



Arrakis roller mill MRRK

Reinventing an icon

Innovations for a **better** word.

BUHLER

Reinvention of an icon

Designed for the future

A reassuring, familiar face – but with a host of new features and improvements. Same footprint. Same trustworthiness. State-of-the-art hardware and software for smoother production and enhanced operational efficiency. This is the all new Arrakis MRRK.



Built on timeless reliability

Have you ever met someone for the first time, but felt as if you've known them forever? Meet Arrakis.

Viewed from the front, the Arrakis MRRK tells the story of the past, but at the same time, also offers a glimpse of the future.

It offers innovative features centered around performance, robustness and simplicity, all brought together in a timeless and contemporary design.

With more than 25'000 roller mills produced over 40 years, Airtronic is a true icon in the history of milling. We took what we learned from this success and used it as the foundation for Bühler's new roller mill: the Arrakis MRRK.



Benefits

- Robust and reliable
- Easy to operate
- Fast and simple installation

Setting the tone for efficient grinding

Feeding is a crucial step in the grinding process. The feeding unit on the Arrakis provides a continuous product flow and ensures an even spread.

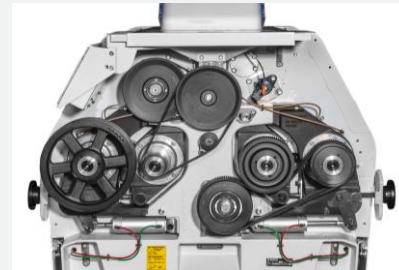


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Built on simplicity

A fixed-speed feeding roll, connected to the main roll's drive, eliminates the need for an additional motor and frequency converter. This straightforward system ensures that less time is spent on installation and maintenance.



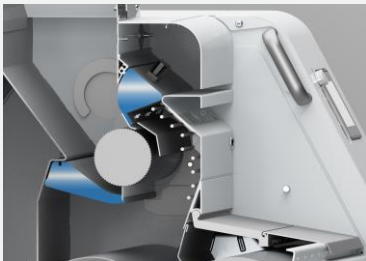
Proven efficiency

Arrakis uses a proven loadcell sensor to keep a constant product level in the inlet and adapts the feeding gap to ensure a stable product flow over the entire gap of the grinding rolls. This increases operational reliability, minimizing the need for operator interventions.



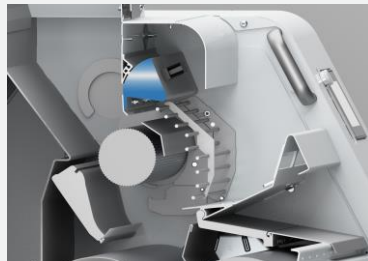
Optimized production & maintenance

Save on time and energy



Automatic feed gap closure

When the machine is not in operation, the feeding gap is closed automatically, preventing any accumulation of product between the rolls. This saves you time and energy when restarting Arrakis.



Quick release & cleaning flap

A quick release function allows fast opening of the feed module. Thanks to its wide opening angle, the cleaning flap ensures the rapid discharge of any product remaining in the feed module. These design features save time by greatly simplifying cleaning operations, streamlining all the required steps.

Latest generation scrapers



Brushless synthetic scraper

The new solid synthetic scraper hovers tightly over the rolls to replace the bristle brushes. The scraper experiences **up to three times less wear** and eliminates the risk of product accumulation. This results in improved food safety and decreased maintenance.



Self-adjusting knife scraper

The flexible knife holder allows the knives to align themselves to the surface of the rolls automatically by constantly applying optimal pressure, **eliminating the need for manual adjustments**. The blade also experiences uniform and reduced wear.

Trust is earned through reliability



The heart of Arrakis is its grinding unit – a true pillar that you can rely on thanks to its stable grinding performance.

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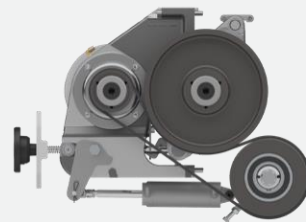
Ease of cleaning and maintenance

The integrated grinding gap adjustment is stripped down to its essential parts. This simplified design facilitates cleaning and maintenance.



Reduced failure risk

An integrated protective mechanism allows foreign bodies to pass and prevents Arrakis from being damaged. This reduces the risk of failure and improves security for you.



Maximized grinding performance

The patented grinding gap adjustment ensures rigidity and stability over time to maximize grinding performance.

