Accessories

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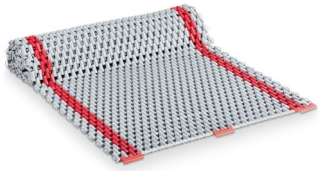
HAENNI offers a wide range of matching accessories for the scales and sensors. You will find products for cabling, interface boxes, remote displays, levelling mats, carrying case, inclinometers and much more.

Levelling mats

The purpose of levelling mats is to lift the non weighed axles to the level of the scale platform. This is necessary to reduce errors due to shift of the centre of gravity and to load shift within double and triple axle systems. It is absolutely necessary for weighing of any kind of vehicles. For more details refer to the technical paper P 1196 (www.haenni-scales.com).



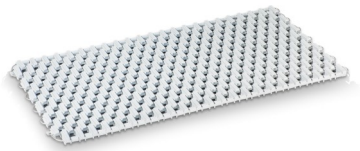
Levelling mat, large, for WL 101, WL 104, WL 108

For scales with 17 mm platform height. The main application is to weigh a large number of vehicles in a short time. Usually electronic scales WL 103, WL 104 or WL 108 with a processing software or unit are used in this case.

Technical data:
Dimensions (L x W x H) / Weight / Execution:

2.8 m x 0.9 m x 17 mm / 16 kg / grey with red lines	D 12535.0
3.8 m x 0.9 m x 17 mm / 22 kg / grey with red lines	D 12535.1
3.4 m x 1.0 m x 17 mm / 23 kg / grey without red lines (WL 104)	D 12535.2

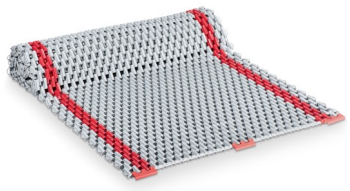
Materials: Polypropylene and stainless steel



Levelling mat, small, for WL 101 / 108

For static scales with 17 mm platform height. The main application of the small mat is to weigh individual vehicles at any place with a minimum of equipment. Two scales and four mats easily fit into the trunk of a car.

Technical Data:
Dimensions: 0.4 m long, 0.75 m wide, 17 mm high — D 12540.0
Weight: 2 kg
Materials: Polypropylene and stainless steel



Levelling mat, large, for WL 400

For dynamic sensors with 11 mm platform height (WL 400).

Technical Data:
Dimensions: 2.8 m long, 0.9 m wide, 11 mm high — D 12536.0
Weight: 12 kg

Dimensions: 3.8 m long, 0.9 m wide, 11 mm high — D 12536.1
Weight: 17 kg
Materials: Polypropylene and stainless steel

Leveller joiner

For linking two or more long 17 mm mats in order to level out the full vehicle length. — D 12528.0

HAENNI Instruments Inc.
3422 Kirchberg
Switzerland

Phone +41 (0)31 506 5400
info@haenni-scales.com

Fax +41 (0)31 506 5419
www.haenni-scales.com

Accessories

Cables

The cable is a heavy duty shielded 9mm type which can also withstand being accidentally run over of by a truck. Most cables are equipped with female connectors on both sides. All electronic scales from HAENNI (WL 104, WL 108 and WL 400) share the same rugged and watertight male connector from the manufacturer Fischer (Series 104/4 pin). The cables are manufactured in our facilities and submitted to rigid quality controls.

Standard connecting cable for WL 104, WL 108, WL 400

Standard connecting cable, female-female to connect the scales and other components to the system.

0.4 m - to connect 2 scales WL 104	E 6920.0
1.3 m - with the aligning device for the WL 104	E 6920.5
2 m - standard size	E 6920.1
3.8 m - with the aligning device and mounting frame for the WL 108	E 6920.7
5 m - standard size	E 6920.2
10 m - standard size	E 6920.3
20 m - standard size	E 6920.4
30 m - standard size	E 6920.6

Extension cable

Male-female extension cable to extend the cable E 6920.

