PULSROLL™ Pulse Huller.

High capacity, energy-efficient new generation pulse huller. Designed for the modern pulse mills.
PULSROLL™
Gentle hulling performance delivering uniformed 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 yields, uniformed finish and optimum quality whilst 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
- Delivers a better yield and optimum finish on hulled pulses
- Designed for safe & hygienic operation with CE certification
- Easy to operate and versatile application on a range of pulse varieties
PULSROLL™ at a glance.

1. Stable, balanced machine design with large hulling surface area
   Delivers higher capacity and uniformed hulling performance.

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

3. 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.

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

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

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

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

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

9. 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 whilst the smooth conveying of pulses to the hulling chamber leads to high processing capacities.

Adding value and profit
PULSROLL™ sets a new industry standard - high capacity pulse hulling solution with low processing cost per tonne in a smaller machine footprint.

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.

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

Improved productivity
PULSROLL™ enables processors to improve productivity by minimising downtime and better utilisation of the installed capacity.

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

Delivers a better yield and optimum finish on hulled pulses.

Gentle processing
PULSROLL™ allows precise control over the hulling process ensuring lesser broken pulses and enhanced yield.

Optimum finish on hulled pulses
Bühler’s pulse technologists expertly select the emery stones and hulling conditions most suitable for each pulse variety - minimising dust output and delivering a superior finish.

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.
PULSROLL™.
New generation pulse huller, designed for the 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.

**New generation huller - conforms to global safety standards**
PULSROLL™ is CE certified and complies with major global safety regulations on electrical and mechanical operation.

**Easy to operate and offers flexibility.**

**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] which is directed towards the hulling chamber [B].
- The pulses are hulled while passing between sieves [C] and grinding stones [D] rotating on shaft [E].
- By means of machine inclination, hulled product is conveyed through the hulling chamber and leaves through the outlet chamber [F].
- The separated husk passes through the sieves into the hopper [G] to be aspirated or conveyed mechanically.

Suitable for all major pulse varieties
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 centre 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

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

### Technical details

<table>
<thead>
<tr>
<th>Machine</th>
<th>Motor</th>
<th>Aspiration m³/min</th>
<th>Approx. weight in Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PULSROLL™ (DRHG)</td>
<td>11kW, 15kW, 18.5kW</td>
<td>15</td>
<td>1200 1600 1700</td>
</tr>
</tbody>
</table>

### Capacities* (tonnes/hour)

<table>
<thead>
<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>
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</table>

* Capacities are indicative and not binding and depends on the commodity type, variety, grade and input moisture content.