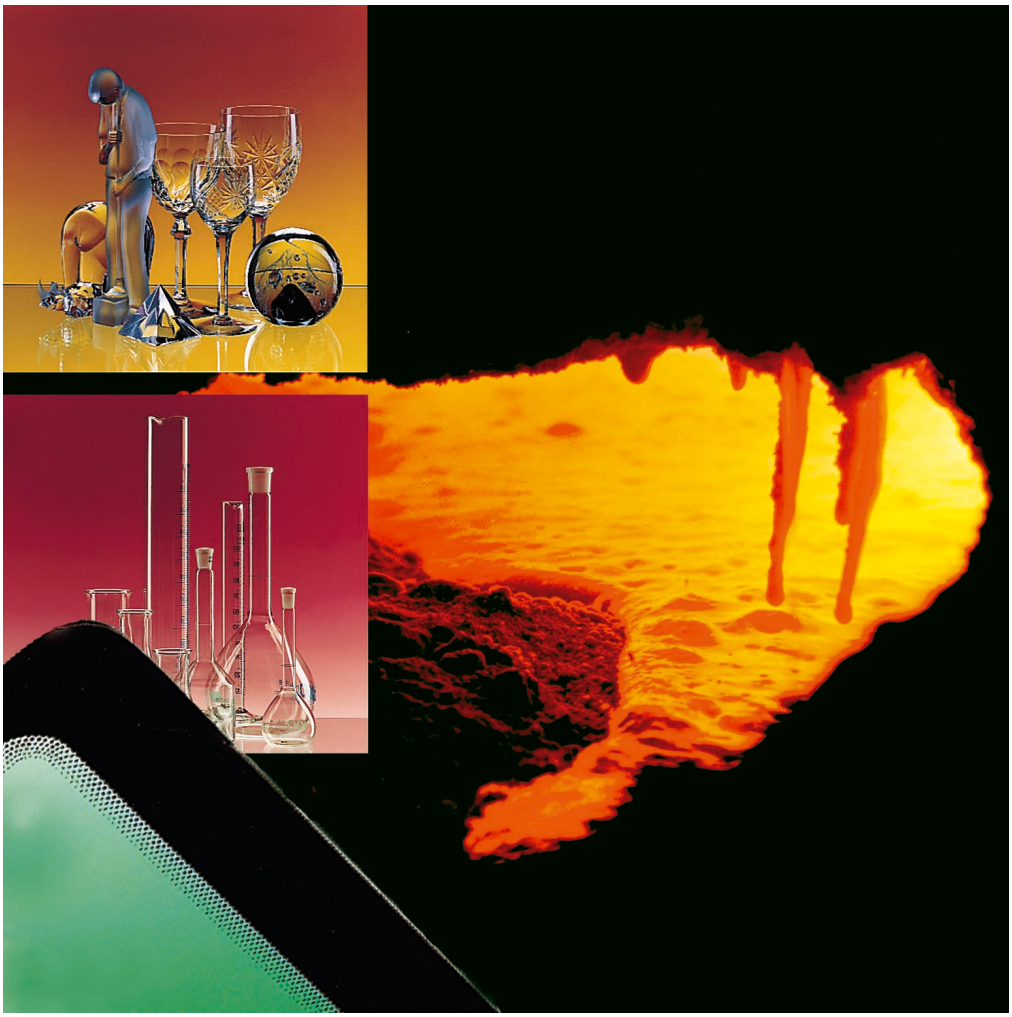
Glass

Leaflet no. GL 1399-2-en

Preparation of Glass Batches

EIRICH intensive mixers produce batches of greater homogeneity in shorter mixing cycles



- excellent batch quality
- reliable operation
- low maintenaince

EIRICH

agglomerating · batching · coating · cooling · conveying · crushing · deaerating · defibrating · disagglomerating · dispersing · dissolving · emulsifying · evacuating · granulating drying · heating · impregnating · mixing · moistening · pelletizing · plasticizing · reacting · suspending · stripping · slurrying · waterproofing · weighing · measuring · controlling

The key to quality glass: A homogeneous batch.

Glass batches consist of many individual components which in some cases differ considerably in terms of their

- ratio in the formula,
- bulk density or specific density,
- particle size distribution,
- grain form, solubility and wetting characteristics,
- tendency to form agglomerates.

