
**Earth-moving machinery — Horizontal
directional drills — Terminology and
specifications**

*Engins de terrassement — Machines de forage à direction
horizontale — Terminologie et spécifications*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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Earth-moving machinery — Horizontal directional drills — Terminology and specifications

1 Scope

This International Standard establishes terminology for horizontal directional drilling machines as defined in 3.1.1. It is applicable to non-riding, ride-on, pit-launched and attachment-mounted machines.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6165, *Earth-moving machinery — Basic types — Vocabulary*

ISO 9249, *Earth-moving machinery — Engine test code — Net power*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6165 and the following apply.

3.1 General

3.1.1

horizontal directional drilling machine

machine that uses a steerable cutting head attached to the end of a drill string for creating a bore through the earth in a horizontal direction

See Figures 1 to 4.

NOTE 1 Drilling can include fluid injection through the drill string to the cutting head, tracking of the bore by use of sensors or a transponder near the cutting head and subsequent enlargement of the bore by backreaming.

NOTE 2 These machines typically apply force to the drill string using a drill frame parallel to, or inclined up to, 30° relative to the operating earth surface.

3.1.2

bore

hole produced underground used primarily for the installation of service utilities

3.1.3

drill string

one or more pieces of drill pipe joined together which transmit forces from the drill frame to the cutting head or backreamer that cuts the earth

NOTE It is also used to rotate the cutting head to position it for steering.