

## APPLICATION SHEET

### Hard whirling of ball screws

#### Requirements of an economic production of ball screws:

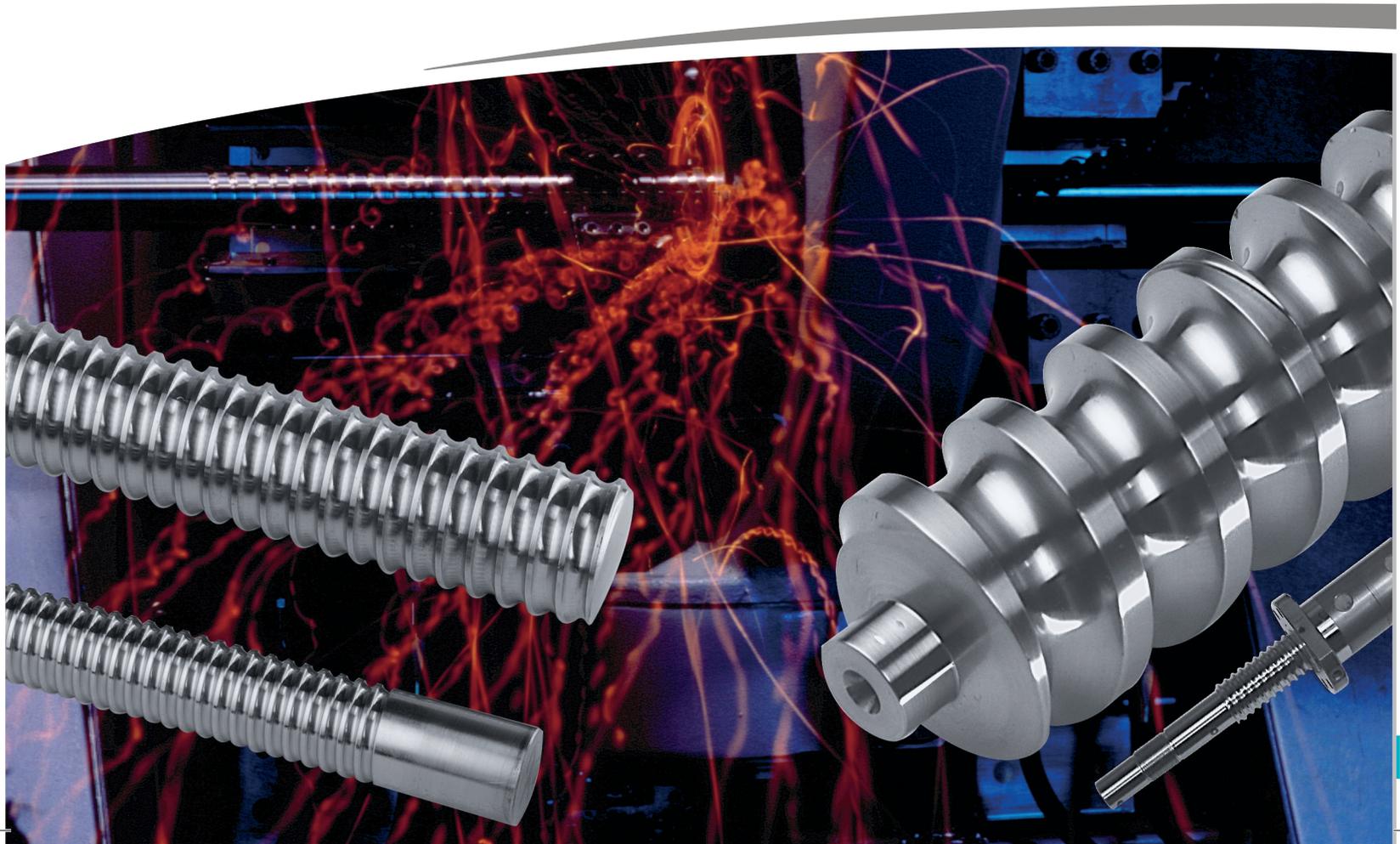
- Finish machining
- Surface in grinding quality
- High profile and pitch accuracy
- Short set-up and tool-change times
- Flexibility for small batch sizes
- Long tool life
- Dry cutting
- Machining of hardened materials

#### Economics:

- No costs for coolant
- Grinding quality with low investment
- Dry cutting, therefore simple chip disposal

#### 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
- Complete protection of all guideways and drive units
- Tailor-made solutions with modular design
- Steep bed and short chips for a firm chip flow





## PROFILE WHIRLING MACHINE LWN 160.1.4000

### 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 tool with centering clamping rests in working position*



*Radial whirling tools for machining hardened ball screws*

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