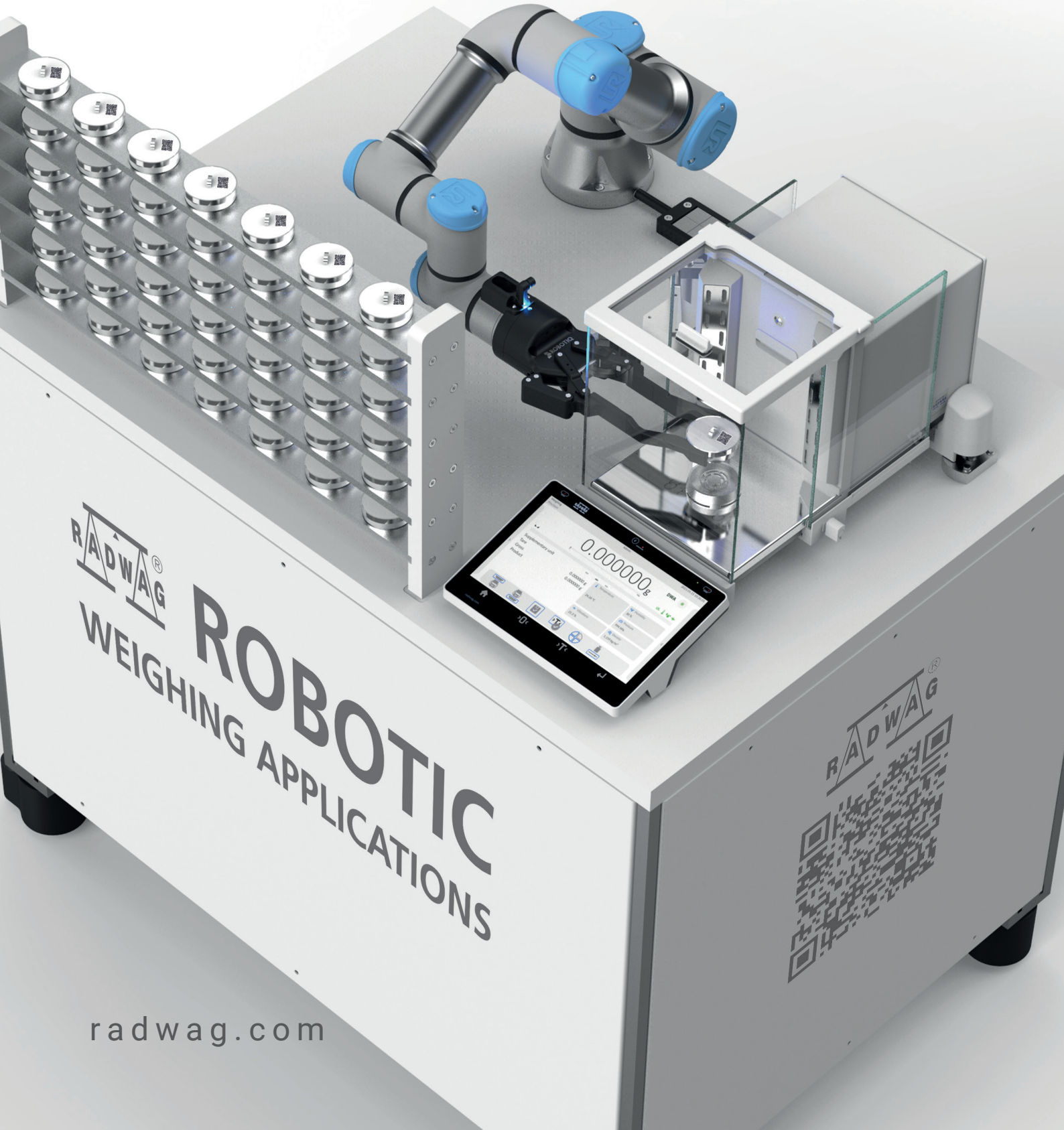
RW 5Y.F42
Robotic Weighing System



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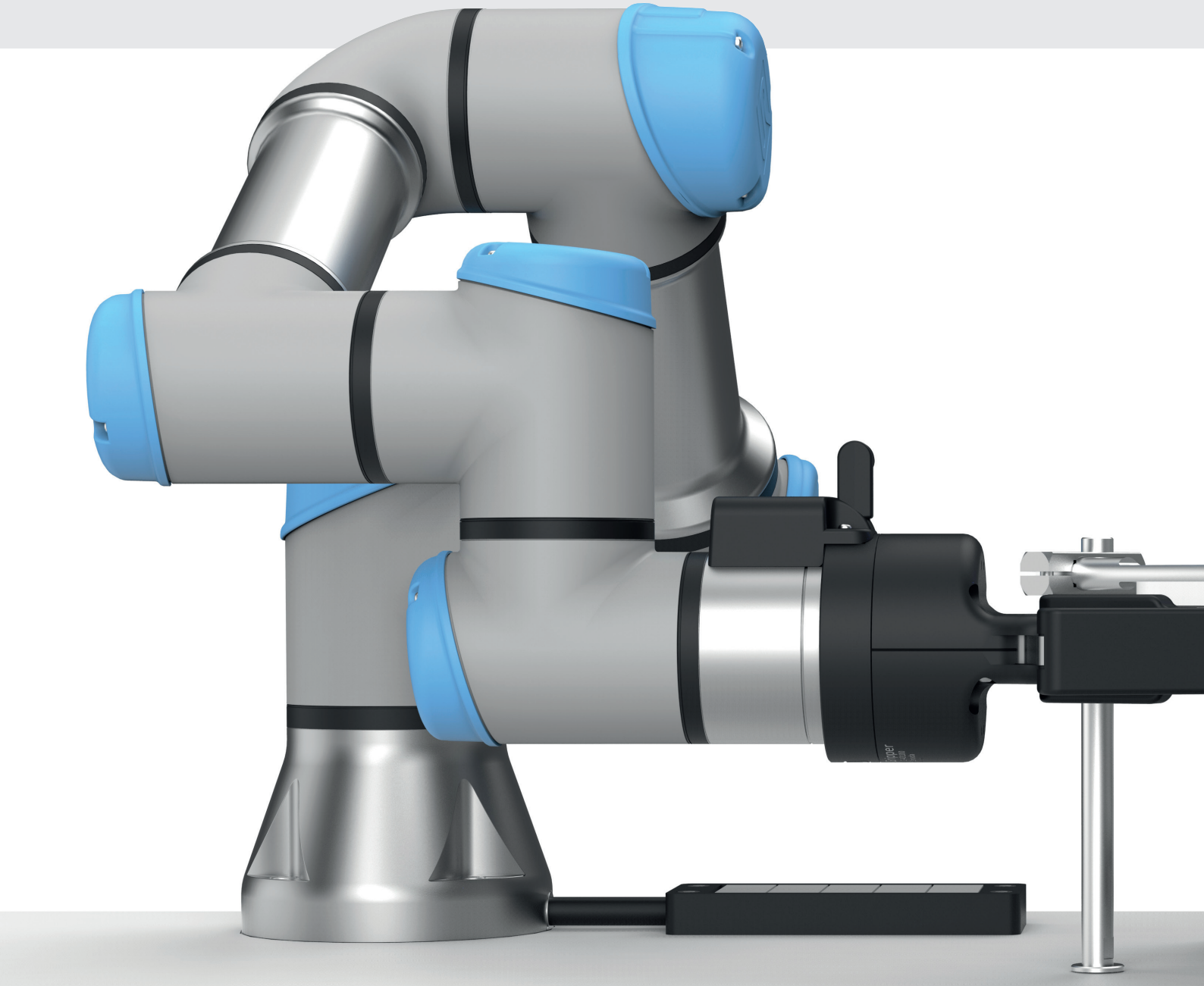
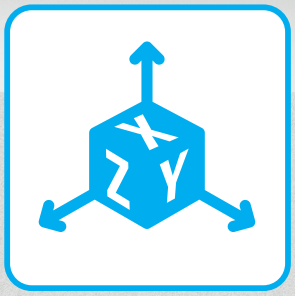
Mobile Robotic Filter Weighing Station



Arm reach 500 mm

Arm capacity 3 kg



Movement of the arm in several axes

Six degrees of arm deflection

Full automation

42 filters ø47 mm

10”

