

LOHER

See also

<http://www.automation.siemens.com/mcms/large-drives/de/motor/hochspannungsmotoren/loher-motoren/ex-d-e/Seiten/ex-d-e.aspx>

1.2 Loher new development: Flameproof motor in frame size 1000



LOHER offers one of the largest and most sophisticated ranges of flameproof motors worldwide. With shaft height 1000 the power spectrum is now extended upwards to **6500 kW**.

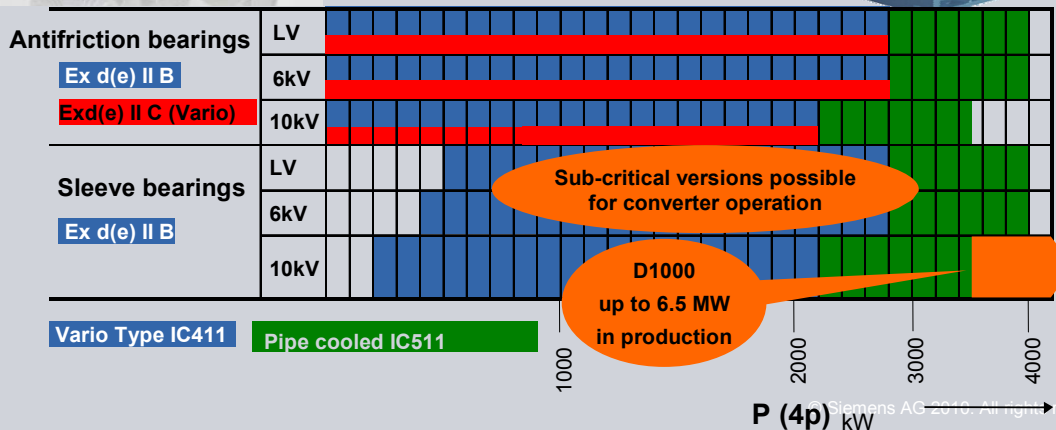
LD Loher - new development Flameproof motor – shaft height 1000

SIEMENS

Motors with flameproof enclosure, acceptance acc. to “ATEX” (94/9/EC)



LOHER offers one of the largest and most sophisticated ranges of flameproof motors worldwide.



LOHER

The compact design results in many advantages over complex Exp motors in this performance class:

- Suitable for converter operation without extensive system tests
- Corrosion-resistant pipe cooling of stainless steel
- Shaft is suitable for high shock loads e.g. for compressors
- Certified for ambient conditions to -40°C (-40°F) without additional heating.
- No complex and fault-prone infrastructure (piping, valves and monitoring) for purging and pressure maintenance as is usual for Exp. As a result, a standalone installation is also possible.
- Immediate start of process without waiting times for purging

The last and all-important step for the development of a flameproof motor is the spark ignition test. In a test chamber both the motor and the chamber are filled with an explosive ethylene-gas mixture in this process. Now inside the motor the gas will be ignited thus causing a pressure of up to 50 bar. Strictest requirements must be fulfilled for the material and design avoiding that the explosion is released to the atmosphere. In June 2010 the decisive tests have been successfully carried out at the test laboratory.

So we can go ahead and deliver the first motors. There are already further motors of this performance class in our order books.



Picture:

Spark ignition test at DEKRA EXAM, Bochum in test chamber I with \varnothing 315 cm x 600 cm (56 m^3) Both with the motor's dimensions and weight of 26 tons the limits are reached.