

Silologistic





Silologistic Controls for Plastic Granulates Silofarms and Hubs

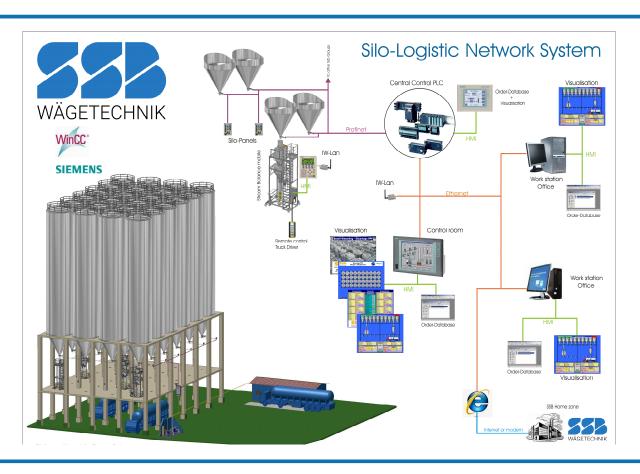
System structure





System structure

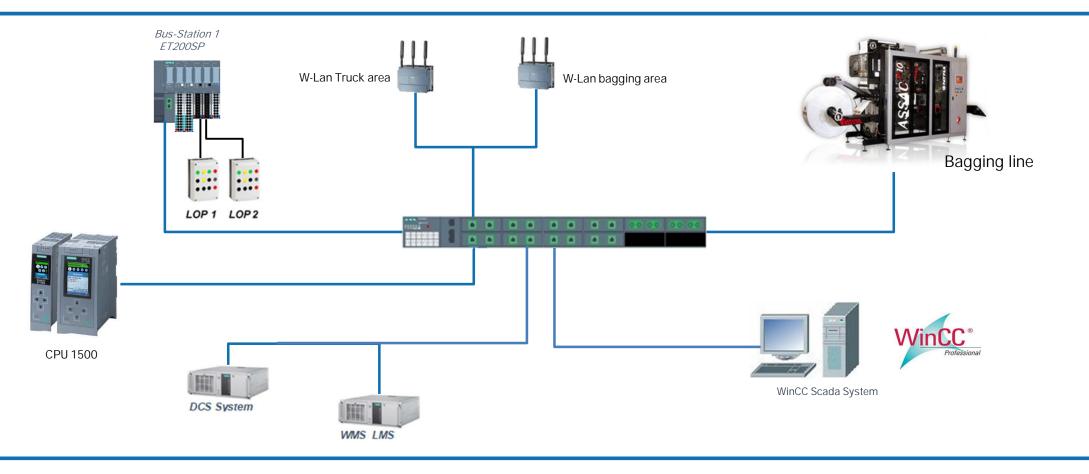




- Silo control
- Truck operation handling
- Truck loading
- Bagging
- Order management
- Interfacing to DCS
- Interfacing to WMS

System network





Silo control central PLC



Simatic S7/1500 TIA Portal











- Siemens Industrial PC / Server
- Industrial Panels for Control rooms
- Fibre optic structures
- Redundant execution possible
- Redundant network structure

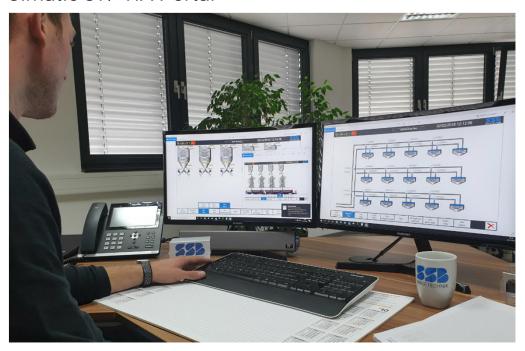




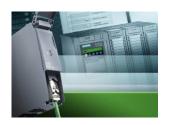
PLC - Programming



Simatic S7/ TIA Portal



- Programming in Siemens Step 7
- Tia portal to integrate all sub units to global control network
- Programming with network and symbolic comments for easy maintenance
- Remote control
- Free interfacing to other control systems

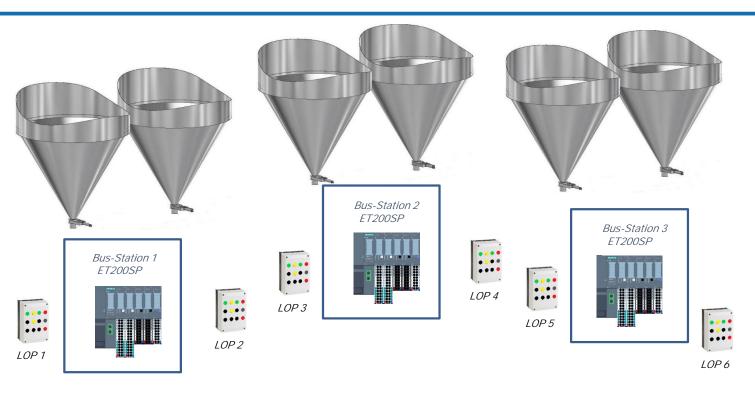






Silo outlet control





- Safety control by central PLC
- Release logic operation
- Siemens ET200SP Bus Station
- Siemens Profinet structure
- Emergency stop safety network
- Fibre optical wiring redundant

