

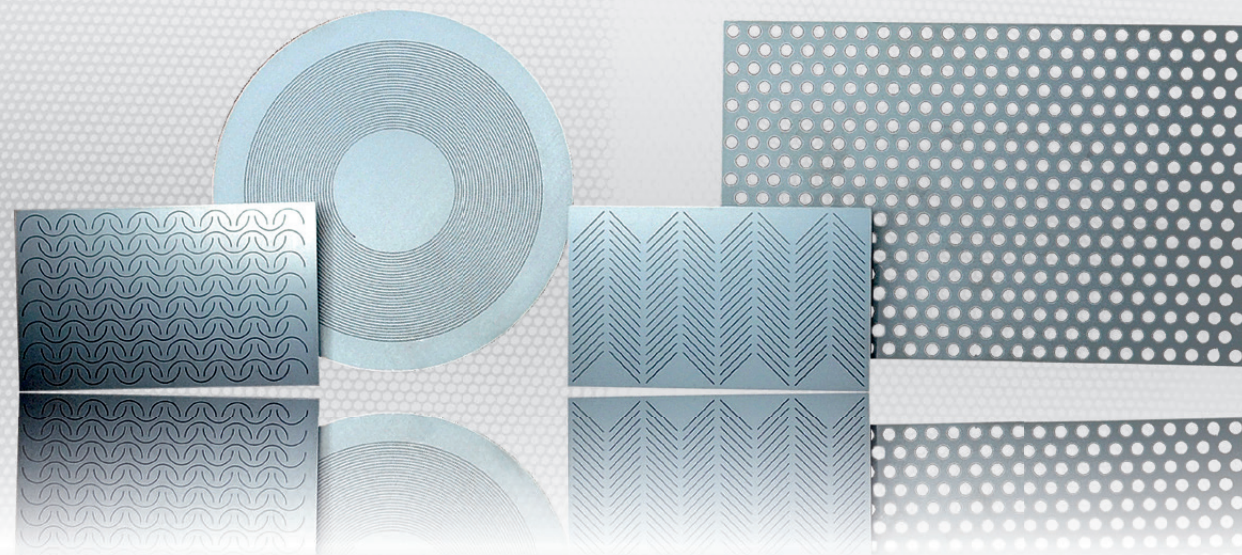
# SIEVES, FILTERS AND PERFORATED SHEETS

LASER CUT HOLES AND SLOTS  
IN HIGHEST QUALITY

PRECISION IS OUR PROFESSION

MeKo offers laser drilling services for a huge variety of hole sizes and slot geometries. Hole diameters of a few microns up to a couple of millimeters are just as possible as varying between different materials like carbon steel, stainless steel and ceramics. That allows a wide range of applications of sieves, filters and perforated sheets. A high precision is guaranteed, even at a very high perforation speed.





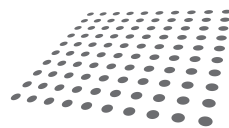
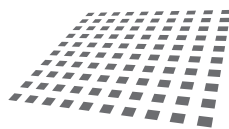
## LASER DRILLING

### Rapid and precise

Especially with very small holes and slots in thicker sheets, common manufacturing processes reach their limits quickly, both technically and economically. However, our laser systems offer various advantages: They work precisely, efficiently and are able to adapt to any kind of geometry easily, whilst maintaining their performance.

#### Full flexibility for your requirements

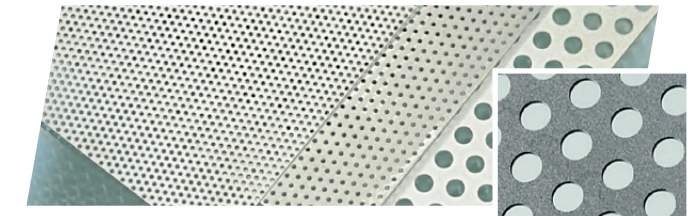
- Hole sizes > 15 µm; smaller diameters upon your request
- Any material: steel, stainless steel & ceramics
- Various geometries, e.g. sheets, cylinders, cones, circular blanks, hollow parts, nozzles and many more
- Highest precision – even at fast perforation speeds
- Any hole and slot geometries



## Samples

### Perforated Sheets

Material: 1.4301, t = 0.5 mm (~0.02")  
Hole diameter: 0.5 mm / 2 mm (~0.02 / 0.08")



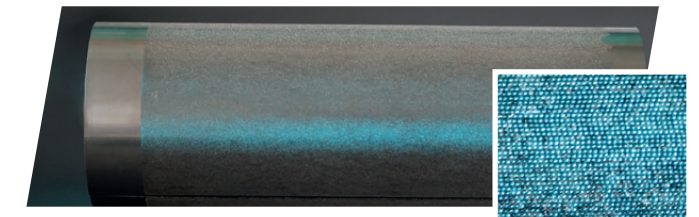
### Filter Cone

Material: Al<sub>2</sub>O<sub>3</sub>, t = 2 mm (~0.08")  
Hole diameter: 150 microns



