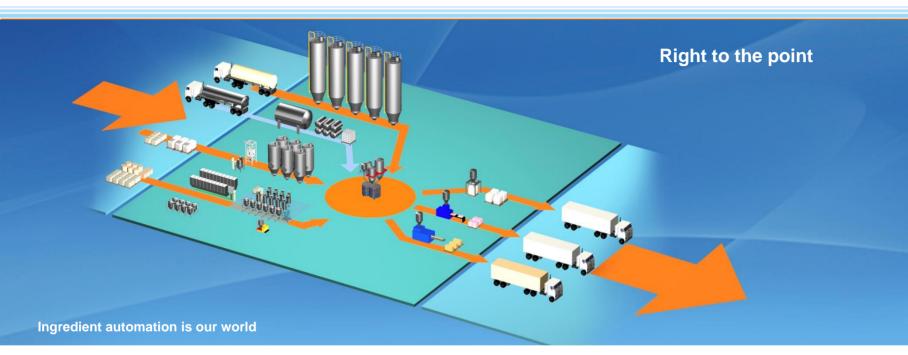
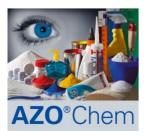


#### AZO – Ingredient automation for the building industry



### Welcome to AZO SOLIDS





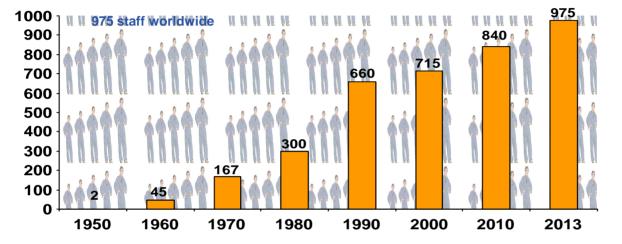


Family-owned company in the third generation from left: Robert Zimmermann, Denise Zimmermann, Rainer Zimmermann and founder Adolf Zimmermann

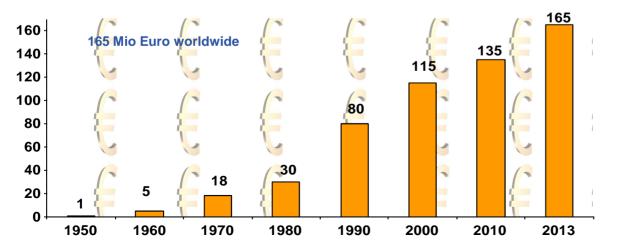
AZO GmbH + Co. KG	Founded:	12.05.1949 by Adolf and	Total area:	68.500 m <sup>2</sup>
Managing Directors:		Marianne Zimmermann	Covered with	
Robert Zimmermann Rainer Zimmermann	Turnover 2013: Staff:	165 Mio. EURO 975 worldwide, including 34 trainees	buildings: laying of the	32.500 m <sup>2</sup>
			foundation stone: 1	



# Staff 2013 AZO Group



### **Turnover 2013 AZO Group**







AZO North America 1978 Memphis, USA Sales, Engineering, After Sales



AZO United Kingdom 2006 Burton-upon-Trent, Great Britain Sales



AZO Benelux 1995 Antwerpen, Belgium Sales, Engineering, After Sales



AZO France 1998 La Haye Fouassiere, France Sales, Engineering, After Sales



AZO Russia 2013 Moskau, Russia Sales, After Sales



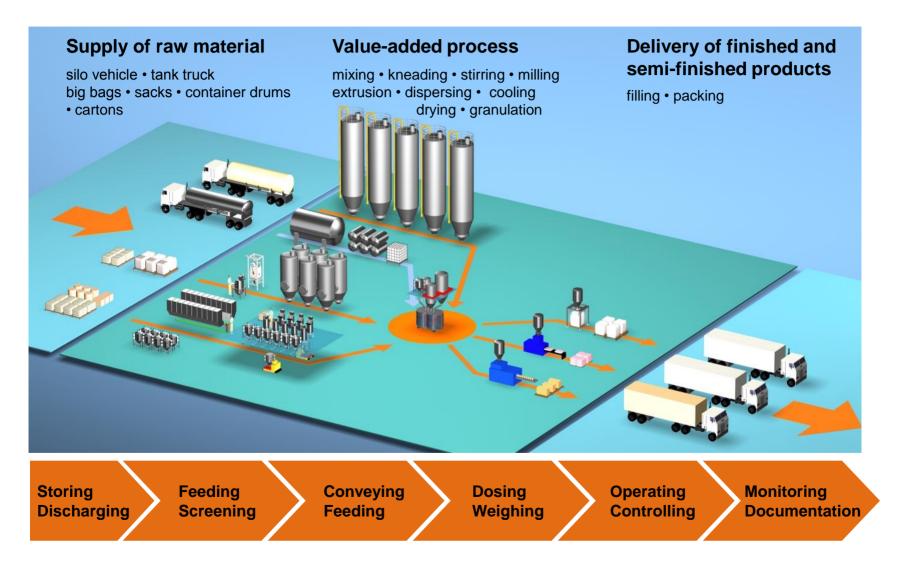
AZO China 2007 Tianjin, China Sales, After Sales



