

TUBO – Revolution in conveying systems

Why a new conveyor?

Focus on 4 key conveyor concerns

machine safety – no risk of explosions (Atex regulation)

- example brewing: customers demand for safe vertical transport without risk of explosion, problematic with elevators

- · Fully enclosed system
- No dead zones / no material accumulations
- Tube emptied after transport -> no crosscontamination
- · Drive mechanics outside product stream
- · Cleaning TUBIT for best sanitation
- Reduced installation dimension, less floor space and/or lower building height
- One TUBO replacing several conveyors (1-3 conveyors / approx. 4-6 90-degree bends possible with TUBO)
- · Easy and fast installation, tubing system only

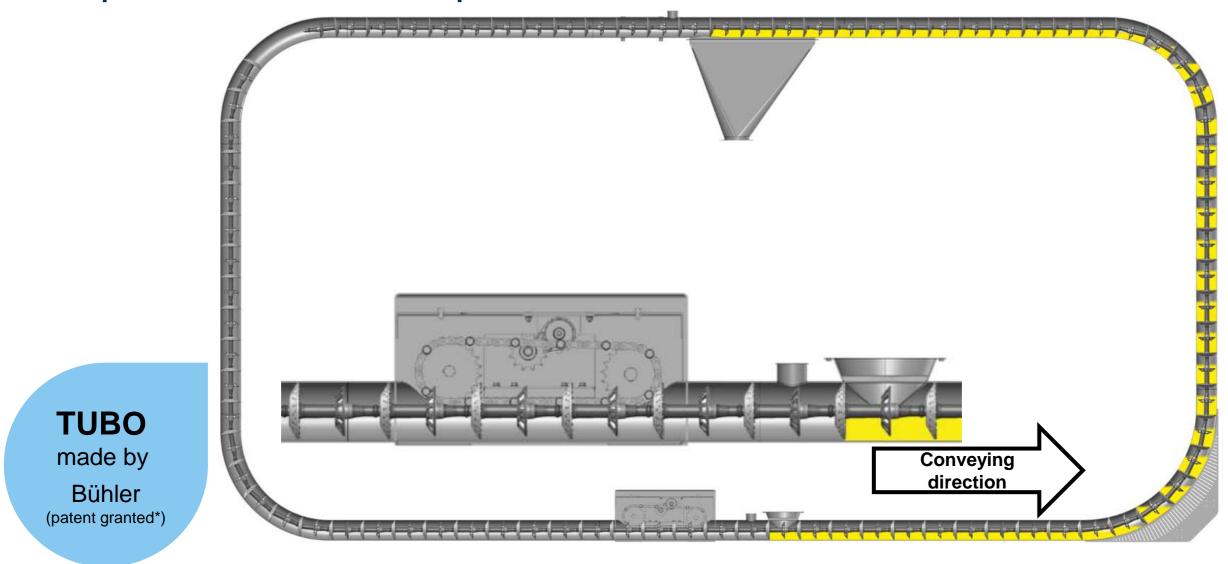


- Reduced friction, no pulling cord inside conveyor and transport in product chambers
- Lower energy consumption than pneumatic transport
- Reduced conveying height with multidimensional layout
- Low conveying speed
- Transport in product chambers reduces internal friction
- · No stress on product from drive mechanics
- Less product hand-overs with multidimensional layout

→ TUBO addresses all 4 concerns – like no other solution in the market

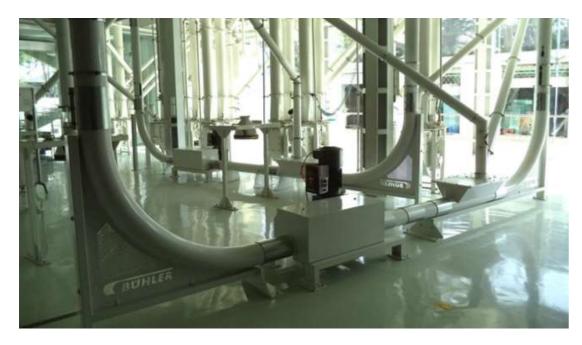


Unique machine concept





TUBO – Revolution in conveying systems



TUBO details

- Vertical and horizontal conveying
- A-B, collection and distribution function
- Up to 100ft distance / up to 750 bu/h (wheat)
- Fully 3D capable