The main function of the mixing machine is to produce a batch of optimum homogeneity. EIRICH intensive mixers are high-performance machines specially modified to meet the needs of the glass industry. Whatever your application, with EIRICH intensive mixers you will achieve excellent results in terms of batch homogeneity, availability and economy. Be it in production or for development and/or test purposes in the laboratory, EIRICH intensive mixers are in use all over the world.

It's all in the mix

The EIRICH mixing principle with its special characteristics

- rotating mixing pan
- rotating mixing tool (rotor and/or shear depending on the application)
- stationary multi-purpose wall-bottom scraper

produces a verifiable better homogeneity of the mix.

Design advantages

- Good access to all components (no drives inside the mixing chamber)
- Low number of mixing tools
- Easy replacement of wear parts
- Application-specific choice of materials
- Long service life thanks to low wear (less contamination of the batch)
- High throughput rate
- Easy cleaning

Practice-proven accessories

- stationary steam lance to heat the batch
- individual wear protection

The range

The range of effective volumes is 3 l for laboratory mixers up to 7000 l for production machines.

Proven effective for modernization of plants

- shorter mixing times increase the plant output
- less reject due to improved homogeneity and de-agglomeration
- replacement of simple mixing systems optimizes the premixing of minor components at low investment cost
- direct addition of small and minor components into an EIRICH-master mixer increases the flexibility of the plant
- pelletizing of dust, raw materials or batch reduce
  - demixing problems
  - dust development at the batch charger and the melting furnace area
  - melting energy

We provide competent consulting and worldwide service for all your questions concerning the modernization of the glass preparation.

Fig. 2.1: Material current in the EIRICH intensive mixer

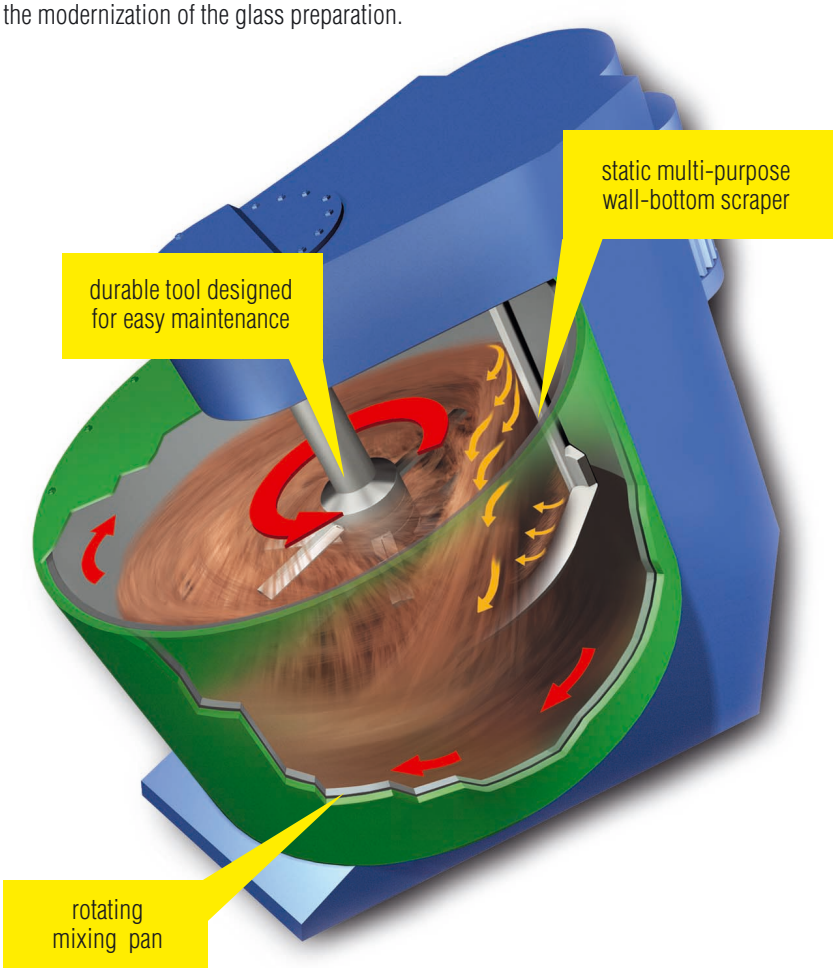


Fig. 2.2: Mixing principle of the EIRICH intensive mixer

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