AZO ASEAN 2006, Bangkok, Thailand

- Sales
- Process Engineering
- Engineering
- Installation, Commissioning and After Sales
- 26 staff speaking 7 languages









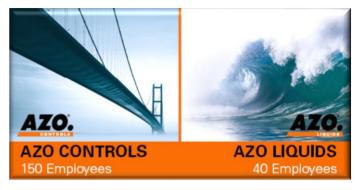
Research and Development 50 Technicians and Engineers



Advice / Design / Development 180 Technicians and Engineers



**Production with high vertical integration** 200 Employees





Education and Advanced training 32 Trainees / 30 course / year 420 participants



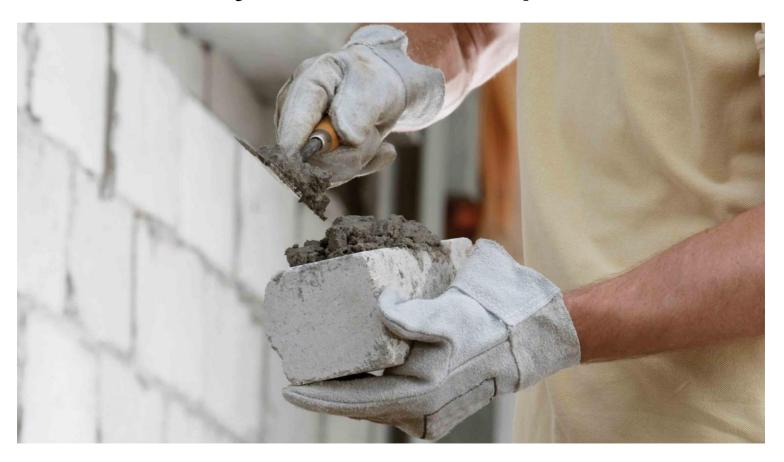
Service / Assembly / Commissioning 30 Employees



