



IAOM MEA 2018

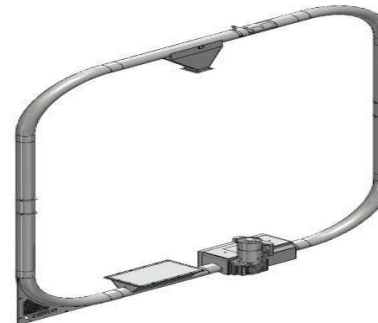
What's new:

“Focus on efficiency, sanitation and energy consumption”

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Focus on efficiency, sanitation and energy consumption

- Vertical Pearler Osiris
- Plansifter Arenit
- Roller Mill Diorit
- Tubular push conveyor TUBO





Vertical Pearler Osiris

Vertical Pearler Osiris

Market demand

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



Durum



Barley



Sorghum



Vertical Pearler Osiris

Features & Function

One product inlet

- uniform product distribution possible by a conical rotor lid

Combined air channel and sieve jacket

- allows easy access for maintenance

Automatic retarding system

- allows quick intervention in the product flow and pearling degree

Direct drive, no belts

- energy saving
- maintenance friendly
- no belt wear



Vertical Pearler Osiris

Features & Function

10 identical pearling wheels

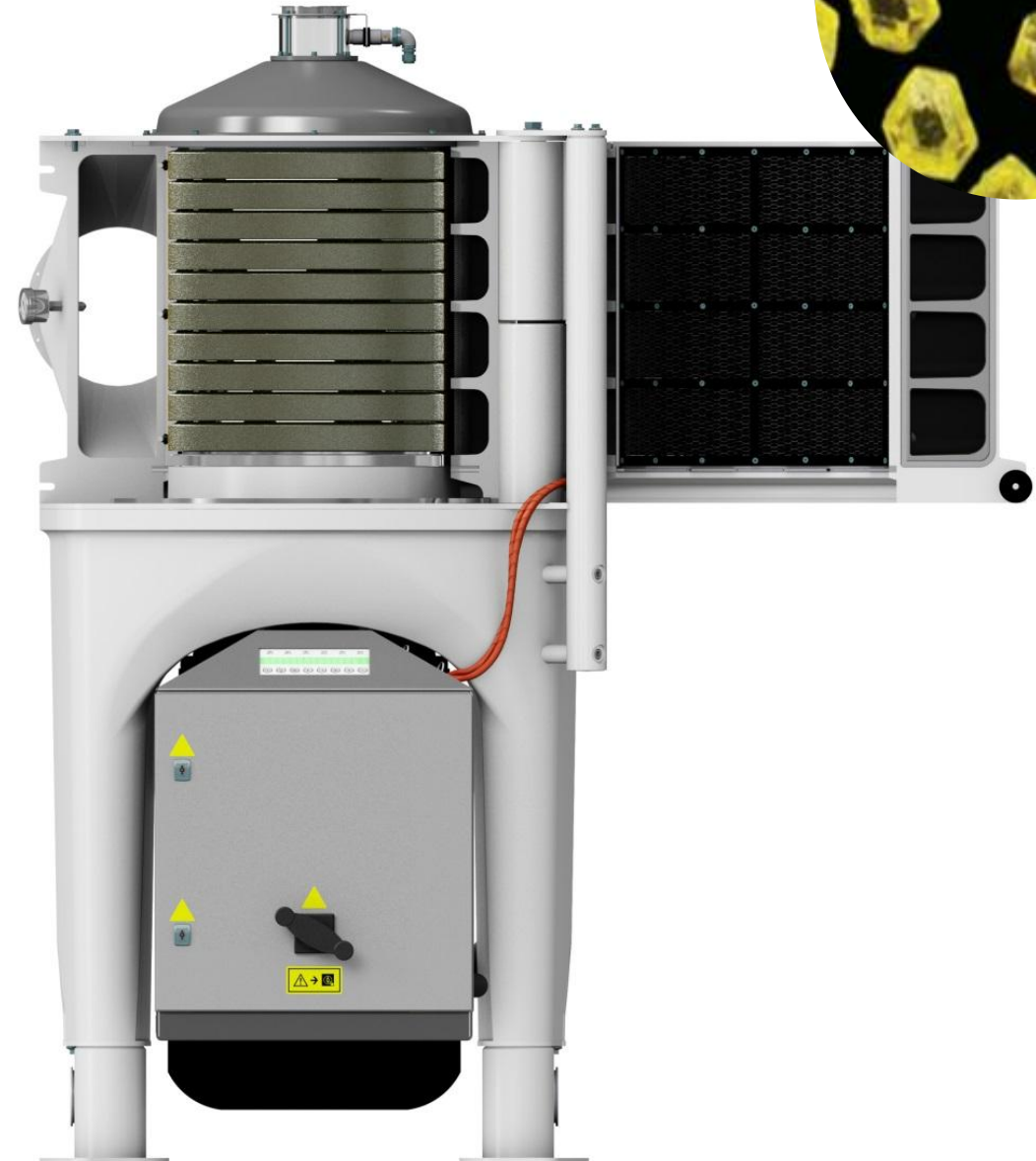
- to standardize the spare parts stock

Diamond as pearling material

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

Optimized air channel

