



OptoTech

# FLASH-A NG

Digital Surfacing Machine



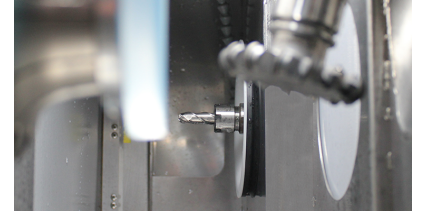
The FLASH-A NG is the most recent member of our FLASH series. Considerably increased speed of the workpiece spindle, combined with an optimized Fast-Tool and a new designed auto loader, leads to significant improvements in quality and quantity. The combination of an optimized ultrafast tool spindle and a high-performance controller make the FLASH-A NG one of the most efficient digital surfacing-turning machines on the market.



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## Technical Data

|                                       | FLASH-A NG                                                                                                                              |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Application                           | Digital Surfacing-Turning Machine                                                                                                       |
| Lens Diameter                         | 40 mm - 85 mm                                                                                                                           |
| Working Range Radius cv               | Milling -15 dpt / Turning -30 dpt.                                                                                                      |
| Working Range Radius cx               | Milling and Turning +30 dpt.                                                                                                            |
| Control                               | Beckhoff high resolution real-time continuous path control 15" touch screen with interactive user interface                             |
| Lens Material                         | All organic Materials                                                                                                                   |
| Productivity                          | 50 lenses/h - 160 lenses/h; depending on process                                                                                        |
| Tools                                 | Milling Tool: PCD milling tool ø66mm R6.0 HSK;<br>Turning Tool 1: Natural diamond tool R2.0 mm;<br>Turning Tool 2 (Option): PCD R5.5 mm |
| Workpiece Spindle                     | Drive: Direct driven with high precision ball bearing concept;<br>Interface: Collet Chuck ø43 mm DIN 58766                              |
| Air Pressure Requirement              | 6 bar                                                                                                                                   |
| Power Requirement (others on request) | 8 kW / 400 V / 50 Hz                                                                                                                    |
| Dimensions                            | Width: 1735 mm, Height: 1740 mm, Depth: 1975 mm                                                                                         |
| Weight (approx.)                      | 2750 kg                                                                                                                                 |
| Disclaimer                            | All data are subject to change without notice. Please verify details with OptoTech.                                                     |





## Highlights

- The new 4-axis machine FLASH-A NG is designed for the production of prescription lenses made of plastic
- A high dynamic drive concept combined with an ultrafast computer controller enable highest precision in freeform surfacing within shortest processing times
- For processing backsideprogressive, atoric, individual, front progressive and standard toric surfaces
- Integrated cribbing spindle for lenses with a very small diameter (option)
- Optimized automatic loading system for shortest loading/unloading
- Special machine base for highest precision
- Mass optimized Fast-Tool highspeed linear drive with highest dynamics

## Performance Characteristics

- Cut to smooth: approx. 160 surfaces / hour
- Cut to polish: approx. up to 80 surfaces / hour (Spherical / torical or A-torical)
- Cut to polish: approx. up to 80 surfaces / hour (Freeform)

## Options

- Cribbing spindle
- Coolant tank
- Coolant finest filter
- Barcode hand scanner
- Remote diagnosis
- LAN connection