

Mining and exploration: drilling tools



DIAMOND
DRILLING PRODUCTS

[EHWA](#)

Original document: diamond drilling tools

Consider the application and tool together

The drilling documents cover diamond tools for exploration and core recovery. Tool, drill string and rock are considered together when selecting a design. The originals contain bit forms, sizes and guidance for the respective application.

This edited overview provides an introduction to the tool family. Complete original tables and illustrations remain accessible through the source links. You can move from the described operation directly to a technical discussion of your application.

Applications and tool assignment

Application or feature	Tool and assignment
Core recovery	Diamond core-drilling tools
Rock formation	Matched bit design and bond
Drilling system	Compatible size and connection
Process selection	Speed, feed and flushing considered as a system

Tool features and benefits

Drilling performance depends on consistent penetration, useful tool life and recovered-core quality. A tool matched to the rock supports cutting and removal of processed material. The documents distinguish sizes and conditions; their settings are not combined into a universal table for every formation.

From your application to a tooling solution

Please state rock type, abrasiveness and known formation characteristics. Drilling system, core diameter, drilling depth and available flushing are also important. Existing bits and previous tool life help select a suitable design and a meaningful comparison.

Start with the information already available. An existing tool, a photo or a drawing is often a useful starting point. Also discuss your goal: replacing an existing design, improving surface quality or reducing tool changes and machining time. Comparisons record quality, time and useful output together; missing information can be added during the technical discussion.

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[Request tool selection](#)

Further original documents

- [Mining and exploration: drilling tools - 2020 drillning-products-1](#) · Original PDF, 8 pages.
- [Mining and exploration: drilling tools - 2020 drillning-products](#) · Original PDF, 8 pages.
- [Mining and exploration: drilling tools - mining-bits](#) · Original PDF, 8 pages.

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