

Highlights of the month:

First order Flame proof Ex de motors with encoder mounted in separate flameproof encoder box, driven by Siemens frequency inverters:

Branch: Paper Industry
Application: Converting technology
Built in: since 2007
Installation: worldwide
EU:
EPC:
OEM:

Picture:



Drive Solution / Product:

Flameproof Ex de motors, TEFC and TENV, with encoder mounted in separate flameproof encoder box, driven by Siemens frequency inverters

ATEX-certified range available in frame sizes 90 – 225, also for other applications wherever a flameproof motor with encoder is required/specified.

Customer Advantage:

Depending on application motors can be driven in hazardous areas
Due to encoder mounting within flameproof encoder box instead of inside motor housing easy access to encoder, and use of standard encoder.

With our Newsletter in May 2009 we presented this new development for a project in Japan. We are glad to inform now that we have received the first commercial order from Japan for such motors.

We would like to point out especially the availability of this range from frame size 90 to frame size 225 with ATEX certification, i.e. motors can be offered for all applications where due to the sensible speed control the use of an encoder is necessary/required.

Power range from 1,5 to 15 kW, both TEFC and TENV

New water jacket-cooled flameproof series:

Loher is about to deliver the first VARIO Ex de with direct water jacket cooling. This allows up to 60% more output compared to the TEFC-cooled standard design.



Further technical features, application examples and customer benefit are:

General application for Zone 1 and 2:

- Compressors
- Fans
- Pumps

Drilling application (Zone1):

- Draw works
- Mud pumps

- Top drives

Customer Benefit:

- Low noise level

- Small dimensions

- High output rating

- High efficiency

- Suitable for aggressive atmosphere (totally enclosed)

- Very low heat dissipation in the ambient

- Suitable for inverter operation (system test not necessary)

Test bench drive systems with Loher motors and Sinamics inverters:

With sophisticated regulation and simulation the test bench technology will provide an important contribution in the future to energy saving in the development up to the start-up of products and installations. Loher has delivered over the years an impressive number of drive systems for this application. The matching of motor and inverter play a decisive role. A special challenge were the motors or generators arranged in tandem with special steel of the shafts and the high power level.

