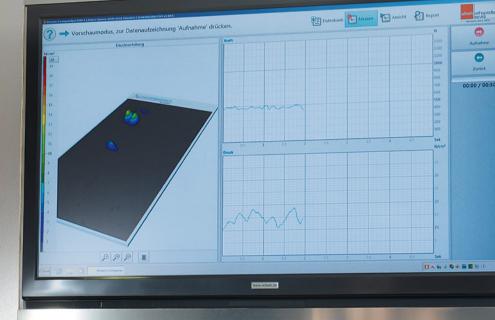


Stance analysis | Gait analysis | Running analysis | Foot scan









Foot scanner, pressure measuring panel, treadmill – three systems, one software –

SCHEINWORKS measurement and analysis systems consist of a range of hardware and software modules which can be combined and compiled to suit your requirements. Only one piece of software is used throughout:

- Clearly laid out and intuitively usable
- Data management
- Simple, fast data backup and reinstatement via USB interface
- Report generator
- Data export

All modules follow the objective of individual patient treatment through:

- professional measurement of movement or posture
- precise analysis

Use our 2D foot scanner with its diagram of the foot sole in original size as a case history tool and as a construction base for your individual insole provision.





You can analyse your patient's movement or posture using a pressure measuring panel or a treadmill with integrated pressure measuring panel in order to plan, document and optimise individual

treatment. A range of camera modules is available for extended analysis.

Foot scanner		4–5
Pressure meas	uring panel	6–7
Treadmills		8–11
Gait training		12–13
Accessories	• Cameras • Tripod • Contrast panels • Card reader	14–15

Computer





Symbols











Rehabilitation



Use the SCHEINWORKS DigiPED to scan your customer's foot sole as a digital scan within a few seconds.

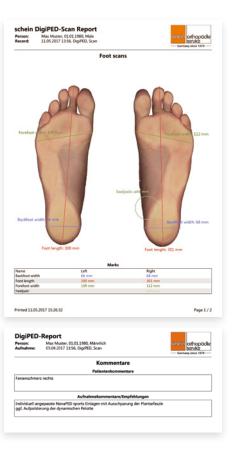
Using the software you can determine length and width dimensions or label and document distinctive locations, among other things. If the scanner is extended with a camera, the analysis and documentation of the foot positioning, especially of the heel, is also possible. For your insole construction you can use the 1:1 depiction of the foot scan directly on your screen or print it out (DIN A3 printer required)

Furthermore, the scanned-in footprint can be used as a construction basis for our SCHEINWORKS construction program. https://construction.scheinworks.de





	DigiPED Foot Scanner Item no. 032211100	
	1101110.032211100	
Dimensions (L x W x H)	65.4 x 44.4 x 11.3 cm	
Weight	approx. 16.6 kg	
Scanning range (L x W)	42.2 x 30.5 cm	
Max. user weight	approx. 200 kg	
Scanning time	approx. 8 secs.	
PC interface	USB 2.0 high-speed	
Power supply	24 V DC	
Power consumption	standby 8W, max. < 36W	
Bulb type	LED	
Colour (outside/inside)	light grey/grey	



Presentation

If you do not wish to integrate the scanner into the floor, we recommend a presentation plinth for the measuring room or salesroom.

The scanner is protected by the plinth and elegantly integrated at the same time. The connected plinth serves as a safe working area for a laptop or touch PC.

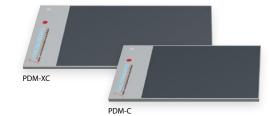
Item no. 032213000 Dimensions: 65 x 86 x 110 cm



Pressure measuring panel 🚺 🚺

With the SCHEINWORKS pressure measuring plates, gait, stance and roll-off analyses can be carried out quickly and easily. They capture the static and dynamic pressure distribution under the feet when standing or Walking, barefoot or with shoes.

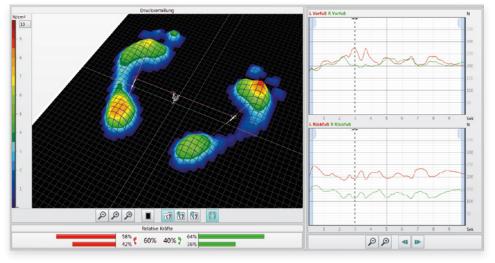
The pressure measuring plates have a low height and are available in different sizes. Maximum flexibility can be achieved with the PDM-XC and -C version, as these include both the power supply and the data transmission with the help of only one USB connection. In order to increase the sensor area it is possible to use the measuring plates as a training course by combining two of either the FDM-1.5 and/or FDM-2 platforms of the same type with each other.

