

**KNOW-HOW from P&S**  
**for YOUR ADVANTAGE.**

# HMT-SF micro

cutting machine - flexible



## The Machine



The HMT-SF micro is a fully automated system which was developed for cutting and chamfering smallest round bars made of a wide variety of materials such as carbide, hss, ceramics, etc..

Due to the convenient loading from outside of the machine the production can continue and does not lead to any downtimes

- Compact design
- Durable mechanical engineering
- Easy to operate
- Loading capacity up to 150 pcs.
- Diameter range Ø 0,68 – 4mm
- Rods lengths min. 75mm – max. 340mm
- Cutting lengths min. 2mm – max. 40mm
- Variable cutting feed
- Cutting accuracy  $\pm 0,02\text{mm}$
- Rod length control
- Rod diameter control

## Loading



Blanks are getting placed in the outside magazine either manually by hand or automated

- Enter the desired length as well quantity on the touchscreen
- Press Start button
- The outside magazine moves into the machine, places the bars on the inner magazine and returns to home position. As soon as the home position was reached the outside magazine can be loaded again at any time while the machine is already in production

## Input Check



- The rods are getting automatically loaded from the inside magazine into the prism, positioned, clamped by a collet and cut
- Before the rod is positioned for cutting the rod length and rod diameter are checked



## Cutting



- Thanks to the integrated sharpening unit the cutting wheel can be sharpened automatically during the cutting process
- Checking of the cutting wheel through the automatic diameter check

## Parts Suction Unit



- The cut parts are getting extracted from the clamping unit to the removal station by using optimized extraction tubes for the different part sizes

## Parts Sorter



- As soon as the cutting process is completed the cut parts are getting transported to the removal station where they are getting sorted
- Good parts and off-cuts are getting separated from each other and sorted into different buckets



## Options:

- Additional chamfer grinding station [for processing both end faces]
- Machine data acquisition [MDA]
- Oil mist suction
- Compact fire protection system
- Coolant filtering system
- Coolant return pump tank



dewaxed rods cutting machine - cutting machine - chamfer grinding machine  
everything from a single source

[www.ps-maschinenbau.de](http://www.ps-maschinenbau.de)



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