

CENTRAL DRYING AND LOADING SYSTEMS

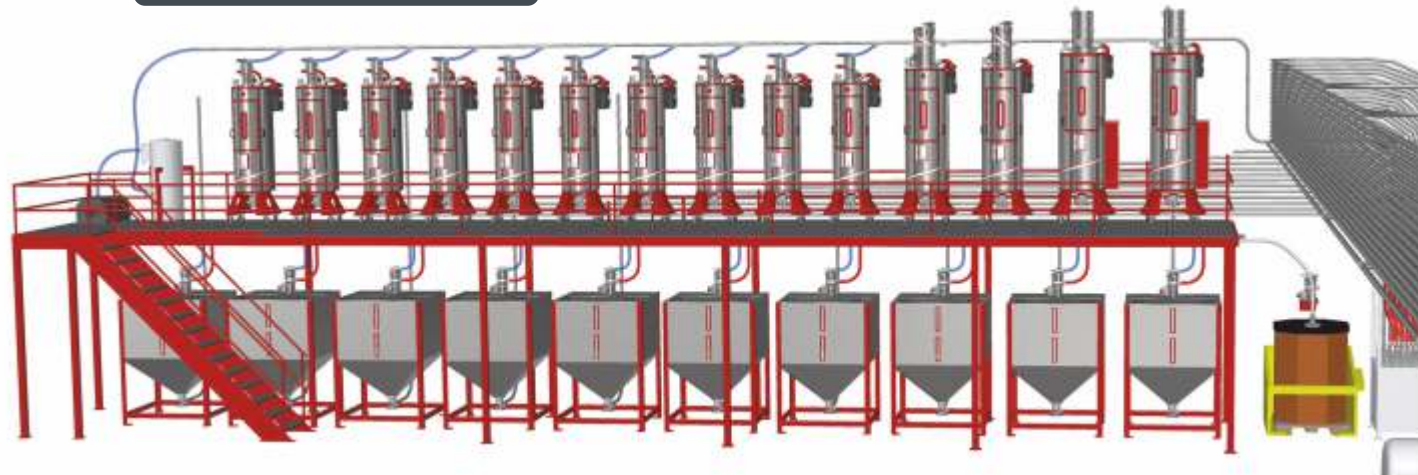


Central drying stations combined with central material handling need to be arranged in detail. Layouts, designed with professional 3D-CAD software, provide impressive drafts, facilitate visions and allow optimization long before installation.

In addition, our central systems feature immense possibilities in energy savings, stability of the drying process and a high transparency in material handling.

The central operated controller allows the adjustment of each single material separator and of each single drying unit without compromising its independent operation. Plenty ways of communication are available for data exchange with external machines and systems.

We support from the point of design up to the startup - future-proof, sustained and with full service.



CAPACITY MONITORING SYSTEM

The capacity monitoring system observes the material throughput on drying and conveying units. The gravimetric system can easily be installed on top of the drying hopper or directly on the feeder of the production machine using special adaptors which can be supplied on request.

The measured values can be evaluated through the QC900-controller of a drying unit, through the controller of a central loading station or on external side through a 4 to 20mA signal.

The system helps to prevent too high material throughputs and allows the creation of meaningful statistics.



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ALL-ROUND TECHNOLOGIES



More than twenty years of experience in business of resin drying and material handling and our ambition to continually improve made us to establish a joint venture between qip GmbH and Wenz Kunststoff GmbH which immensely pushed us forward to products with better energy efficiency.

Centralized or decentralized drying system solutions without or with centralized or decentralized material handling systems as well as customized special-purpose solutions are supplied on the highest level of energy efficiency and with plenty possibilities for data communication which currently can be found in the market.

All gathered experience over the last decades allows us to supply our systems on the highest standard in plastic resin drying. Benefit from our know-how to reduce your CO₂-emissions, to assure the process reliability in your plant and to provide highest transparency of your material handling.

We are looking forward to a future with optimized quality and our contribution to a better and clean environment.