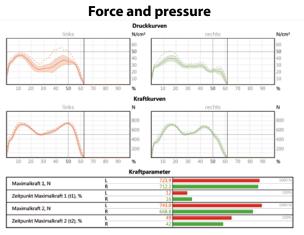


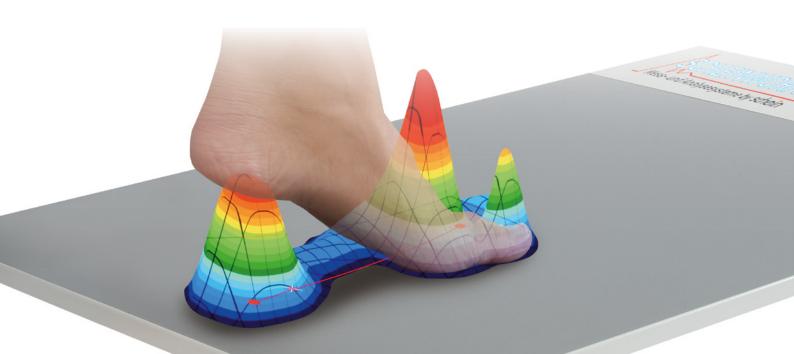


	Pressure measuring plate PDM-XC Item no. 032115200	Pressure measuring plate PDM-C Item no. 032115210	Pressure measuring plate FDM-1.5 Item no. 032115144	Pressure measuring plate FDM-2 Item no. 032115150
Dimensions (L x W x H):	54,0 x 40,0 x 1,5 cm	68,0 x 40,0 x 1,5 cm	158.0 x 60.5 x 2.1 cm	212.2 x 60.5 x 2.1 cm
Weight	4,9 kg	5,8 kg	approx. 16.5 kg	approx. 25 kg
Sensor area (L x W)	40,6 x 33,9 cm	54,2 x 33,9 cm	144.0 x 56.0 cm	203.0 x 56.0 cm
No. of sensors	1920	2560	11264	15360
Resolution	1,4 sensors/cm ² (1/3")	1,4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")
Measuring frequency	120 Hz	120 Hz	100 Hz,	100 Hz,
			optional 200 Hz or 300 Hz	optional 200 Hz or 300 Hz
Measuring range	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²
Precision	±5 % of final value	±5 % of final value	±5 % of final value	±5 % of final value
Sensor type	capacitive	capacitive	capacitive	capacitive
PC interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0









Treadmills

All SCHEINWORKS treadmills are fitted with a pressure measuring plate integrated under the conveyor belt. These have capacitive sensors which can measure pressure distribution whilst standing and also whilst walking and running. The software calculates pressure, time, step and symmetry parameters for the analysis. These are shown clearly and manageably in the software and in the report.

All treadmills are supplied with the gait analysis module as standard and can be optionally extended with the standard analysis module. SCHEINWORKS treadmills are available for a range of deployment areas in different versions.





The MOBILE treadmill is a practical solution for limited spaces. Thanks to its lightweight construction, it is ideal for mobile use and can be assembled and disassembled in just a few steps.



Technical data

		FDM-TS30 Item no. 032110026
Treadmill	Size (L x W x H)	160 x 80,4 x 136 cm
	Size, folded (L x W x H)	160 x 80,4 x 28 cm
	Step height	18 cm
	Weight	approx. 75 kg
	Running area (L x W)	120 x 41 cm
	Speed	1 - 13 km/h in 0.1 km/h Steps
	Motor	1,1 kW / 1,5 PS
	Gradient setting	manually, 2 Steps
	Max. user weight	120kg
	Colour	white / black
Sensor plate	Sensor area (L x W)	94.8 x 40.6 cm
Sensor place	No. of sensors	5376
	Resolution	1.4 sensors/cm ² (1/3")
	Measuring frequency	100 Hz
	Measuring range	1–80 N/cm ²
	Precision	±5 % of final value
	Sensor type	capacitive
	PC interface	USB

MOBILE treadmill



BASIC

The BASIC treadmill enables dynamic standing and gait analysis thanks to integrated pressure measurement technology. The treadmill is especially suitable for small rooms due to its size and weight.

