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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25603-2010

**Earth-moving machinery -- Horizontal directional drills --
Terminology**

土方机械 水平定向钻机 术语
(English Translation)

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Foreword

This standard is identical with ISO 21467:2004 "moving machinery - Horizontal directional drilling terms and specifications" (in English).

This standard is equivalent to translate ISO 21467:2004.

For ease of use, this standard made the following editorial changes.

- "This International Standard" be replaced by "this standard";
- Remove the foreword to international standards;
- Standard because there is no "standard" content, it will be the standard name to "moving machinery - Horizontal directional drilling term", the English name Also amended accordingly;
- Delete Figures 6, 7, 8, 9, FIG footnote a, to direct labeling;
- Of ISO 21467:2004 international standard referenced with the international standard has been adopted as a standard in place of the corresponding;
- English index increases.

The standard proposed by China Machinery Industry Federation.

This standard by the national earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

This standard was drafted. Tianjin Construction Machinery Research Institute.

1 Scope

3.1.1 This standard specifies the terms defined in the horizontal directional drilling rig.

This standard applies to non-driving style, driving style, type and start excavation machine

with attachments.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) GB/T 16936 earthmoving machinery net engine power test specification (GB/T 16936-2007, ISO 9249:1997, MOD)

3 Terms and Definitions

GB/T 8498 and established the following terms and definitions apply to this standard.

3.1 General terms

3.1.1

Horizontal directional drilling horizontaldirectionaldrilingmachine the machine uses an adjustable to control the drill bit attached to the end portion of the drill string for drilling horizontally underground.

Figure 1 to Figure 4.

Note 1: When drilling can be sprayed through the drill string to the drill liquid used in the drill bit mounted near the sensor or pulse signal transmitters to track hole, then back to expansion Reaming.

Note 2: The horizontal directional drilling rig is generally parallel to the ground or their job to 30 ° angle drilling rack exerting a force on the drill string.

3.1.2

Bore bore

Mainly used in underground tunnels utilities installed.

3.1.3

Drill string drilstring Only a drill or connected together, the force can be transmitted from the drilling rig to drill the ground or drill bit back expansion.

Note: The steering is also used to rotate the drill positioning.

3.1.4

Drilling rig drillframe Structure on the horizontal directional drilling, it can rotate and thrust/pullback force is transmitted to the drill string.

3.1.5

Back expand backreaming by dragging back to the large aperture ratio of the equipment has been formed, to expand the bore process.

3.2 Dimensions

3.2.1

Machine total length overallmachinelength in the transport position, the longitudinal distance between the most distal end of the plane.