



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 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).

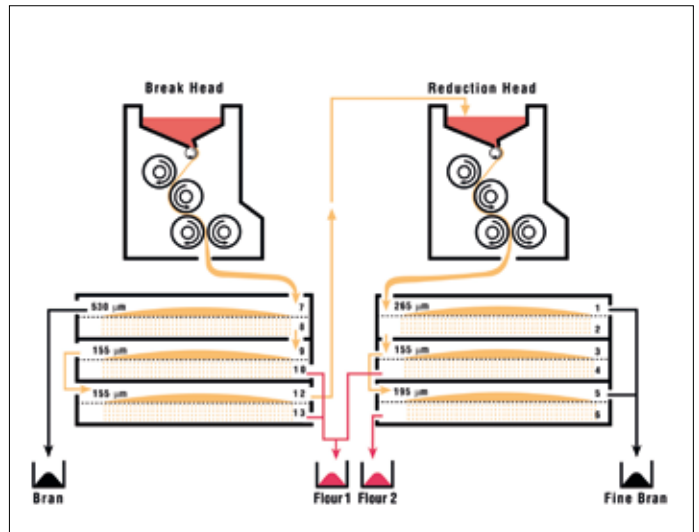
The schematic shows the way of the different brans and flours and of the "overs" from the different sieves.

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	3 x 230 V; 50/60 Hz + PE; 2.8 A 3 x 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



Brabender agencies all over the world. © 2017 Brabender® GmbH & Co. KG

All trademarks are registered. Subject to change of design and technical modification without notice.



Brabender® GmbH & Co. KG

Kulturstr. 49-55 · 47055 Duisburg · Germany  
Phone: +49 203 7788-0  
food-sales@brabender.com  
www.brabender.com

