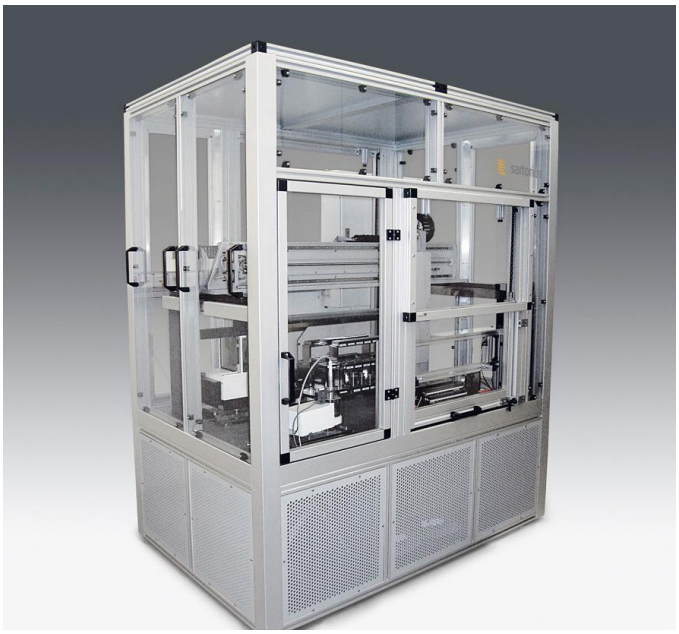
Article specification



CCR1000
Sartorius robot system for
fully automatic determination of
differences in mass and for calibration
of mass standards and weights.

The system is comprised of	
a 4-axis robot,	
a 1,000 g mass comparator	
a turntable magazine with 23 positions	
for weight sets from 10 g to 1 kg,	
a massive stone table, a computer,	
a control unit, user-friendly control	
software and an enclosure,	

For fast and efficient operation of the robot, the reference and test weight are placed on separate comb-type weight grippers in front of the mass comparator.
Special performance features:
- The comb-type grippers accommodate a group of up to four weights
- The grippers simultaneously place weight groups on the weighing pan, thus ensuring quick changes of reference and test weight combinations on the mass comparator
- Direct 1:1 mass comparison and mass dissemination of class E1 weights is possible
- Prior to mass comparison, the robot automatically selects and prepares the groups of weights required for dissemination of mass
- The weight grippers are designed so that any weight shapes, such as wire and leaf weights as well as knob, cylindrical and disk weights can be handled efficiently

Technical Specifications	
Maximum capacity	1002 g
Application range	10 g - 1 kg
Readability	1 µg
Repeatability, at 1/10 load	3 µg
Repeatability, at 1/2 load	5 µg
Repeatability, s*	8 µg
Repeatability (typical), s*	2 µg
Electronic weighing range & taring range	2.1 g
Substitution weights	30|40|50|2x100|300|400 g
Linearity	20 µg / 2 g
Off-center loading error	0 mg
Range sensitivity	2 µg / 500 mg
Stabilization time	25 s
Cycle time ABBA in s	<400 s

Basic Equipment	
Load alternator	2
Magazine positions	23 Pos.
Interfaces	LAN|USB|RS232
Centermatic	x
Draft shield	x
Enclosure	x
Control unit	x
PC	x
PC software	x
Air temperature sensor	6
Air moisture sensor	2
Air pressure sensor	1
Test certificate	Sartorius
Climate station	YCM16C

Ambient Conditions	
Permissible operating temperature range	17-27 °C
Recommended operating temperature	22 °C
Temperature fluctuation	0.3°C/h|0.5°C/12h
Max. air movement	< 0.2 m/s
Humidity range	40-60 %
Humidity fluctuation	5%/4h
Power supply	100-240V AC/50-60Hz
Power consumption	< 100 VA

Dimensions	
Weighing pan dimensions(WxD)	104x68 mm
Sample size(DxH)	100x120 mm
External dimensions (WxDxH)	1900x1250x2328 mm
Net weight	1880 kg
Location for setup (WxDxH)	1900x1250x2300 mm
Optimal height for setup	0 mm

Applications	
OIML R111	E1|E2|F1|F2|M1
ASTM E617	0|1|2|3|4|5|6

Optional Accessories	
External calibration weight	2 g|E2 YCW322-00
PC software ScalesNet-M	YSN03C

Extended Equipment	
Reference magazine	Y1000R:(14)
Magazine position expander	Y1000M:(23)
Upgrade kit	Y10UPGRADE

Article specification

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* Repeatability is the standard
deviation "s"; it is calculated from
6 ABBA cycles, after eliminating drift.
Prerequisites for the standard deviation
are good climatic conditions
in accordance with the OIML
R111 Guideline.
Setup and installation by our special
mass comparator technicians from
Germany is required.
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