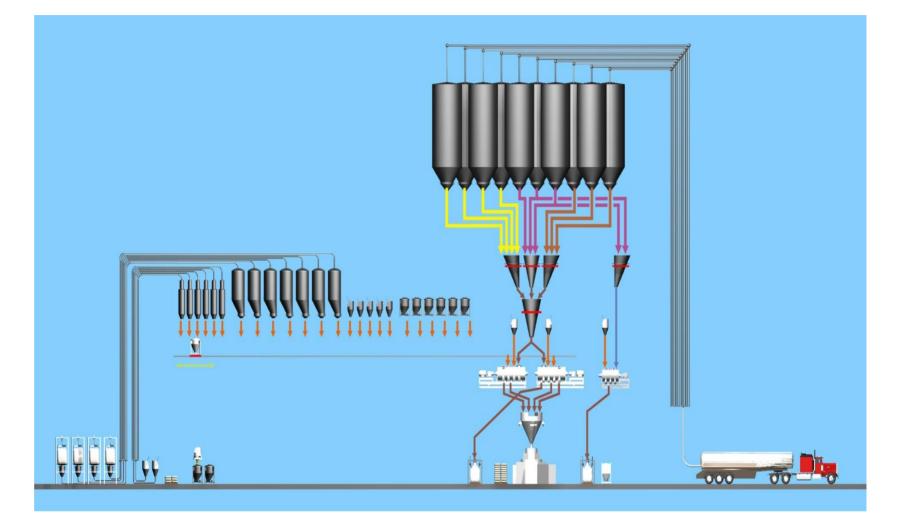




# System example









## Storage of major ingredients



Outdoor silo with filling lines and filters

Special design of pipe bends for wear reduction



## Discharge and dosing of product



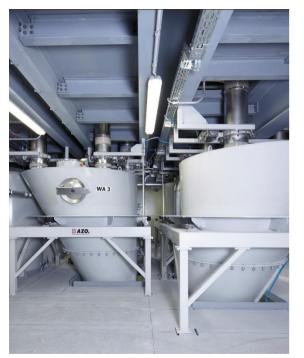
Dosing screws with screeners below



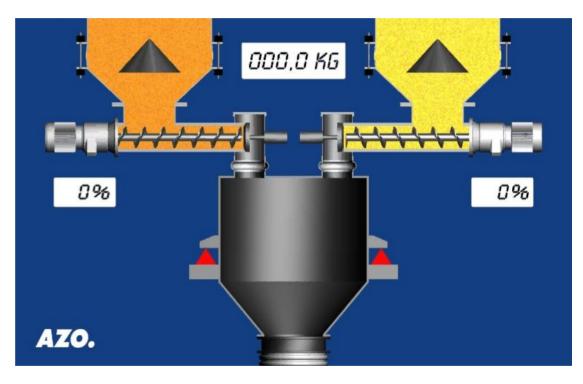
Dosing screw with fine dosing



## Weighing of major ingredients in hopper scales

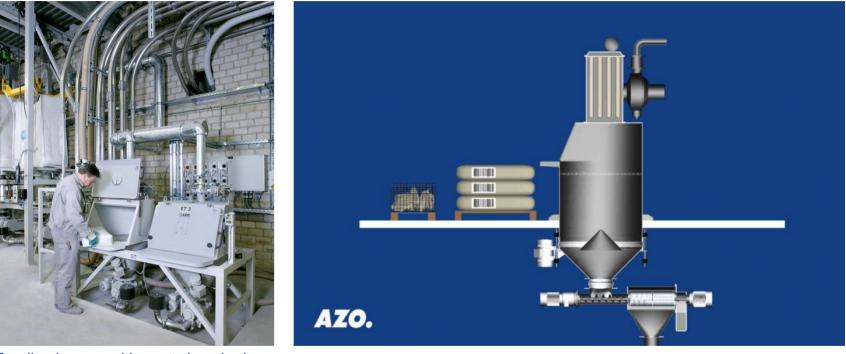


Hopper scales with 3-point weighing unit



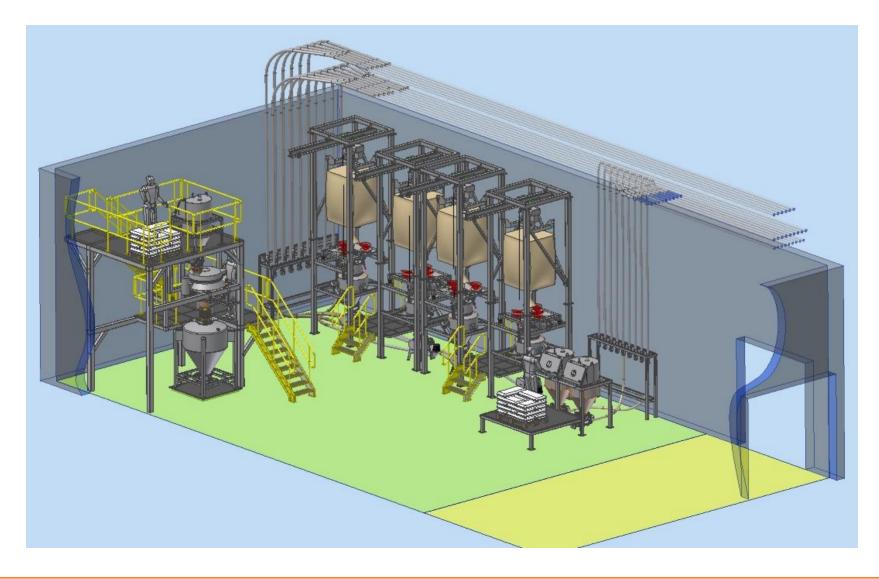