5 m	E 6921.0
10 m	E 6921.1
20 m	E 6921.2
30 m	E 6921.3
50 m	E 6921.4

Terminating plug for WL 104, WL 108, WL 400

All electronic scales use a fieldbus for cable communication. For correct transmission, a terminating plug is required beginning and end of the fieldbus. E 6919.0

Power Supply

For all electronic scales from HAENNI (WL 104, WL 108 and WL 400)

AC/DC Desktop adapter for WL 104, WL 108, WL 400

Input: 100 V AC … 240 VAC. Output: 15V / 5 A

Euro:	E 7084.0
UK:	E 7084.1
Switzerland:	E 7084.2
USA/Japan:	E 7084.3
Australia:	E 7084.4
Brazil:	E 7084.5

Connecting cable 12V with plug ISO 4165

For car cigarette lighter, length 1.8 m E 13307.0

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Interfaces

For all electronic scales from HAENNI (WL 104, WL 108 and WL 400)

PC interface

The PC Interface converts the data from the cable network or from the optional radio network to USB and vice-versa. Any standard USB port can power the PC Interface. When needed, the PC Interface is equipped with a power plug to power the cable network.

Without wireless option	E 9023.0
With wireless option	E 9023.1

Serial interface

The HAENNI Serial interface is an easy-to-use RS-232 converter for the scales WL 104 and WL 108 and for the sensor WL 400. It allows simple integration into many custom applications.

Without wireless option	E 9039.0
With wireless option	E 9039.1

Display interface

It enables that the load data processed by the processing software EC 200 or by the processing unit EC 120 be shown on a long distance LED display. The connection can be established via cable or wireless. The power is supplied with 15 V DC from the power supply unit E 7084 or from another 12V power source via cable E 13307.0

Without wireless option	E 9025.0
With wireless option	E 9025.1

Remote display

The LED display makes it possible to display the measured values legibly from a great distance. Used in conjunction with the processing software EC 200 or with the processing unit EC 120 and the display interface E 9025.

Technical data:
Characters: 100 mm LCD
Size: 0.52 m wide, 0.18 m high, 40 mm deep
Weight: 3.5 kg
Materials: aluminium alloy, waterproof

E 9033.0

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Force Distribution Plates

Pad for weighing point loads

The force distribution pads make possible the weighing of point loads, such as:

- hydraulic supports of crane, fire brigade and other special vehicles;
- hard rubber auxiliary wheels of trailers;
- rigid items such as containers and machines.

Pad only: D 12590.0

With the additional telescope support more applications are possible, such as weighing the down force of trailer couplings.

Pad with telescope support: D 12590.1

Technical data:
Due to the limitation of the load per surface and the capacity of the scale used, the following maximum loads must be respected:

range	scale	max. load	limited by
2t	WL 108	2000 kg	capacity of the scale
10t	WL 101	6500 kg	max. load per surface
	WL 108	6500 kg	max. load per surface
15t	WL 101	8500 kg	max. load per surface
	WL 108	8500 kg	max. load per surface

Dimensions: 0.24 m long, 0.24 m wide, 65 mm high, 290…480 mm with telescope support
Weight: 8 kg, with telescope support: 9.5 kg
Materials: aluminium alloy, rubber

Hydraulic pad for testing

If low profile scales are tested the force applied must act the same way as an air filled rubber tyre does. The best simulation is achieved by using the hydraulic force plate. The liquid filling between the metal plate and the rubber diaphragm reacts exactly the same way, as the inflated air of a tyre does, but without elasticity, which would influence the test in a negative way. Thanks to the much smaller compressibility of the liquid compared with air, all temperature effects can be avoided, so that the applied load stabilises in a short time. For more details refer to the technical paper P1133.

Technical data:
Dimensions: 0.46 m long, 0.24 m wide, 45 mm high, 190 mm with gauge included
Weight: 13 kg
Materials: aluminium alloy, rubber, glycerine

W 12497.0

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3422 Kirchberg
Switzerland

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Accessories

Mounting frames and aligning devices

Aligning frame for WL 101 & WL 108

The purpose is to align two scales and four long levelling mats. It also facilitates shifting the scales laterally in order to adapt to the track width of the vehicle. The frame is equipped with a groove for the connecting cable.

