



Combustion Optimisation and Reduction of Emission in Power Plants

«Quality without
Compromise»



In 1969, I founded Pentol to import and distribute fuel oil additives in Europe. The idea behind was and is to reduce emission from power stations and preserve the environment. Subsequently, we started to develop and produce additives and the corresponding dosing equipment. Today we are market leader for flue gas conditioning systems in Europe and a well established producer of a wide range of fuel oil and coal additives.

I am proud of our independent and highly specialised company.

Eric Blauenstein (President and Founder)

Pentol is a well-known name in the world of power stations. It stands for innovative and affordable solutions to reduce emission and increase efficiency. Sales, Engineering, Production and Service are concentrated in our plant in the south of Germany. Pentol employs about 35 people and operates sales and service points in Poland, France, Switzerland, Korea, Mexico and the UK. In addition to our products, services like SO_3 and fly ash resistivity measurements and ESP inspections are much asked for.

Olivier Blauenstein (CEO)

«Prevent Load Restrictions»





Although working in a niche market, diversity in our company is very high. There are many ways to reduce emission and the demands of our clients differ considerably. This is a challenge we meet with a lot of effort and energy.

Rainer Kuschnerleit (Sales Director)

To meet our clients' expectations, we have to adapt and develop our products constantly. Our engineering staff contributes their experience in commissioning and operating dosing systems and flue gas conditioning systems to the development process.

Michael Holzer (Engineering Director)

«Develop Products
Together»





In research, we have to react fast to customer feedback and adapt the chemical composition of our additives to the requirements of the client. This allows us to extend our activities to new business fields, such as diesel engine plants.

Dr. Anja DeLong (Director of Chemical Production, Head of R&D)

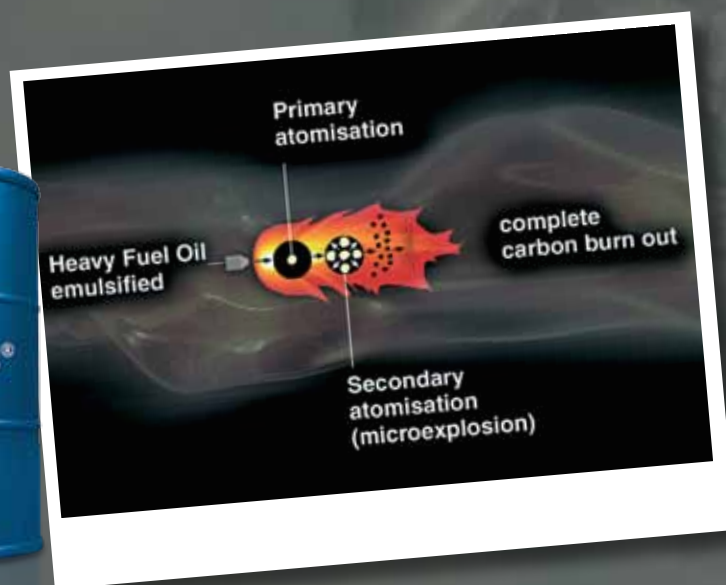
Load restrictions are the last thing our clients want. Because our additives and conditioning systems are often vital to keep emission levels low, we need to achieve the maximum uptime of our plants. We make sure that service technicians and spare parts are on site as soon as possible.

Jürgen Olsen (Director of Plant Construction)



PentoMag®

PentoMag prevents corrosion and deposits in the combustion chamber and the back end. Acidic deposits are eliminated so that the exit gas temperature is reduced and the efficiency of the plant is increased.



PentoMuls®

PentoMuls forms a stable water-in-oil emulsion which can be burned with a stable, compact flame. It grants a complete carbon burnout and a reduction of CO, NOx and solid emission.

Fuel Oil Combustion



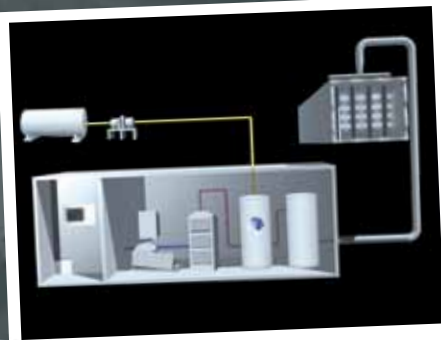
PentoMag 4400®

Optimises combustion in fuel oil fired diesel engines. Removes deposits on fuel valves, prevents corrosion and helps to extend the cleaning intervals of the engine.



SO₂ Monitor

Fully automatic and continuous online measurement of SO₂ emission. This instrument is very accurate and allows calibration in selected intervals without user intervention.



Flue Gas Conditioning

Flue gas conditioning reduces emission by injecting SO₃ into the flue gas ducts. Fly ash resistivity is reduced for optimal precipitation. Plants benefit from lower solid emission and a higher whiteness grade of the gypsum.



Service

Our service team ensures the maximum availability of flue gas conditioning plants and dosing equipment. Pentol stocks all spare parts required for interventions.

Coal Combustion



PentoMag 2550®

Antislugging coal additive. PentoMag 2550 increases the melting point of the ash and prevents the formation of hard deposits in the firebox and on the super heaters. Existing deposits get friable and are easy to remove.



SO₃ Monitoring / Dust Resistivity Measuring Service

We measure SO₃ and dust resistivity for you on site. If required, instruments can be rented for long-time measurements.

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