Large touch screen

Touch-free operation

Multiple interfaces

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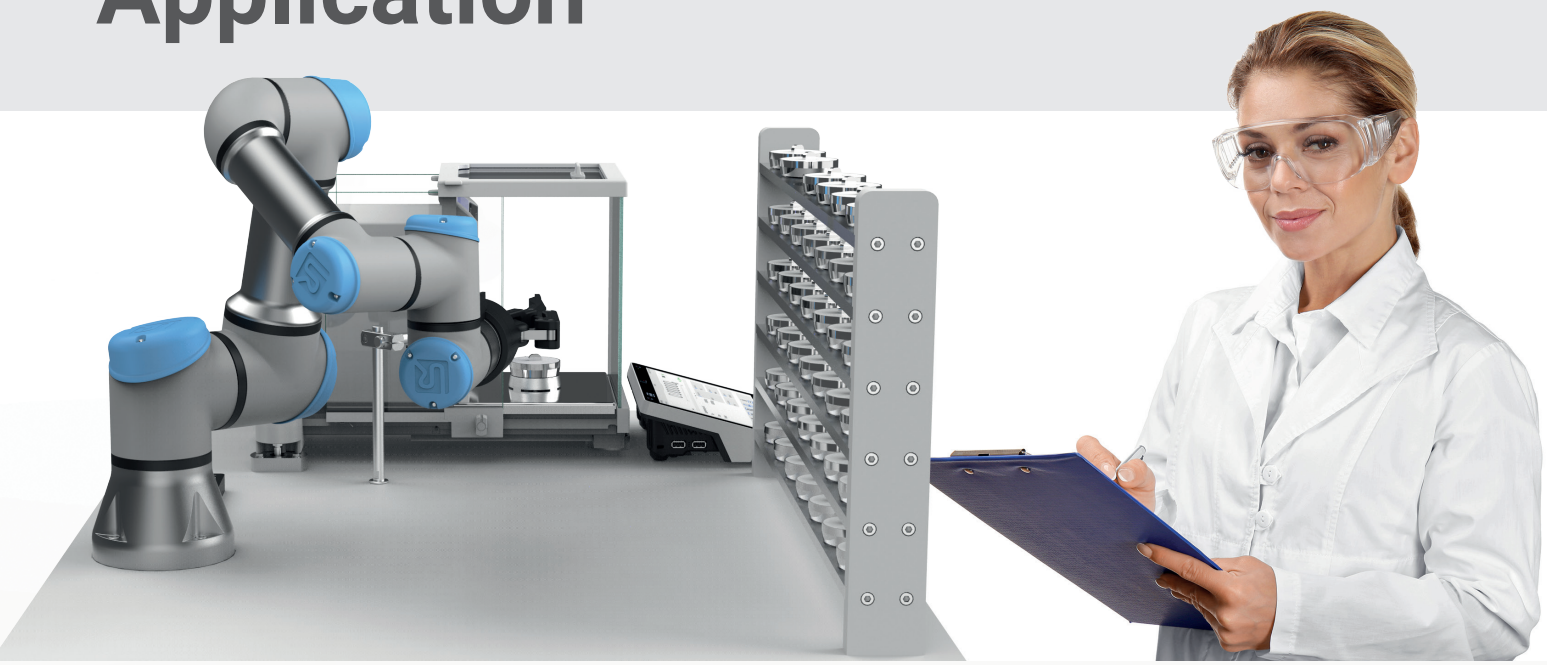
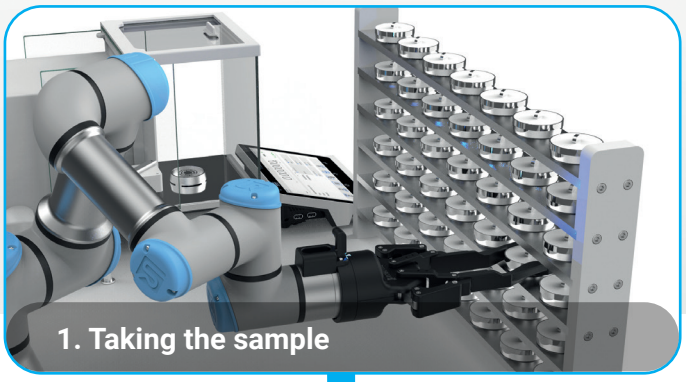
Application

