

Case Study No 16

GERICKE TYPE GB ELBOW USED AT ONE OF THE LARGEST FOUNDRIES IN EUROPE

Object Pneumatic conveying system in the largest independent iron foundry in Western Europe.

Customer Fritz Winter Eisengießerei GmbH & Co. KG.

Development, manufacture and sales of exacting castings for domestic and foreign customers.

Fritz Winter customers include manufacturers of cars and utility vehicles, motors, gears, shafts, hydraulic systems and heating technology. Products representing over 50% of revenue are exported.

With annual production numbering several million units, mechanical processing for brake discs/drums for utility vehicles and cars, engine blocks, crank cases and cylinder heads is a central focus.

Purpose The Gericke Type GB pipe elbow is integrated in the pipes of various pneumatic dense-phase conveying systems in the foundry with an annual output of 600,000 metric tons of cast iron.

Materials conveyed Used foundry sand, silica sand, graphite and bentonite.



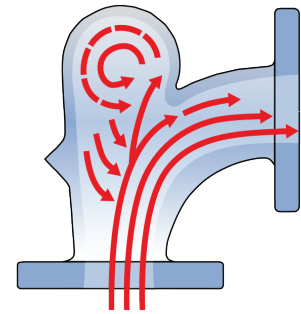
Gericke Technology

An internal expert work group at Fritz Winter determined that the Gericke GB elbow has the longest service life in comparison to other deviation pots/deflection elbows.

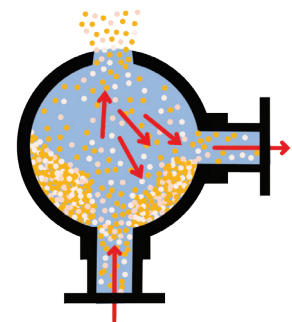
Thanks to many years of positive experience and the work group's results, Fritz Winter is now striving to implement the Gericke GB elbow as the only conveying elbow in the production areas molding sand for engine blocks, brake discs and special applications in order to reduce the number of different deviation pots/deflection elbows.



With Gericke Elbow



With ordinary diverter pot



Advantages of Gericke pipe elbows over other deviation pots

- Patented deflection chamber reduces turbulence
- Minimal wear on pipes
- Longer service life
- Compact pipe construction
- Minimal pressure loss
- Quick installation