MTPA – Osiris
Food-Safe Pearling

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Market demand

- High food safety
- High throughput
- High & uniform pearling degree
- Low wear and tear
- Low energy consumption
- Minimal footprint
Industry

Used among various industries

- Pasta
- High value products
- Flakes & Specialty flours
- Breweries
- Pet food applications
Product overview

Name of the process:
• Food-Safe Pearling

Name of the machine:
• Osiris

Throughput:
• 2-12 t/h

Sizes:
• MTPA-55
• MTPA-75
• MTPA-90
Feature & Function

Only one product inlet, without feed screw
• uniform product distribution possible by a conical rotor lid

Automatic retarding system, without weight force
• allows quick intervention in the product flow and pearling degree

Direct drive, no belts
• energy saving
• maintenance friendly
• no belt wear
Feature & Function

10 identical pearling wheels
• individually replaceable and exchangeable

Diamond as pearling material
• diamond is known as the hardest pearling material
• highest pearling performance by optimized peripheral speed
• constant wheel diameter over lifetime

Combined air channel and sieve jacket
• allows easy access for maintenance

Optimized air channel
• uniform air suction over the entire rotor
Automation

Integrated control, less cabling
• reduced mounting and less cables

Control panel directly at the machine, remote control possible

The motor load is used as setting parameter

Automatic retarding system
• fast, accurate and precise regulation of pearling degree with servomotor
Customer Service

Easy access to wear parts
- sieve
- break bars
- pearling wheels

Change of sieve and break bars is possible in less than 30 minutes

Change of pearling wheels is possible in less than 2 hours

All 10 pearling wheels are identical and can individually be replaced and exchanged
BSPB vs. MTPA with Durum

2 BSPB can be replaced by 1 MTPA
<table>
<thead>
<tr>
<th></th>
<th>BSPB - Topwhite</th>
<th>MTPA - Osiris</th>
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<tbody>
<tr>
<td>Engine power</td>
<td>37 kW</td>
<td>55 kW, 75 kW, 90 kW</td>
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<tr>
<td></td>
<td>45 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>55 kW</td>
<td></td>
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<tr>
<td>Rotor</td>
<td>Ø340 mm</td>
<td>Ø550 mm</td>
</tr>
<tr>
<td>Peripheral speed</td>
<td>14 - 16 m/s</td>
<td>43 m/s</td>
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<tr>
<td>Pearling material</td>
<td>Silicon carbide</td>
<td>Electroplated diamond</td>
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<tr>
<td></td>
<td>Electroplated Diamond (Retrofit)</td>
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Customer benefits

High throughput (2-12 \(\frac{t}{h}\))
- reference value with Durum:
  8 \(\frac{t}{h}\) at 8 % pearling degree

Highest degree of food safety
- no contamination by stone

High energy efficiency

Integrated control

Sturdy design

Minimal footprint
- approx. 6.6’ x 6.6’
- height approx. 7.2’
  (with 90 kW-engine)
Movie