Glass Plant Batching System

We have successfully completed batch house control system projects for several industries. Our batch house experience encompasses all aspects of turnkey solutions for multi-level and multi-line designs. These projects have included system design, instrument specification and equipment procurement. We have designed controls for raw materials, cullet crushing, weighing and mixing operations. We typically provide recipe handling for accurate major and minor ingredients.

We have successfully worked with our client’s corporate engineering, consultants to develop modular batch house designs. By developing a library of control and equipment modules, we have designed unique control systems using proven software configurations.

Projects & References

We have Provided Consultancy and Supplied Many Equipments for following clients

Krishna Glass (Unit of Hindustan National Glass), Apar Pvt Ltd, Shree Vallabh Glass Works, GE Lighting Ltd, Fibre Glass Pilkington, Mysore Lamp Works, Mohan Meakins etc.
We Cater to your automation requirement into solutions, by implementing our modular engineering concept along with weighing technology, combined with industry standard PLC, DCS & SCADA Solutions.

We undertake supply of complete turnkey Projects including all necessary batch plant equipments like Silos, Feeders, Mixers, Conveyors etc.

Weighing & Batching is Done using the best suitable Indicators & Loadcells selected from a wide range of Associates.

After Sales Support is provided through our Service Agents throughout the country.

Our expertise in raw material handling has been a name to reckon with Cement, Salt, Rubber & Glass manufacturers. Leading manufacturers have applied our expertise in the design of batch plants and material handling systems.

Nearly 20+ years of experience in the proportioning and handling of bulk materials has resulted in highly beneficial technologies for our customers. Through our innovative approach and relentless research, we have introduced solutions that continue to be at the leading edge of process technology.

The Company's Core Experties lies in Weighing, Dosing, Automation, bulk process and dry mix product technology.

Our batch plants ensure the following:

- Optimum layout
- Zero spillage
- Highest quality dedusting
- Homogeneity
- Highly accurate weighing
- No contamination and segregation
- State of the art Electronics & PLC Control Systems
An Efficient batch preparation plays a key role in glass production. This consists of the following operations viz:-

**DOSING**

Suitable dosing technology, which is precisely configured to match the flow characteristics and physical properties of the raw materials, is a prerequisite for the exact weighing of individual components.

**WEIGHING**

Materials are exclusively weighed in hoppers which are specifically dimensioned and designed with regard to weigh the individual components and therefore guarantee optimal precision. Precision small and micro addition components are weighed in separate bins to provide accuracy. The traditional premixing with extenders is no longer necessary.

**MIXING**

A homogeneous batch is essential to achieve good melting efficiency. This is guaranteed by high-performance cyclo pan mixers. This can be selected by us or by the customer.

**CONTROLLING**

Ultra-modern automated equipment (programmable logic controller), weighing and dosing computers as well as a SCADA system for visualising the processes control and monitor batch production. All is fully automatic and completely independent of human intervention. SCADA stations control the dialogue between man (the operator) and the machine (the plant). These can be integrated both into the batch plant control room and centrally in the furnace control room. The SCADA station provides the operator with the possibility of entering formulations, material names or process monitoring times manually into the control system or of amending them there. The control system manages all data and summarises it into a number of reports or financial calculations. This data is then transmitted via what are called “bus lines” to higher level control and data processing systems.

**TRAINING & SUPPORT**

In order to ensure that your plants operate perfectly over the long term, customers’ staff are carefully trained during commissioning of the plant either on site. Plant operators are intensively trained for later operation of either the mechanical equipment in the plant or the control system. Our training also provides an ideal platform for the exchange of information between operating staff and our engineers. Option of Remote Support & Troubleshooting is also provided using modern available tools and remote assistance softwares.