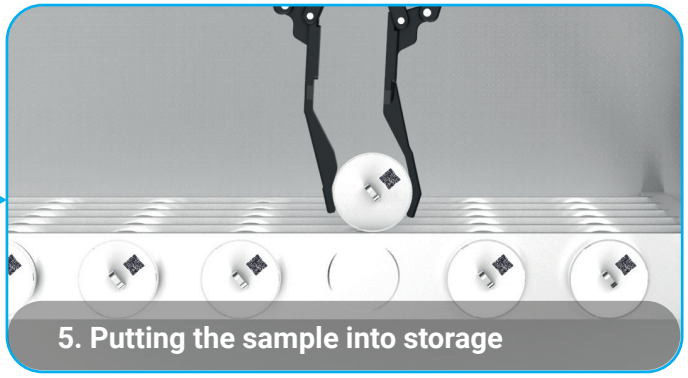


The use of a cobot equipped with a **range of certified safety systems** allows the robot to interact directly with laboratory staff and minimise the space required for its operation.

Environmental condition monitoring records the current environmental conditions and allows them to be viewed and data reported.

Weighing process





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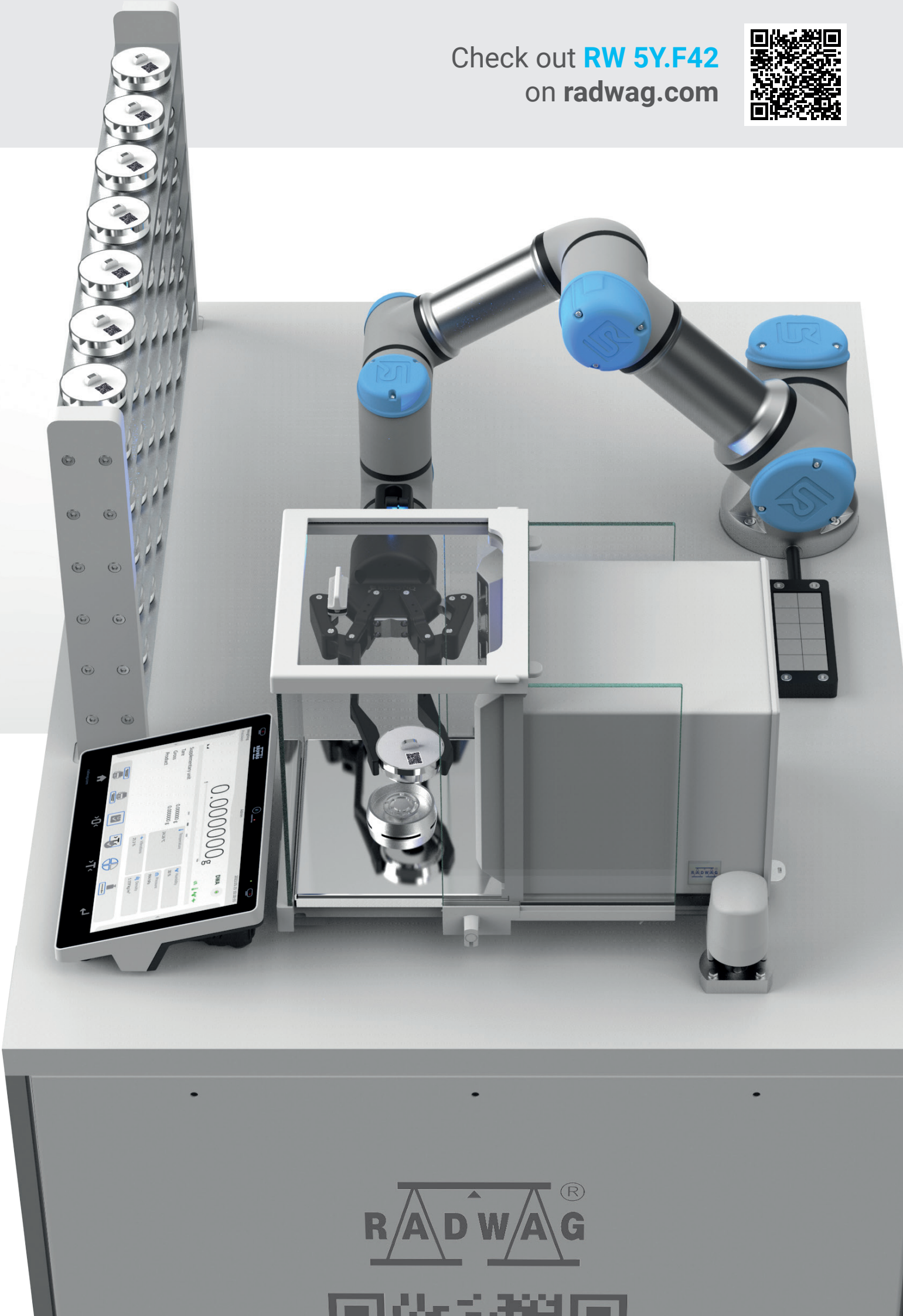


