

Brabender® Quadrumat® Junior

New roller mill for user-friendly lab flour preparation



What is it used for?

The Brabender® Quadrumat® Junior is a universal laboratory roller mill with integrated separation and aspiration for milling wheat, spelt, rye, barley and rice.

What is the result?

In one step, the multi-stage grinding process produces laboratory flours that are almost equivalent to commercially produced flour in terms of ash content, yield and baking quality.

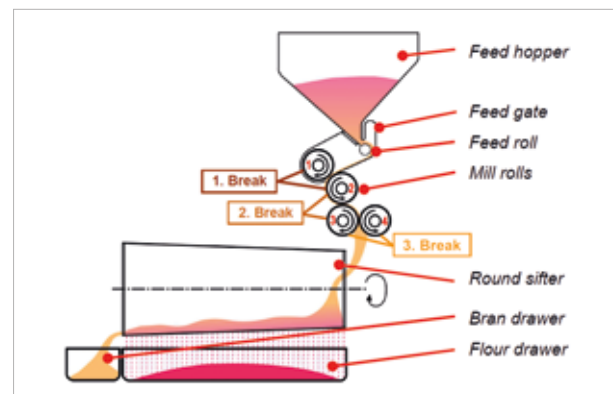
Those can be used for subsequent analyses such as standard tests with Farinograph®, Extensograph®, Amylograph®, Alveograph® or Falling Number.

Which additional equipment is available?

- Brabender® Bran Duster: Carefully separates flour particles still adhering to the bran. Increases the yield obtained with the Quadrumat Junior® by about 10 %.
- Special 150 µm sifter for Alveograph® tests: For producing flours complying with the Alveograph® standard method.
- Special durum version for milling semolina (sifter, rolls and roll gaps are different from standard version)

How does it work?

- Grain is filled into the feed hopper
- Grain flows through the adjustable feed gate over the feed roll
- Grain passes the first break (rolls no. 1 and 2), the second break (rolls no. 2 and 3) and the last grinding unit (rolls no. 3 and 4). The second roll of the preceding passage always acts as first roll of the following passage and the gap distance is reduced in each
- The product drops into the round sifter
- The sifted flour falls into the flour drawer under the round sifter. The bran is collected in the bran drawer below the sifter outlet



What has been improved in comparison to the previous model?

The new version of the mill offers enhanced usability:

- Robust housing
- Easy-to-clean design: openable housing facilitates access to the interior of the device, round sifter can be removed easily
- Larger drawers for flour (+ 22 %) and bran (+ 15 %)
- Compliance with current safety standards (incl. ATEX)
- Lower noise level

What are the benefits?

- Close simulation of the production process
- Good reproducibility of the test results
- Production-like yield and quality of flour and ash content in a single process
- Maximum separation of endo- and exosperm
- No splitting up of the bran
- No re-adjustment needed when changing over to another type of wheat or to wheat with another moisture content

