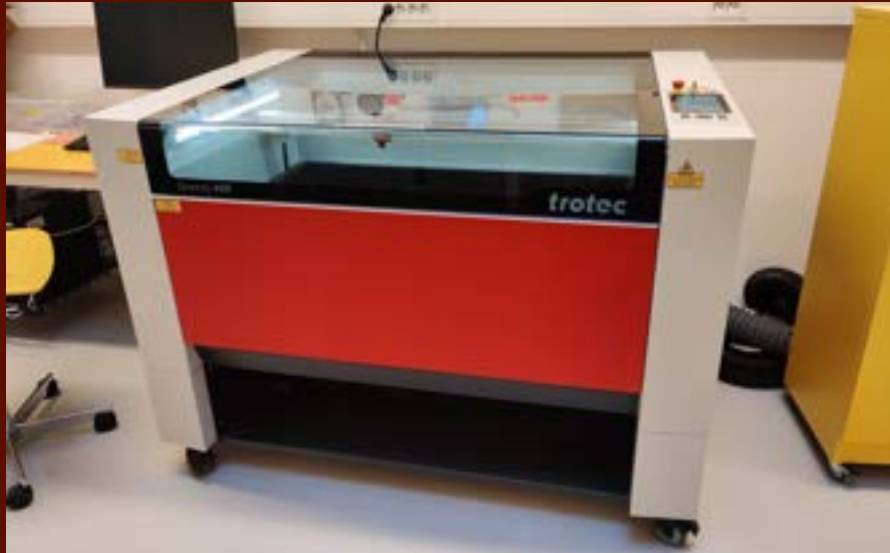
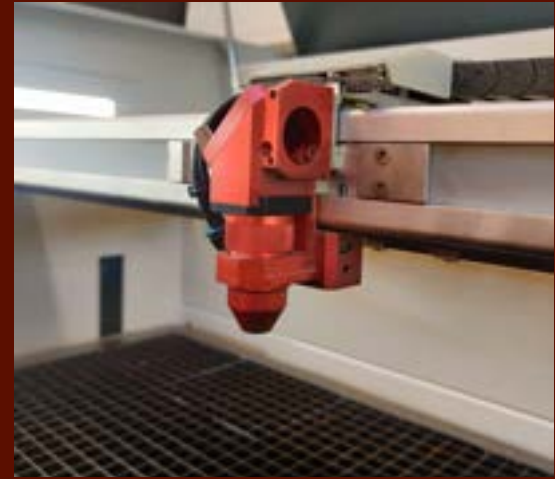


Laser Cutter Education

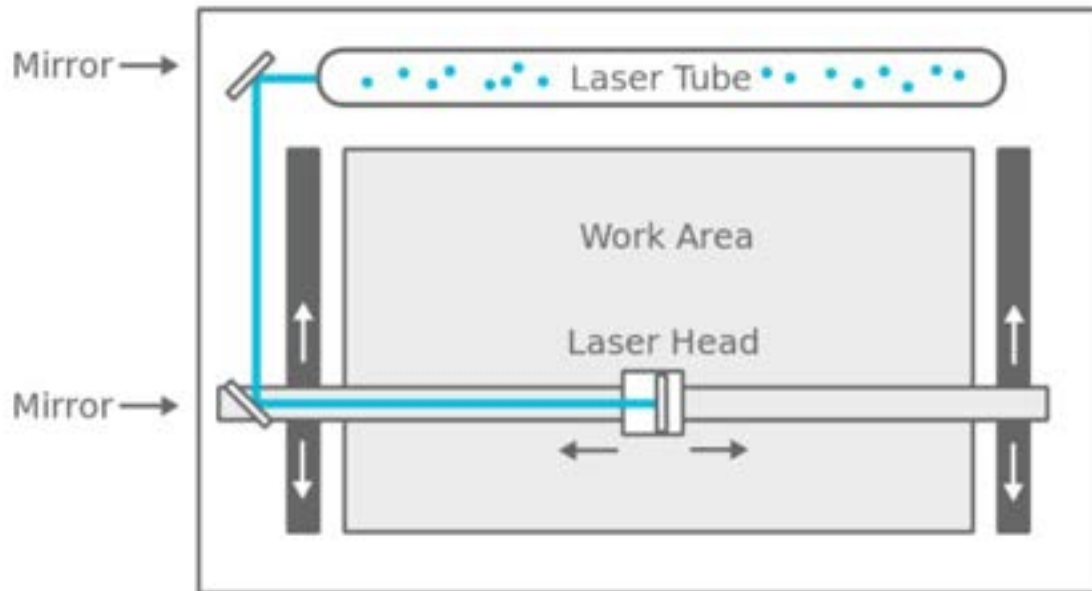


What is a Laser cutter?