ID-/CD-SERIES



Units of the ID- and CD-series operate only with compressed air and complete the product range of dryers.

They are very popular for small material throughputs due to their unique stability of the drying process and the possibility to mount them directly on the production machine. Only small amounts of compressed air are required.

Hopper volumes of ID-dryers are sized from 22 up to 77 liters. CD-dryers are available with volumes from 1.5 to 11 liters.

All units are delivered with 3 years warranty and they are maintenance-free.



STORAGE CONTAINERS

Storage containers help to arrange and store all kind of plastic resins on a safe place prior to manufacturing. They meet the highest quality standards and are made of stainless steel. They are available with hopper sizes up to 3500 liters.

Containers are designed with sight glasses to allow visual monitoring of the material level. They may be delivered with hinged lids, support grids for emptying material bags, mobile frames, comprehensive accessories to unload the resin and integrated systems to electronically observe material level as well as material throughput.



UD-SERIES

Plastic resin dryers of the UD-series provide unique possibilities in energy savings due to the two-circuits-technology. Ambient air represent the main part in that process. Only a small amount of compressed air is required for the real drying which allows a reduction of 80% in compressed air consumption. UD-dryers achieve an unmatched stability of the drying process and guarantee careless operation for life time.

The circular dryers operate without any typical air inlet pipe, thereby immensely facilitating the cleaning effort in case of material changes. They are used for high material throughputs and delivered with hopper volumes from 260 to 3700 liters.

Additional advantages: The units are maintenance free and supplied with 3 years warranty.



QC900-CONTROLLER

The QC900-controller is the core of all drying units. It represents the best available technology and offers plenty ways to communicate with all kind of machines and systems. Modbus TCP/RTU, OPC UA, TTY/RS485 to link with different production machines, data exchange with SQL-server or PDA-systems (production data aquisition) as well as the potential to get access with a web-client through HTML 5 from any web browser in the world are only a few examples of its impressing possibilities.

A touch-screen with colored display allows a plain and intuitive operation. Special control-algorithms automatically optimize the energy requirement according to the actual material throughput.

Data bases for drying programs, the control of all kind of hopper loaders and data recording of process data through USB are also included as well as a lot of other features.



COUPLING-STATION WITH COUPLING-MONITORING

The distribution of plastic resin across the plant always challenges operators in relation to correct assignment and polarizing.

Manual operated coupling-stations are low-priced, but there is no chance to avoid mistakes during coupling.

A newly developed system enables a continous monitoring of all connected pipes and hoses and alarms in case of wrong correlations. It represents an interesting option compared to high-priced automatic coupling-station-sytems.

Both systems, with or without coupling-monitoring, can be delivered on request.



FD-SERIES

The FD-series are used for medium material throughputs and engineered in hopper sizes of 44 to 220 liters.

They are delivered with all the beneficial features of the UD-series. They can be mounted on the production machine and aside on a mobile frame.

Energy consumption on these units are also at minimum level due to the two-circuits-system. A high stability of the drying process guarantee constant drying results for life-time.

Generous sized doors for easy cleaning are standard on units with hopper volumes of 77 liters and higher. An optional door can be supplied on dryers with 44 liters of hopper volume.

Units are maintenance free and delivered with 3 years warranty as well.



MATERIAL HANDLING / DEDUSTING

Venturi- and vacuum loaders are used to convey plastic resin over short distances. They may be connected and directly controlled from a dryer.

For the material transport through long distances and to supply several production machines, central loading stations with different kinds of material separators may be used. They are mapped in collaboration with the customer, supported through 3D-CAD-design and - if desired - finally installed at the customer side.

Special material separators are available to remove dust on a high-level during a conveying cycle.

Compared to expensive and complex dedusting equipment, they are simple and cost-efficient.



ACCESSORIES & SPECIAL-PURPOSE SOLUTIONS

A lot of standard and optional accessories are available for drying and conveying units.

Development, engineering and programming are all done in-house and allow flexible, qualified and quick solutions in case of special-purpose requests.

