



Standard BIPEA –
BY.102.D.9302
Special durum version

Quadrumat® Senior

The universal pilot mill for the
preparation of production-like
test flours



... where quality is measured.

Quadrumat® Senior



The **Brabender® Quadrumat® Senior** is a laboratory mill for manifold applications:

- Preparation of production-equivalent test flours
- Checking the milling properties of various sorts of grain (wheat, rye, and others)
- Determination of the potential yield

The instrument stands out for many process-technical features:

- Obtain 4 milling products altogether:
 - Break flour
 - Reduction flour
 - Shorts
 - Bran
- High performance and gentle milling by 4-roll milling system with hardened, profile-ground rolls
- 2 x 3 successive roll passes
- No intermediate sifting required
- Self-cleaning sifter
- Easy operation and handling
- Good reproducibility and constancy

The Quadrumat® Senior semolina mill

A modified version of the **Quadrumat® Senior** with modified rolls and roll gaps and with another sifter is available for grinding durum wheat to semolina.

Operating principle

The **Quadrumat® Senior** uses two 4-roll units:

- A break head
- A grinding or middlings reduction head

A bipartite plansifter with two sifter sections stacked one above the other separates the fractions according to their granulation - either as one collective flour or as two separate flours.

Material flow

From the feed hopper, the sample passes the 4-roll milling system and falls onto the first frame of the break sifter section (7).

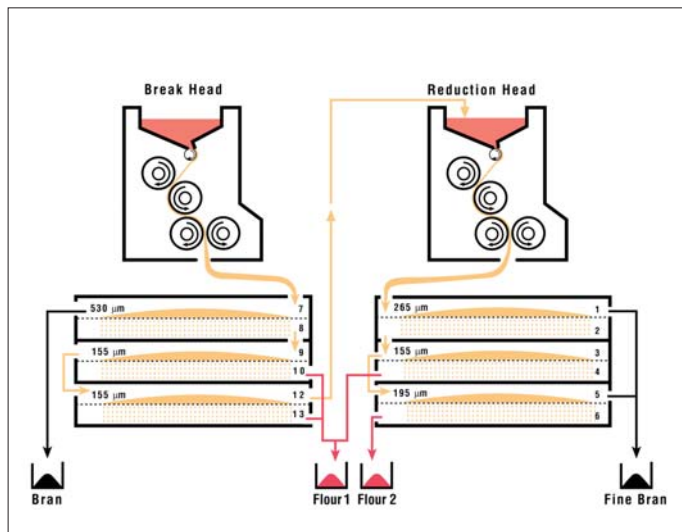
The schematic shows the way of the different brans and flours and of the "overs" from the different sieves.

The break flours from the collector frames (10) and (13) can be collected either as two separate flours or collected together in a common flour stock pail.

The middlings from the last sieve of the break sifter section (12) go to the 4-roll reduction head and pass the sifters of the reduction section.

Again, the flours from collecting frames (4) and (6) can either be drawn separately or gathered together in a common flour stock pail.

By turning the different sifter frames by 180° in the assembly, various flour types can be obtained.



Quadrumat® Senior schematic

Quadrumat® Senior

| | |
|-------------------------------|--|
| Throughput | 8 - 10 kg/h |
| Sample weight | min.200 g |
| Yield | 65 - 75% |
| Ash | 0.45 - 0.65% on dry substance |
| Mains connection | 3x 230 V; 50/60 Hz + PE; 2.8 A 3x 400 V; 50/60 Hz + N + PE; 1.6 A |
| Power | 1.1 kW |
| Dimensions (W x H x D) | 940 x 1820 x 530 mm |
| Weight | approx. 300 kg net |

Bran Duster

If the ash content and yield of your grain sample do not meet the required specification, the **bran duster** carefully separates flour particles still adhering to the bran. Increase the yield obtained on your **Quadrumat® Senior** by some 10% and approach even better the ash content of your samples to that of commercial flours.

Or use the bran duster to exactly adjust the flour produced to a

certain type and obtain flours which are exactly the same as those produced in industrial mills for making reliable statements concerning the flour quality.

The advantages are:

- **Higher yield**
- **Higher ash content**



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