

Large Material Handling and Conveying Equipment



Large Plant Wide Conveying for Injection, Extrusion, Blow Molding
and Powder Applications up to 60,000lbs per hour

Technology working for you.

Wilmann
Progress through Innovation

M7.2 Network Control System

Conveying and Drying System Control

Capable of controlling up to 320 devices and 8 vacuum systems, with 8 spares

Ultimate Flexibility with Easy to Program Configurations

This puts the user in control of system additions and changes, or Wittmann service can assist you, it's your choice.

Easy to Use 15" Touchscreen and Easy to Understand Graphical Display

Along with Wittmann's unique and flexible user management puts you in complete control.

Take Advantage of Wittmann's VNC License

To view and control the system from a remote location via a computer or mobile device.

Integrate Wittmann's Controller

Into your ERP system via Wittmann's OPC capabilities.

Ultimate Redundancy with a Distributed I/O Designed Specifically for the Resin Conveying Industry.

- Wittmann has developed this hardened distributed I/O control to resist static and normal plant wear and tear.
- The controller uses redundant components such as a central IPC and standalone Line Servers for each vacuum system. This isolates incidents to individual vacuum systems, or just the user interface. You never have to worry about a plant wide incident again.

M7.2 – IPC 15" X VGA Touchscreen



M7.2 – TeachBox 8.5" VGA Touchscreen

Line Server LS-A30 T

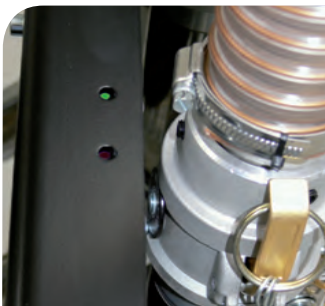


CODEMAX – RFID Coupling Station

The coded Coupling Station **CODEMAX** avoids the erroneous connection of the wrong material to the processing machine.

RFID Coding

A transponder, working on the basis of "Radio Frequency Identification" (RFID), permits remote recognition of a 64-bit identifier. By means of this technology, electrostatic charges which are inherent to the material conveying process cannot cause damage to the electrical components.



Attachment of a virtually indestructible RFID transponder on the coupling.

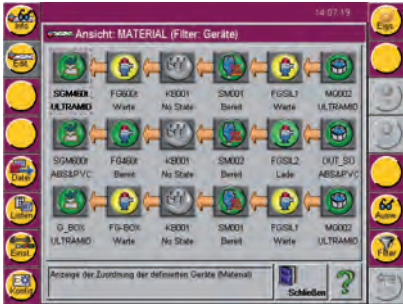


M7.2 Coupling Station – Visualization



CODEMAX – RFID Coupling Station

M7.2 – Software Features



Material Based Representation

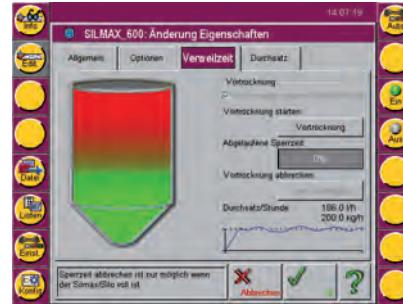
Visualization of the conveying system using lines to represent the respective material flow of the entire system.

- **Clear Representation**
The partially complex single material flow is displayed with a few symbols.
- **Simple Changeover**
Switch to vacuum line representation or other displays.



Vacuum Loader Display

- **Adjustment of the Loading Time**
Adjustment can be made at any time in the edit mode.
- **Conveying Sequence**
In the presence of a purging valve adjustment of the optimum loading sequence.



Visualisation of the Drying Hopper Residence Time

Graphical display of the residence time for the material to be dried in the respective drying hopper.

- **Residence Time**
A specially developed method is used to determine the material flow in order to monitor the material residence time.
- **Alarm Messages**
In case the drying capacity is overextended.



Vacuum Pump Display

- **Multiple Combinations**
Automatic switchover valves can select between the main pump and spare pump based on different user selectable criteria.
- **Pump Capacity**
Displayed as a standard.

M7.2 – Web Services



Email Support

The M7.2 IPC control system provides for an Ethernet port, which can optionally be connected to a company wide email server.

- **Administration of Email Addresses**
- **Automatic Dispatching of Error Messages**



Internet Connectivity

The optional connection to the internet can be established via the Ethernet port. This allows the mirroring of the screen of the M7.2 control system on any PC.