The aligning frame consist of two frames and one connecting plate.

Technical data:
Dimensions: 3.5 m long, 0.5 m wide, 15 mm high
Weight: 16 kg
Materials: aluminium alloy, corrosion resistant

D 11965.1

Aligning device for WL 104

The purpose is to align two or more scales and levelling mats.

It consists of two end pieces and of connecting elements according to the number of scales. The whole system is tied by a cable on each side.

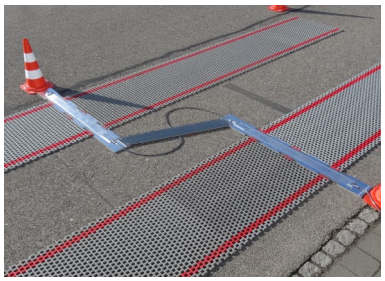
Technical data:
Dimensions:
length according to the number of scales, 0.5 m wide, 15 mm high
Weight: 8 kg
Materials: aluminium alloy, corrosion resistant
Delivered in a carrying case

For 2 or 3 units
D 12780.0

For 3 units
D 12780.1

For 4 units
D 12780.2

Aligning device for WL 400

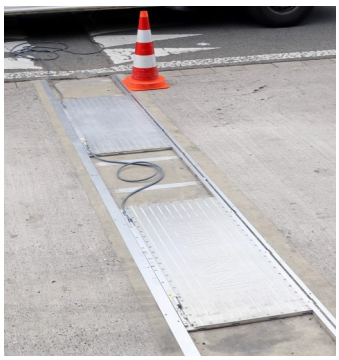


The purpose is to fix two sensors and four long levelling mats. It consists of two frames and one connecting plate.

Technical data:
Dimensions: 3.21 m length, 1.16 m wide, 11 mm high
Weight: 9 kg
Materials: aluminium alloy, corrosion resistant

D 12836.0

Mounting frame



The mounting frame is used for lowering two scales into the pavement. In this case no levelling mats are required because the scale surface is flush to the pavement. This semi-permanent installation is advantageous if the weighing is always performed at the same location. The frame is equipped with a groove for the connecting cable.

Technical data:
Dimensions:
3.6 m long, 52 cm wide, 29 mm high (for WL 101/WL 108)
3.6 m long, 60 cm wide, 29 mm high (for WL 104)
Weight: 32 kg (for WL 101 /WL 108), 34 kg (for WL 104)
Materials: aluminium alloy, corrosion resistant

For
WL 108
WL 101
D 12597.0

For
WL 104
D12597.30

Extension
1m
D12597.40

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Switzerland

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Accessories

Various

Dummy plate WL 104

D 12796.0

To be used exclusively with the mounting frame D 12597.30 in semi-fixed installations, when the scales WL 104 are not being used. Once fixed on the mounting frame the dummy plates work as cover for the foundations.

Technical data:
Dimensions: 872 mm wide, 17 mm high, 467 mm deep
Weight: 5 kg
Materials: PE

Carrying cases

Two scales fit in this case. Two handles on both sides are placed in a way that the case can be carried by two persons in order to comply with health regulations. Four screw-on legs are included so that the case doubles as a road side table.

Technical data:
Dimensions: 1.20 m long, 0.55 m wide, 0.16 m high
Weight: 13 kg
Materials: aluminium plastic compound

WL 101	D 12526.0
WL 108	D 12526.1
WL 104	D 12526.2

Gradient meter with laser beam

D 12527.0

Using the set screw the laser beam can be adjusted in a way that it aims exactly to the height mark of the target which is placed on the other side of the weighing site. The inclination of the weighing site can be read directly from the display.

The gradient meter may also be used to precisely adjust the level of a mounting frame during the installation into the pavement.

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