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Dear readers,
we present you the other edition of the book aimed at the topic of machine tools. In this way, we continue the tradition which we started in 2006 by the first book "Design of CNC Machine Tools". The great reaction of readers led us after four years, i. e. in 2010, to the implementation of the second edition and we published again the other, already the third book after four years. Now, nine years later, in 2015 we arrive with its English version. By the change of the book concept and by its extended contents we react to the development which this branch has passed through during the recent years. The book does not bring only the book of the particular machining technologies and the appropriate machine types, but it deals with the whole life cycle of machine tools and it also tries to take a look into the processes of those components which deal with the development and design of machines. This shall facilitate the reader to perceive the whole topic of the machine tool branch which has been experiencing the great boom heard in hand with the high tech development in the recent years and which has highlighted its historical figure.

The book consists of nine sections, while the source literature is stated at the end of each of them. Each figure has its unique number consisting of the section number and of the figure sequence in the section so that it could be possible to refer to the appropriate

figures across the sections of the whole book. I hope that the source of great words for content work with this book is also represented by the list of quoted companies, enterprises and organizations which you can find on the following double page. The names of the companies in the sources are conforming to the time when the particular methods had arisen which we used at the creation of the appropriate sections. Fusion was gigantic and it is impossible to find out at such a broad scope what the current names of the particular company was at the time when the book was published. (Not speaking of the fact that everything can be different after a certain time after the book publishing.)

The essential acknowledgment belongs to the companies and organization without whose financial support this book would not be able to be published. This help enabled us to offer it at a very favourable price. I sympathize with their responsibility for the active participation in the creation of specialized materials contributing to the education and training of the existing and future specialists.

Finally, I would like to underline the importance of mechanical engineering in the structure of inland economy, which brings the need to have educated intelligent people available who know not only theoretical theories but who are also acquainted with



the situation in production sphere. The interconnection of theory and practice is especially needed in machine tool commodity. I believe that this book will contribute to this interconnection and it will present this branch to the young generation as a very stable one and with good prospects.

Roman Dvořák
Main publisher, MM publishing