- uniform air suction over the entire rotor



Vertical Pearler Osiris

Automation

Integrated control

- 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



Vertical Pearler Osiris

Throughput as added value

Increased grinding surface and powerful motors optimize the throughput up to twelve tons per hour:

Model	Motor		Throughput						Weight (without packaging) kg
	kW ATEX/EN	kW UL	t/h 2	t/h 4	t/h 6	t/h 8	t/h 10	t/h 12	
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

Vertical Pearler Osiris

Food safety

- Top-notch food safety by the use of diamond coated grinding wheels instead of traditional stone wheels
- Elimination of the risk of contamination through stone inclusions





Plansifter Arenit

Plansifter Arenit Plus

High sifting capacity, highest sanitation and product safety

- High sifting capacity
- Maximum sanitation
- Efficient Sieve cleaning
- Reliable Operation
- Ideal use of space

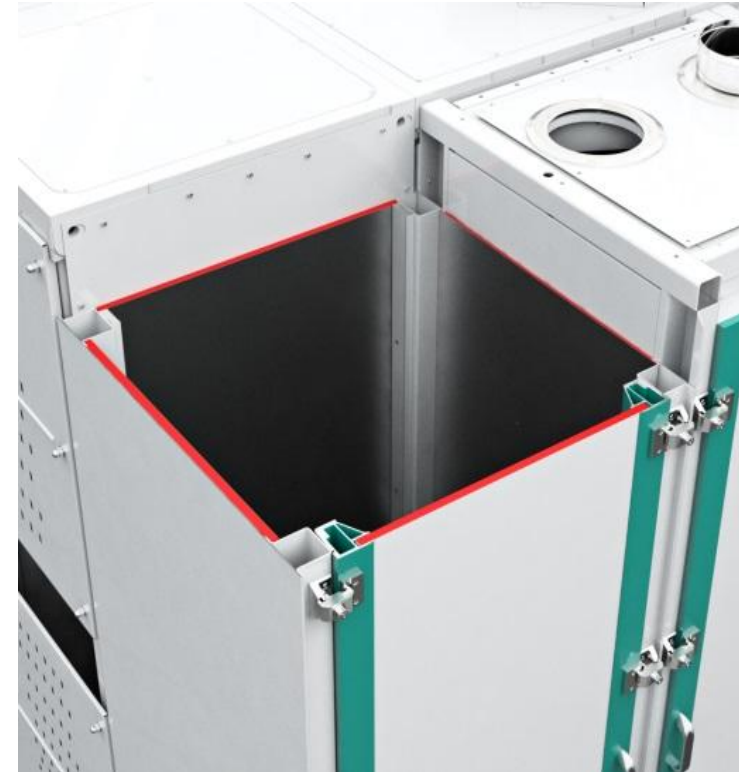
The Square Plansifter is applied for the efficient sifting and grading of coarse and floury products in wheat, durum, rye, corn (maize), barley, oat, rice and buckwheat mills.



