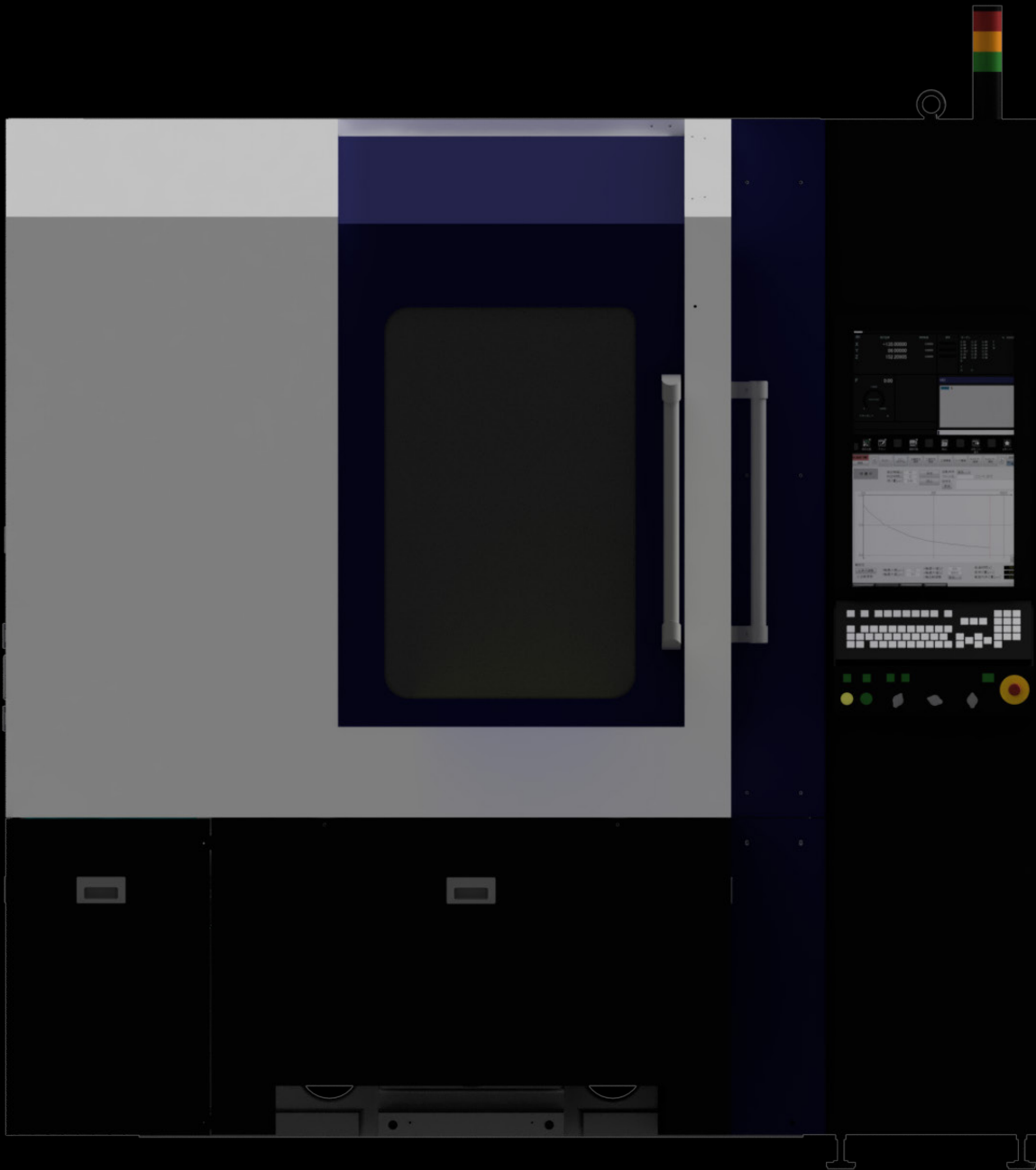


# Shibaura Machine

## UVM-450D(H)

EXAMPLES OF THE FEASIBILITY



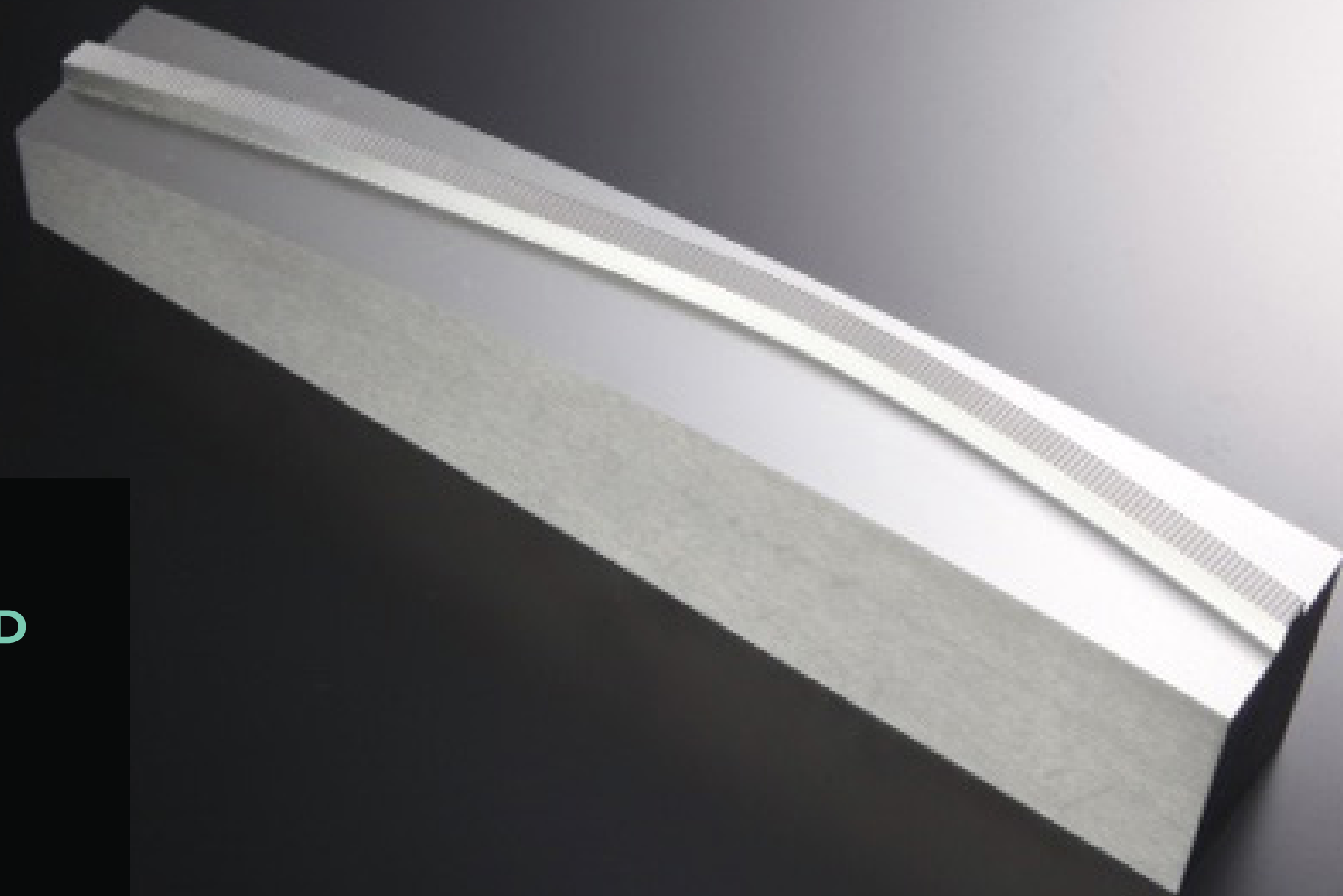
## LIGHT GUIDE MOLD

CLEARANCE LAMP

Material:STAVAX HRC52

Finishing tool:Ball endmill R0.1 cBN

Roughness:33nM





