



minimise for growth

with

GMI and EG5T



*... damit alles glatt geht
... for a smooth operation*

Tools for Swiss-Type Lathes

Structure:

1. Who, what, how, why – whereby?
2. GMI
3. EGT5
4. Comparison big / small
5. Applications
6. Summery

Tools for Swiss-Type Lathes

Who ?

- Mass volume manufacturer
- Small volume manufacturer
- Small companies

What ?

- Standards
- Midget work pieces
- e.g. Pump elements
- Med. Impliments



Samples for Swiss-Type machined parts



Tools for Swiss-Type Lathes

How ?

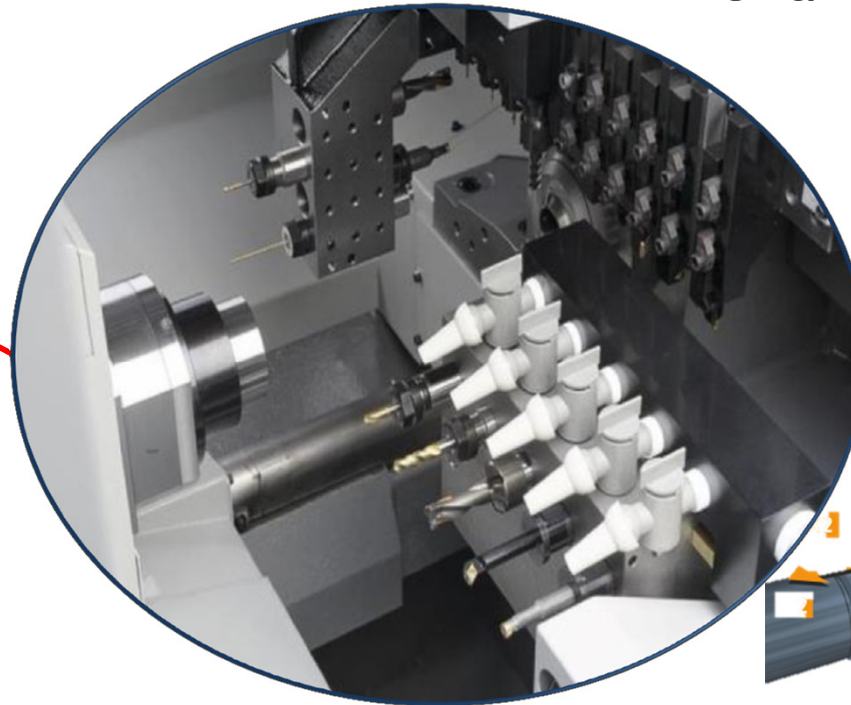
- Swiss-type lathes
- Multi-spindle lathes
- Rotary transfer machines

Why ?

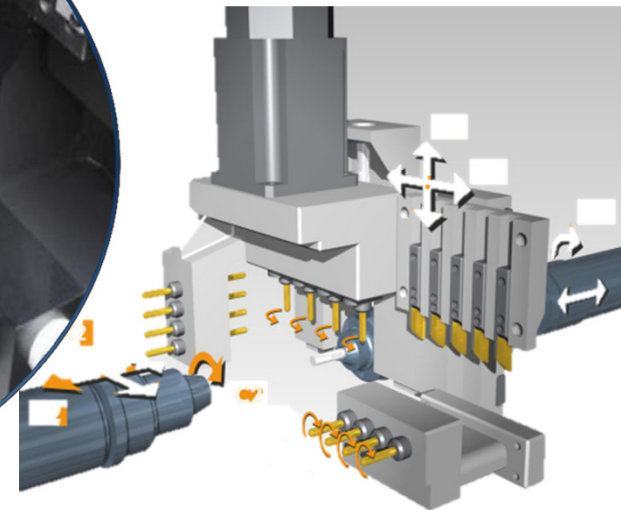
- special clamping
- filigree work pieces
- small work space



