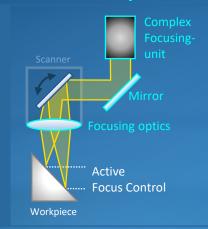
Example - Micro-Machining

Medical Product Marking with Lasers

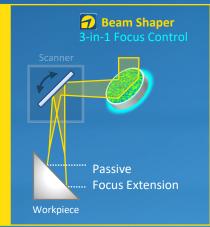




Previous system



New system



Challenges for laser marking systems

- Precise marking on uneven surfaces
- · Optimization of rejects and speed
- · High-cost pressure

Midel beam shaper enables new generation of systems

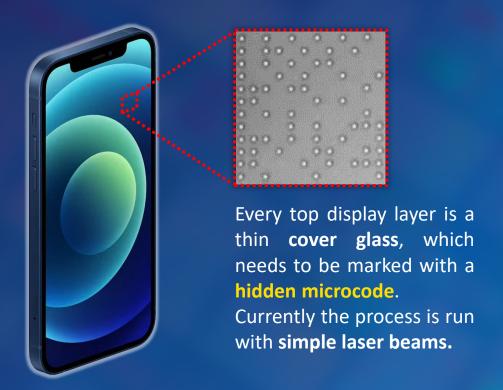
- Simplified and cost-efficient system
- Precise and fast marking
- ✓ Process reliability minimizes rejects

Our passive beam shaper replaces the functionality of a complex focusing system

Example - Micro-Machining

Laser Marking of **Smartphone Cover Glass**





Problem

Laser markings penetrate deeply into glass (drop shape)

- -> Production Rejects
- -> Limited phone thickness

Need

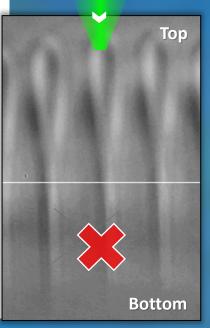
Customized beam shape, with less intensity in center to suppress deep tail.





Shaper





Side View of Markings