PROFESSIONAL



The PROFESSIONAL treadmill stands out due to its extreme quietness of movement, its low weight and compact dimensions. It is suitable for gait and running analysis in the orthopaedic (shoe) technology sector as well as in the sports retail sector.



		BASIC treadmill FDM-TR40 ArtNr. 032110023	PROFESSIONAL treadmill FDM-TR70 ArtNr. 032110025	PROFESSIONAL treadmil FDM-TR70L ArtNr. 032110024
Treadmill	Dimensions (L x W x H)	177 x 69 x115 cm	189 x 84	x 137 cm
	Step height	16 cm	16	cm
	Weight	approx. 88 kg	approx	100 kg
	Running area (L x W)	140 x 46 cm	150 x 51 cm	
	Speed	1 - 18 km/h in 0.1 km/h steps	0,8–20 km/h in 0.1 km/h steps	
	Motor	1,65 kW	2,94	kW
	Gradient setting	0 - 15 % in 1 % steps	0 - 15 % ir	1% steps
	Max. user weight	120 kg	150 kg	
	Colour black / green		black /	green
Sensor plate	Sensor area (L x W)	94,8 x 40,6 cm	108,4 x 47,4 cm	94,8 x 40,6 cm
	No. of sensors	5376	7168	5376
	Resolution	1,4 sensors/cm ² (1/3")	1,4 sensors/cm ² (1/3")	
	Measurement frequency	100 Hz	120 Hz optional 240 Hz	100 Hz
	Measurement range	1–80 N/cm ²	1–120	N/cm ²
	Precision	±5 % final value	±5 %	(FS)
	Sensor type	capacitive	capa	citive
	PC interface	USB	U	SB



The EXPERT treadmill is also suitable for gait training as well as gait analyses. To offer your customers a high level of safety it can be fitted with long handrails, a safety handle and armrests if required. You have a choice between two different sizes and resolutions of measuring areas for the integrated pressure measuring panel. The EXPERT treadmills additionally fulfil all normative requirements for use in the medical sector due to their technical design.

Optional



Long handrail Item no. 032154000



Armrests Item no. 032155000



Safety handle with fall stop incl. best harness Item no. 032149000

Technische Daten

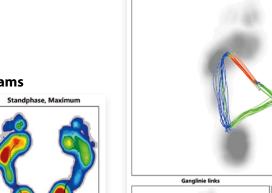
		EXPERT treadmill FDM-THPL-S-3i Item no. 032110042	EXPERT treadmill FDM-THPL-S-2i Item no. 032110041	
Treadmill	Dimensions (L x W x H)	210 x 85	x 130 cm	
	Step height	23 cm		
	Weight	approx. 211 kg		
	Running area (L x W)	150 x 50 cm		
	Speed	0.1-18 km/h in 0.1 km/h steps		
	Motor	2.2 kW		
	Gradient setting	0-20 % in 0.1% steps		
	Max. user weight	250 kg		
	Colour	pure white RAL 9010		
Sensor plate	Sensor area (L x W)	94.8 x 47.4 cm	91.4 x 49.5 cm	
	No. of sensors	6772	2808	
	Resolution	1.4 sensors/cm ² (1/3")	0.6 sensors/cm ² (1/2")	
	Measuring frequency	120 Hz, optional 240 Hz	120 Hz	
	Measuring range	1–120	N/cm ²	
	Precision	±5 % of final value		
	Sensor type	сара	citive	
	PC interface	USE	3 2.0	

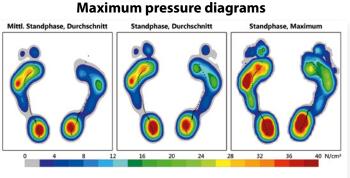
h/p/cosmos 🗐

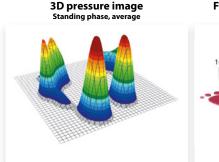
The **EXPERT** treadmills are also available with medical approval.

Standard report treadmill

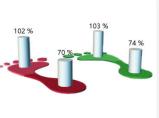
The sensor panel integrated into all treadmills provides an analysis of the pressure, force, time and step parameters as standard in addition to an evaluation of the gait symmetry. The measured results are displayed on-screen with the click of a mouse and can be printed out in colour. The measured results are compiled in a clearly-laid out report which can be individually configured.