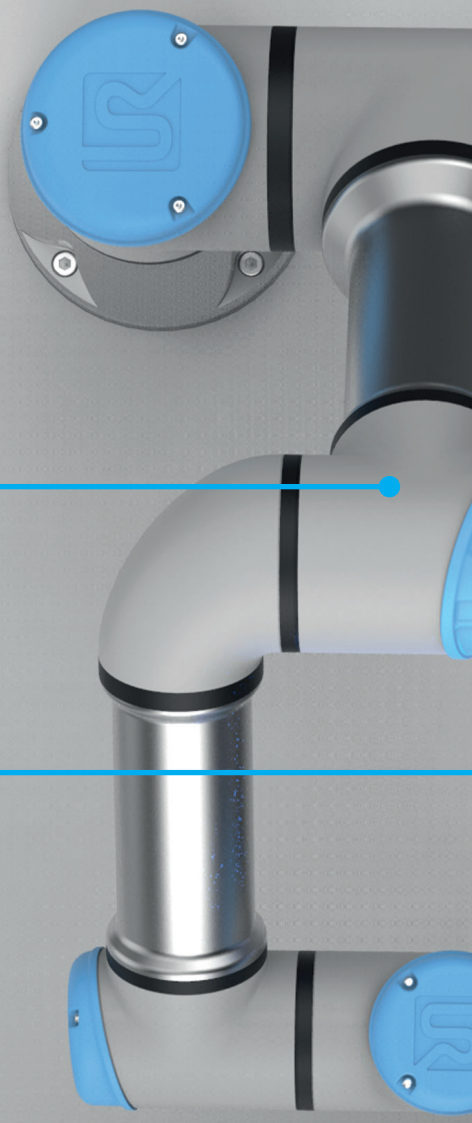
Set Elements

Robot with dedicated gripper to transport filters between the storage and the microbalance

QR code reader built into the device

Storage for filters (storage capacity: 42 cassettes)

PC with RMCS Filter software, managing the operation of the entire unit



Microbalance with anti-draft chamber

Ionisation system as an integral part of the microbalance

Weighing terminal for to manage the operation of the device

Monitoring of environmental conditions: temperature, humidity and pressure

Specification

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Metrology parameters

Maximum capacity [Max]	6.1 g
Minimum load [Min]	0.1 mg
Readability [d]	1 µg
Verification unit [e]	1 mg
Tare range	-6.1 g
Standard repeatability [5% Max]	0.8 µg
Sensitivity time drift	1×10^{-6}/Rok×Rt
Stabilization time	~3.5 s
Adjustment	Internal (automatic)

Physical parameters

Display	10” touchscreen
Device dimensions	1087×755×1225 mm

Features of use

Time of one measurement cycle	45 s.
Full measurement cycle time for 42 samples	31.5 min.
Storage capacity	42 pcs.

Communication

Interfaces	USB-A×2, USB-C, HDMI, Ethernet, Wi-Fi®, Hotspot

Electrical parameters

Power supply	110 – 240 V AC 50/60 Hz

Environmental conditions

Operating temperature	+10 ÷ +40 °C
Operating temperature change rate	±0.3°C/1h (±1°C/8h)
Relative humidity	40% ÷ 80%
Relative humidity change rate	±1%/h (±4%/8h)

Compatibility

Norms	EU no. 2017/1151, US EPA 40 CFR, US EPA 40 CFR Part 50

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Repeatability is expressed as the standard deviation of 10 mass standard placements.
Stabilisation time depends on the external conditions and the dynamics of placing the weight on the pan; specified for the FAST profile.