

CASE STUDY

Sulzer Helps to Dewater “Stuttgart 21”, the Largest Deep Construction Project in Europe

Stuttgart 21 is a railway and urban development project in Stuttgart, Germany. It is a part of the new and upgraded Stuttgart–Augsburg railway and the main transport line for Europe (Paris–Vienna–Bratislava–Budapest) in the Trans-European Transport Networks. Its core is the Stuttgart central station that will be renewed from a terminal into a through-station and moved completely underground. The project includes 57 km of new railways with 34 km of tunnels and 25 km of high-speed lines.



The construction site of Steinbühl railway tunnel close to Stuttgart

“ The rail project will bring significant improvements as the entire region, including the airport and trade fair center, will be linked to the international rail network. ”

Dr. Udo Andriof and Wolfgang Dietrich, Stuttgart-Ulm project spokespersons

The Sulzer difference

- Long-standing experience as a partner for construction companies
- 24/7 product and service supply without delay
- A full range of state-of-the-art submersible dewatering pumps
- The quality and wear resistance of our products are proven in the most wear-intensive applications
- The new XJ range dewatering pumps are leading in total efficiency, life-cycle costs and unique features against wear and breakdowns

The challenge

About 90% of the deep construction work takes place in the city center. Downtown Stuttgart consists of valleys and hills with vineyards, and also comprises some mineral water springs. The geological conditions are demanding and partly unstable.

There are nine active tunneling sites at present, each with very limited access and space for logistics and storing of machines and material. The time pressure is great, since even the slightest delay is very costly and critical for the project.

Our customers, the contractors and consortiums of this project, work 24/7 and expect local product and service supply without delay. To fulfil these expectations, three Sulzer hubs offer pumps and spares to meet the high requirements in lead times and express/overnight shipments.

The solution

The groundwater level in Stuttgart has been lowered by deep wells and a central water management pumping and neutralization system, which connects all tunneling sites in the city and finally ends in the river Neckar. In a challenging tunneling environment like this, excessive water, however, needs to be removed, and Sulzer was able to offer the customer its fleet of portable submersible dewatering pumps for different geological conditions, various construction phases and weather conditions. Sulzer has already delivered almost one hundred pumps of different models and provided rental pumps to four different tunneling sites of this deep construction project.

Sulzer Project Guide

**T. Graczyk, Tadeusz Jastrzębski, C. A.
Brebbia**

Sulzer Project Guide:

Modern Marine Internal Combustion Engines Ievgen Bilousov, Mykola Bulgakov, Volodymyr Savchuk, 2020-06-30 This book offers a comprehensive and timely overview of internal combustion engines for use in marine environments. It reviews the development of modern four stroke marine engines, gas and gas diesel engines and low speed two stroke crosshead engines, describing their application areas and providing readers with a useful snapshot of their technical features, e.g. their dimensions, weights, cylinder arrangements, cylinder capabilities, rotation speeds and exhaust gas temperatures. For each marine engine, information is provided on the manufacturer, historical background, development and technical characteristics of the manufacturer's most popular models and detailed drawings of the engine depicting its main design features. This book offers a unique self-contained reference guide for engineers and professionals involved in shipbuilding. At the same time, it is intended to support students at maritime academies and university students in naval architecture, marine engineering with their design projects at both master and graduate levels, thus filling an important gap in the literature.

Handbook of Industrial Mixing Edward L. Paul, Victor A. Atiemo-Obeng, Suzanne M. Kresta, 2004-02-03 Handbook of Industrial Mixing will explain the difference and uses of a variety of mixers including gear mixers, top entry mixers, side entry mixers, bottom entry mixers, on line mixers and submerged mixers. The Handbook discusses the trade offs among various mixers, concentrating on which might be considered for a particular process. Handbook of Industrial Mixing explains industrial mixers in a clear, concise manner and also contains a CD ROM with video clips showing different types of mixers in action and an overview of their uses. Gives practical insights by the top professional in the field. Details applications in key industries. Provides the professional with information he did receive in school.

International Chemical Engineering and Processing Industries, 1968
Silting Problems in Hydro Power Plants C.V.J. Varma, B.S.K. Naidu, A.R.G. Rao, 2020-08-13 An examination of how silt has a major impact on the operation of hydropower projects in terms of the silting of reservoirs with particular reference to India, where one third of the Earth's silt material originates. An effort is made to raise awareness of silt issues in the minds of hydropower engineers, considering silting problems in hydropower projects on the Indian sub continent. Also under discussion are environmental and economic aspects of silt management, reduction of silt by implementing ISO 1400 for hilly projects, technical treatments of reservoir sedimentation, desilting and its economic optimization, damage mechanisms and their analysis and design criteria. Although this book considers the problem of silting from several viewpoints, it focuses on the design of hydropower plants in India.

CPE. Chemical & Process Engineering, 1968 CPE., 1968-07

Guidelines to Hydraulic Transient Analysis of Pumping Systems Stanislav Pejović, Adrian P. Boldy, 1992
Coastal Environment C. A. Brebbia, 2002 Coastal regions around the world have some environmental features and problems unique to their location. Containing the proceedings of the fourth international conference on this topic, this volume highlights the latest research on these important regions. The contributions featured will aid the understanding of risk, hazard mitigation.

and remediation strategies and help to protect the business and leisure activities so crucial to these areas *Guide to Swiss Hydraulic Developments* Schweizerischer Wasserwirtschaftsverband,1926 *The Advertisers' Guide to the Middle East* ,1996 *Elementary-school Guidance and Counseling: a Composite View* John J. Pietrofesa,Jon Carlson,1973 Real Estate Record and Builders' Guide ,1893 *Civil Engineering Guidelines for Planning and Designing Hydroelectric Developments* ,1989 **ASME Technical Papers** , Marine Technology III T. Graczyk,Tadeusz Jastrzębski,C. A. Brebbia,2000
 Proceedings of the third International Conference on Marine Technology ODRA 99 held in 1999 in Szczecin Poland and organized by the Technical University of Szczecin and Wessex Institute of Technology *Turbomachinery International Handbook* ,2006 **Guide to the Insects of Connecticut** Wilton Everett Britton,1927 *Proceedings* ,1999 *Guide to the Insects of Connecticut: The Odonata, or dragonflies of Connecticut* ,1927 National Guide to Funding for Libraries and Information Services Stan Olson,Ruth Kovacs,1993

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Table of Contents Sulzer Project Guide

1. Understanding the eBook Sulzer Project Guide
 - The Rise of Digital Reading Sulzer Project Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Sulzer Project Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sulzer Project Guide
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings
 - eBook Platform and Bestseller Lists
5. Accessing eBook Platform Free and Paid eBooks
 - eBook Platform Public Domain eBooks
 - eBook Platform eBook Subscription Services
 - eBook Platform Budget-Friendly Options

6. Navigating Sulzer Project Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Sulzer Project Guide Compatibility with Devices
 - Sulzer Project Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sulzer Project Guide
 - Highlighting and Note-Taking Sulzer Project Guide
 - Interactive Elements Sulzer Project Guide
8. Staying Engaged with Sulzer Project Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sulzer Project Guide
9. Balancing eBooks and Physical Books Sulzer Project Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sulzer Project Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sulzer Project Guide
 - Setting Reading Goals Sulzer Project Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sulzer Project Guide
 - Fact-Checking eBook Content of Sulzer Project Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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