

SmartWhite™ Rice Whitener. DRWD



Brown rice, or 'Cargo Rice' as it is often known is rice that hasn't undergone the whitening process. It is only after the outer layers of the brown rice have been removed that the seed then becomes white rice; the staple food recognised by most consumers.

Bearing in mind that the product quality and value depends on the whiteness of the rice and the lowest possible proportion of brokens, a high quality whitening machine is crucial to the economic success of a rice mill. Usually there is always a trade-off between whitening degree and breakage, but with a Bühler SmartWhite there's no compromise - it produces the highest whiteness with the lowest breakage.

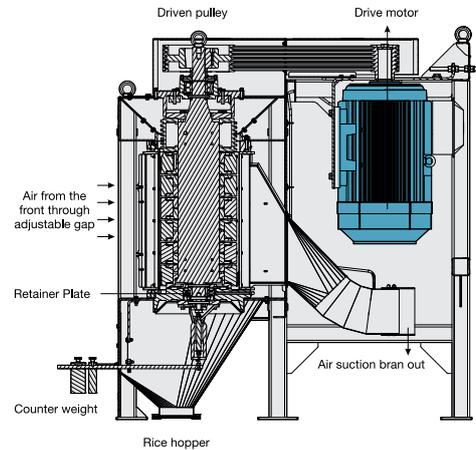
Key Benefits

- High yield whitening
- Minimum on broken
- Gentle and even abrasion
- Long cleaning intervals
- Easy operation and maintenance

New SmartWhite™ DRWD Whitener delivers Superior Whitening performance.

Working Principle

The fundamental components of the whitener are the grinding rotor, the screens and the processing chamber. The grinding rotor consists of silicium carbide rings set one above the other, with spaces between them are supported by three ribs on the shaft. The ribs create free space for a central air flow between the shaft and the stone rings. This free space is open at both top and bottom, allowing sucked air to come in from both ends and pass through the gaps between the stone rings. Rice is fed from the top of the machine via a feed-screw and flows directly into the processing chamber. The degree to which the chamber is filled is controlled by a retainer plate at the bottom. Weights are used to adjust the back pressure of the retainer plate.



SC 31604 en 1115 SCPL 155536

Superior performance

Designed for delivering unparalleled performance, SmartWhite delivers highest whiteness with the lowest breakage.

High reliability and low maintenance

SmartWhite is designed and built to last. For example, the reversible feed screw design doubles the working life of feed screw.

Easy to operate design

SmartWhite is designed for ease of use, with features such as easy sieve frame adjustment mechanism and simple to use controls.



Technical Specification

Machine	Capacity* (kg/h)	Motor (KW)	Aspiration (m3/min)	Approx. Weight (KG)	Volume (m3)	Dimension (L X B X H) in mm
DRWD**	3500 - 4000	30/37	35	850	4	1850 X 820 X 1720

** Standard Machine supply is without motor. The machine can also be supplied with motor installed.

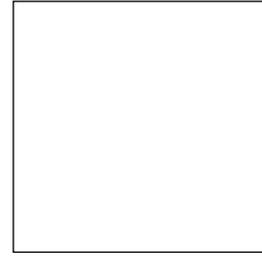
* Capacity as Paddy input basis.

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SmartPoly™ Rice Polisher. DRPR



Presentation is the key to success in any white rice market, as rice is sold on how it looks and feels. This means rice millers need polishers that help them achieve an end product with a highly attractive look and finish.

The SmartPoly™ DRPR delivers uniform white rice that has excellent appearance and texture with a minimised incidence of broken grains thus giving increased whole rice yield. The high gloss silky finish lends a highly attractive look to the product on market shelves. Backed by Bühler's top-notch services and support, the SmartPoly™ DRPR guarantees high efficiency in operation.

Key Benefits

- Attractive surface finish from matt to high silky
- Dust free rice for transparent packaging
- High head rice yield
- Sanitised processing
- Economic power consumption
- Easy operation and maintenance

New SmartPoly™ DRPR polisher delivers ultimate white rice look and finish.

The important design characteristics of SmartPoly™ DRPR polisher are efficient aspiration, ease of operation and improved controls on operating parameters.

SmartPoly™ DRPR polisher includes

- Rigid steel frame with in-built drive, designed for highest sanitation
- Polisher with tube injection system, designed for polishing rice to best gloss.
- Water metering unit with electrical control box for easy operation
- Space saving design with motor integrated in machine housing

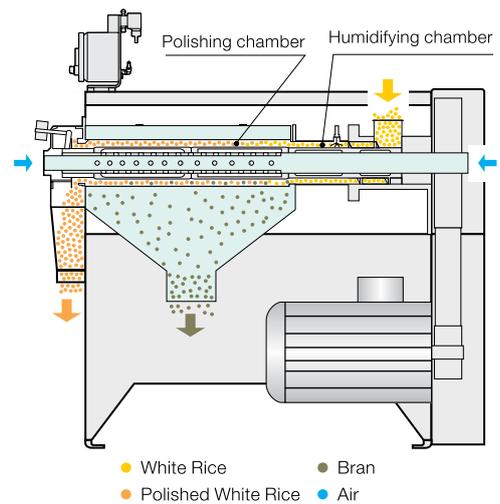


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Function - Polishing

Whitened rice falls through the inlet and is conveyed by the feed screw into the sieve basket. A uniform water film is applied to the product via the mixing tube using a nozzle. The rice grains are gently rubbed against each other in the sieve basket by a rotating cam shaft. This process enables a smooth shiny finish in the rice grains. The fully polished, dust free product, is collected through the outlet.

The aspiration system produces an air current, in the polishing chamber through the hollow shaft, which is open on both sides and keeps the rice cool. Separation of rice from the bran, is achieved in the sieve basket and the bran is collected as a by product. Additional air supply is achieved through the adjustable slots in the doors.



Technical Specification

Machine	Capacity* (kg/h)	Motor (KW)	Aspiration (m3/min)	Approx. Weight (KG)	Volume (m3)	Dimension (L X B X H) in mm
DRPR**	3000 - 4000	37/45	35	820	4	1950 X 720 X 1750

**Standard Machine supply is without motor. The machine can also be supplied with motor installed.

*Capacity as Paddy input basis.

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