Plansifter Arenit Plus

Maximum sanitation

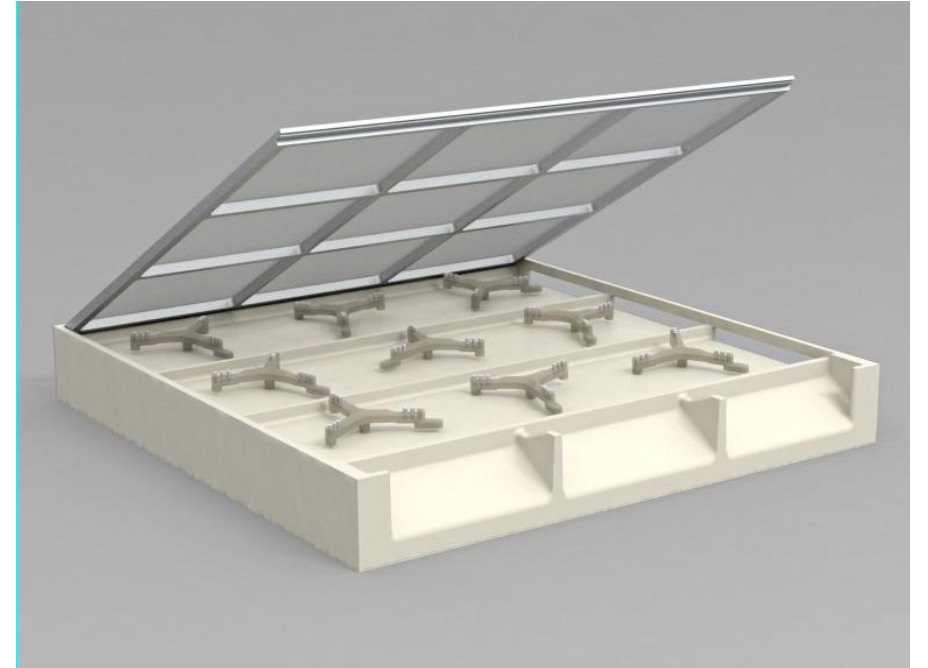
- Only high-quality materials are used in Interior space
- Use of synthetic sieve stack NOVATEC (Up to 26 sieves per stack)
- NOVAPRIME sieve mesh for consistently high sifting efficiency
- Up to 84m² sieve area
- Complete insulation of compartments to complete condensation
- Excellent sealing action preventing dust leakages for better sanitation



Plansifter Arenit Plus

Synthetic sieve stack NOVATEC

- High-tech synthetic material without any coating and fasteners for high sanitation degree
- Aluminum insert frame
- NOVA sieve cleaners reach every corner of the sieves for better sieving efficiency
- Easy cleaning due to smooth surface and rounded corners
- Wide selection of different frames for more flexibility



Synthetic sieve frame NOVATEC

Plansifter Arenit Plus

Robust Design, Efficient Drive

- Casted, robust drive frame for a maximum of stability for long service lifetime
- Energy efficient operation (Drive Energy efficiency class IE3)
- Low maintenance cost



Plansifter Arenit Plus

Wide range of applications

- Flexible usage due to small footprint and wide range of applications for saving in building and investment cost
- Ideal for upgrading of existing plants





Roller Mill Diorit

Four- and Eight-Roller Mill Diorit

Best-in-class Roller Mill

- Top sanitation
- First-class grinding performance
- High level of operational and personal safety
- Flexible configuration

The Diorit roller mill consistently and safely grinds wheat, corn/maize, rye, barley, spelt and other grains.



Roller Mill Diorit

Food-safe design for top sanitation

- All surfaces in contact with product are made of stainless steel or other food-safe materials
- Lockable covers secure access to the machine and eliminate the risk of contamination
- The patented, swing-out feed module ensures a fast and residue-free product discharge while also providing easy access for high sanitation degree



Roller Mill Diorit

Easy operation and maintenance

- The roll pack makes it possible to achieve high and stable grinding efficiency. The wear-resistant, low-maintenance and noiseless belt drive ensures quiet, reliable and continuous operation
- The Roll Quick Pack allows both rolls to be quickly exchanged, reducing the duration of required maintenance and downtime



Quick roll change with Roll Quick Pack

Roller Mill Diorit

Seamless monitoring for high operational safety

- Accurate monitoring is essential for consistent and reliable roller mill operation
- The Diorit roller mill provides integrated roll disengagement monitoring. This prevents the rolls from running against each other without product and overheating
- The rear grinding roll speed is monitored to determine the correct functioning of the roll drive belt in continuous operation



