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**ENERGY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

NB/T 11429-2023

Technical specifications for coal mine TBM installation

煤矿 TBM 安装技术规范

(English Translation)

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Reference

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

1 Scope

This document specifies the ground installation site requirements, underground installation chamber requirements, pre-installation preparations, lifting equipment requirements, and other requirements for coal mine TBMs.

Requirements, assembly technical requirements, coal mine TBM assembly, equipment commissioning, and installation acceptance.

This document applies to the installation, commissioning and acceptance of TBM in coal mines.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

Coal Mine Safety Regulations [Ministry of Emergency Management (2022 Edition)]
Standard for the integrity of electromechanical equipment in coal mines [Ministry of Coal Industry of the People's Republic of China (1987 edition)]

3 Terms and definitions

The following terms and definitions apply to this document.

coal mine TBM coalmine TBM by rotating the cutterhead and pushing it forward, the roller cutter squeezes and crushes the rock, and the entire section of the coal mine tunnel can be excavated and formed at one time, integrating exploration, excavation, support and transportation.

A general term for a complete set of equipment.

Assembly tunnel

According to the design requirements, it meets the requirements of TBM assembly and stepping, and is equipped with lifting equipment, ventilation, water supply, gas supply facilities and lighting.

Alley.

Launch tunnel

It can accommodate the TBM main machine so that its support shoes can support a section of the tunnel wall.

Front shield the front section of the shield of a shield-type coal mine TBM is mainly used to support the main drive.

Telescopic shield

Located between the front shield and the support shield, it consists of two parts, the inner and outer parts, which move relative to each other and can protect the safety of equipment and personnel in the area.

Ring housing.

[Source. GB/T 41056-2021, 3.10] 3.6 supportshield A shield used to hold the cave wall tight.