# Bottle Rollers

LT-A1020 | Laboratory sample processing in bottles and jars

Rubber-coated rollers • Variable speed • Tiered bottle arrangement




## 20 L

**NOMINAL CAPACITY**

## Adjustable

**VARIABLE ROTATION SPEED**

Plastic, ceramic and metal container compatibility • 220 V, 50 Hz, 3 phases

# Photographs and Components

Horizontal bottles, rubber-coated rollers, support frame and controls

The LT-A1020 rotates slurry-filled containers around their own horizontal axes. Motion transmitted by the rubber-coated rollers supports mixing and, with a suitable setup, grinding inside the container.

**HORIZONTAL BOTTLES**

Bottles are positioned with their side surfaces in contact with the rollers.

**RUBBER-COATED ROLLERS**

The rollers transmit rotation to the bottle through surface contact.



**SUPPORT FRAME**

The tiered frame carries the working levels and rollers.

**CONTROL SECTION**

The lower front panel groups operating controls and displays.



**Bottle placement and roller contact**

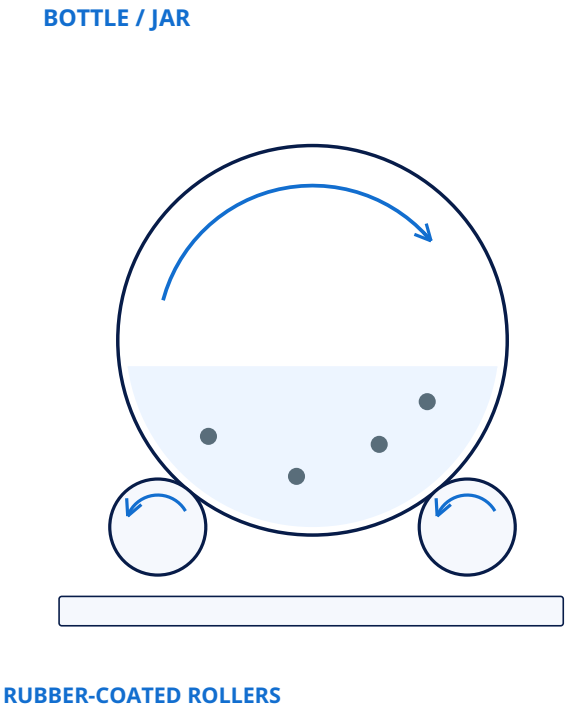



**Lower front control panel**

LT-A1020

# Horizontal Rotation through Roller Contact

Roller motion • Container rotation • Continuous sample movement




### Motion Transfer

Contact between the rubber surface and container turns the vessel around its own axis.

### Mixing

Slurry moves within the container throughout rotation, producing a mixing action.

### Grinding Setup

Grinding media selected for a suitable container and method support sample size reduction.

Select speed and duration according to container diameter, sample quantity and the target process. Using the same vessel and preparation conditions supports evaluation of comparative trials.

### Choose Container Material

Plastic, ceramic and metal jars can be used. Select the vessel for the sample and method, close its lid and check balanced placement on the rollers.

### Flexible Tier Arrangement

Bottle placement can be configured for laboratory requirements. Additional tiers support different vessel arrangements, including configurations for 20 L containers.

LT-A1020

# Technical Data and Sample Workflow

LT-A1020 • Capacity, roller system and power supply

| Technical Specification | Value |
|---|---|
| **Product Code** | LT-A1020 |
| **Nominal Capacity** | 20 L |
| **Main Process** | Mixing / grinding with a suitable setup |
| **Container Motion** | Rotation around its horizontal axis |
| **Roller Surface** | Rubber-coated |
| **Speed Control** | Variable-speed drive |
| **Compatible Container Materials** | Plastic / ceramic / metal |
| **Arrangement** | Configurable, additional tier options |
| **Power Supply** | 220 V, 50 Hz, 3 phases |

## Rotation and Sample Records

Record vessel type, sample quantity, fill level, speed setting and duration together. Preserve bottle position and sample labelling throughout processing.

## Sample Processing Workflow

**01**
**Prepare Vessel**
Load a suitable container and close its lid.

**02**
**Position**
Place the vessel evenly on the rollers.

**03**
**Set Speed**
Choose rotation and duration for the method.

**04**
**Collect Sample**
After rotation stops, remove and empty the vessel.

**Product Page | liyatest.com.tr/en/urun/bottle-rollers/**