Issue-free functioning thanks to roll speed monitoring

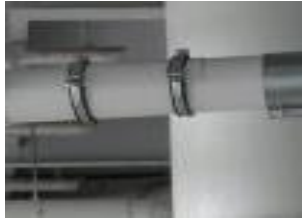


Tubular push conveyer TUBO

Tubular Push Conveyor TUBO

What's TUBO

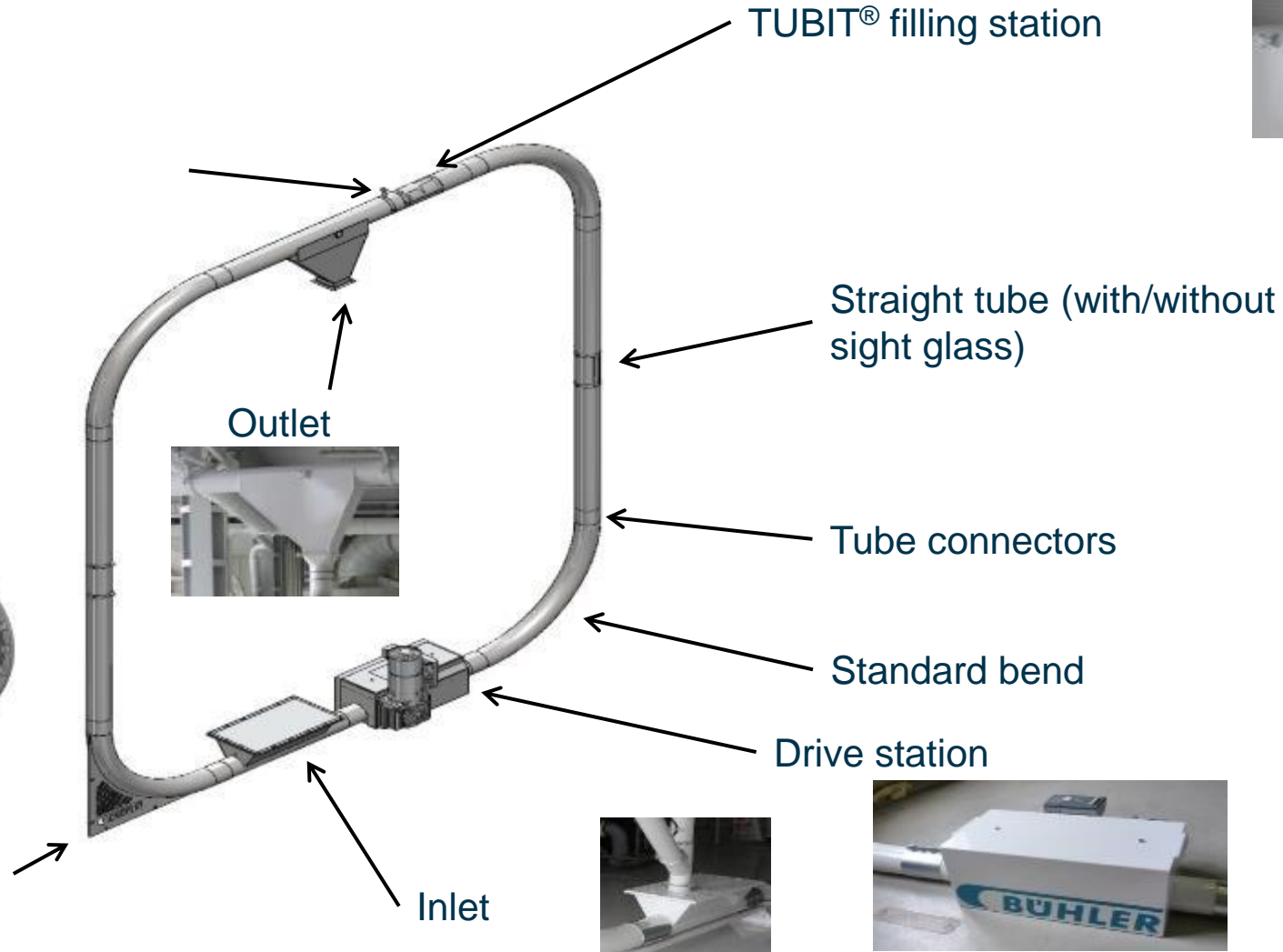
Tube mounting devices
(fixation inside the building)



