

# Preface

*Design of Demining Machines* describes the development and testing of modern demining machines in humanitarian demining. Machines and other equipment are mechanizing the demining process, thus replacing human involvement in this dangerous activity, and therefore reducing risk. Modern humanitarian demining cannot be imagined without the use of machines because this reduces time and costs for demining.

Relevant data for design of demining machines have been provided. Out of different humanitarian demining machinery, this book provides description of the perspective machinery that draws attention as well as some innovative and inspiring development solutions. It also describes the development technologies, companies, and projects. The provided data is gained through genuine research and development. Some data were excerpted from scientific research projects, scientific papers, and producers' material. Emphasized were also drafts of standards for testing and evaluation of demining machines. This book is primarily tailored as a text for the study of the fundamentals and engineering techniques involved in the calculation and design of demining machines. Much attention has been given to the dynamic processes occurring in machine assemblies and components, as well as in demining machine as a whole. This enables full estimate of the effects of various design factors and proper selection of optimal parameters for designing the demining machine.

I hope this book will contribute to the spreading of knowledge for safer and faster removal of mine threats in humanitarian demining.

Zagreb, May 2012

Dinko Mikulic



<http://www.springer.com/978-1-4471-4503-5>

Design of Demining Machines

Mikulic, D.

2013, XIV, 214 p., Hardcover

ISBN: 978-1-4471-4503-5