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## Finish-boring tool with ER connection clamps to ER collet chuck for high rotational accuracy

Swiss Tool Systems AG has introduced the EcoLine finish-boring tool, an innovative development that includes a built-in ER connection which enables the tool to be directly attached to an ER collet chuck. This is a world first, the supplier said.

The ER connection allows users to save on tooling costs by eliminating the need for a master shank and extensions or reductions. According to Swiss Tool Systems, the breakthrough clamping concept, which includes a chuck cone grip and face contact, delivers very good rotational accuracy, maximum rigidity and a very strong retention force. Collet chucks that have an ER



Source: Swiss Tool Systems

the clamping device by means of a clamping nut. The tool and the chuck cone of the clamp are said to form a single unit, and behave as such. Because the resulting conical and planar connection is extremely rigid, high precision is ensured.

The supplier noted that the ER clamping technology delivers a stable connection comparable to that provided by HSK-T and Big Plus clamping systems but with a sizable cost advantage. For one thing, additional clamping elements such as collets are not required.

connection as specified in DIN 6499 are widely used in mechanical workshops around the world.

The ER connection provides manufacturers with a rigid tool for finish-boring

whose clamping principle is similar to that of HSK systems, the company said. The monoblock EcoLine system, consisting of the boring tool and an integrated chuck cone, is simply screwed onto

» **Swiss Tool Systems,**  
Bürglen, Switzerland.  
[www.swisstools.com](http://www.swisstools.com)



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