- **Miscellaneous External Access Rights**
- **Display of All Process Data**

Large Format Conveying products

FMX Central Resin Conveyors

- Wittmann offers a full range of resin conveyors up to 80l capacity, or 100lbs of material at 35lbs/cuft.
- Flexible range of line sizes up to 4" to accommodate your throughput.
- Easy to maintain and easy to clean design.
- Positive closing discharge valve to ensure you have the maximum vacuum and efficiency every load cycle.
- Rugged, thick gauge stainless steel construction.



Pneumatic controlled material and vacuum valves

Thick-walled stainless steel design for highly abrasive feeding applications. The valve gasket, which is located outside of the material flow, guarantees highest functionality and prevents vacuum leaks typical of gravity type flappers.



Pneumatic material discharge shut-off valve

Highest functionality guaranteed through a completely leak-proof seal every conveying cycle. The dustproof design also guarantees dust free operation at the machine hopper.



PDR Central Powder Conveyors

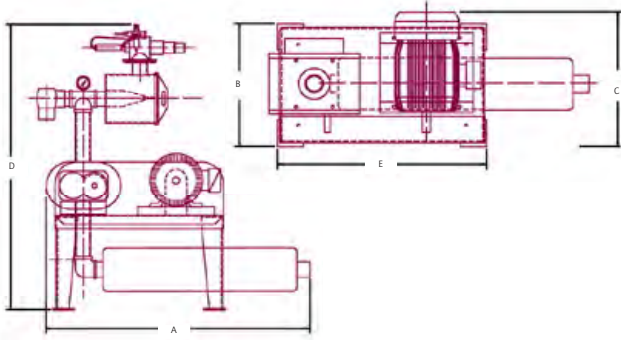
- For high demand systems
- Pneumatically activated vacuum valve
- Automatic compressed air filter cleaning system
- Capacitive type proximity sensor for automatic level control
- Mild steel construction
- Saddle support allow for mounting flexibility
- Tangential material inlet and internal cyclone ring for efficient air and material separation
- Large hinged access door for easy inspection
- Spun woven polyester dacron blend pleated filter media
- Positive closing discharge valve to ensure you have the maximum vacuum and efficiency every load cycle



PDV Vacuum Pumps

Designed for all central vacuum conveying and loading applications.

- **Positive Displacement Type Industrial Blower**
Provides constant airflow
- **Pneumatically Actuated Vacuum Breaker Valve**
Prevents pump from reversing direction during shutdown and allows for continuous run/idle. Saves wear and tear on pump and motor eliminating stop/start
- **In-line Pump Protection Cartridge Filter**
- **Maximum Noise reduction**
High efficiency absorption discharge silencer reduces noise
- **Heavy-Duty V-belt Drive with Safety Guard**
- **Options**
 - 3 - 50 hp for throughputs up to 20,000 lbs./hr.
 - Standby spare pump switching manifold



PDV Chart

Model	HP	Amperage	A	B	C	D	E	Weight lbs.
		460 V						
PDV-030	3	3.8	42	17	17.5	56	28.5	300
PDV-050	5	6.3	42	17	17.5	56	28.5	320
PDV-075	7.5	9.4	42	19	21.2	56	32.5	500
PDV-100	10	12.5	42	19	21.2	56	32.5	525
PDV-150	15	18.0	62	23	25	66	40	750
PDV-200	20	25	65	25	27	72	44	900
PDV-250	25	31.3	65	29	30	76	45	1140
PDV-500	50	62.5	95	30.6	35	59	54	1350

SBF and MBF Central Filters

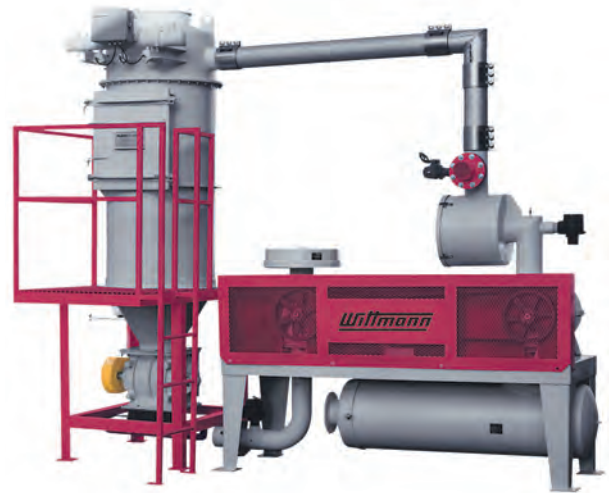
Recommended when conveying powders, pellets and regrind with high concentration of dust and fines. Designed with tangential material inlet with internal cyclone ring and single or multi-cartridge filters for maximum dust removal.