## Product feeding of minor ingredients



Feeding hopper with central aspiration







# Product feeding of medium ingredients

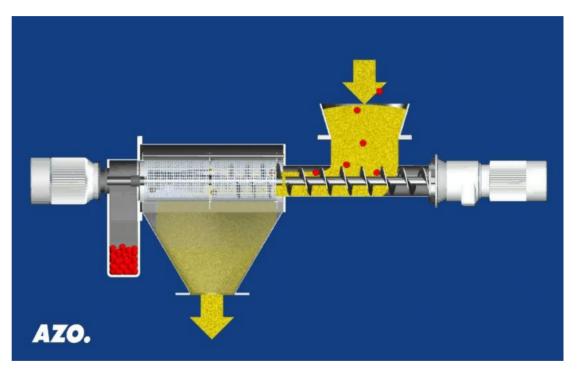


Big bag emptying stations



# Control screening of products

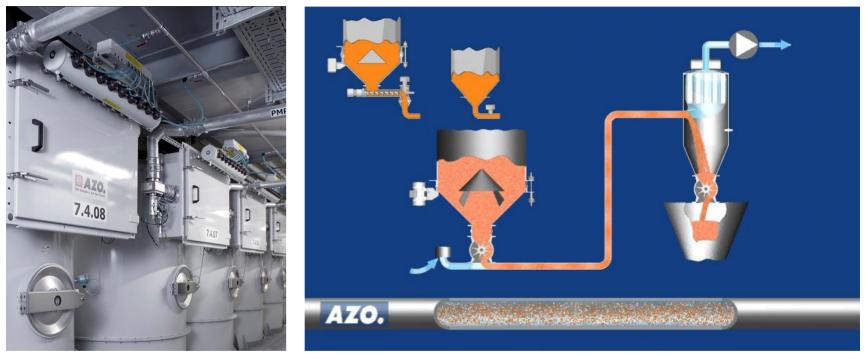




Cyclone screener



#### Vacuum conveying system for medium ingredients



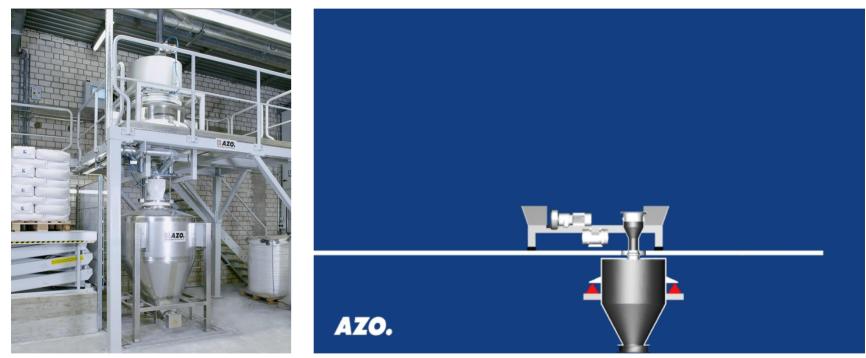
Buffer bins for temporary storage of products







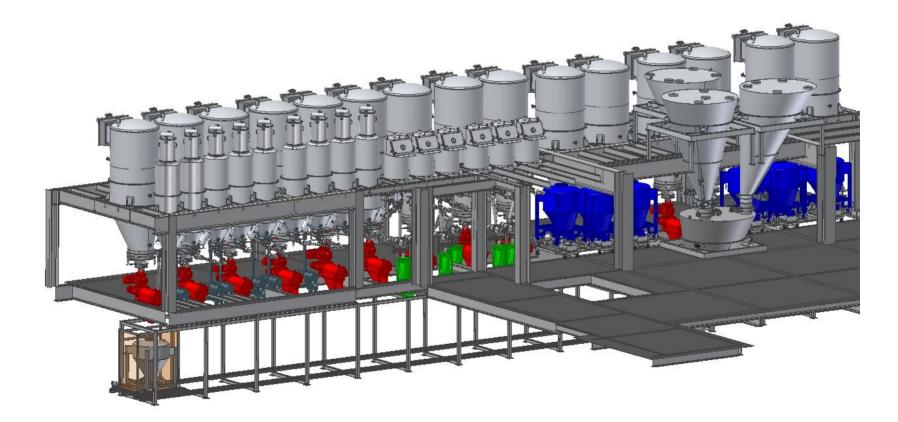
# Filling of DOSITAINERS® with bagged goods



