

1. Record Nr.	UNISA996217062403316
Titolo	Hardrock tunnel boring machines [[electronic resource] /] / Bernhard Maidl ... [et al.] ; in cooperation with Gerhard Wehrmeyer and Marcus Derbot
Pubbl/distr/stampa	Berlin, : Ernst & Sohn, 2008
ISBN	3-433-60140-2 1-282-00791-2 9786612007910 3-433-60012-0 3-433-60013-9
Descrizione fisica	1 online resource (359 p.)
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Disciplina	624.1930284
Soggetti	Tunneling - Equipment and supplies Drilling and boring machinery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Hardrock Tunnel Boring Machines; Preface; Contents; 1 Historical Development and Future Challenges; 2 Basic Principles and Definitions; 3 Boring Operation; 4 Thrust; 5 Material Transport; 6 Backup Equipment; 7 Ventilation, Dust Removal, Working Safety, Vibration; 8 Additional Equipment; 9 Tunnel Support; 10 Gripper TBM and Shield Machine Combinations; 11 Special Processes: Combinations of TBM Drives with Shotcrete; 12 Geological Investigations and Influences; 13 Classification for Excavation and Support; 14 Tendering, Award, Contract; 15 Tunnel Lining; 16 Examples of Completed Tunnels ReferencesIndex
Sommario/riassunto	This book covers the fundamentals of tunneling machine technology: drilling, tunneling, waste removal and securing. It treats methods of rock classification for the machinery concerned as well as legal issues, using numerous example projects to reflect the state of technology, as well as problematic cases and solutions. The work is structured such that readers are led from the basics via the main functional elements of tunneling machinery to the different types of machine, together with

their areas of application and equipment. The result is an overview of current developments. Close cooper