- **Self-Cleaning**
Automatic compressed air filter cleaning with solid state control
- **High Efficiency**
Pleated filter cartridges for maximum effective area
- **Easy Cleaning**
Stainless steel construction and quick release bucket for fast clean-out
- **Filter areas up to 90sqft**
- **Single and three filter unit designs**



Railcar Unloaders

- Recommended for unloading rates over 10,000 lbs./hour)
- Designed for low speed operation maximizing life of equipment, minimizing noise levels and maintaining safety and integrity of resins to be conveyed
- Independent vacuum and pressure circuits for increased control, maximum flexibility and easy of expansion.
- Each system custom designed to suit specific customer requirements
- Positive displacement lobe type blowers
- High efficiency absorption discharge silencers for maximum noise reduction
- In-line pump protection filter
- Positive acting vacuum and pressure relief valves (factory preset)
- Liquid filled vacuum and pressure gauges
- Microprocessor control with LCD digital interface
- Self-cleaning multiple bag filter receiver assembly with compressed air filter cleaning maintain maximum efficiency
- Heavy-duty multiple V-Belt driven with fully enclosed safety guard
- Painted machine enamel



Options:

- Vacuum and pressure transducers for fully automatic operation
- Railcar pick-up nozzles with adjustable air inlet
- Railcar hatch filters
- Railcar manifolds

Tilt Tables, Storage Bins and Super Sack Equipment

- Wittmann offers a full range of bulk handling solutions such as tilt tables, surge and indoor storage bins, and super sack handling.
- These products ensure easy and smooth operation of large through put applications and material introduction.
- Product options range from material construction, paint or special finishing, material sensing, control integration, and automate handling.



Large Format Blending and Drying

Blending

- Wittmann offers a wide range of blending solutions up to a 60lb batch and throughputs over 4000lbs/hr based on application and up to 8 components.
- Turnkey support stands, surge bins, and equipment mezzanines.
- Easy to use touch screen control standard with entire product line.
- Real time RTLS technology coupled with Wittmann's unique valve technology weighs as you dispense, resulting in extreme accuracy saving you money on your additives.



Simple operation

- Ingredient values entered as ratio or in % via touch-screen.
- Changing recipes without stopping.
- Material data base, progress display.
- Storage of 100 recipes, inventory reports.
- Preset batch count.

GRAVIMAX Series 27	
Batch size	27 kg (60 lbs.)
Valve	150 mm (6")
Lid prepared for	FEEDMAX 400 Series
Max. number of comp.	8
Hopper size 1-4	158 l (200 lbs.)
Hopper size 5-8	68 l (80 lbs.)



Floor stand mezzanine

Drying

- Wittmann offers a wide range of central drying solutions with limitless possibilities including large throughput systems.
- Hopper sizes ranging up to 4000lbs or larger upon request.
- Insulated stainless steel or mild steel construction.
- M7.2 control integrated automatic dryer switchover for redundancy.
- Dry air conveying options.
- M7.2 control integrated dryer monitoring and control.
- Dew point controlled desiccant bed switchover options.
- High heat options capable of up to 356degF.



Outdoor Storage Silo Solutions

- Custom built Silo designs to fit your needs and your location.
- Various sizes available to fit your storage requirements.
- Dual compartment silo designs available.
- Both 45 and 60 degree cone designs are available to fit various materials from resin pellets, to regrind and powder.
- All safety equipment is available such as ladder cages, railings, and cross walks.
- Multiple material types available such as stainless steel, mild steel painted, and aluminum.
- Various measuring options available from ultrasonic, hi/low paddle, and yo-yo style.
- Controller integration available.
- Load cell silo design and integration available.
- Wittmann offers turnkey solutions including the tanks, tank erection, all piping and measurement installation, anchor bolts, engineering, and site project management.



Engineering, Installation and Project Management

- Wittmann offers all of the services needed to make your large, plant wide material conveying project completely turnkey. With installation contractors around the country, staffed engineers and project managers, and partnered material suppliers, Wittmann provides a one stop solution for all your conveying system needs





Technology working for you.

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