

BÖNI AG. MARKING AND KNURLING TOOLS.



Quality and Cost-Effective Technology.

MARKING. BÖNI AG.



Marking of parts and products has become a requirement for total traceability and complete manufacturer documentation/verification. Even small, sophisticated items must be labelled with one or other form of production data, supplier disclosures, batch numbers, logos, material quality, date or other information.

For parts that are manufactured on CNC lathes, multi-spindle machines and both long and short-turning machines, the most efficient solution is direct on-machine labelling.

Our roll marking tools work primarily on the principle of a spring loaded marking roll. As soon as the inscription is completed and the marking tool has retracted, the marking wheel automatically returns to its original starting position by means of a spring. The tool is then ready again for a new inscription and the whole process takes place in a fraction of a second. This is marking of the highest quality with maximum efficiency.

System advantages over other marking methods:

- Separate machines, adapters or clamping systems are totally eliminated as the part is already securely fitted to the production machine
- Marking takes place in less than a second
- The marking tool is set up like a turning tool
- Manual setup on separate marking machines is eliminated
- Once in place, the marking tool eliminates the need for additional handling such as way or wait times and separate time-wasting setting up of external marking machines
- Every part leaves the production line marked, leaving no chance of confusion
- Reduces production costs/unit cost

Technological advantages over other products or manufacturers:

- All marking tools are equipped with needle bearings and/or axial bearings for maximum performance
- Retraction springs for fast production processes
- Shortest labelling time compared with all other marking systems available
- Retraction spring system eliminates any chance of double marking

KNURLING. BÖNI AG.



High class quality knurling tools are one of the most important items of machinery in today's businesses. In order to maximise the use of expensive capital equipment such as lathes and machining centres, knurling tools need to be optimally matched to the machine in order to achieve optimum life expectancy.

From the 1970's onwards BÖNI AG has been a specialist in the manufacturing of machine-friendly knurling tools. Alternative bump knurling tools did not meet the quality requirements and standards of Böni AG and the knurling results of those tools were basically inferior.

Our engineers have developed the principle of a tangential knurling system, the straddle holder. The knurling wheels are on the machine centre, 180° tangential on opposite sides. Operating forces which occur are absorbed by the knurling tool, regardless of whether it is cutting or forming. Thin and long items can be perfectly knurled to the highest quality. By choosing the appropriate knurling wheels, the part/product can be formed (cold rolled) or cut (milled).

As a result, our knurling tools comply with the highest requirement for modern construction machines and reliable precision tools, while achieving the best cost-benefit ratio results.

System drawbacks of side knurling (bump knurling tools):

- Increased costs due to complicated and unreliable handling
- Heavy, lateral and long-lasting forces stress the machine and ball screw, resulting in more frequent repair costs
- Owing to the high force of the tool pressing against the part/product, this can bend it
- As a result of bending of the part/product during the knurling process, the finished knurling diameter will not be even

System advantages of tangential BÖNI knurling:

- Tangential design for perfect handling, even of thin or lengthy parts
- No side pressure for a notably gentler knurling process
- Knurling tools equipped with needle roller bearings
- Modular knurling system for the optimal balance of cost, benefit and performance

BÖNI AG is a third-generation family owned company. Our decades of experience in the development and manufacture of precision tools is the basis for our technology-leading marking and knurling products.

Apart from having a large standard range of products, our strengths also lie in our custom-made solutions. Through these application-specific tools, we increase the efficiency and profitability of our customers in key global technology markets and would be happy to welcome you to our ever-expanding group of customers.



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