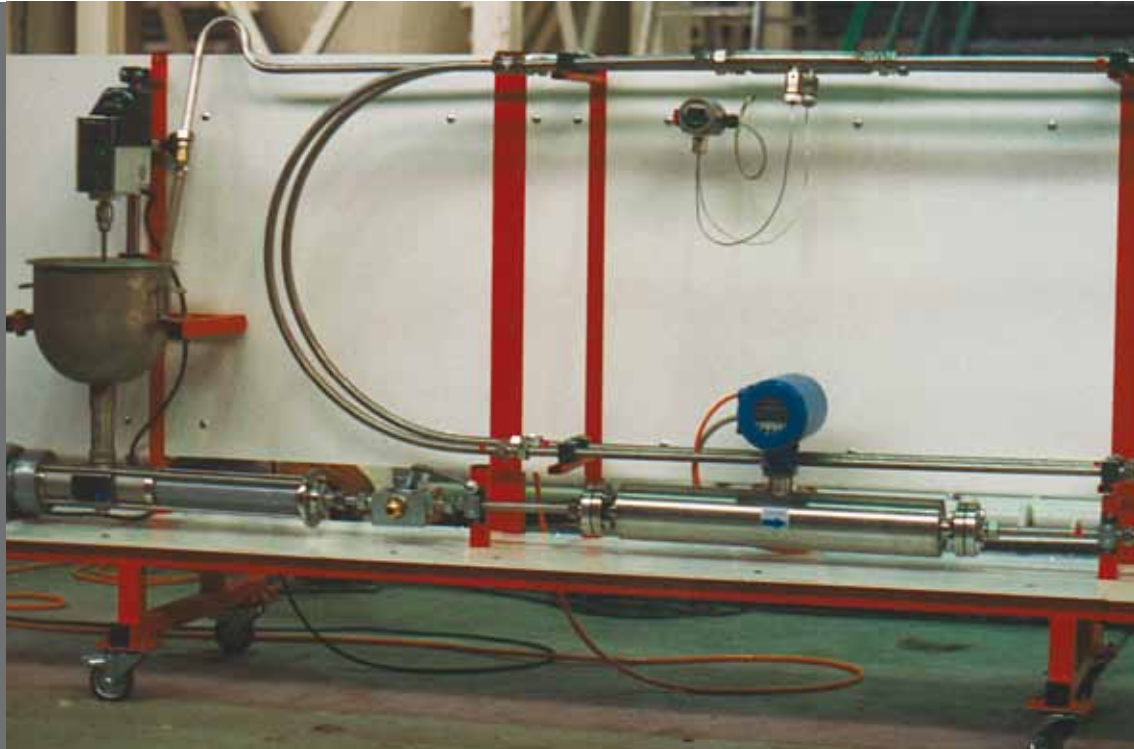


A one-stop shop for all your process needs

Building and stowing materials processing



Engineering around building and stowing materials



Laboratory version of DMT's DN 15 pipeline viscosimeter measuring system

Our building materials processing division is engaged in developing specific solutions for the hydraulic and pneumatic conveying of building and stowing material. This includes all operations required upstream and downstream of the delivery process: from materials receipt and storage through process-specific preparation to pump-delivery and final processing.

Operators of coal extraction and mineral preparation sites have profited from DMT's many mining and tunnelling projects and from our extensive research activities and experience. This includes pneumatic delivery, the hydraulic conveying of suspensions and building materials and the final processing stage itself.

If you need to deliver composite materials we plan the operation for you and provide advice and support in developing the best mixtures and designing the most efficient plant. By using the properties of the medium being transported as reference input to calculate the anticipated pipeline pressure loss our design team is able to come up with the most efficient engineering solution.

All processes can be monitored and visualised and our own mobile metering equipment can also be employed, if required. This is a major plus point for the operating crew: the measurement data are vital for failure analysis if problems arise, while process visualisation makes equipment operation much easier.

Test material



Pump for DMT's DN 40 pipeline viscosimeter measuring system

Our Services

Consulting for the pipe conveying of building and stowing material:

- Rheology testing of materials and suspensions
- Development of mixtures
- Pipeline design and dimensioning

Planning of stowing and materials conveying systems:

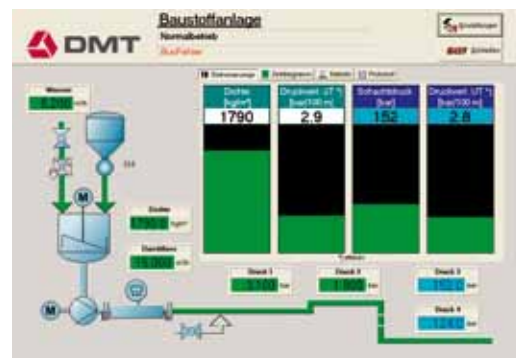
- Compilation of reliable planning data
- Development of procedures and concepts
- Basic engineering and detail work
- Development and delivery of monitoring and visualisation equipment
- Process monitoring and weak-point analysis
- Development and delivery of technical components

General materials consulting:

Whether you need advice on conveying building and stowing materials, help with the planning and construction of materials conveying installations or general guidance on materials handling we provide integrated solutions that will maximise your success and deliver great efficiency and reliability. A one-stop service for operational safety and economic efficiency.

Typical projects by the DMT-materials processing team

- **Cavity filling:**
Process development, rheology-assisted control of the mixing process, visualisation
- **Pneumatic conveying:**
Design and visualisation of a high-throughput pneumatic stowing system
- **Pneumatic and hydraulic conveying:**
Delivery of a materials system for erecting ventilation stoppings under ground
- **Mixing and hydraulic conveying:**
Technical supervision on saline-concrete mixing and pumping projects
- **Steel-fibre shotcrete:**
Process development and technical monitoring
- **Hydraulic materials processing:**
Visualisation, weak-point analysis, component development and supply



Visualisation chart for a materials delivery system

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