



MTPA – Osiris Food-Safe Pearling

Isabelle Huggler

Market demand

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



Durum



Barley





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

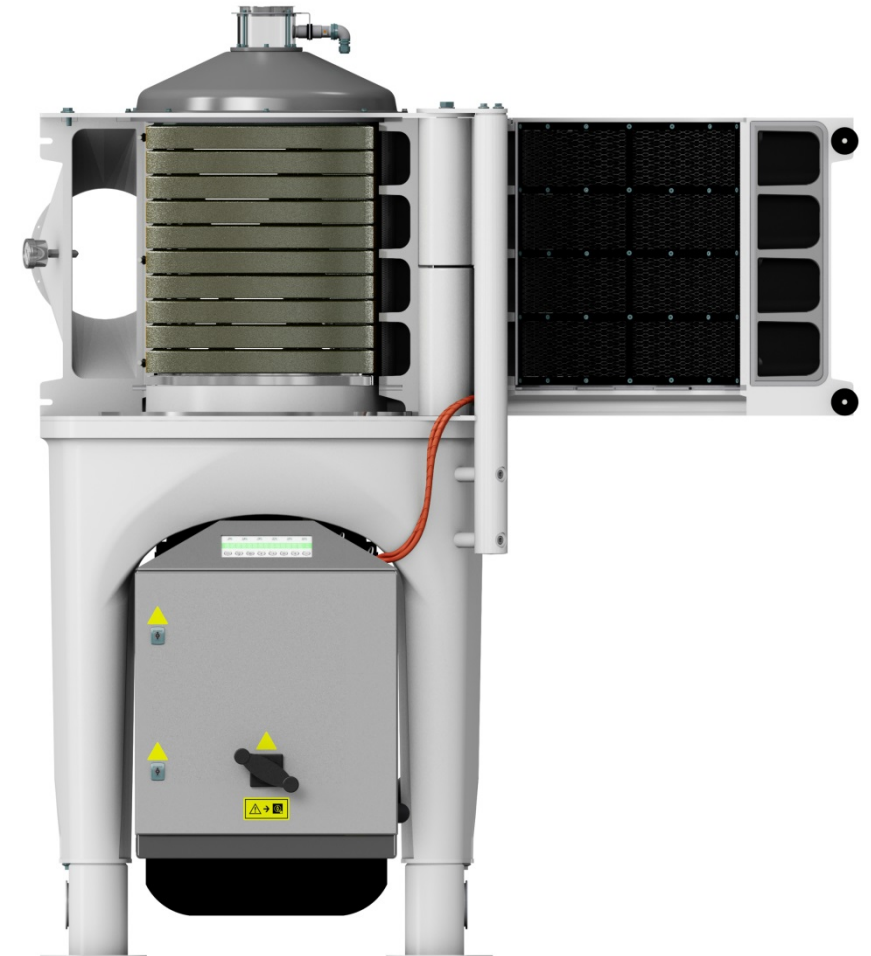
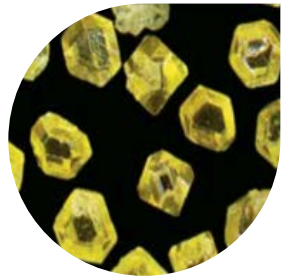
- diamond is known as the hardest pearling material
- highest pearling performance by optimized peripheral speed
- constant wheel diameter over lifetime

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

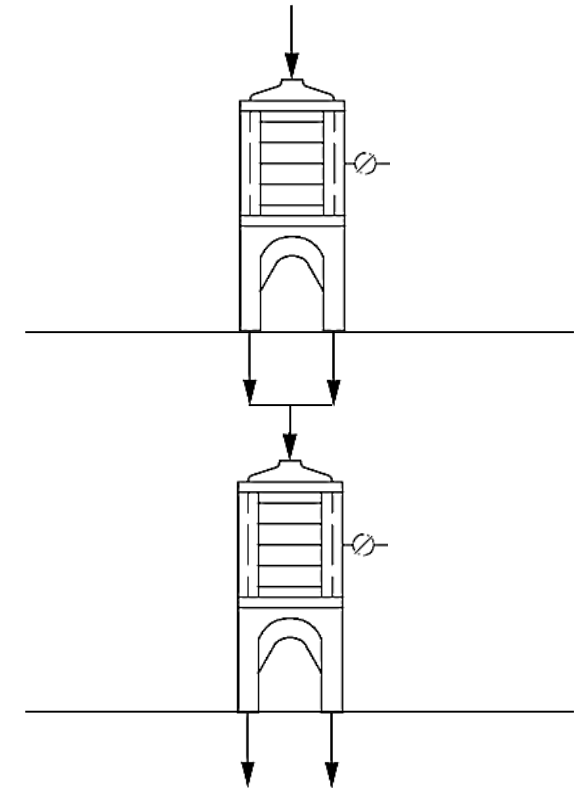
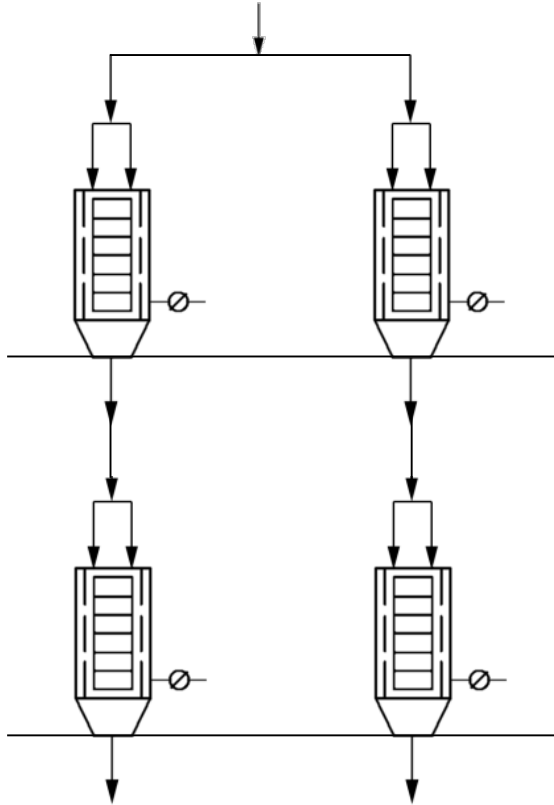
Change of pearling wheels is possible in less than 2 hours



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



	BSPB - Topwhite			MTPA - Osiris		
						
Engine power	37 kW	45 kW	55 kW	55 kW	75 kW	90 kW
Rotor	Ø340 mm			Ø550 mm		
Peripheral speed	14 - 16 m/s			43 m/s		
Pearling material	Silicon carbide Electroplated Diamond (Retrofit)			Electroplated diamond		

Customer benefits

High throughput (2-12 t_h)

- reference value with Durum:
8 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



www.buhlergroup.com