

Vertical Pearler
Osiris
MTPA

Osiris – the diamond of pearlers

More value for your success

Discover the new diamond for the processing of grains. With the vertical pearler Osiris, Bühler is setting benchmarks in every dimension. Its strengths allow you to bring your quality, productivity, and efficiency to a new level.

Pearler with added value

An innovative design makes Osiris the most valuable addition to your process chain, and it's even visually attractive. Thanks to its diamond-coated grinding wheel, a powerful servo motor, and efficient direct drive, you can benefit from maximum food safety, greater throughput, reduced energy consumptions – and all that with minimal breakage.

Among its other highlights are its maintenance-friendliness and minimal space requirements. You save building volume and get higher availability. Finally, Osiris shines due to its particularly convenient operation.



Maximum food safety



Greater throughput



Optimum energy efficiency



Minimal grain breakage



Reduced costs of operation and maintenance



Less space required



Easy operation

Innovative design

High availability and minimal breakage

Food safety is an increasingly important factor in the processing of grain types like durum wheat, barley, sorghum, and pseudo-grains. A demonstrable plus in food safety increases product quality, allows higher margins, and reinforces customer trust.



Maximum food safety

The innovative design of Osiris, with ten diamond-coated grinding wheels, means top-notch food safety. Diamond is the hardest and longest-lasting of all grinding materials. Contamination of grains due to stone inclusions or grit are therefore a thing of the past.



Durum wheat



Barley



Sorghum



Pseudo-grain – amaranth



Pseudo-grain – buckwheat



Pseudo-grain – quinoa



Greater throughput

The larger grinding surface and the more powerful motors of Osiris optimize throughput – depending on the pearling degree and type of grain – to up to twelve tons an hour. This means far fewer machines are needed. At the same time, the costs of investment, operation, and maintenance are significantly reduced.

Reduced energy consumption

Consistent product quality



Optimum energy efficiency

The efficient direct drive instead of a belt drive, larger rotor diameter, and diamond as a high-efficiency grinding material with improved material removal performance reduce energy consumption in comparison with conventional technologies by up to 20 percent.



Higher yield

The efficient diamond grinding material, the optimized circumferential speed of the rotors, and the improved ventilation system with constant aspiration all ensure a greater pearling degree for the grain, with minimal breakage. That ensures consistently high product quality and improved yield.



Diamond as high-efficiency grinding material

Outstanding cost-effectiveness

Easy operation



High cost savings

Osiris is designed to be particularly maintenance-friendly. The fold-up air channel simplifies access to important wearing parts. The grinding wheels, filter, and braking strips can also be replaced much more quickly than on conventional machines. All the grinding wheels can be replaced in just two hours. The identical diamond grinding wheels can be swapped and/or individually replaced. All this reduces the system's downtime and sustainably reduces the costs of operation and maintenance.



High space savings

The innovative design with direct drive instead of a belt drive makes it possible to locate the motor directly under the rotor. That reduces the footprint of the machine significantly, simplifying its installation in the plant.



Osiris – maintenance-friendly thanks to a fold-up air channel

Everything under control

Directly at the machine or via Mercury MES



Easy operation

The built-in display ensures easy operation of Osiris simply by setting a single target value. Thanks to the powerful servo motor, the pearling degree can be quickly and accurately regulated. The vertical pearler can also be integrated into Bühler Mercury MES process control. That increases the level of automation of the whole plant, ensuring smoothly-operating, efficient processing.



Increased level of automation with Mercury MES process control

Flexible in use

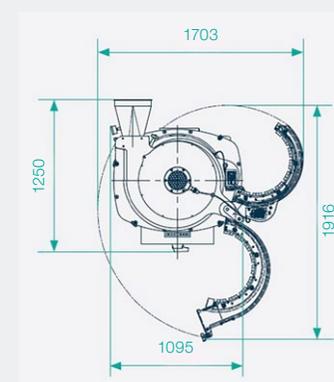
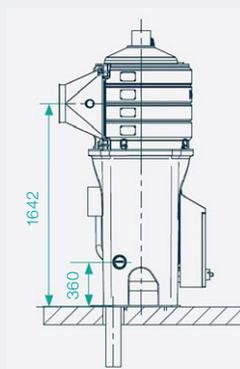
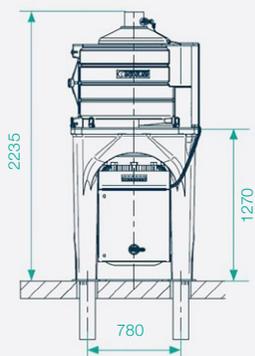
Requirements-oriented variants

As a part of integrated processing, Osiris offers three performance variants and thus the optimum basis for maximum food safety and consistently high product quality at optimum throughput.

Technical data of the Osiris MTPA at a glance:

Model	Motor		Throughput*						Weight (without packaging) kg
	ATEX / EN kW	UL kW	2 t/h	4 t/h	6 t/h	8 t/h	10 t/h	12 t/h	
MTPA - Osiris	55	60	12 - 14%	8 - 10%	5 - 6%	4 - 5%	3 - 4%	2 - 3%	1800
	75	90	–	10 - 12%	7 - 8%	6 - 7%	4 - 5%	2 - 3%	1900
	90	108	–	–	8 - 9%	7 - 8%	5 - 6%	–	2000

* PEARLING DEGREE FOR DURUM WHEAT



Dimensions in mm



Bühler AG

CH-9240 Uzwil
Switzerland

T + 41 71 955 11 11

milling@buhlergroup.com
buhlergroup.com/milling

BUZ-MS MTPA brochure EN 10/23 Z&B 234547