



Sulzer's technology— key for transportation

Dear technology experts, customers, and partners,

Did you know that a quarter of the worldwide annual primary energy consumption is needed for transportation alone? Economic globalization has led to an increasing need for the transportation of goods over longer distances from the producer to the consumer. In addition, people now travel increased distances to work and in their spare time. These requirements have risen substantially in the last few decades.

This issue of the *Sulzer Technical Review (STR)* focuses on Sulzer's solutions for current and future requirements concerning fuel consumption, pollutant emissions, durability, maintenance, and renewable fuel production. Sulzer products are present at many levels—both visible and invisible to the end user.

You will learn, for example, how specialists at Sulzer Metco develop and produce innovative honeycomb seals to increase the efficiency of aircraft engines. A further article surveys Sulzer Metco's surface refinement of individual automotive components. This treatment increases durability, lowers friction, and is environment friendly. Contrary to first-generation biofuels, second-generation biofuels are made from waste biomass. Sulzer Pumps' and Sulzer Chemtech's solutions are crucial for the future production of these environmental friendly fuels. Further, Sulzer Turbo Services presents its high-speed balancing facilities in Houston and Winterthur.

I hope you enjoy reading about these and other innovative developments of the Sulzer divisions and Sulzer Innotec.

Sincerely yours,

Ton Büchner
CEO Sulzer

Sulzer today

The Sulzer brothers laid the foundations of today's company 175 year ago in Winterthur, Switzerland. Sulzer is active in the fields of machinery, plant construction, and surface technology in more than 120 locations around the world. Its divisions are global leaders in their respective markets, including the oil and gas sector, the hydrocarbon processing industry, power generation, pulp and paper, aviation, and the automotive industry. Sulzer employs a total of 12,500 professionals who develop innovative new technical solutions. These products and services enable Sulzer's customers to achieve sustained improvements in their competitive positions.

www.sulzer.com

Sulzer Pumps

Sulzer Pumps offers a variety of centrifugal pumps, ranging from custom-built models to standardized series. The division's market-leading position reflects its research and development activities relating to process-oriented materials as well as its reliable service. It serves customers in the oil and gas, hydrocarbon processing, pulp and paper, power generation, water distribution and treatment sectors, as well as other specialized areas.

www.sulzerpumps.com

Sulzer Metco

Sulzer Metco specializes in thermal-spray and thin-film processes for surface technology applications. The division coats and enhances surfaces, produces materials and equipment, and develops machining processes for special components. Its customers are active in the aviation and automotive industries, the power generation segment, and other specialized markets.

www.sulzermetco.com

Sulzer Chemtech

Sulzer Chemtech is the market leader in the fields of process technology, separation columns, static mixing, and cartridge technologies. The division has sales, engineering, production, and customer service facilities throughout the world that enable it to meet the needs of its customers in the oil and gas, chemical, petrochemical and plastics industries.

www.sulzerchemtech.com

Sulzer Turbo Services

Sulzer Turbo Services is the largest independent provider of repair and maintenance services for thermal turbomachinery and other rotating equipment. The division also manufactures and sells replacement parts for gas and steam turbines and compressors. Its customers operate in the oil and gas, power generation, and other specialized industrial sectors.

www.sulzerts.com

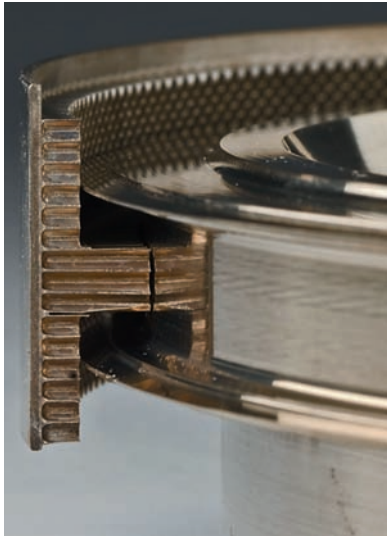
Sulzer Innotec

The research and development unit supports the development projects of Sulzer's own divisions as well as projects of industrial companies around the world by providing contract research and special technical services. Sulzer Innotec has considerable expertise in materials engineering, surface engineering, fluid technology and medical technology, as well as in the field of mechanics. Its core competencies in the area of contract research also focus on these traditional disciplines.

www.sulzerinnotec.com

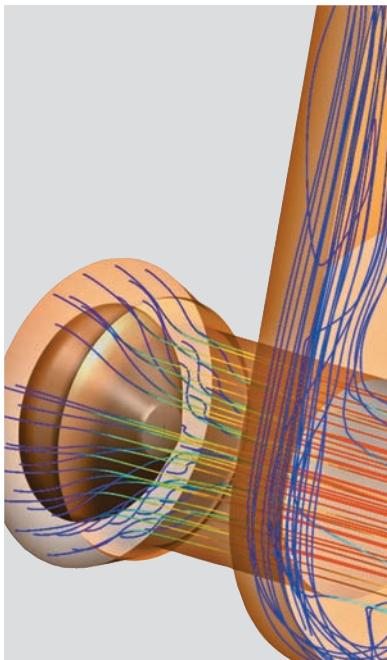
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Starter gear with diamond-like carbon coating from Sulzer Metco.