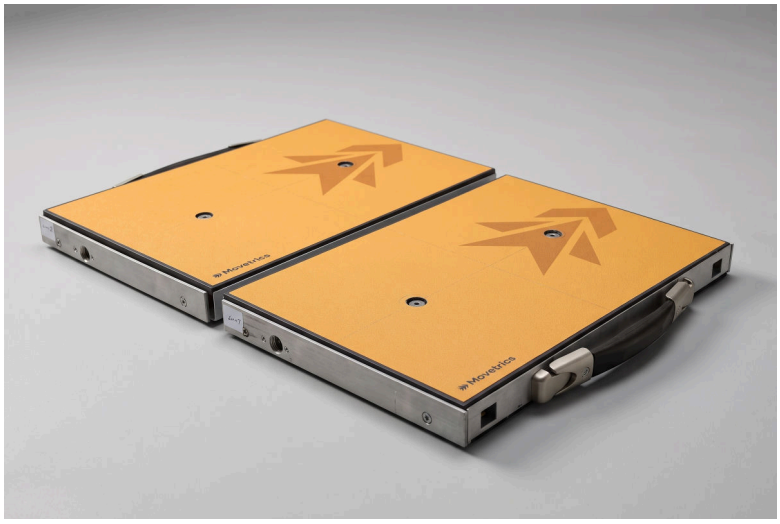
FORCE PLATE · COMPACT

F1-3D S

The compact plate. Three forces and two moments on 400 × 280 mm and 10 kg: carry it to the athlete, the clinic or the classroom.



Two F1-3D S, joined into one platform.

5
components as standard: Fx, Fy, Fz, Mx and My. Mz on request

30 mm
high, for any flat, rigid floor

10 kg
400 × 280 mm, with an R12 anti-slip top

40 × 56
cm platform from two plates, joined with magnets and a clip

Ways to use it

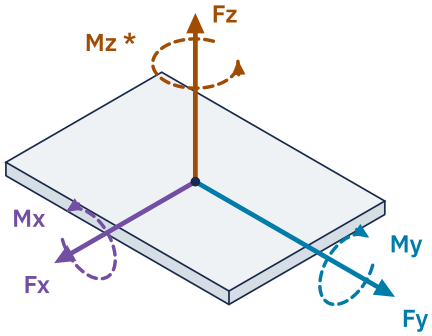
One plate
Balance and one-leg tests, wherever there is room for 40 × 28 cm.

Two plates
Joined into one 40 × 56 cm platform, one foot on each: jumps, squats and sit to stand, left against right.

Four plates
Under the feet of a treadmill: Movetrics Gait, walking measured step by step.

Where it works
Research, sport and performance, education, and practitioner-led physiotherapy and rehabilitation: measure and compare loading over time.

Five components, or six



Fz	Vertical force: how hard the foot pushes down.
Fx, Fy	Horizontal forces: braking, push-off, sideways shear.
Mx, My	Moments that locate the centre of pressure.
Mz*	Free moment: the twist between foot and floor. *On request.

Systems
F1-3D S Solo, Dual and Quad: one, two or four plates on one FDT.

Software included
Movetrics Studio for Windows, included. Movetrics Cloud in the browser, and the Movetrics app for iPhone, iPad, Mac and Android.

Made in Germany
Designed and built by Nur Engineering GmbH in Duisburg. Everything is built or assembled in Germany.

Technical data

F1-3D S

MEASUREMENT

Components	Five as standard: Fx, Fy, Fz and Mx, My. All six, with Mz, on request
Ranges	Fz: Nominal 4,000 N, Measures up to 4,800 N Fx, Fy: Nominal ±1,000 N, Measures up to ±1,200 N Mx: Nominal ±200 N·m, Measures up to ±240 N·m My: Nominal ±140 N·m, Measures up to ±168 N·m
Safe overload	Fz 6,000 N
Centre of pressure	5 mm maximum error
Output resolution	1 N for forces, 1 N·m for moments
Samples per second	2,000 with one or two plates on an FDT, 1,000 with three or more
Time base	One clock for all plates on an FDT; timestamps in 0.1 ms steps
Sensors	One sensor pad with six channels: 4 vertical, 1 for Fx, 1 for Fy; 24-bit delta-sigma converter
Load cell non-linearity	Below 1 % (sensor specification)

MECHANICS

Size and mass	400 × 280 × 30 mm, 10 kg
Surfaces	R12 anti-slip top; rubber base, 60 Shore
Joining	Two plates attach with magnets, then a mechanical clip, into one 40 × 56 cm platform
Installation	Portable on a flat, rigid floor

CONNECTION

Terminal	FDT: multiple plates on one clock. Four F1-3D S under a treadmill run on one FDT

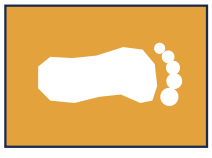
ENVIRONMENT AND SERVICE

Operating	10 to 35 °C, up to 80 % relative humidity, no condensation. Indoor use only; no IP rating
Storage	−10 to 50 °C, also in transport
Recalibration	Every 12 months, and after any overload the FDT flags, a drop or a move
Conformity	CE marked
Warranty	2 years for business customers

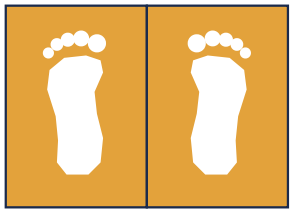
TOP VIEW AT 1:15, WITH A 27 CM FOOT FOR SCALE



F1-3D
600 × 350 mm



F1-3D S
400 × 280 mm



Two F1-3D S, joined
560 × 400 mm

Intended use. Movetrics systems measure forces and moments, calculate metrics and display them, for sport, research, education, and practitioner-led training and rehabilitation. They are not medical devices. They do not diagnose, treat, monitor or predict any disease or condition, and their results do not replace professional judgement.

Specifications may change. The current edition of this sheet is at movetrics.com/f1-3d-s. Questions: +49 15678 616 529 or contact@movetrics.com.

movetrics.com/f1-3d-s