

ROMI100 PRODUCT PAGE

SHAKERS & MIXERS OVERVIEW

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ROMI100

Rotary Tube Mixer | 360° + Vibration | 0–200 rpm

The **ROMI100** is a rotary tube mixer for keeping biological samples in suspension. Tubes are clamped on a **horizontal rotating shaft** and turned **end-over-end through 360°**; a **vibration (reciprocal swing)** can be added at any angle from 0 to 360°, adjusted analogically to the protocol. A microprocessor-controlled DC motor, keypad operation and an LCD showing time and speed in real time make it a simple, programmable bench instrument with **9 preset and 2 user programs**.

ROMI100

PRO7310

360° rotation

Vibration 0–360°

0–200 rpm

9 + 2 programs

1.5–50 ml tubes

12 V DC

Typical applications: keeping biological samples in suspension, blood anti-coagulation mixing, latex diagnostics, immunoprecipitation, magnetic-bead (immunomagnetic) separation workflows including Dynabeads-based Giardia and Cryptosporidium testing, and general gentle tube mixing on clinical and research benches.

Document type: Technical Specification Sheet

Product family: Rotary mixers — Shakers & Mixers

Model / product code: ROMI100 | PRO7310

Format: A4 landscape | COLO.Science TechSpec v1.1



SPEED

0–200 rpm

PROGRAMS

9 preset + 2 user

CONTACT

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ROMI100 PRODUCT PAGE

SHAKERS & MIXERS OVERVIEW

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End-over-end rotation and vibration, on one shaft

Product overview

Mixing action

- **360° end-over-end rotation** — tubes are clamped on a horizontal rotating shaft.
- **Vibration (reciprocal swing)** at any angle from **0 to 360°**, adjusted analogically to the protocol.
- Vibration time and vibration speed are **adjustable**.
- Rotation and vibration can be combined in programs.

Programs and control

- **9 preset programs** (rotation and vibration) plus **2 user programs**.
- Each program has **7 editable steps**.
- Keypad operation; **LCD** shows time and speed in real time.
- DC motor with **microprocessor control**.

Speed and timing

- Speed range **0–200 rpm**, shown on the LCD.
- The working speed range can be **fixed within 0–200 rpm** to the customer's requirement; regulated, reproducible speed throughout the range.
- Timer **1 min – 99 h 59 min**, with a beep at the end.
- **Continuous operation** when the timer is set to 0.

Tubes, power and build

- Interchangeable trays for **1.5/2.0 ml**, **10/15 ml** and **50 ml** tubes.
- **Dynal L10 tubes** for immunomagnetic separation (IMS): tray with clips that securely hold the L10 tubes.
- Standard tray: **4 × 50 ml + 4 × 15 ml + 16 × 1.5/2.0 ml**.
- Input **12 V DC**, power **12 W**; mains adapter **100–240 V**, **50/60 Hz** included.
- Dimensions **440 × 135 × 280 mm**, net weight **2.0 kg**.

What the ROMI100 is for

A rotary tube mixer is chosen when particles, cells or beads must stay **in suspension** in closed tubes over time, without energetic mixing. Turning the tube end-over-end moves the whole liquid column and the air bubble through the sample, which keeps blood with anticoagulant homogeneous and keeps latex particles and magnetic beads evenly distributed during incubation and immunoprecipitation. The added vibration at a set angle gives a stronger, local agitation when the protocol needs it, and the programs repeat the same sequence run after run. Where tubes or bottles are to be rolled lying flat, a roller mixer is the alternative; where a single tube has to be homogenised immediately, a vortex mixer is faster.

ROMI100 PRODUCT PAGE

SHAKERS & MIXERS OVERVIEW

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One shaft, three tube formats, 9 + 2 programs

Model identification

Model	COLO product code	Product group
ROMI100	PRO7310	Shakers & Mixers — rotary mixers

Technical specifications

Mixing, programs and timing

Parameter	Value
Motion	360° end-over-end rotation + vibration (reciprocal swing)
Vibration angle	Any angle 0–360°, analog adjustable; vertical or horizontal plane
Vibration time / speed	Adjustable
Speed range	0–200 rpm, regulated and reproducible; working range can be fixed to customer requirement
Programs	9 preset (rotation and vibration) + 2 user
Program steps	7 editable steps per program
Timer	1 min – 99 h 59 min, beep at end; continuous when set to 0

Drive, power and dimensions

Parameter	Value
Motor	DC, microprocessor control
Control	Keypad with LCD
Display	LCD, time and speed in real time
Tube holding	Clamped on a horizontal rotating shaft; clips for Dynal L10 tubes (IMS)
Power input / power	12 V DC / 12 W; mains adapter 100–240 V, 50/60 Hz with connector
Dimensions (W × D × H)	440 × 135 × 280 mm
Net weight	2.0 kg

Trays and accessories

Item	Capacity	Supply
Standard tray (mixed)	4 × 50 ml + 4 × 15 ml + 16 × 1.5/2.0 ml	Included
Mains adapter 100–240 V, 50/60 Hz	with connector	Included
Operation manual	—	Included
Tray 10/15 ml	22 × 10/15 ml	Optional
Tray 10/15 ml	12 × 10/15 ml	Optional

Item	Capacity	Supply
Tray 50 ml	12 × 50 ml	Optional
Tray 1.5/2.0 ml	36 × 1.5/2.0 ml	Optional
Tray with clips for Dynal L10 tubes (IMS)	Dynal L10	Optional
12 V battery pack (alkaline), automatic backup on power failure	—	Optional

Before ordering: confirm the tube format and the number of tubes per run, the required speed range and the tray configuration. The delivered configuration, accessories and any validation requirement are confirmed in the COLO.Science quotation. Optional items help you choose what you need; trays, clips or holders for other tube formats are custom made on request.

[ROMI100 PRODUCT PAGE](#)[SHAKERS & MIXERS OVERVIEW](#)[SHAKERS & MIXERS CATALOGUE](#)[REQUEST QUOTE](#)

MANUFACTURER AND SUPPORT

COLO Lab Experts**Polje ob Sotli 4, SI-3255, Slovenia**

Selection guidance: send the tube format, the number of tubes per run, the required speed range and whether the protocol needs vibration in addition to rotation or a fixed running time. COLO.Science will confirm the speed range and tray configuration.

QUICK CONTACT

Web: colo.si**Email: sales@colo.si****Phone: +386 70 713 437****Model: ROMI100 · PRO7310**

COLO.SCIENCE | ROMI100 SUPPORT

Not sure whether a rotary mixer or a roller mixer is the right instrument?

Send the sample format, how long the sample has to stay in suspension and whether it contains beads or particles that must not settle. A rotary mixer turns closed tubes end-over-end and keeps cells, latex particles and magnetic beads in suspension; a roller mixer rolls tubes and bottles lying flat; a vortex is for immediate mixing of a single tube. COLO.Science can confirm which of the three fits the protocol.

MAIN SHAKERS & MIXERS NAVIGATION

[ROMI100 Product Page](#)[ROMI100 Technical Specification \(PDF\)](#)[Shakers & Mixers Overview](#)[Shakers & Mixers Catalogue](#)[Request Quote](#)

Official configuration notice: This document is provided for orientation and model selection. It does not replace the binding specification, delivered configuration, validation protocol or acceptance criteria confirmed in the official COLO.Science quotation, proforma invoice, order confirmation or manufacturer-approved technical offer. Confirm the model, accessories, tube format, speed range and certification requirement for the specific order. Specifications may change without notice.