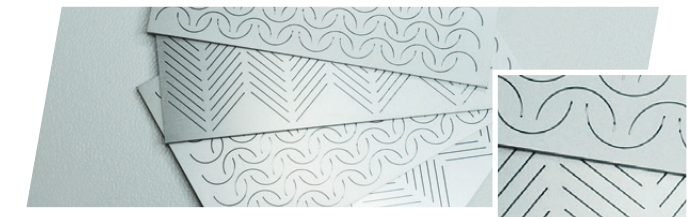
### Round Filter

Material: 1.4301, t = 0.5 mm (~0.02"), AO: 25 %  
Hole diameter: 100 microns, strut width: 100 microns



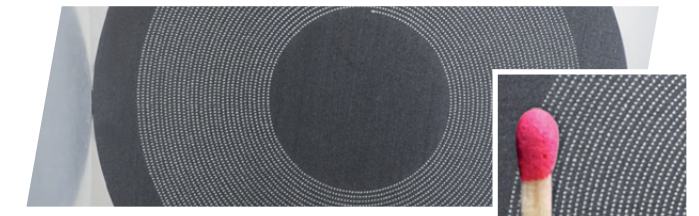
### Slotted Plates

Material: 1.4301, t = 0.5 mm (~0.02")  
Slot width: 120 microns



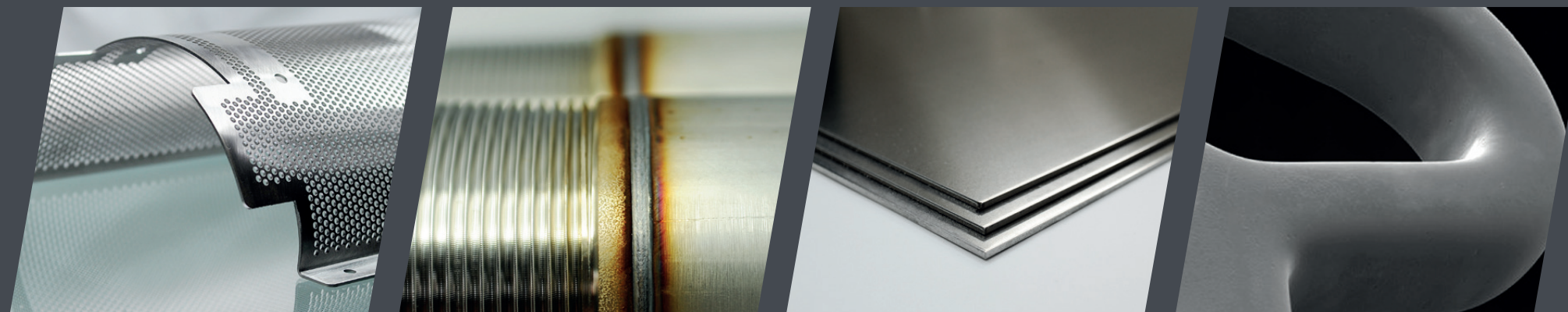
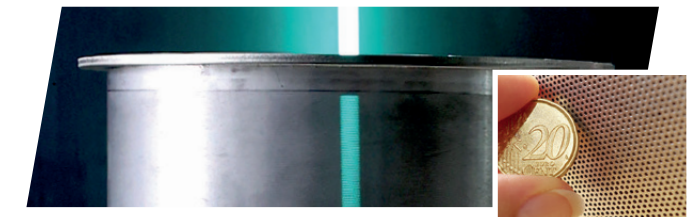
### Filter Disc

Material: 1.4301, t = 0.5 mm (~0.02")  
Hole size: 150 microns



### Passing Sieve Ø 500 mm x 1.000 mm

Material: 1.4571, t = 2 mm, T = 1,2 mm  
Hole diameter: 0.5 mm (~0.02") » approx. 1 M holes



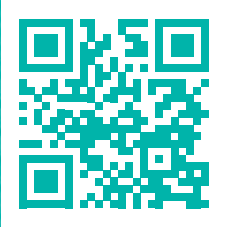
Bending / Laser Welding / Straightening / Electropolishing

## We offer more than just laser drilling

In addition to laser drilling, we offer numerous post processing procedures for your product.

Find out more: [www.meko.de](http://www.meko.de)





## MEKO MANUFACTURING E.K.

MeKo is a globally active and ISO certified supplier specializing in laser material processing. We have more than 30 years of experience in laser cutting, laser drilling, laser welding and secondary processing of metals and other materials.

### MeKo – Your experts for Laser Material Processing

- More than 30 years of experience
- Highest precision thanks to our special laser systems
- Individual parts, rapid prototyping, series production
- 2D and 3D processing

Our engineers are looking forward to hearing from you.



**MeKo**  
METALWORKS

**MeKo Manufacturing e.K.**  
Im Kirchenfelde 12-14  
31157 Sarstedt / Hannover  
Germany

+49 5066 7079-0  
+49 5066 7079-99  
laser@meko.de  
[www.meko.de](http://www.meko.de)