

Tools for electric mobility



Carbide drills from the EHWA source document

Consider the application and tool together

The electric-mobility documents address specific manufacturing tasks on housings, drivetrain components and CV joints. They combine carbide drills, PCD/PCBN tools and application-specific special tools. The cutting material is assigned to the particular material and operation.

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
Aluminum alloys	Carbide drills and matched drilling geometries
Housing bores	Special boring tools
CV joints	PCBN endmills
Drivetrain components	Insert matched to material and cut
Tool data	Complete code, interface and cutting geometry

Tool features and benefits

The illustrated drills and cutting tools target high machining performance, consistent accuracy and durable cutting edges. The source shows four- and six-flute PCBN endmills. This makes the designs comparable without deriving a general tool-life improvement for every application. Product names are retained so that existing tools can be discussed clearly.

From your application to a tooling solution

Please state alloy or steel grade, heat-treatment condition, bore/profile drawing and machine. For stepped tools, the required diameters and depths are important. The term electric vehicle identifies the industry, not the material suitability of every tool.

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

- [Tools for electric mobility - 5.Electric-Vehicle](#) · Original PDF, 10 pages.

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