Products released to sales

- Wheat, wheat grist, flour, semolina
- Barley, malt and malt-grist
- White and brown rice
- Coffee, green beans, roasted beans and ground coffee



Examples of tested products

Grains

• Paddy, rice, wheat, maize, barley, rape-seeds, soy beans, feed pellets

Extruded product

• Corn flakes, honey rings, chocolate flakes

Nuts

Peanuts, cashew nuts, walnuts, almonds

Coffee beans

Green beans, roasted beans

Pasta

Several short goods

Powders

• Flour, semolina, break-stock, ground coffee, milk powder



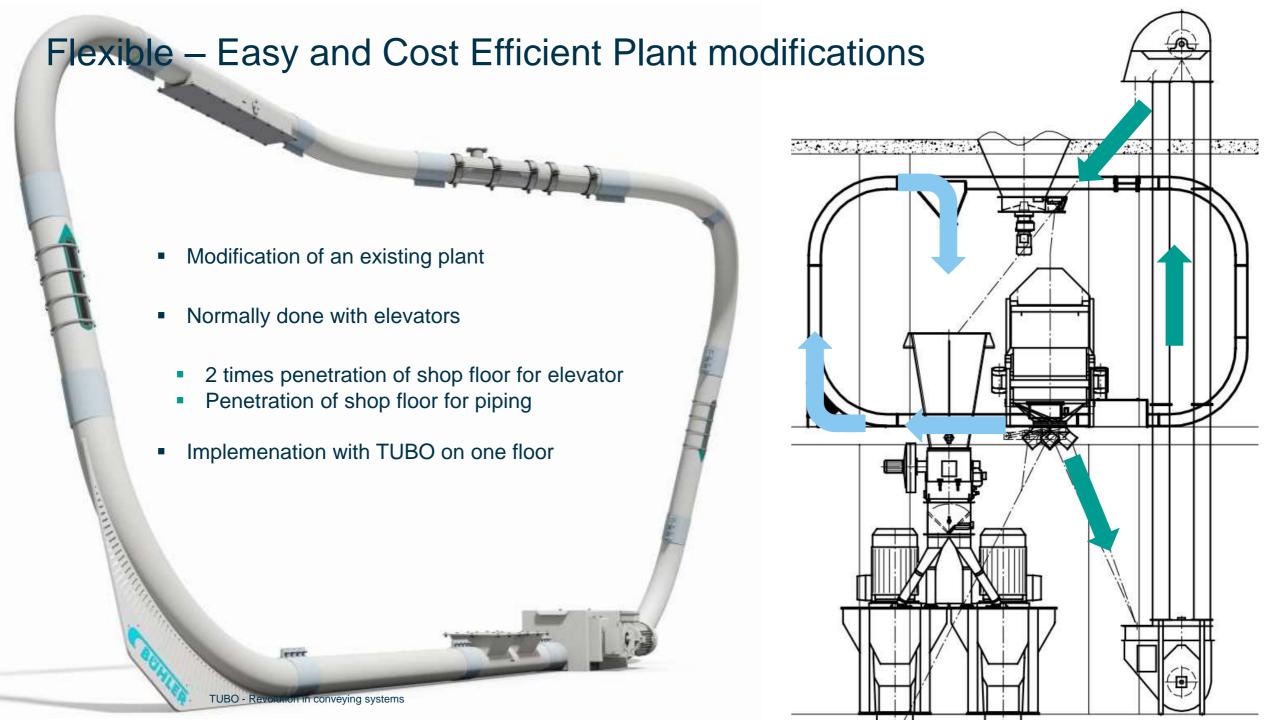


Layout flexibility

Feed mill Burgholz

1. TUBO installation

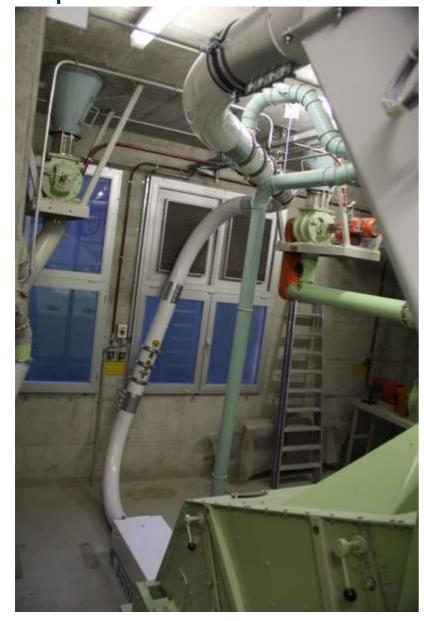


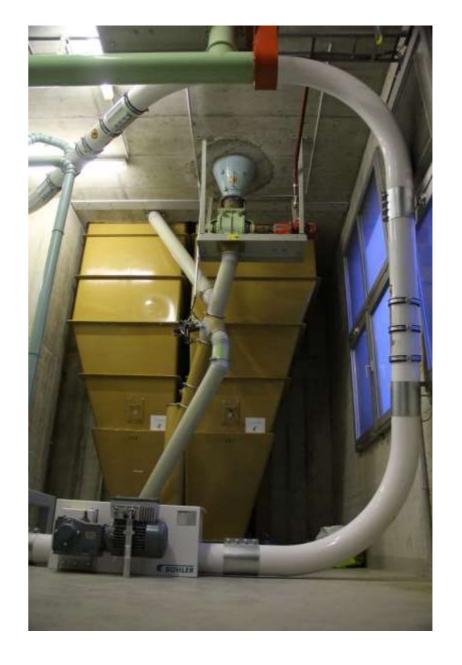


Multi-Options!



Multi-Options!





TUBO - Revolution in conveying systems

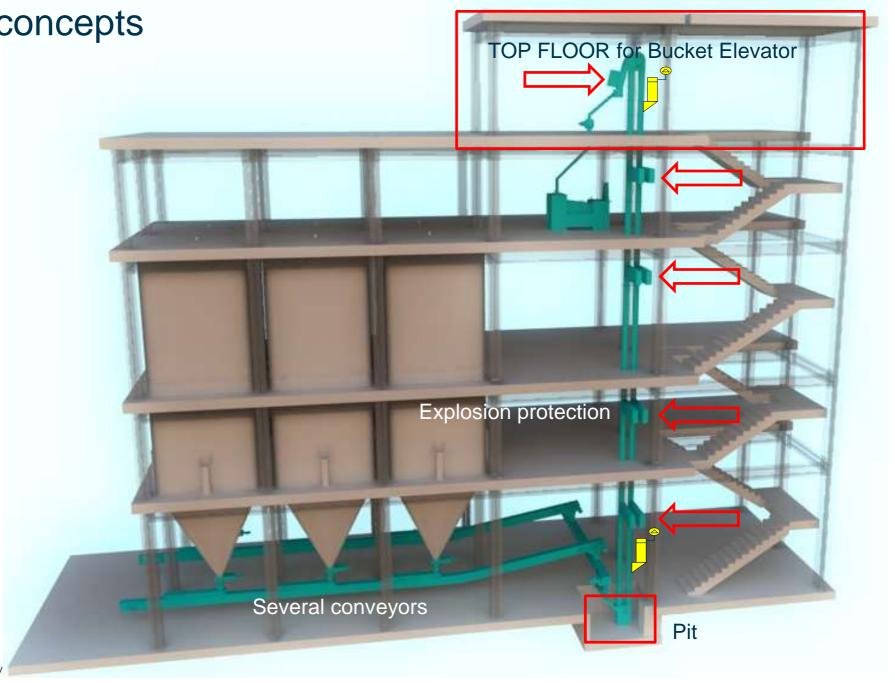
Multi-Options!