- Burns through materials with IR light
- Cutting and engraving



How it works



Safety

- Never leave laser unattended when a job is running (firewatch)

Risk	Prevention action
Material catching fire	Only use approved materials available in FUSE rapid prototyping. Never leave the machine unattended while cutting or engraving
Dangerous fumes	Only use approved materials and turn on the filter unit.
Moving parts	Never use with lid open

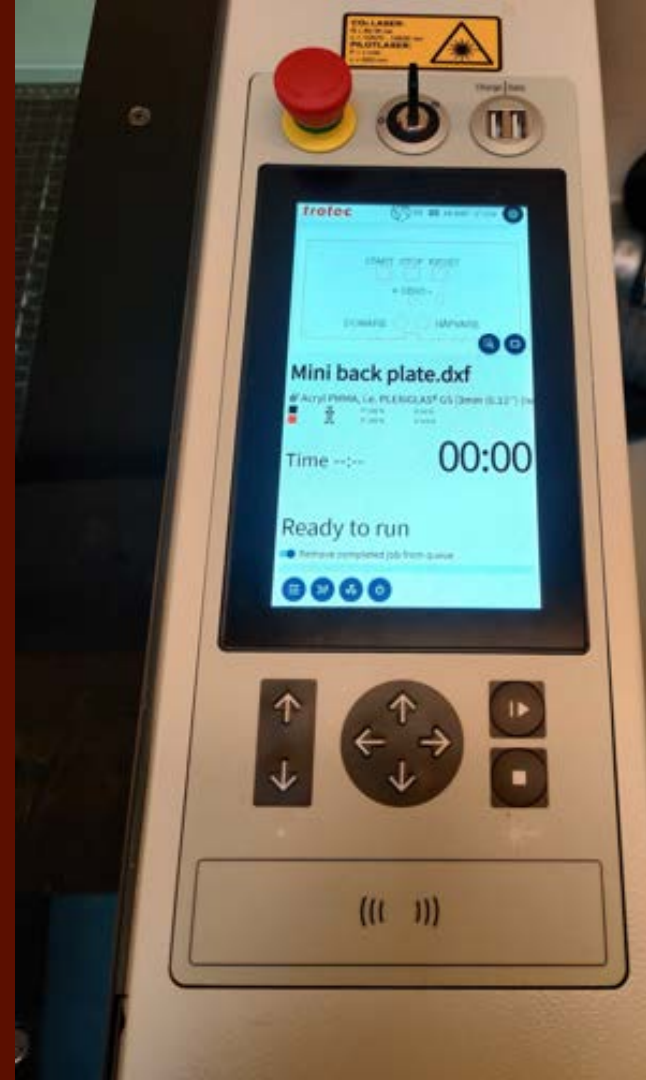
Filter unit

- Always turn it on before cutting or engraving



Interacting with the machine

- On/Off
- Emergency stop
- Set focus
- Move
- Job

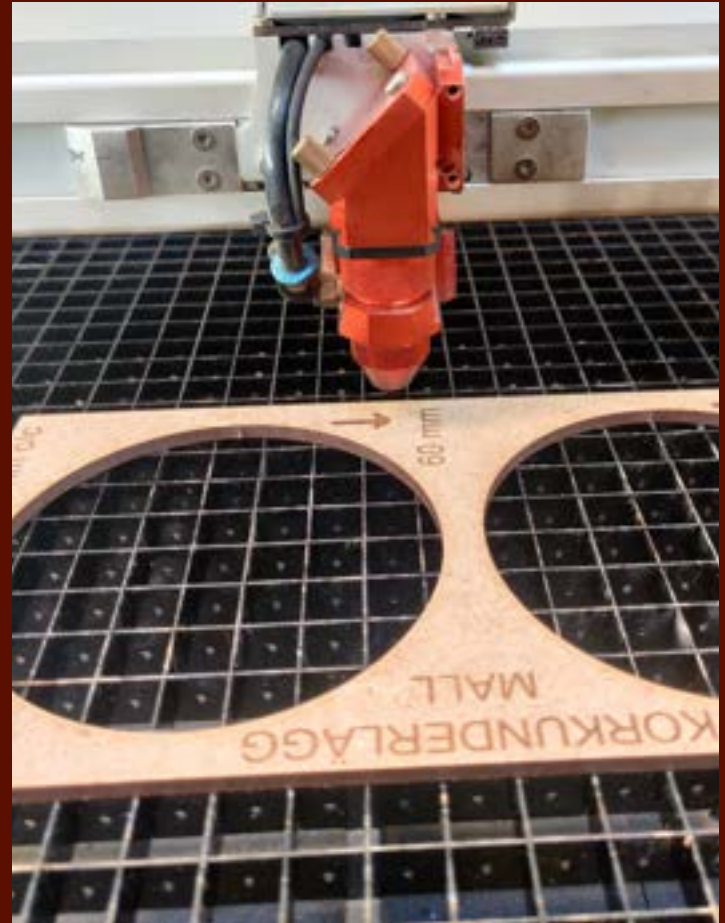


Forbidden materials

- All materials that are not approved
- Dangerous to cut materials:
 - PVC (e.g faux leather)
 - Vinyl
 - Teflon
 - Polycarbonate (PC)
 - Composite materials (e.g carbon/glass fiber sheets)
 - Polypropylene (PP) and Polystyrene (PS) foam
 - Epoxy resins

