



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

The C.W. Brabender® Quadrumat® Senior is a laboratory mill for multiple 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 * 3 successive roll passes
- No intermediate sifting required
- Self-cleaning sifter
- Easy operation and handling
- Good reproducibility and constancy

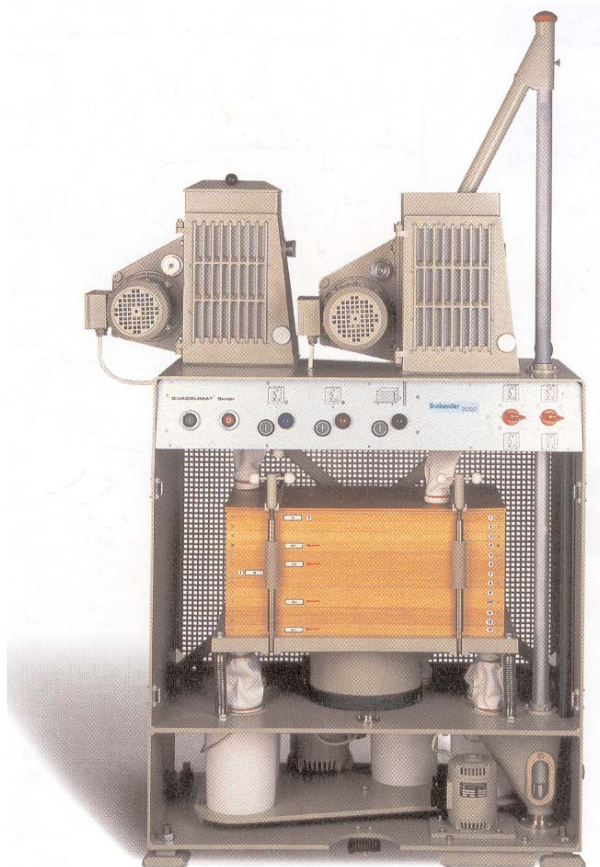
OPERATING PRINCIPLE

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.

**Quadrumat®
Senior**



Features and Specifications

C.W. Brabender® - Quadrumat® Senior

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.

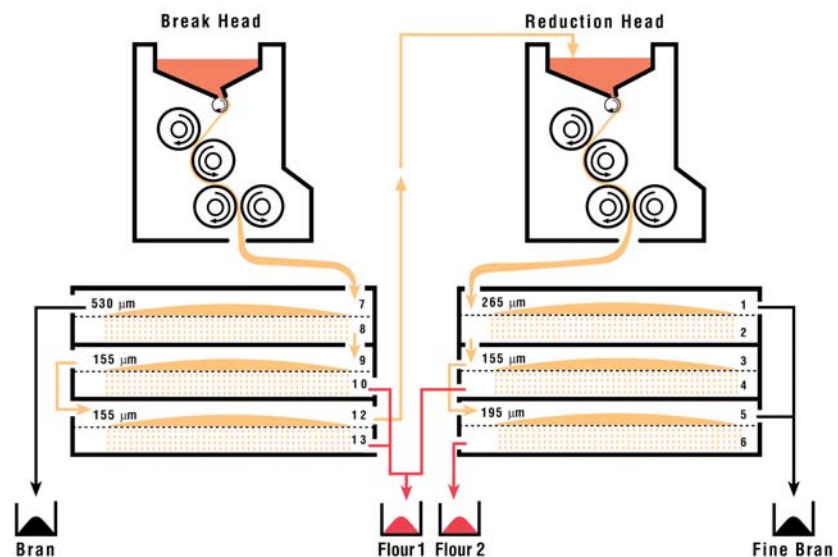
The break flours from the collector frames (10) and (13) can be collected either as two separate flours or collected together in a common flour stock pail.

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 in the assembly, various flour types can be obtained.

Technical data	
Throughput	8 - 12 kgs/h
Sample weight	min. 200 g
Yield	65 - 75 %
Ash	0.45 - 0.65 % on dry substance
Mains	3 * 230 or 400 V, 50/60 Hz
Power	1.1 kW
Dimensions (H * W * D)	1820 * 940 * 530 mm
Weight	approx. 300 kg net



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

If the ash content and yield of your grain sample do not meet the required specification, the bran duster carefully separates flour particles still remaining on the bran. Increase the yield obtained on your Quadrumat® Senior by some 10 % and obtain better ash content of your samples in relation 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.



Bran Duster



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