TUBIT®



Reinforced bend



TUBIT® filling station

Outlet

Straight tube (with/without sight glass)

Tube connectors

Standard bend

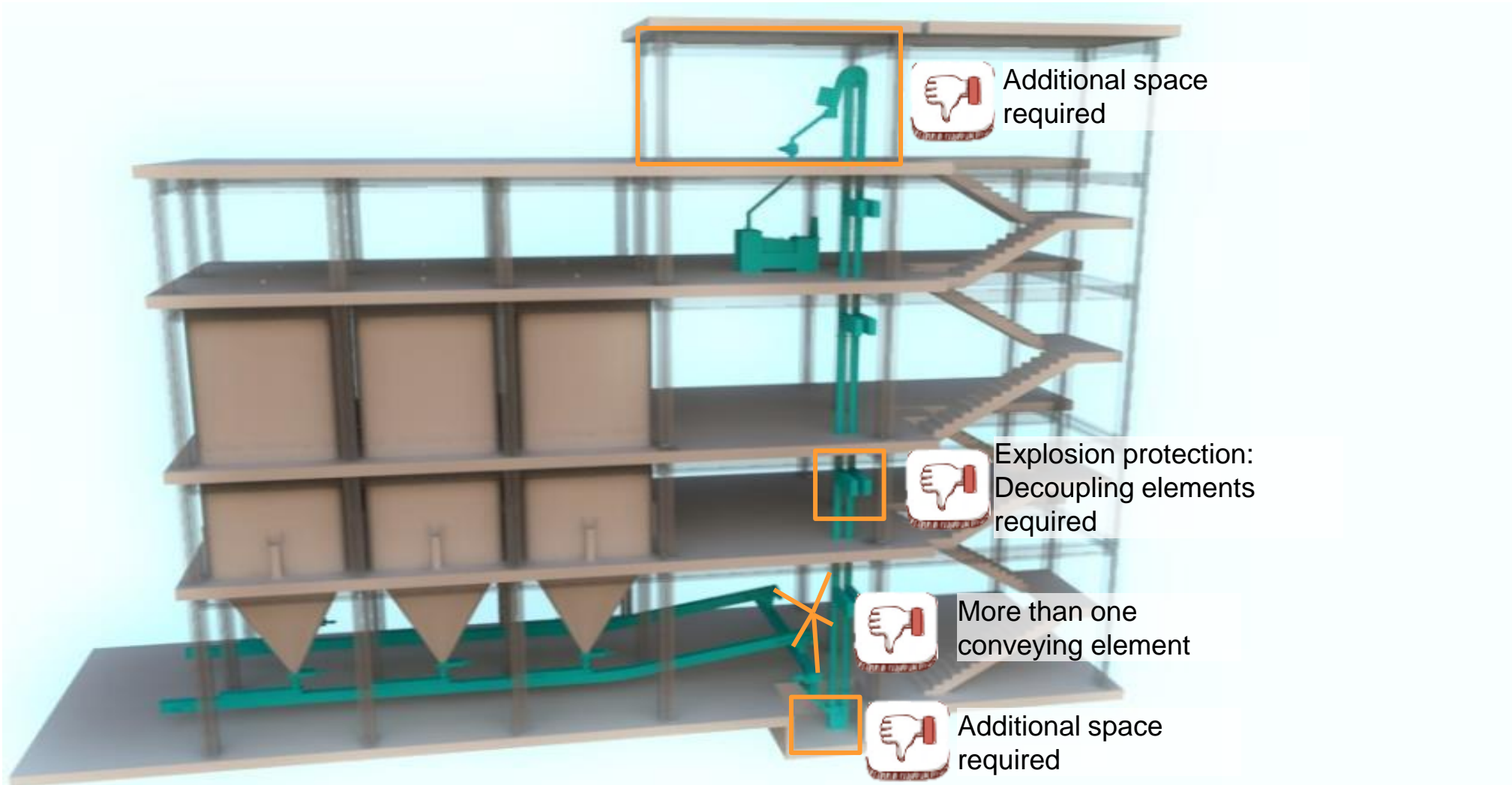
Drive station

Inlet



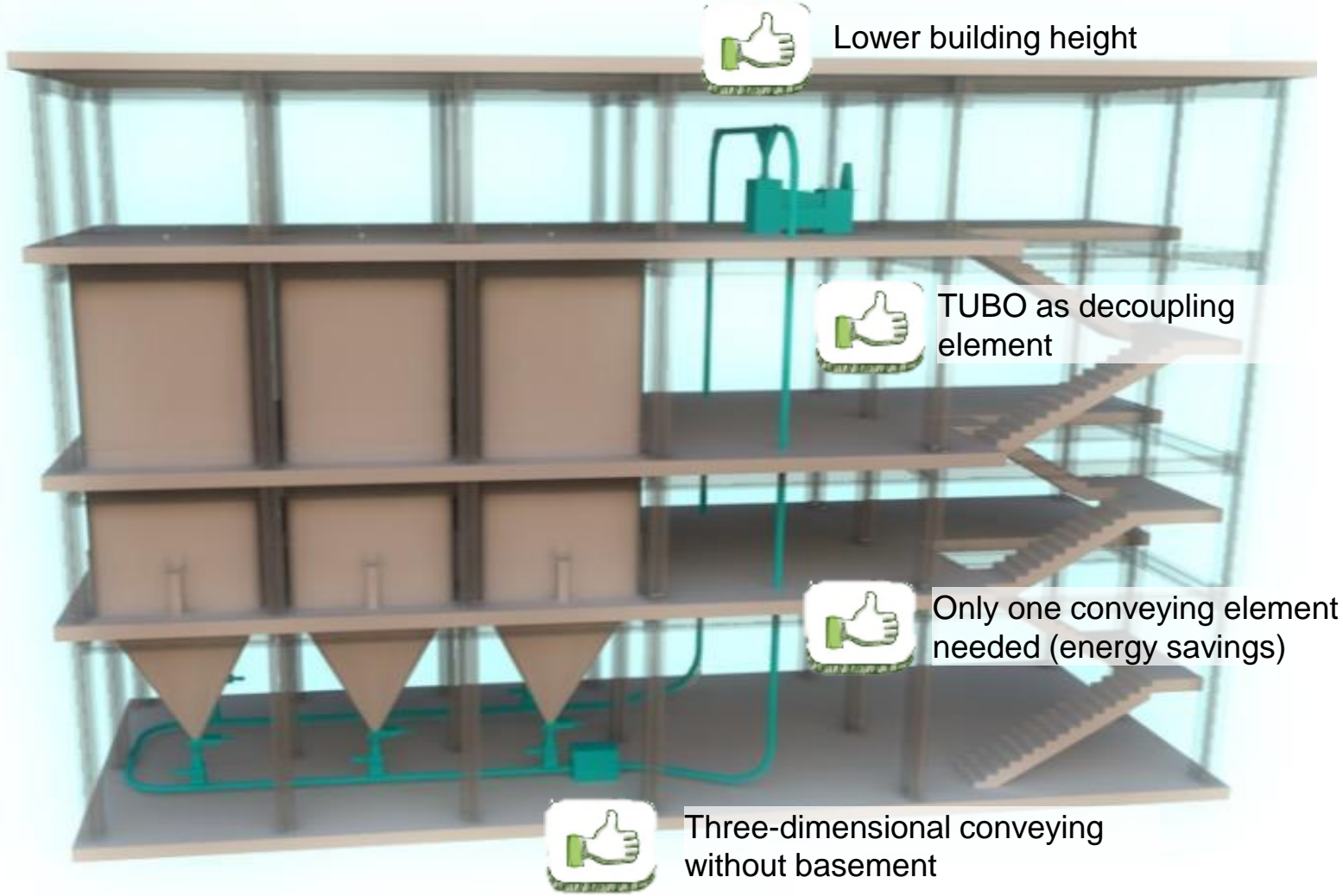
Tubular Push Conveyor TUBO

Disadvantages of current conveying solutions



Tubular Push Conveyor TUBO

Advantages of the tubular push conveyor



Tubular Push conveyor TUBO

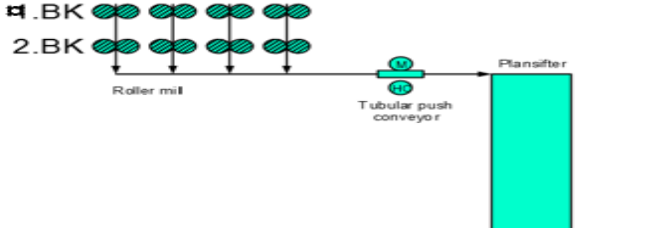
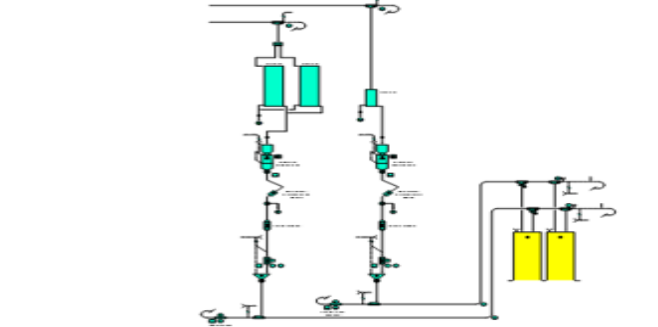
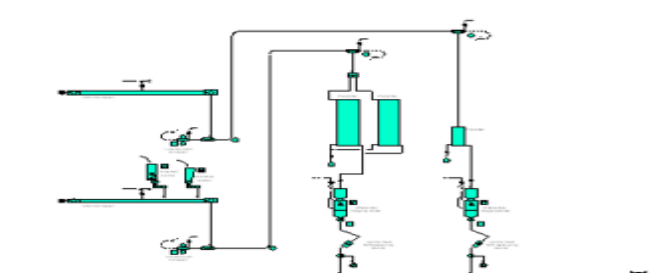
Low energy requirements

- TUBO reduces system friction which significantly lowers the energy consumption
- Three-dimensional plant layouts also reduce the building investment cost