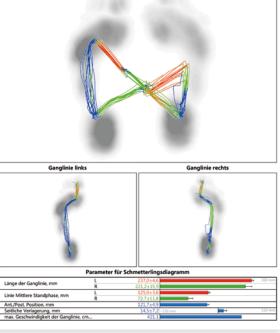




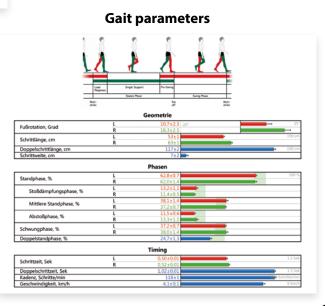


Force front foot/rear foot





COP analysis



Gait training

SCHEINWORKS gait training is a system which is based on the SCHEINWORKS gait analysis and is designed for training neurological or orthopaedic gait defects. The repeated comparative gait analysis serves as a measurement of results.



Gait parameters such as step length, step width and foot angle can be taken from the gait analysis and corrected individually depending on the therapy objective. The corrected steps (or the successive corrected steps) are projected onto the running surface with the aid of a projector so that patients can attempt to match them with their own steps.

DEN







Virtual training module



The "Virtual training" module provides training for concentration and automation of the gait whilst walking. This takes place using a virtual running environment in which various tasks have to be fulfilled and which also requires continuous variation of the steps. Training can be individually adapted to the patient thanks to an option for selecting various levels.

You can design your own training levels with the aid of the optional editor.

The MOBILE and BASIC treadmill is not suitable for the "Virtual training" module.

We recommend a monitor with a screen size of at least 40" when using this module. It is also possible to use an LED projector.

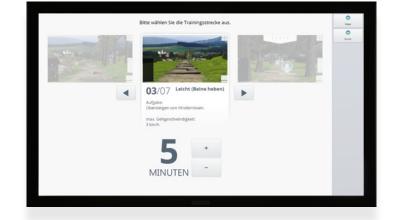
Gait training module (step projection) for EXPERT treadmills

Virtual training editor (Forest walk)

Virtual training module (Forest walk)

ltem no. 032135000 ltem no. 032135001

Item no. 032136040





Accessories





The treadmills and pressure measuring panels can be supplemented with camera modules for extended analysis. The camera and the pressure measuring panels are synchronised with each other so that the camera images can be allocated to the appropriate pressure measurement images.

Cameras are available as HD or as high-speed versions. In order to obtain optimum illumination for good image quality, a range of cameras with integrated lighting units consisting of power LEDs are available. Multi-functional tripods are available to mount camera modules.





HD camera (SYNCCam)



HD WebCam with integrated lighting unit (SYNCLightCam) High-speed camera with integrated lighting unit (HS-SYNCLightCam) Similar to fig. Multifunctional tripod mobile Item no. 032133000 Multifunctional tripod with baseplate Item no. 032133001

	SYNCCam Item no. 032145001	SYNCLightCam Item no. 032146001	HS-SYNCLightCam Item no. 032148001
Dimensions approx. (W x H x D)	11 x 12.5 x 5 cm	22 x 18.3 x 8 cm	22 x 18.3 x 8 cm
Weight	190 g	800 g	800 g
Measuring frequency	30 Hz	30 Hz	30/60/100/120 Hz
Camera	HD	HD	High speed
PC interface	USB 2.0	USB 2.0	USB 3.0
Light colour		LED-6200 K	LED-6200 K
Light intensity		1550 lm, infinitely adjustable	1550 lm, infinitely adjustable





Use the contrast panels to lend your running laboratory both a professional and technical appearance at the same time. They enable precise horizontal and vertical alignment of the camera and offer excellent contrast to skin.

Contrast panels can be attached as a direct extension to the wall to the side or in front of the treadmill. As an alternative we can offer you a contrast roll-up which can be positioned in front or behind the treadmill.

	Wall contrast panel large Item no. 032131000	Wall contrast panel small Item no. 032130000	Contrast roll-up Item no. 099989097
Dimensions (W x H)	200 x 140 cm	75 x 75 cm	85 x 205 cm
Weight	2.0 kg	1.0 kg	3.5 kg

All SCHEINWORKS pressure measurement systems are delivered with PC systems in order to guarantee proper functioning. These have been specially configured to match the requirements of the SCHEIN-WORKS FDM software and are completely up-to-date in terms of technology. You can select between notebook, tower PC or touch PC.



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