Let your intuition guide you

State-of-the-art control unit

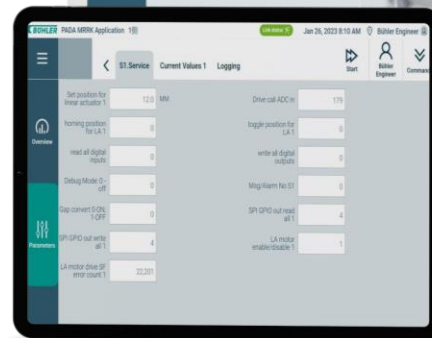
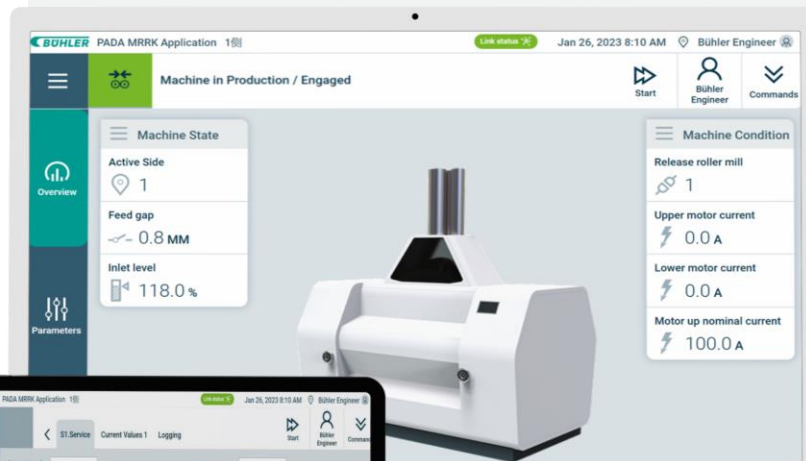
The intuitive interface provides a quick and easy overview of key operating parameters. Accessible in English and Chinese, it makes controlling and monitoring Arrakis easy and straightforward.

Accessible on various devices

An integrated web server provides secure remote access to Arrakis' control unit. This not only enables remote control of the milling process, but also increases efficiency at the same time.

Control options

As the integrated touchscreen is not necessary to control Arrakis, it is available as an option.





Your safety is our top priority

Arrakis integrates several protective features to ensure safety without hindering performance. For operating the Arrakis unmanned an additional high level sensor at the roller mill outlet is monitored by the plant control system.

Not only aesthetics

Perforated side panels allow for quick and safe inspection of Arrakis while the machine is running. A nice added bonus is the improved cooling through an optimized airflow.

Feeding unit safety grid

Safety grids protect roller mill operators from moving parts while allowing them optimal access for product sampling.

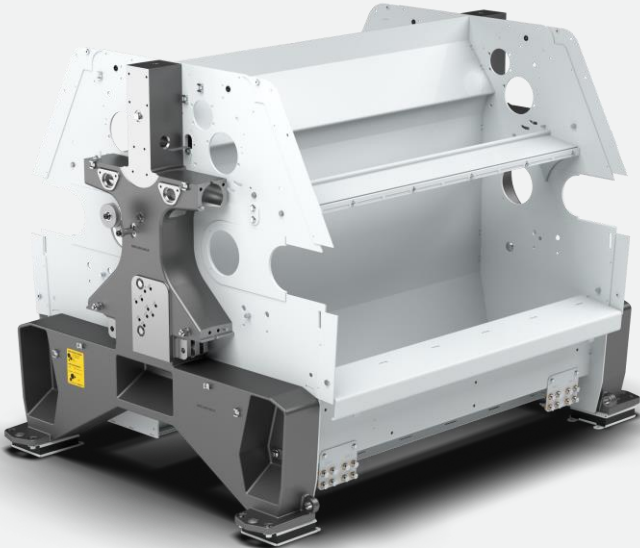


Arrakis

Sturdy design

Thanks to the robust casting frame with the load-carrying structure, Arrakis is capable of high vibration absorption. This robustness ensures reliability for long operating periods.

Arrakis is built to the same footprint as MDDK, ensuring that one-to-one replacements are possible. Installation is fast and simple with no need for adapting the flowsheet or extending the existing building.



Technical specifications



Arrakis MRRK 4



Arrakis MRRK 8

Suitable for every need

	Length mm	Width mm	Height mm	Weight kg
MRRK 4-1000/250	1885	1506	1755	2900
MRRK 4-1250/250	2135			3400
MRRK 4-1500/250	2385			3900
MRRK 8-1000/250	1955		2295	5100
MRRK 8-1250/250	2205			5900
MRRK 8-1500/250	2455			6500



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Brochure MRRK en 2/23