



Production of Concrete

Ensuring the concrete quality together with low production costs



Production of concrete involves several tasks to be carried out in an appropriate way in order to ensure the concrete quality together with low production costs.

The Concrete Centre possesses an extensive amount of know-how within all aspects of concrete production. Thus, we are providing consulting services for the suppliers of concrete constituents, for the concrete manufacturers and for the end-users (building owners and contractors). Furthermore, the Concrete Centre assists manufacturers with implementation, calibration, control, etc. of new production equipment.

The design phase

The Concrete Centre has supplied the Danish concrete industry with theoretical models and useful tools for concrete mix design in order to reduce the need for cement and thereby reducing the material costs and improving the concrete quality.

This optimisation of the concrete mix design employs the theory of aggregate packing, depending on the shape and grading of the aggregate fractions.

Furthermore, the Concrete Centre has comprehensive knowledge of existing and future concrete material standards due to the fact that we are represented in several national and European standardisation bodies.

The production phase

The Concrete Centre has recently developed and custom-built an integrated IT-system for 4K-Beton, being the second-largest Danish concrete manufacturer (part of the RMC Group). This system controls all the different tasks ranging from the mix design, handling of constituents and the mixing process to all aspects of material control and documentation of concrete quality with reference to the valid material standards. Furthermore, the system is fully compatible with the existing

systems for ordering, planning, invoicing and dispatching.

Both the manufacturer and the end-users feel the advantages of implementing such a system in terms of reduced production time and costs, improved concrete quality and a more consistent concrete quality and furthermore, the compatibility between different production plants is ensured.

Information

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