

# Portable wheel load scales for aircraft weighing

## RW 2.0, RW 8.1, RW 9.1

## RWF 8.1.0, RWF 9.1.0




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Factory calibrated  
Wheel loads 100 kg to 10,000 kg  
Evaluation on PC  
Via cable or radio transmission

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Weighing of  
Gliders, UL aircraft  
Business and sports aircraft  
Commercial and transport aircraft

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Designed,  
developed and  
made in Germany

These portable scales allow you to weigh aircraft safely and precisely at their wheels. Wheel load scales types differ in size and load range. They are ideally suited for routine weight and centre of gravity determinations, weight checks after repairs or during modifications of aircraft.

All wheel load scales types are very well suited for portable use. Integrated rollers on the large weighing platforms make alignment easier for you. By combining several wheel load scales, it is easy to set

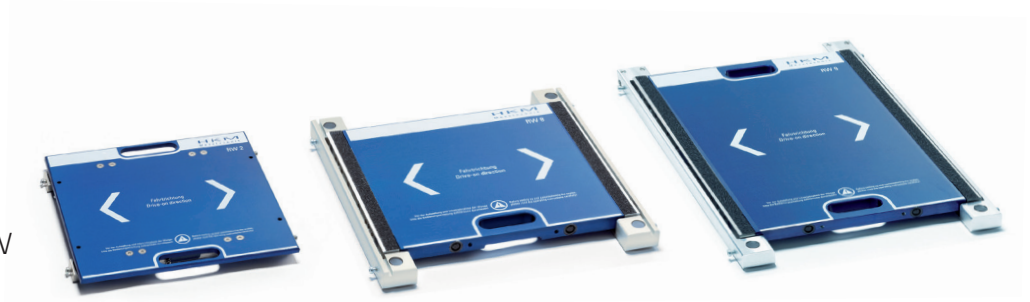
up powerful systems for weighing single wheel, axle load and the total weight of an aircraft.

For signal evaluation connect the scales to a PC: This allows for up to eight scales to be networked via cable or via radio link. With the user-friendly aircraft scale software, the measurement data can be displayed, stored and logged or exported into a spreadsheet. This provides you with a simple, efficient and convenient solution even for the most complex weighing tasks.

Further information can be found in our "Weighing operations with portable wheel load scales" brochure in the download area at [www.hkm-messtechnik.com](http://www.hkm-messtechnik.com)

Also note the portable aircraft scales that weigh your aircraft at the jack points. You can find out more on our website.

## Technical Data type RW (via cable)



Type	RW 2.0 / 100	RW 2.0 / 500	RW 8.1 / 1.000	RW 8.1 / 2.000	RW 8.1 / 8.000	RW 9.1 / 10.000
Nominal load [kg]	100	500	1,000	2,000	8,000	10,000
Data transmission	Cable					
Signal evaluation	on PC (see accessories)					
Sensitivity / display increments* [kg]	0.1	0.2	1	1	5	5
Accuracy	±0.2 kg	±0.4 kg	±1 kg	±1 kg up to 400 kg ±2 kg over 400 kg	±5 kg up to 500 kg ±10 kg up to 5,000 kg ±15 kg over 5,000 kg	±15 kg
Calibration	Factory calibration by HKM-Messtechnik; 1 - 2 annual recalibration recommended					
Operating temperature	-10°C to +50°C					
Storage temperature	-30°C to +70°C					
Supply	12 V, see accessories					
Weight [kg]	6.5	6.5	15.1	15.1	17.6	28
Protection	IP 65 (when all connection sockets are occupied)					

\* other sensitivities on request

## Technical Data type RWF (via radio)



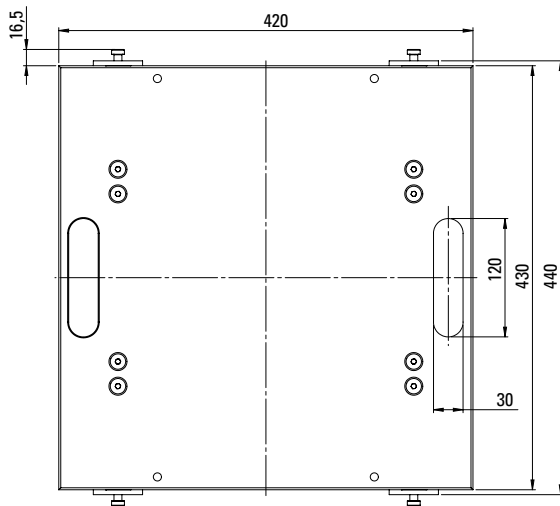
Type	RWF 8.1.0 / 1.000	RWF 8.1.0 / 2.000	RWF 8.1.0 / 8.000	RWF 9.1.0 / 10.000
Nominal load [kg]	1,000	2,000	8,000	10,000
Data transmission	Radio, range 40 m			
Signal evaluation	on PC (accessories)			
Sensitivity / display increments* [kg]	1	1	5	5
Accuracy	±1 kg	±1 kg up to 400 kg ±2 kg over 400 kg	±5 kg up to 500 kg ±10 kg up to 5,000 kg ±15 kg over 5,000 kg	±15 kg
Calibration	Factory calibration by HKM-Messtechnik; 1 - 2 annual recalibration recommended			
Operating temperature	-10°C to +50°C			
Storage temperature	-30°C to +70°C			
Supply	integrated rechargeable batteries, see accessories			
Weight [kg]	16.2	16.2	18.7	29.1
Protection	IP 65			

