

Contract for pipe finishing equipment

PIPEMAKING VSB in Brazil, a joint venture between a South American and a Japanese company, have recently awarded a contract to **Bronx/Taylor-Wilson** for a hydrostatic pipe tester for an end load of 8,043 kN for 406.4 mm OD casing.

Bronx/Taylor-Wilson will also supply two 6.CR.11 pipe straightening machines. These machines will be processing a diameter range of 177.8 to 406.4 mm diameter at yield strengths above 165,000 psi. The six-roll machines incorporate several design features to further improve rigidity and efficiency of operation such as the hydraulic lift features for ease of tube entry and to help prevent potential end damage, electronic pressure sensing load cells for accurate indication of straightening loads, a patented computer aided setting system to ensure consistent product quality and throughput when setting the optimum work roll positions.

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Pipe straightening machine 6.CR.11

CFD-based new developments and optimization of filter installations

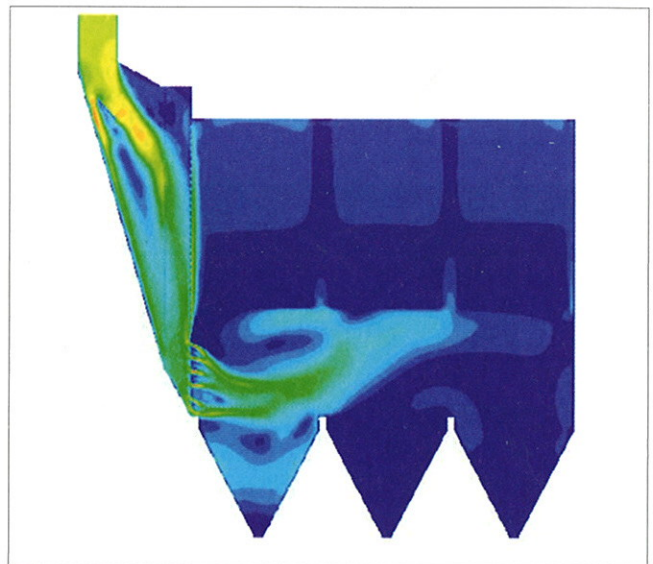
SIMULATION TECHNOLOGY

The automotive industry intensively uses CFD (computational fluid dynamics) simulations for new designs. E.g. energy efficient vehicles can only be designed with the aid of suitable CFD software. The example of **Intensiv Filter** shows that there are other fields of application for CFD solutions. Intensiv Filter uses CFD for new developments of Jet Pulse bag filter systems and plant components. Up till now the company relied on the services of external suppliers. But now the development department will use the CFD tool in-house.

The analysis of the dataflow is an indispensable instrument for the construction and development

of dedusting plants. The potential of CFD helps to predict the real characteristics of the flow and ensures the efficiency of the filter. The parameter of the stream flow helps to increase energy efficiency of the dust removal installations and components. The software offers a direct path from 3-D CAD to the CFD geometry.

Besides simulations of fluids the CFD software also allows thermal dynamic optimization, for example of air-to-air coolers, the simulation of multiphase streams or the design of conditioning towers. Energy efficient dedusting filter systems can only be developed with the knowledge of the velocity, loss of pressure and the stream of particles. The



Flow simulation

decision to implement CFD analysis in-house was made with the objective in mind to shorten the time required for optimizing the dynam-

ics of gas and solid streams in customized solutions.

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