

THE COST-EFFICIENT AND SAFE ALTERNATIVE TO TRADITIONAL TUNNEL STEEL ARCHES

B. Zero Tondo™ Tunnel Primary Support System is a tubular steel arch support installed with a dedicated radio controlled three arm erector.

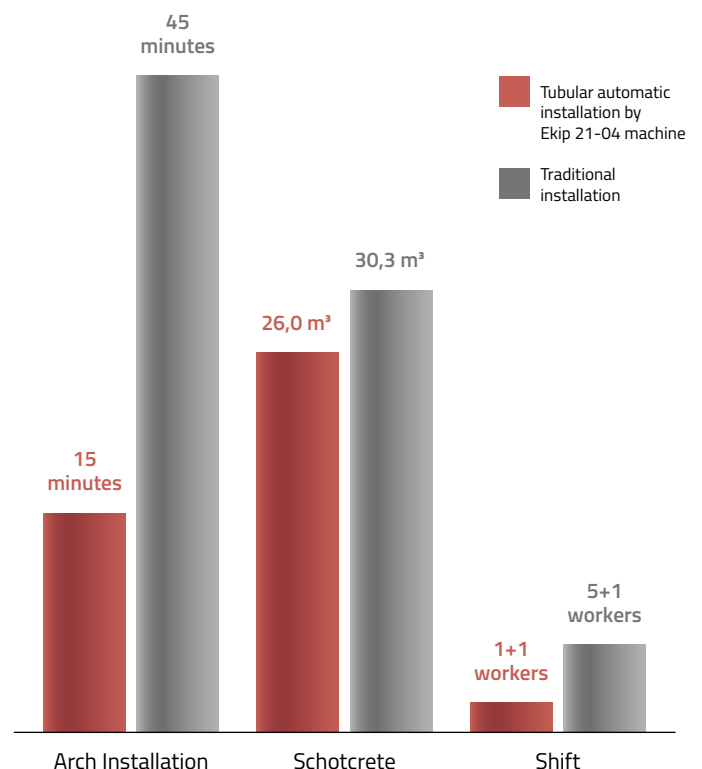
The system has been developed to address the construction demand for a more effective, safer solution and cost efficient alternative to traditional tunnel arch supports. Thanks to its unique characteristics, the system is able to cope with the most challenging ground conditions.

B. Zero Tondo™ is particularly suited to enhance and to enable the actual bonding between steel reinforcement and the concrete sprayed by a dedicated machine.

The system reduces and controls deformations and settlements which may be detrimental to the progress of the tunnelling works and also the risk of damaging the waterproofing system (membrane).

B. Zero Tondo™ is particularly suited to standard machinery using major construction approaches. The advantages of B. Zero Tondo™ are:

- M** Reduction of the workers' risk exposure to the hazardous conditions
- M** Limitation of number of workers deployed to install the supports
- M** Rapid and easy to install



Faster and safer installation compared to a traditional system

B.ZERO TONDO™

B.Zero Tondo™ system has been shortlisted by the International Tunnelling and Underground Space Association (ITA) for the category 'Safety Initiative of the Year' during the ITA Awards 2015.



Installation of B.Zero Tondo™

Officine Maccaferri S.p.A.
Via J.F. Kennedy, 10
40069 Zola Predosa (Bologna) - Italy
T: + (39) 051 643 6000
E: info@hq.maccaferri.com

maccaferri.com