PULSROLL™

Pulse Huller.

High capacity, energy-efficient new generation pulse huller. Designed for modern pulse mills.
PULSROLL™

Gentle hulling delivering uniform finish and quality on a range of pulse varieties.

Introducing PULSROLL™ pulse huller. Bühler's latest technological advancement in pulse processing. Designed to efficiently remove husks on a wide range of pulses. PULSROLL™ is a high capacity processing solution offering improved yield, uniform finish and optimum quality while driving down overall processing costs.

Exclusively designed for pulse processing, PULSROLL™ gives processors precise control over hulling conditions and settings. Through its easy adjustment of the milling gap between stones and sieves, adjustable machine inclination and pressure control inside the hulling chamber, the PULSROLL™ delivers high hulling efficiency, lower brokens and optimum finish.

Its robust design contributes to less wear, better machine life cycle and when combined with a low dust production, leads to improved productivity, safe and hygienic processing.

- High throughput with low power consumption
- Robust machine design
- High yield and optimum finish
- Designed for safe & hygienic operation with CE certification
- Easy operation and versatile application on a wide range of pulse varieties
Stable, balanced machine design with large hulling surface area
Delivers higher capacity and uniform hulling performance.

Specially designed hulling stones
Bühler proprietary emery stones are designed in eleven sections for minimal wear and when needed, are easy to replace.

New sieve assembly with three sieve sets (optional)
Easily replaceable concentric sieves are available as an option to help maintain a uniform hulling area throughout the stones life cycle.

Variety of emery stones and grit sizes
Specially selected and recommended by Bühler technologists to deliver optimum hulling degree and lower brokens.

Maximum hygiene
Food grade rubber seals between stones reduces product accumulation, dust and allows for easier cleaning to reduce contamination during product changeovers.

Adjustable milling parameters
Maximum control on hulling degree through adjustable hulling gap and pressure.

Adjustable machine inclinations
Easy to change inclination to suit variations in input products.

Connections to aspiration system
Connections to convey husk pneumatically are available as an option for a cleaner operation.

CE certified
PULSROLL™ is designed and manufactured to conform to the highest process and safety standards.
PULSROLL™.

High capacity, energy-efficient pulse huller. Delivering better yields and optimum finish.

**High throughput with lower power consumption.**

- **High capacity**
  Uniform feeding and machine angle ensures effective hulling while the smooth conveying of pulses to the hulling chamber leads to high processing capacities.

- **Efficient and consistent performance**
  Stable and balanced machine design with large hulling surface delivers optimum hulling performance at lower expense of energy consumption.

**Robust machine design.**

- **Long machine life cycle**
  Designed to minimize damage from abrasive by-products produced during hulling - improving machine life and ensuring maximum uptime.

- **Maximum output with longer stone life**
  Durable emery stones offer high resistance to wear, saving costs and downtime from frequent replacements.

**Improving productivity**

**PULSROLL™**

- **Robust machine design.**
  Designed to minimize damage from abrasive by-products produced during hulling - improving machine life and ensuring maximum uptime.

**Maximum output with longer stone life**

- Durable emery stones offer high resistance to wear, saving costs and downtime from frequent replacements.

**Delivers better yield and optimum finish on hulled pulses.**

- **Gentle processing**
  PULSROLL™ allows precise control over the hulling process ensuring less broken and enhanced yield.

- **Uniform hulling**
  The hulling stone assembly comprises of eleven individual sections so worn stones can be easily replaced. This ensures a uniformed hulling gap and when combined with a new sieve assembly design, PULSROLL™ delivers a consistent hulling performance.

**Optimum finish on hulled pulses**

- Bühler’s pulse technologists expertly select the emery stones and hulling conditions most suitable for each pulse variety - minimizing dust and delivering a superior finish.
PULSROLL™.
New generation pulse huller, designed for modern pulse mills.

Designed for safe & hygienic operation with CE certification.

Improved Hygiene
Delivers a hygienic operation, designed with no dead spots for product build ups - enables easier cleaning, improves hygiene and aids fast product changeovers.

Safe and trouble free operation
Generates minimal dust, noise and vibration, PULSROLL™ sets a new global standard for modern pulse processing.

Easy to operate and flexible.

Ease of operation
Easy to operate with features to aid faster product changeovers; simple controls to change hulling parameters, easy accessibility for cleaning, replacing stones and sieves.

Versatile application
Designed for a wide range of pulse applications offering pulse processors maximum flexibility.
PULSROLL™ working principles.

Quick guide to working principles

- Whole pulses are fed into the inlet spout [A] and then directed towards the hulling chamber [B].
- The pulses are hulled while passing between sieves [C] and grinding stones [D] rotating on shaft [E].
- Thanks to adjustable machine inclination, hulled product is conveyed through the hulling chamber and leaves through the outlet chamber [F].
- Hulls, which are separated, will pass through the sieves and into the hopper [G] to be aspirated or conveyed mechanically.

Suitable for all major pulse varieties
Technical details and global support.

Global coverage, local support.
Wherever you are in the world.

Presence in over 140 countries offering local support and service sites.

Bühler operates in all major pulse producing markets. So, wherever you are in the world, our local Bühler operating companies provide you with a window to our comprehensive global pulse processing capabilities.

- Global supply of complete processing line of equipment, technology and services
- Expertise and vast process know-how of pulse processing
- Global locations of Bühler Application center for trials and test machines
- Bühler Service Stations are available in more than 30 branches worldwide
- Leadership in research, development and trends for food safety, food quality and nutrition

Technical details

Legend

- a = Product inlet Ø120
- b = Product inlet Ø150
- c = Aspiration connection Ø200
- d = Hulling degree adjustment
- e = Weight adjustment retarding plate
- f = Vacuum gauge for negative pressure
- g = Ammeter

<table>
<thead>
<tr>
<th>Machine</th>
<th>Motor</th>
<th>Aspiration m³/min</th>
<th>Approx. weight in Kg</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>unpacked net</td>
</tr>
<tr>
<td>PULSROLL™ (DRHG)</td>
<td>11kW, 15kW, 18.5kW</td>
<td>15</td>
<td>1200</td>
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Capacities* (tons/hour)

<table>
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<tr>
<th>Pigeon Pea</th>
<th>Chick Pea</th>
<th>Black Gram</th>
<th>Green Gram</th>
<th>Yellow Pea</th>
<th>Yellow Lentils</th>
<th>Red Lentils</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
<td>4.0-5.0</td>
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* Capacities are indicative and not binding and depends on the commodity type, variety, grade and input moisture content.