Citizen L20



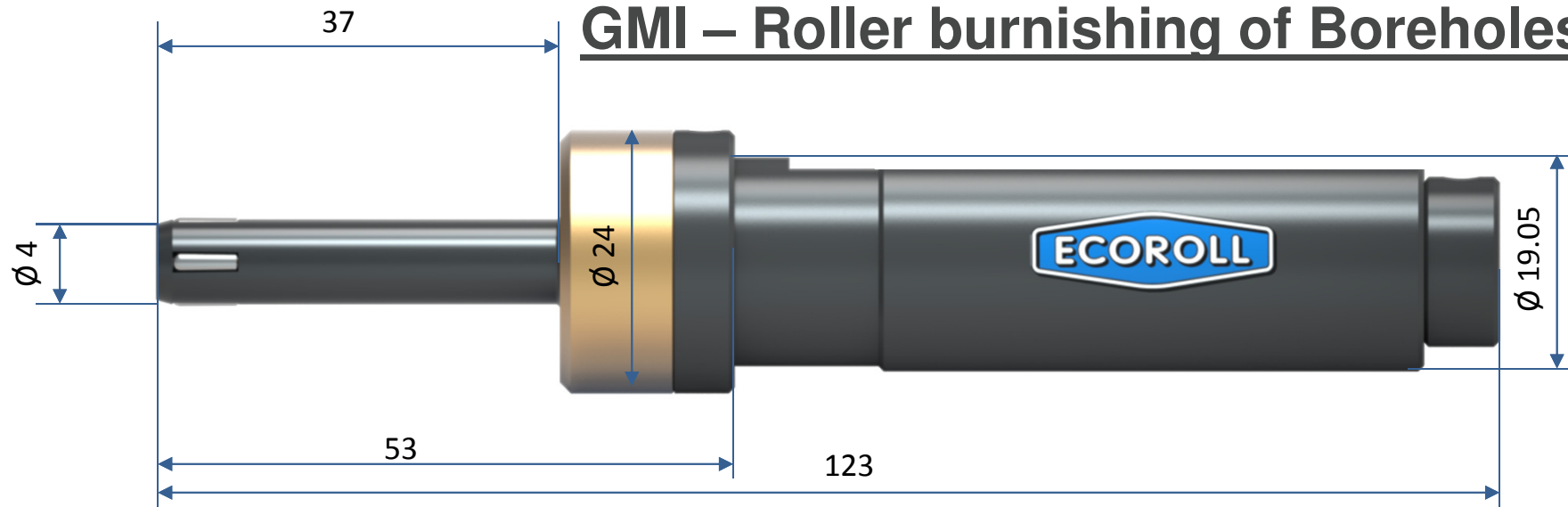
Working space



Working space schematic

Tools for Swiss-Type Lathes

GMI – Roller burnishing of Boreholes

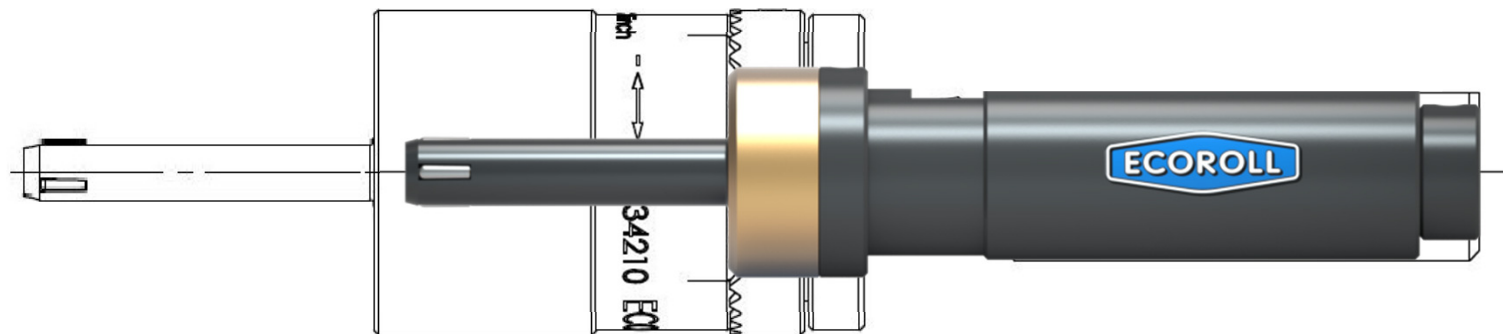


- For burnishing starting from $\varnothing 4$ mm
- Setting at the tool shank
- Minimised projection length
- Standard Rollers



