#b&m goesgreen



b&m-ECCO TEC®

The smart alternative to expensive turned part manufacturing

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The smart alternative to expensive turned part manufacturing: With b&m-ECCO TEC®, conventional long turned parts with various external contours can be manufactured precisely, quickly, and, most importantly, resource-efficiently – WITHOUT ANY CHIPS.

The b&m-ECCO TEC® non-cutting process revolutionizes the production of rotationally symmetrical components, offering a wide range of external contours – not only with precision and speed, but also with great efficiency in terms of resources and energy.

With this technology, baier & michels fully leverages the advantages of cold forming. The b&m-ECCO TEC® process delivers incredibly high cycle rates, maximizes raw material usage, and ensures a superior strain hardened surface quality. It also unlocks unprecedented potential for designing external geometries: undercuts, gears, grooves, and slots are just as achievable as complex profiles and functional surfaces with tight tolerances.

By adopting the principle of forming instead of cutting, b&m-ECCO TEC® ensures short process times and high output of parts. This method not only reduces manufacturing costs but also minimizes the ecological footprint.



Project examples





Features

- **Diameter:** 3 mm – 25 mm
- **Materials:** steel, stainless steel, brass
- **Lengths:** 10 mm – 250 mm
- **Geometric properties:** profiles, gears, undercuts, slots, grooves, knurls, chamfers, threads

Benefits

- Suitable for efficient mass production
- Lower manufacturing costs and times compared to machining
- Non-cutting process improves the environmental footprint
- Strain hardening and high surface quality
- Component-based optimization advice

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