## AUTOMOBILE HUD

Material:STAVAX HRC52

Finishing tool:R2 mm R2 mm single crystal diamond bite

Form accuracy:1  $\mu$ m P-V

Surface roughness:7 nm Ra

Finishing time:10 h

## REFLECTOR MOLD

Material: Ni-P Electroless nickel phosphorus plating

Finishing tool: R1 mm Single crystal diamond ball endmill

Surface roughness: 9.7 nm Ra

# FLEX REFRECTOR

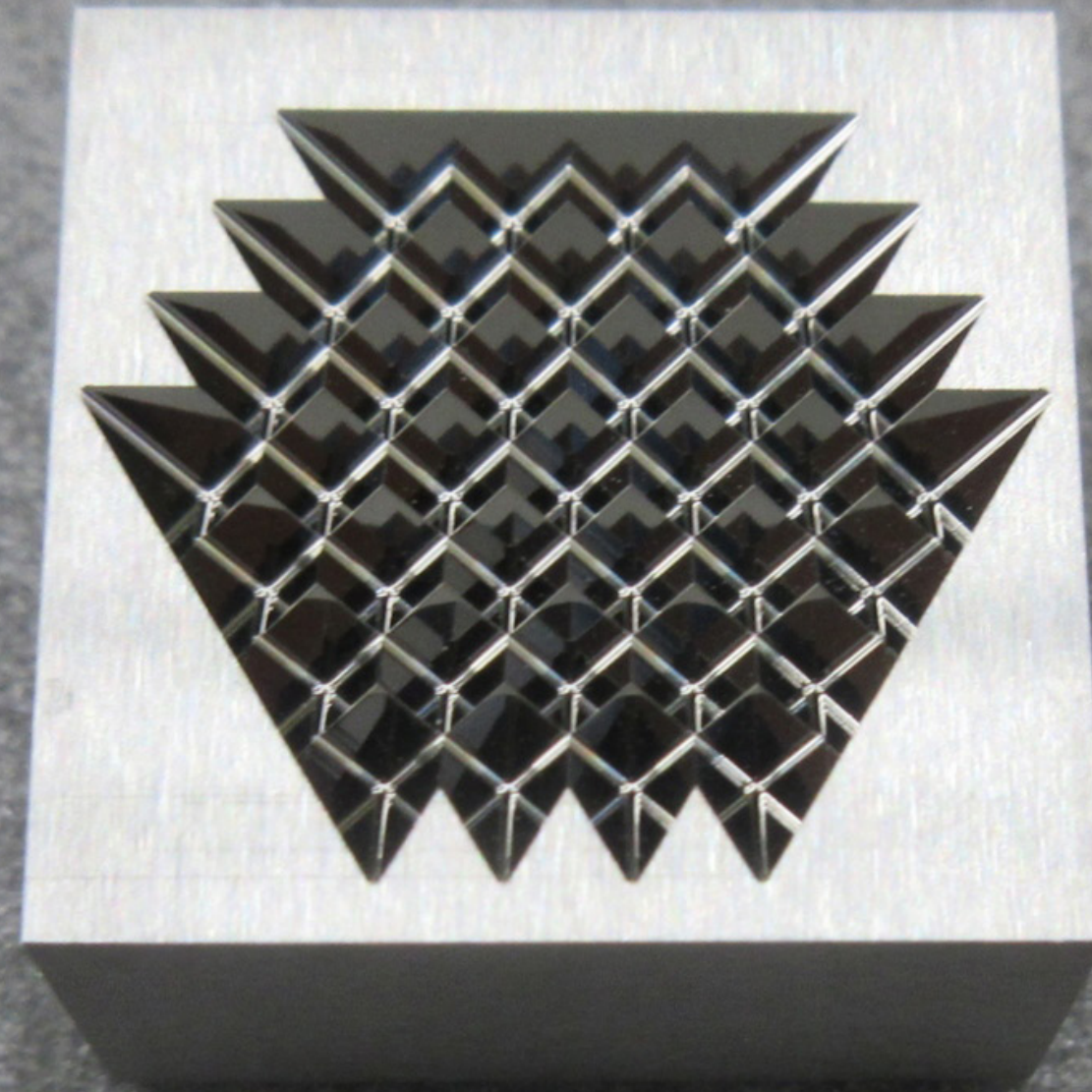
Prism mold

Material: STAVAX HRC52

Tooling: Ball endmill R0.2 PCB

Cycle time: 17h40min

Roughness: 19nm



## FLEX REFLECTOR

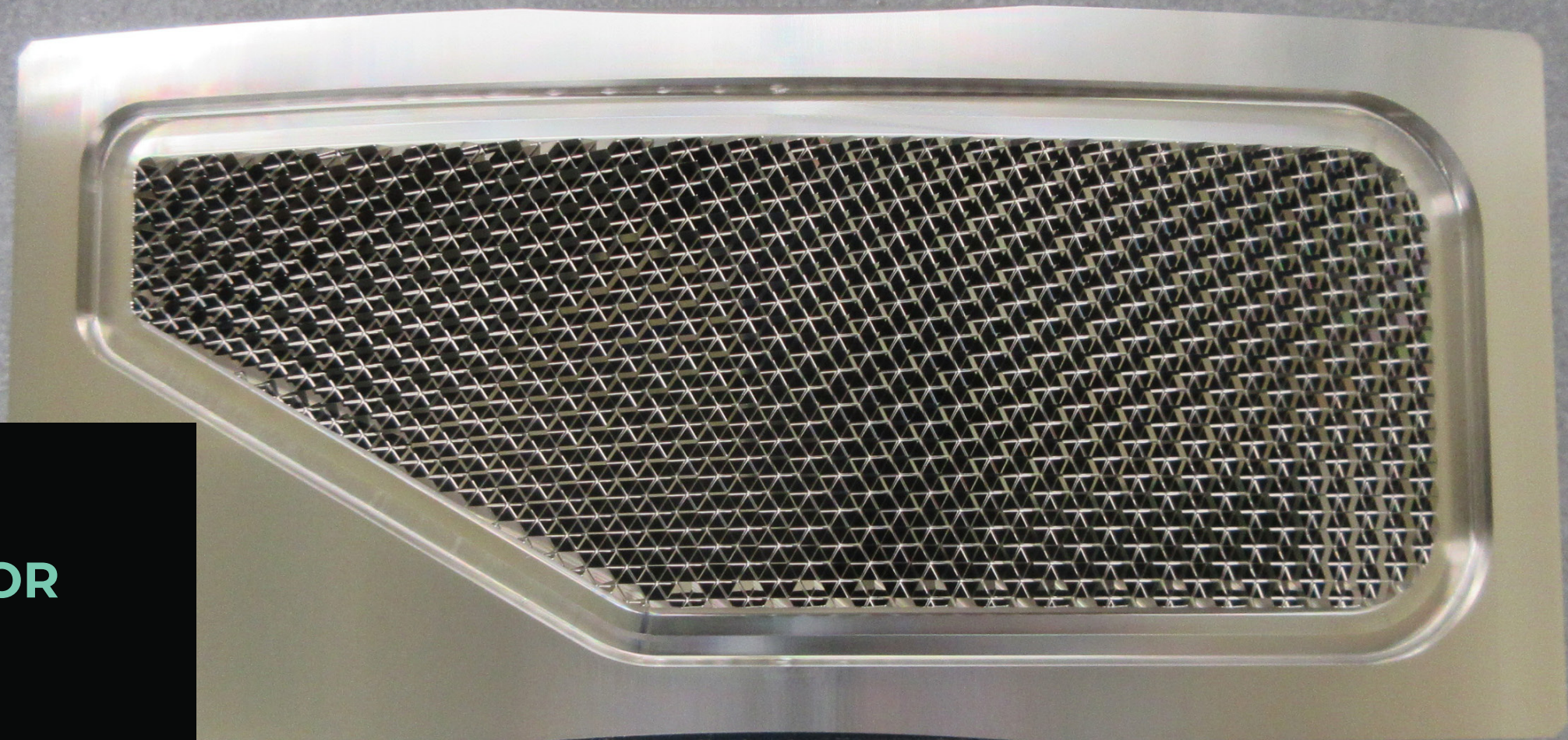
Prism mold

Surface material:Electroless nickel phosphorus plating

Tooling:Ball endmill R0.05 Single crystal Diamond

Roughness:12nm

Cycle time: 161.5h (23.5h+138h)



## LENS ARRAY

Acrylic Resin

Only Milling No need primary & sencandary process

Roughness15nm Ra