New plant concepts for mills

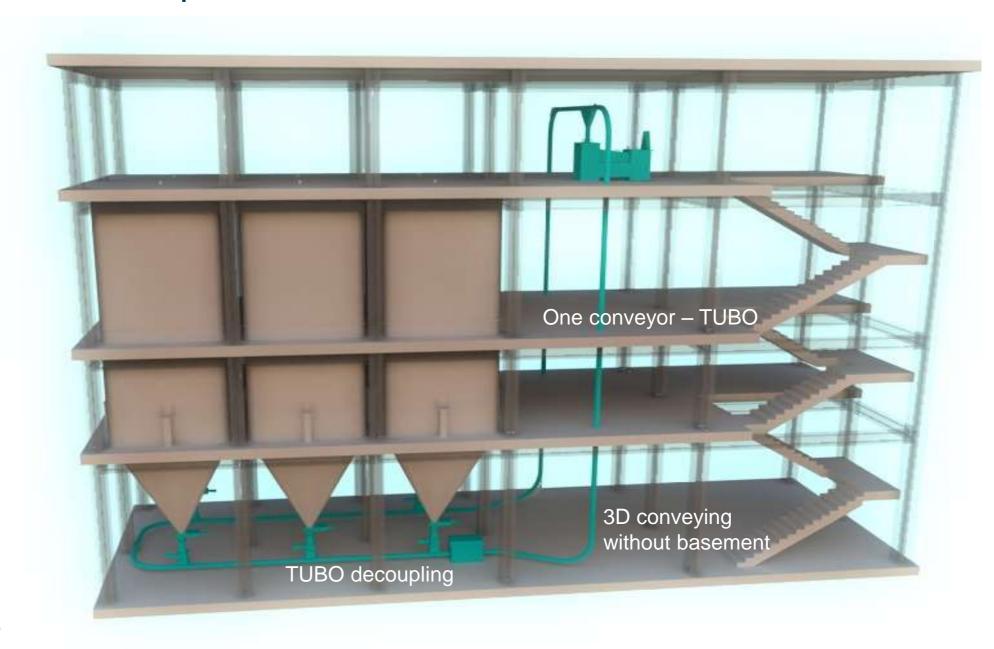
TUBO – New plant concepts

Known System.



TUBO – New plant concepts

No Top Floor. No Bucket Elevator pit. Little Aspiration compared. No Ex. Protection.



New concepts

- By-pass of one rice mill in Vietnam
- Lower heigths than elevators
- Additional possible savings at the bottom (depending on height)





Silo Example Realised in Switzerland

Brewery Locher Switzerland – 1st Plant with total TUBO equipment

 Complete malt silo with only one size TUBO

Distribution and collection of material

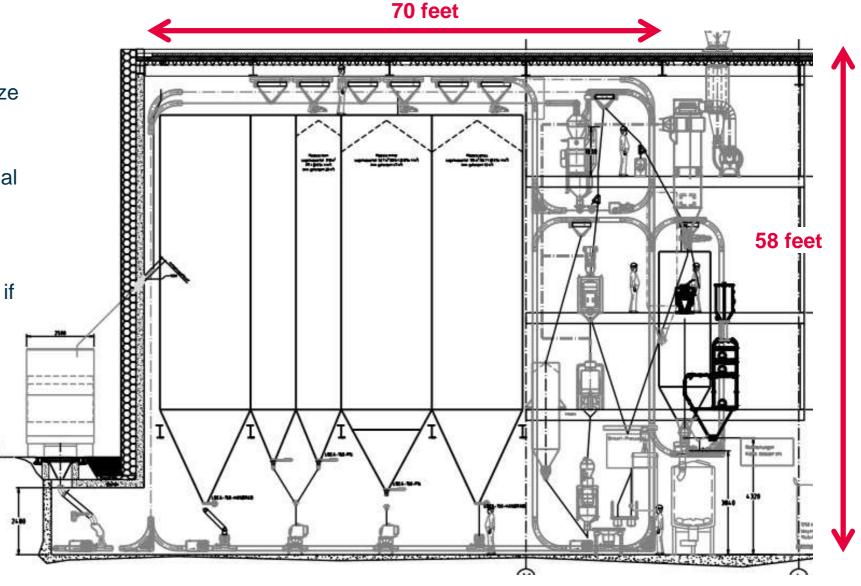
Number of TUBOs: 7 units.

Number of conventional conveyors if this solution had been chosen:

12 units

Additional TUBO benefit in brewing

→ no risk of explosion!





Prevention of active/passive explosion protection







www.event.buhlergroup.com