\* other sensitivities on request

## Dimensions

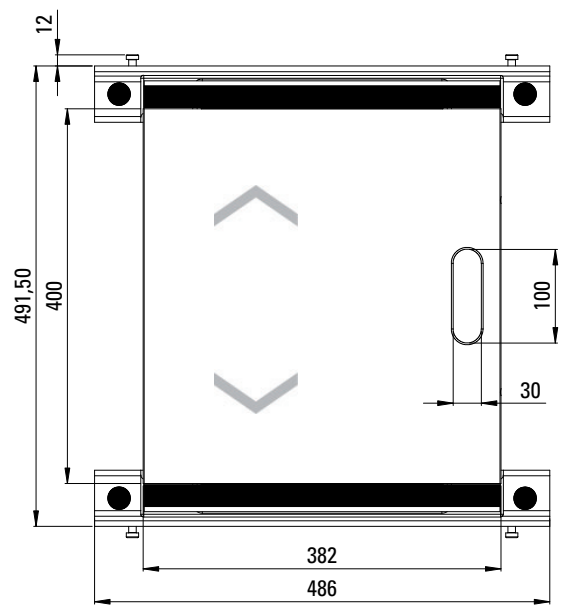
Measurements in mm

RW 2.0



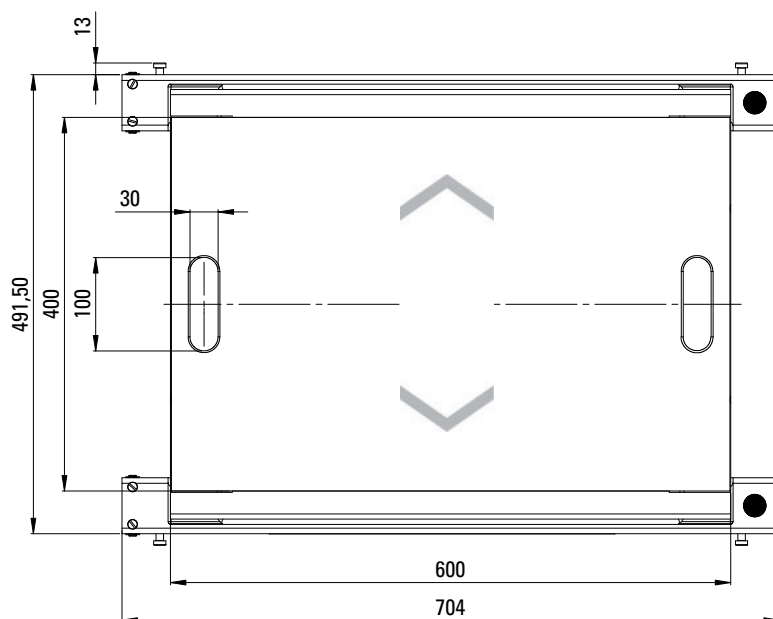
Weighing area L 430 mm x W 420 mm  
Height 30 mm

