT Biometric Circumference Meter
Product Description	A custom-built anthropometric device integrating a digital tape sensor with a 3D-printed locking clip to measure circumferences at standard tension, for the purpose of tracking body composition and regional muscle/fat distribution.
Key Technical Features	• Manufacturing Type: Custom Design (WBT 3D-Printed Clip + Renpho Sensor Integration) • Data Transmission: Bluetooth Wireless Synchronization • Custom Attachment: WBT-designed 3D-printed ergonomic clip module that easily locks the tape end with one hand • Precision: Millimeter-level digital measurement at standard tension, with real-time transmission
Measured Parameters & Analyses	• Regional Circumference Measurements (cm): Head, chest, waist, hip, thigh, and calf circumferences • Waist-to-Hip Ratio (WHR): Central adiposity and health risk analysis (software-calculated by WBT) • Growth & Hypertrophy Tracking: Muscle mass gain and body-shaping profile (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 15-20 seconds (per site) • Position: Standing relaxed and upright • Application: The tape is wrapped around the relevant anatomical site and locked into the 3D-printed clip; the measured value is transmitted to the WBT software by pressing the Bluetooth button.

Digital Sit-and-Reach Flexibility Device

The Digital Sit-and-Reach Flexibility Device, developed specifically for the WBT Measurement Ecosystem, is a hybrid testing device that measures athletes' and students' trunk, hamstring, and lower-back flexibility levels in centimeters (cm) with millimeter-level precision.

A digital Renpho sensor base is combined with a WBT custom-designed 3D-printed reach platform and sliding cursor, enabling the collected data to be transmitted to the WBT Software via Bluetooth.



Feature	Description
Product Name	WBT Digital Sit-and-Reach Flexibility Device
Product Description	A custom-built testing device, serving as the digitized version of the classic sit-and-reach box, that precisely measures trunk flexion flexibility and hamstring muscle length.
Key Technical Features	• Manufacturing Type: Custom Design (WBT 3D-Printed Platform + Renpho Sensor Integration) • Data Transmission: Bluetooth Wireless Synchronization • Custom Attachment: WBT-designed 3D-printed reach cursor with a footrest surface that slides without catching • Precision: Precise digital distance measurement with real-time data transmission
Measured Parameters & Analyses	• Sit-and-Reach Distance (cm): Maximum forward reach distance relative to the sole-of-foot line (zero point) • Posterior Chain Flexibility Score: Hamstring, lower-back, and spinal flexibility profile (software-calculated by WBT)
Usage & Application Protocol	• Duration: Approximately 15-20 seconds • Position: Seated, legs extended, soles of the feet fully in contact with the platform • Application: Without bending the knees, the individual places their hands on top of one another and slowly pushes the 3D-printed cursor forward; the peak distance reached is transmitted to the WBT software via Bluetooth.