

Standards and manuals of Mechanized Tunnelling ITA WG-14 published “Recommendations and Guidelines for Tunnel Boring Machine” in 2000, which consists of four individual reports covering the wide variety of mechanized tunnelling from soft ground machines to hard rock machines. We think that it provides the common ground of understanding about mechanized tunnelling in the international society. Since then, we discussed the universal recommendation of mechanized tunnelling and come up to the conclusion that it is impractical to make the universal one, since social conditions are quite different by the countries. For instance, degree of infrastructure development varies and tolerable limits of environmental disturbance both during construction and after completion are quite different. Not only technical conditions but also these social conditions shall be well considered for the machine selection, since they have big impacts to total project costs. Instead of the universal recommendation, we decided to make the report to introduce standards and manuals of mechanized tunnelling in member nations. We hope that this report is used as reference guides for prospective owners of tunnel projects. WG14 Mechanized Tunnelling

Country	Title	Publisher	Table of contents	No. of Pages	How to order a copy	Download	Price	file
Australia (New South Wales)	Code of Practice 2006 : Tunnels Under Construction	Works Cover, NSW		88	<a href="http://www.workcover.n">http://www.workcover.n</a>	<a href="#">Code of practice</a>	free	
Europe	Specification and Guidelines for the use of specialist products for Mechanized Tunneling (TBM) in Soft Ground and Hard Rock	EFNARC (the European Federation of Producers and Contractors of Specialist Products for Structures)	SEE attached pdf file	45	<a href="http://www.efnarc.org/">http://www.efnarc.org/</a>	<a href="#">Specification and Guidelines for the use of specialist products f</a>	free	
Europe	EN 12336 : 2005	European Committee for Standardization	EN 12336:2005 Abstract The document is applicable to all types of shield machines and associated back-up equipment, horizontal thrustboring machines and auger boring machines or parts therefo.It specifies the essential safety requirements for the design, construction and maintenance of such machines together with the methods of verification. Shieldmachines include : Open face shields for both hand and mechanical excavation ; full face tunnel boring machines ; microtunnelling machines. Back-up equipment includes : Towed back-up equipment ; erectors ; pipe jack equipment. Additional equipment which may form an integral part of a shield machine or back-up equipment and is used for compressed air (hyperbaric/plenum) working is not covered by this document.	46	English : <a href="http://bsonlin">http://bsonlin</a>		108.64 British Pounds for the English Version	
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France	AFTES Recommendations on TBMs, Shields and Segmental Lining	AFTES French Tunnelling Society	See attached pdf file	286	<a href="http://www.aftes.asso.f">http://www.aftes.asso.f</a>	<a href="#">Choosing mechanized tunnelling techniques</a>	Free	<a href="#">France.pdf</a>
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Germany	Recommendations for selecting and evaluating tunnel boring machines	Deutscher Ausschuss für unterirdisches Bauen (DAUB)	Complete article included	16	<a href="http://www.daub-ita.de">http://www.daub-ita.de</a>	<a href="#">Recommendations for selecting and evaluating tunnel boring machi</a>	free	
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