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**Full face tunnel boring machines - Terms and commercial
specification**

全断面隧道掘进机 术语和商业规格

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed by the China Machinery Industry Federation.

This standard by the National Building Machinery and Equipment Standardization Technical Committee (SAC/TC328) centralized.

This standard was drafted unit. China Railway Engineering Equipment Group Co., Ltd., Beijing Institute of Construction Machinery, shield and tunneling technology national priorities

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Full face tunnel boring machine terminology and commercial specifications

1 Scope

This standard specifies the terms, definitions and commercial specifications of full-face tunnel boring machine.

This standard applies to the tunnels, tunnels, tunnels, access roads and pipe construction of all types of full-face tunnel boring machine.

2.1 Full-face tunnel boring machine fullfacetunnelboringmachine

Through the excavation and push forward to achieve full tunnel cross-section molding, and with the surrounding shell of the special machinery and equipment. Mainly include shield machine,

Rock tunnel boring machines, pipe jacking machines.

Circular full-face tunnel boring machine circularfullfacetunnelboringmachine

Full face tunnel boring machine used to construct single circular cross section tunnel.

Profiled cross-section tunnel boring machine non-circularfullfacetunnelboringmachine

For the construction of non-circular (such as rectangular, round, oval, horseshoe, etc.) cross-section tunnel full-face tunnel boring machine.

Inclined shaft full-face tunnel boring machine inclinedshaftfullfacetunnelboringmachine

Full face tunnel boring machine for inclined shaft construction.

2.5 Shaft full-face tunnel boring machine shaftfullfacetunnelboringmachine

Full face tunnel boring machine for shaft construction.

2.6 Shield machine shieldmachine

Under the protection of the steel shell to complete the tunneling, slag, pipe assembly and other operations, the advancing forward full-face tunnel boring machine. Mainly by

Host and supporting system components.

Notes 1. Including open shield machine, earth pressure balance shield machine, slurry balance shield machine.

Note 2. The usual shield machine defaults to a circular shield machine.

2.7 Open shield machine openshieldmachine

Excavation surface open, no closed partition, do not have the pressure balance function shield machine (see Figure 1).