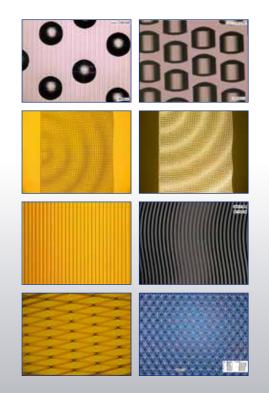
PRECISION MADE BY KUGLER

New features for a variety of processes:

- Pre-machining
- Mirror finish
- Single-spiral cut
- Multi-spiral cut
- Plunge cut
- Cross hatched grating
- Pyramidal structure
- Sine wave structure
- Fast Tool Servo (FTS) structure
- Micro milling | Micro drilling



DRUM TURNING LATHES TDM-1600 I 2000



MEET PRECISION!

MEET EXPERTISE, KNOW-HOW, EXPERIENCE!

GET IN TOUCH WITH KUGLER



LEADING IN ULTRA PRECISION MICRO MACHINING

NCCE23





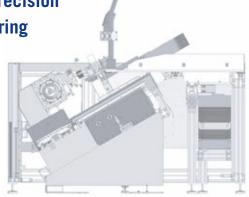




PRECISION IN A NEW DIMENSION

Drum Turning Lathes TDM 1600 | 2000

- Large Capacity
- Multi-Axis Design
- Ultra-Precision
 Structuring



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Ultra-precision systems specially designed for:

Diamond Turning of Optical Micro Structures on Roller Drum Surfaces

What do you need? Make your choice!

New high-grade features for enhanced customer value:

• BRAND-NEW High-grade software for easy and fast programming of complex structures

 BRAND-NEW Single- or dual-axis Fast Tool Systems (FTS)

Great variety of application fields:



DATE: Pattern Generator (KPG)



Easy to use CAM Program NC programs based on customer's pattern location files

- Bitmap import or regular/ random pattern
- Dot Trapezoidal Freeform shapes
- Pattern analyzing functions
- Shape tuning functions
- · Tested program size: > 500 GB
 - Stroke: 40/75 μm Single-/Dual-axis
 Direct drive (no flexure transmission)
 Bandwidth 1500 Hz (-3 dB)
 Up to 800 dot shapes / second



Application examples

- Functional films for display technology: Diffuser plates, Light guide plates, Anti-reflection films, Anti-spy films **>>>** For watches, smartphones, tablets, TV-sreens, industrial and medical instrumentation,...
- Decorative films

>>>NEW! FTS-40

>>>NEW! FTS-40/75

- Holograms & safety features
- Lighting: Microlens optics for LED lamps, LED fixtures, Decorative elements



Turning diameter: 180 – 600 mm Machining length: 2000 mm Workpiece weight: 3000 kg All axes hydrostatic (Y, A, C and Z)

TDM-2000

KUELER

TUN 20001-

JANEW! V-Groove Generator (KVG)



 CAM program for KUGLER TDM series
 Creates NC-programs for different V-Groove structures
 Cutting options:
 Plunge cut
 Single spiral OR multi spiral (e.g. 1High/3Low)

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