DDH -
Husk separation.

Innovations for a **better world.**

BÜHLER

DDH - Husk separation.
Boost your process, increase your beer quality.

By replacing the hammer mill with a roller mill in mash filter applications, this new system increases brewhouse capacities by up to 10%, compensates for different malt qualities and allows for significant energy savings, less wear and reduced risk of explosions.

Why push the husk through the entire process - especially when the ratio of endosperm to husks is unfavorable due to poor raw material quality and may even cause quality issues for some types of beer? Bühler's answer is to separate the grist from the husk in the milling stage.

By removing the husks in our DDH (Dry Dehusking) process we can reduce the total mass of the grist by 3%. This increases the extract by up to 2.5 % while also expanding annual capacities by up to 10% at the same time.

Benefits.

- Increased brewhouse efficiency with compensation for challenging malt qualities such as six-row barley malt
- Energy saving through using a more efficient grinding solution and avoiding thermal treating of unneeded husk

Husk with starch to be recovered

Cleaned husk

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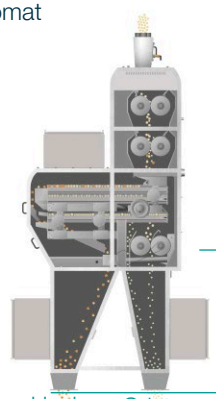
Why we rely on husk separation.

How does it work?

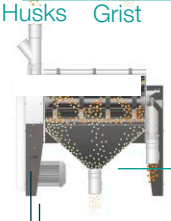
At the beginning the malt is ground by a grist mill. The Maltomat III is Bühler's solution to all your needs. Available in three packages the Maltomat can cover capacities from 4 to 15 tonnes per hour. The core of the machine is the sieve box – this separates the grist, flour, and husk, with two large husk sieves for accurate husk separation.
After passing the grist mill, the product flows into a vibro-sieving machine. While the husks are filtered out by the rotation of the sieve, the recovered starch flows through the machine and on into the mash tun where the brewing process continues.



Grist mill Maltomat III
↳ Optimal grinding
↳ Husk separation

Separate bin for husk collection

Husks Grist



Vibro-sieving machine
↳ Starch recovery from husks

Husks for other applications

Recovered starch back to process

▸ Application for mash-filter

Features.

- Brewhouse efficiency - Increases yield by 2.5 % and brewhouse capacities by up to 10 %
- Improved beer processing - Compensation for fluctuating raw material quality
- Energy saving - 50% energy saving and reduced maintenance effort (e.g., sieve changes) compared to conventional hammer milling
- Polymerization index drops - Fewer husk particles, less polyphenol leaching, improved beer taste and longer shelf life

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