Tools for Swiss-Type Lathes

Comparisation: GMI / Standard G-Tool



Proportion between standard G-type-tool to GMI-tool

Similar:

- Function
- Rollers
- Tool shank
- Process parameters
- Pre-machining
- Consumable parts



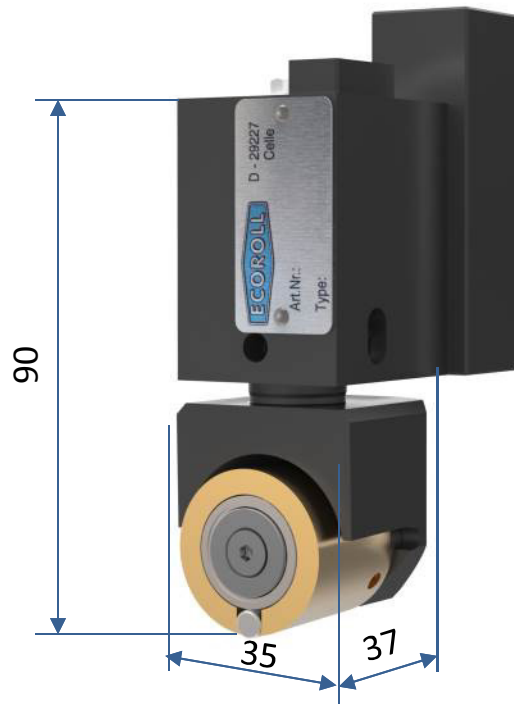
New:

- Setting
- Projection length
- Setting range
- Diameter adjustment



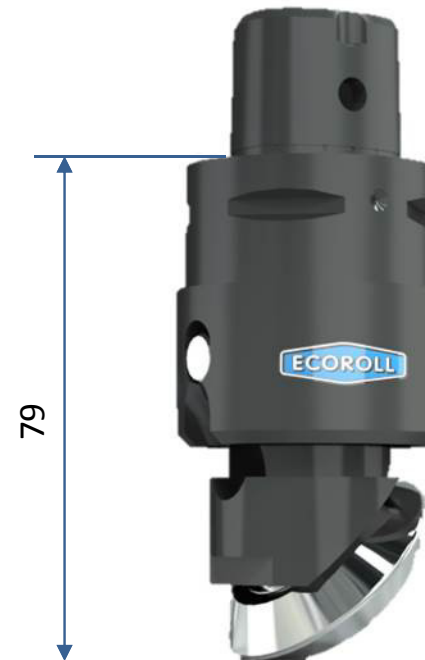
Tools for Swiss-Type Lathes

EGT5



Circumferential speed v : 30 – 150 m / min.
Feed f : 0,05 – 0,3 mm / U
Rotating direction: Clock- or counter-clockwise
Burnishing force F max.: 2100 N

EGT5-40M



Circumferential speed v : 30 – 200 m / min.
Feed f : 0,05 – 0,5 mm / U
Rotating direction: Clock- or counter-clockwise
Burnishing force F max.: 3000 N



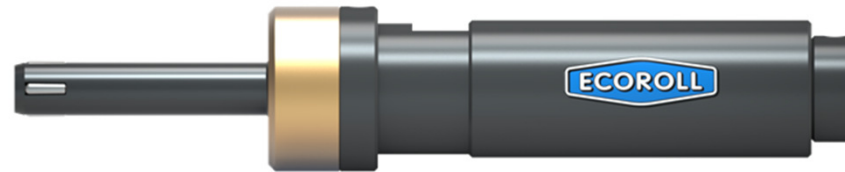
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Tools for Swiss-Type Lathes

EGT5



GMI



EGT5-40M





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Tools for Swiss-Type Lathes

Summary

- Compact tool Dimensions
- Optimal for limited working space
- Well known functionality
- Simple Handling
- Standard Rollers
- Almost similar machining parameters
- Identical process functions



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