

APPLICATION SHEET

Whirling of hydraulic-steering worms

Requirements of an economic production of hydraulic-steering worms:

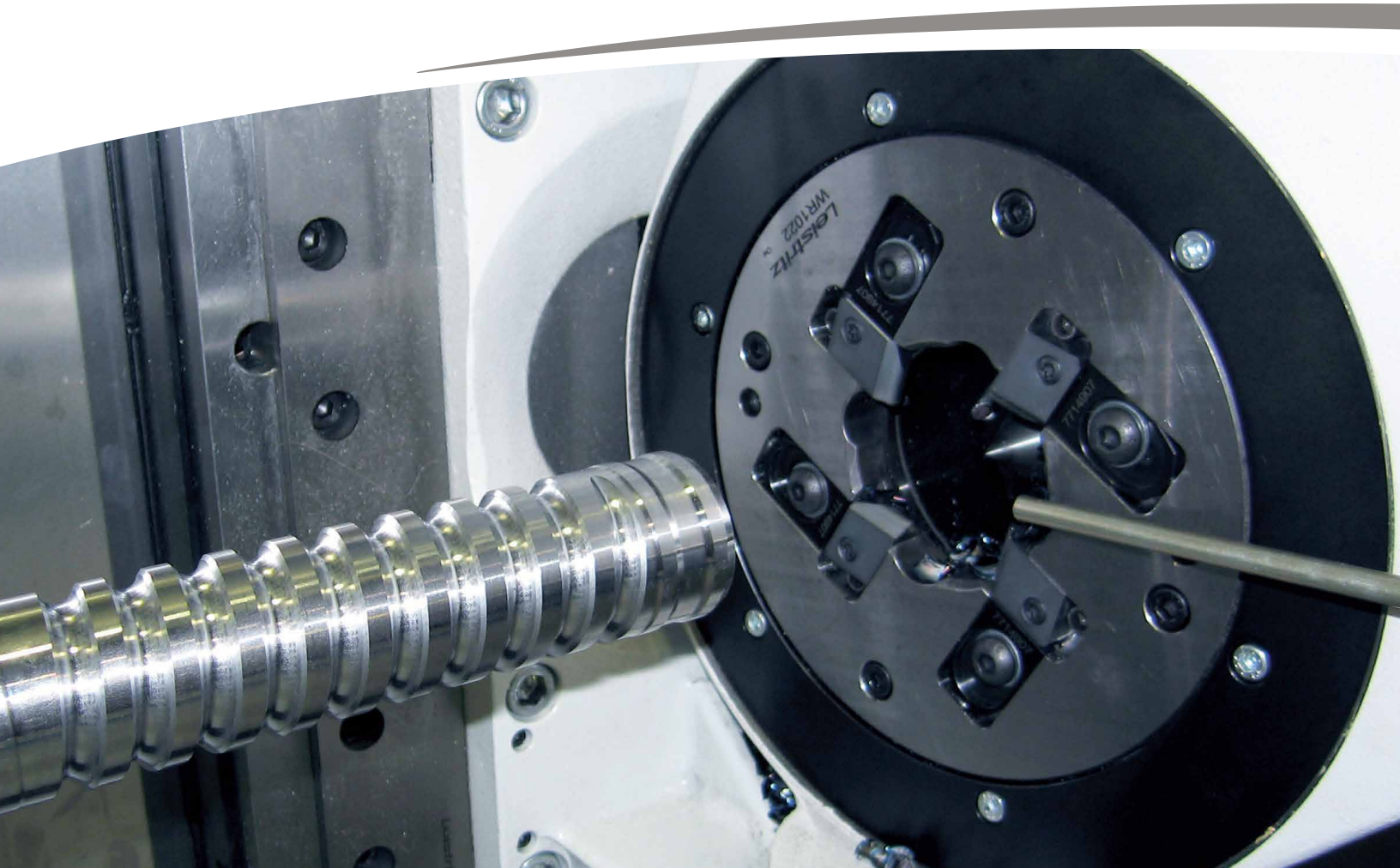
- Finish machining
- Surface in finishing quality
- High profile and pitch accuracy
- Short set-up and tool-change times
- High process capability
- Long tool life
- Dry cutting
- Machining of soft and hardened materials

Economics:

- No costs for coolant
- Finishing quality with low investment
- Dry cutting, therefore simple chip disposal
- Reduction of cycle times

Reliability and flexibility:

- Simple operating and interactive programming
- Pre-adjusting of tips and holders with adjusting device, accuracy 0.01 mm
- Central lubrication system for guideways and ball screws
- All axes CNC-controlled
- Complete protection of all guideways and drive units
- Tailor-made solutions with modular design
- Steep bed and short chips for firm chip flow





PROFILE WHIRLING MACHINE LWN 90

Precision:

- Direct measuring system in all axes
- Rigid bed design with preloaded slide guideways
- Precision workpiece clamping system
- High precision spindle and unit bearings



Whirling unit



Tangential whirling tool for machining hydraulic-steering worms

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