- TUBO has loose pusher elements which make three-dimensional conveying possible
- TUBO reduces the number of transfer points and makes flexible plant design possible



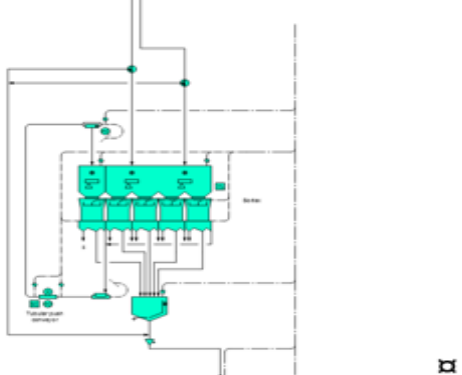
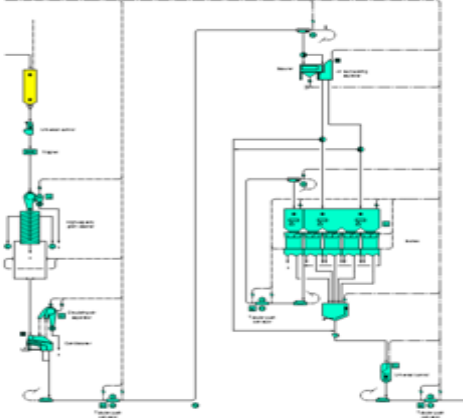
Tubular Push conveyor TUBO

Applications Milling / Finished Products

Description	Diagram	Customer benefit
<p>Transport of product between Roller mill and Plansifter (break passages only)</p>		<p>Energy reduction compared to pneumatic transport</p>
<p>Transfer of finished product from grinding section to storage bins</p>		<p>Energy reduction compared to pneumatic transport Less drying-out of product compared to pneumatic transport</p>
<p>Transfer of finished product from flour collecting screw to a control sifter, sieving machine or finished product silo</p>		<p>Energy reduction compared to pneumatic transport Less drying-out of product compared to pneumatic transport</p>

Tubular Push conveyor TUBO

Applications Cleaning section

<p>¶ Description</p>	<p>¶ Diagram</p>	<p>¶ Customer benefit</p>
<p>¶ Transfer of wheat in cleaning section from / to Sortex for resorting</p>		<p>¶ Product transfer possible on the same floor</p> <p>¶ Minimum height requirement</p>
<p>¶ Replacement of vertical and horizontal transport elements</p>		<p>¶ Reduces the number of transfer points and makes flexible plant design possible</p>

Thank you for your attention