Unit for filling of DOSITAINER® with product out of sacks



# **AZO Componenter**



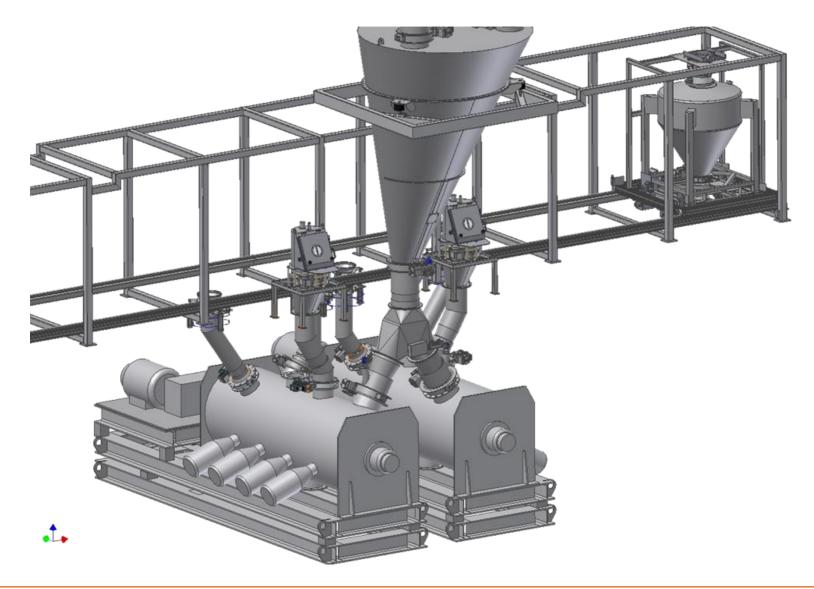


#### Automation for micro ingredients



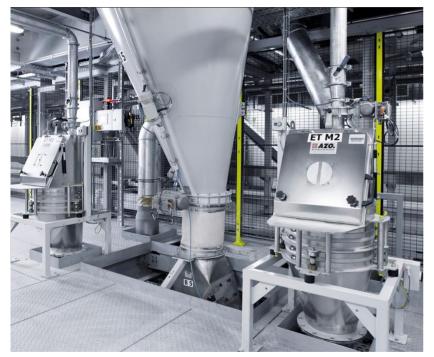
Container on travelling scale for collecting and weighing of the components







# Mixer feeding



Feeding hopper for manual feeding directly into the mixer





#### Filling of product in container, big bags, sacks



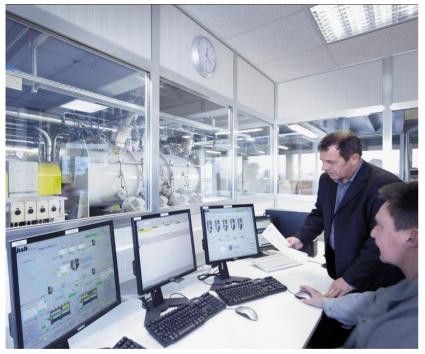
Container and big bag filling station



Packing of finished product in sacks



#### Central process leading and visualisation system



Control centre for operating and monitoring



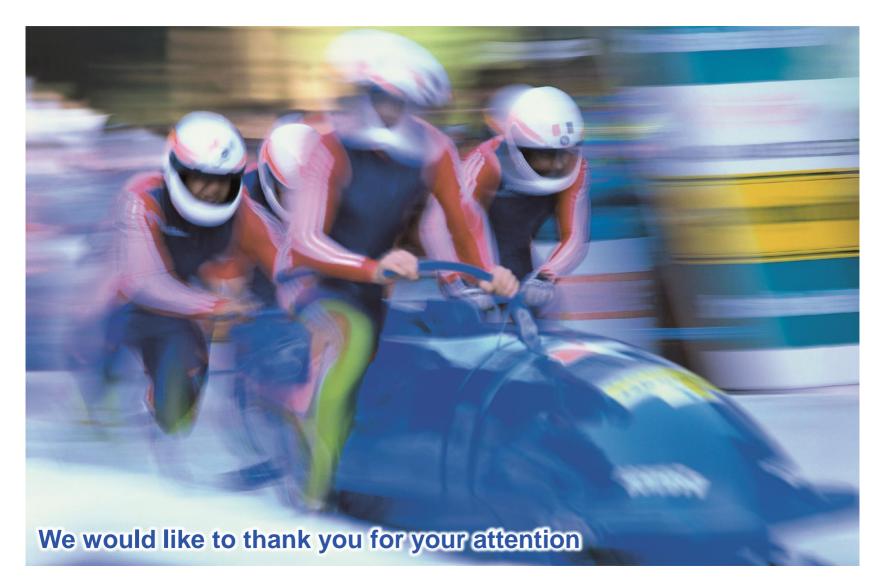
Operation panel in the production area



- Pneumatic conveying systems
  - Big bag filling systems
  - Big bag discharge systems
  - Screening systems
  - Silo and discharge systems
  - Minor ingredient automation systems
- Container systems, Containment
- Liquid weighing system
- Turnkey/ Customised solutions from a single supplier
  - Engineering
  - Equipment
  - Process IT
  - Installation, Supervision, Commissioning and After Sales
- Future-proof quality "Made in Germany"
- Service throughout the world







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