RW 8.1



Weighing area L 400 mm x W 382 mm  
Height 40 mm

RW 9.1

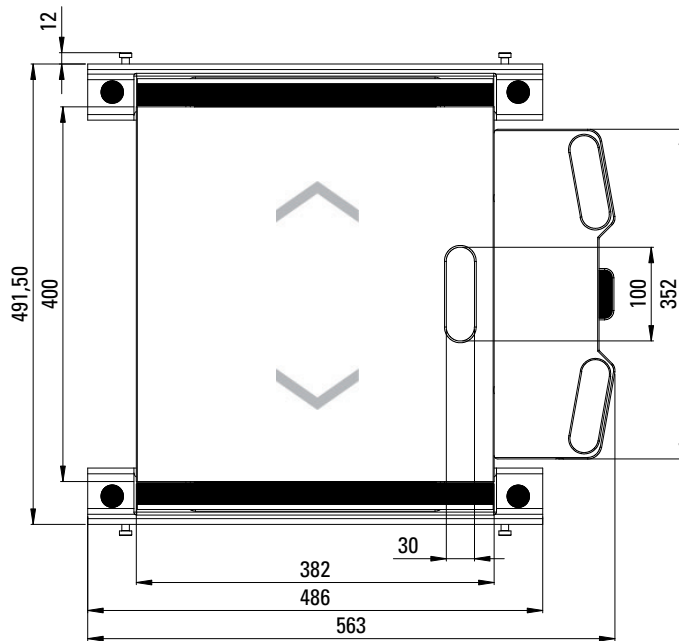


Weighing area L 400 mm x W 600 mm  
Height 45 mm

## Dimensions

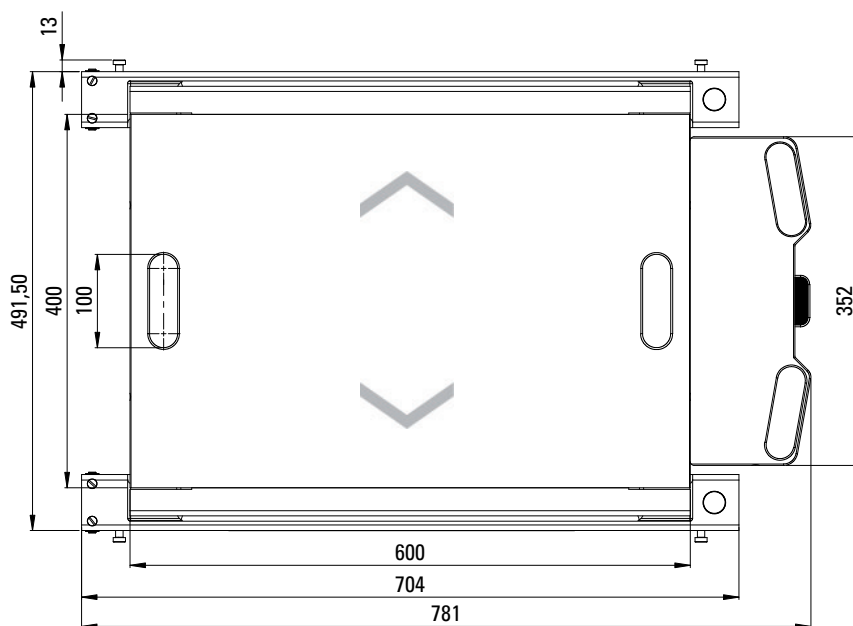
Measurements in mm

RWF 8.1.0 (integrated radio transmitter module)




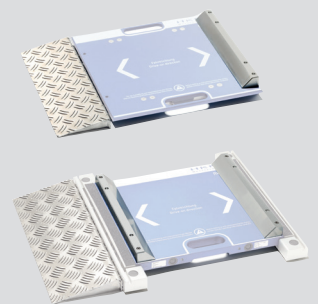
Weighing area L 400 mm x W 382 mm  
Height 40 mm

RWF 9.1.0 (integrated radio transmitter module)

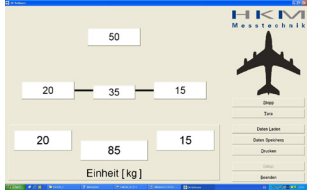


Weighing area L 400 mm x W 600 mm  
Height 45 mm

## Overview of accessories for wheel load scales

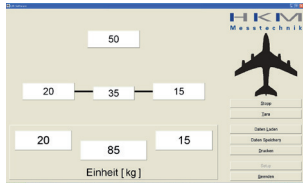

Product	Description	Figure	
Drive-on and drive-off ramps   recommended for RW 2.0 for RW 8.1 and RWF 8.1.0 for RW 9.1 and RWF 9.1.0	L 150 mm x W 420 mm x H 31 mm L 180 mm x W 460 mm x H 40 mm L 259 mm x W 662 mm x H 45 mm		○
Wheel stopper, pluggable for RW 2.0 for RW 8.1 and RWF 8.1.0 for RW 9.1 and RWF 9.1.0	W 370 mm x H 30 mm W 370 mm x H 30 mm W 590 mm x H 30 mm		○

## Accessories for versions with data transmission via cable (for all types RW)

Product	Description	Figure	
Signal evaluation      Aircraft scale software 1.0 for PC (evaluation for up to 8 wheel load scales)	Displays all weighing data Preparation of a weighing report › Specification of all loads › Aircraft data › Company data › Date/Time Export to Microsoft Excel Operating systems: Win XP, Vista, 7, 10		●
Power supply, 12 V	via 110 – 240 V / 12 VDC, 5 A plug-in power supply via 12 VDC plug for aircraft		⊙
1x connection cable per wheel load scale			●
1x dummy plug per system			●
Converter box with USB connection cable			●

● requirement | ⊙ requirement / selection | ○ optionally available

## Accessories for versions with data transmission via radio (for types RWF 8.1.0, RWF 9.1.0)

Product	Description	Figure	
Signal evaluation Aircraft scale software 3.0 for PC (evaluation for up to 8 wheel load scales)	Displays all weighing data Preparation of a weighing report › Specification of all loads › Aircraft data › Company data › Date/Time Export to Microsoft Excel Operating systems: Win XP, Vista, 7, 10		●
Power supply	4x 1.2 V NiMH batteries / 2,000 mAh max., charging via plug-in charger power supply for RFT 5.0, 110 – 240 V / 12 VDC		●
Radio receiver: RFR 3.0, 1x per system	USB port		●

● requirement | ● requirement / selection | ○ optionally available

## Application