Silo operation panels



Classic Operator panels
Silo associated



Touch Operator panels
Silo-row associated
Visualization

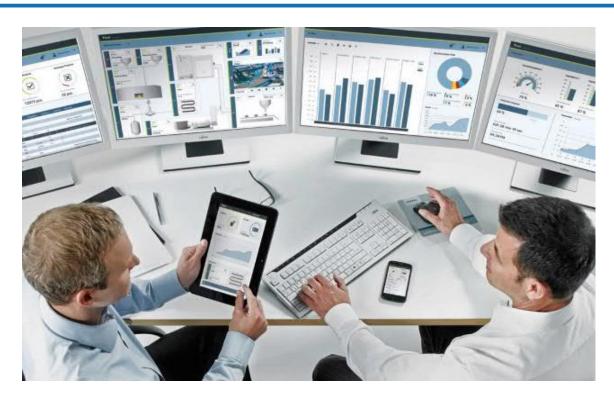


Touch Operator panel
Operation integrated in bagging
or Truck loading unit



WinCC Scada System





WinCC Visualisation System for single Work Station or redundant Scada Systems for Multi user application

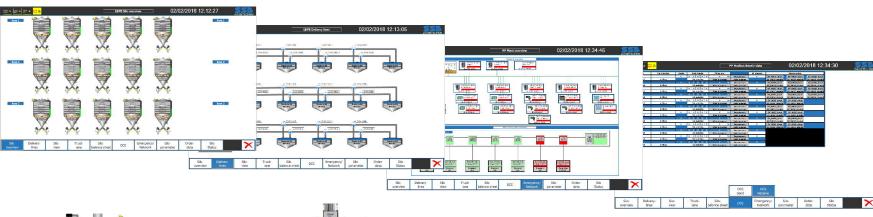


Visualisation of:

- Silo Status and Product information
- Field information of In-Outputs
- Order Status
- Truck Loading Status
- Bagging status information
- Production information / Statistic
- Operation logging
- Error diagnostic

WinCC Scada System













Visualisation of logistic process

Multi Window Technology and individual concepts for Applikation

Truck Loading Process





Management of truck or Container loading In a logostic process

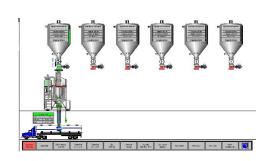
• Integrated in Order management system

Automatic order transfer

• Truck driver self loading with multi language operator panels

• High accuracy loading

Certificated weighers according OIML R107





Bulk loading weigher





Silo docking systems





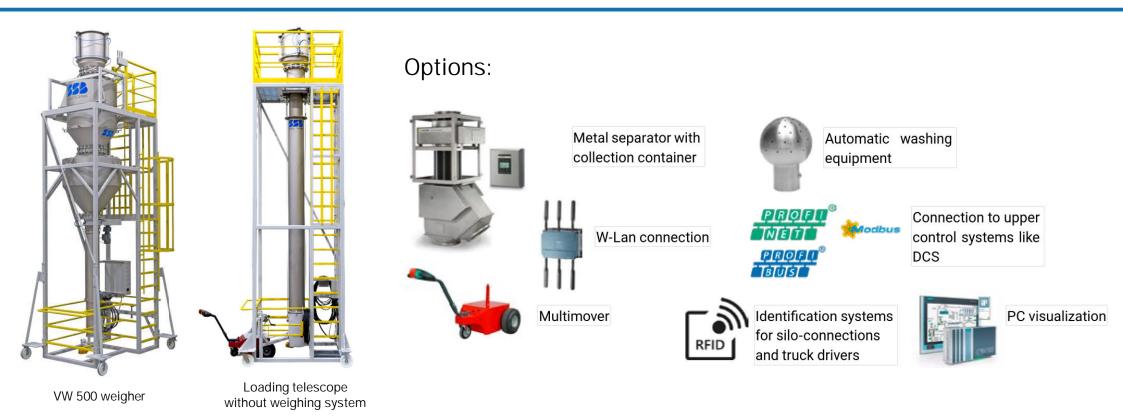
Telescopic loading arm





Bulk Loading weigher





Bagging Process



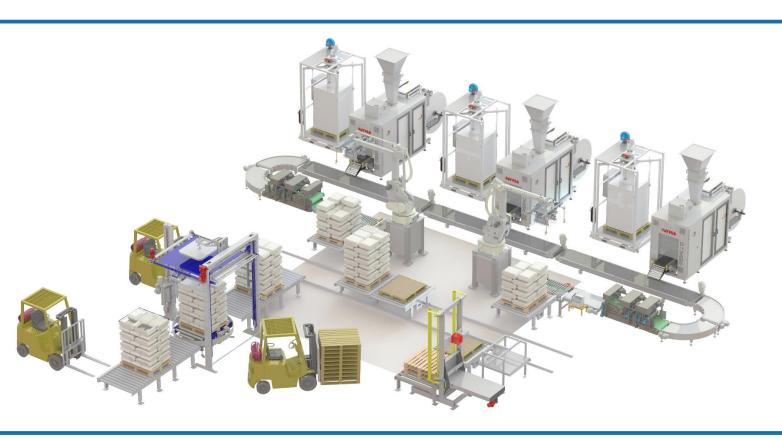


Management of bagging process in logostic silofarms

- Integrated in Order management system
- Order transfer to bagging machines
- Order transfer to palletizer machines
- Order transfer to bag labeling systems
- Order transfer to pallet labeling systems
- Status of all machineries in bagging line

Bagging - Palletizing - Packing





Full bagging line with:

- 3 bagging machines
- Conveyor belts
- Bag egalisation and printing
- Emty pallet magazin
- Robot palletizer
- Pallet handling
- Stretch hood packing
- Pick up for forklift

Bagging-Palletizing-Packing





Silo Control Interface to DCS







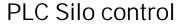












Network HUB

DCS Systems

Silo Control Interface to LMS/WMS

















PLC Silo control

Siemens OPC Server UA

LMS / WMS Systems

Service / Contact



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