Maintenance and repair

- Not allowed
- If something brakes/stops working
 - Put up the DO NOT USE sign
 - Fill out the error log (QR-code)



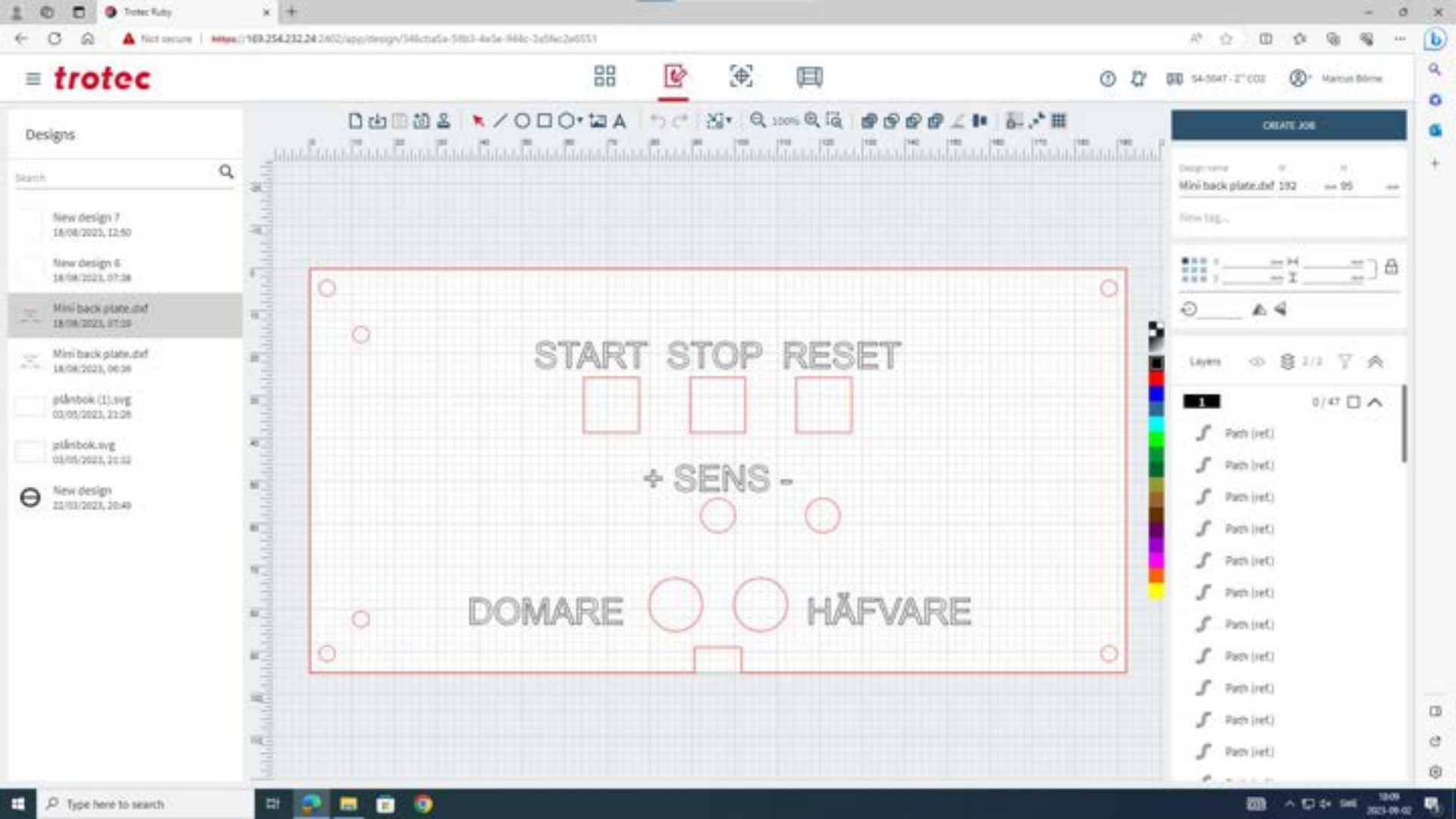
The program

Trotec ruby

imports pdf, svg, png, jpg, cdr or ai

(dxf with manual scaling)





trotec

Designs

Search

New design 7
18/08/2023, 12:50

New design 6
18/08/2023, 07:38

Mini back plate.dxf
18/08/2023, 07:29

Mini back plate.dxf
18/08/2023, 06:38

plånbok (1).svg
03/05/2023, 21:26

plånbok.svg
03/05/2023, 21:33

New design
22/03/2023, 20:49

CREATE JOB

Design name Mini back plate.dxf 192 05

New tag...

Layers 2/2

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

Path (ref)

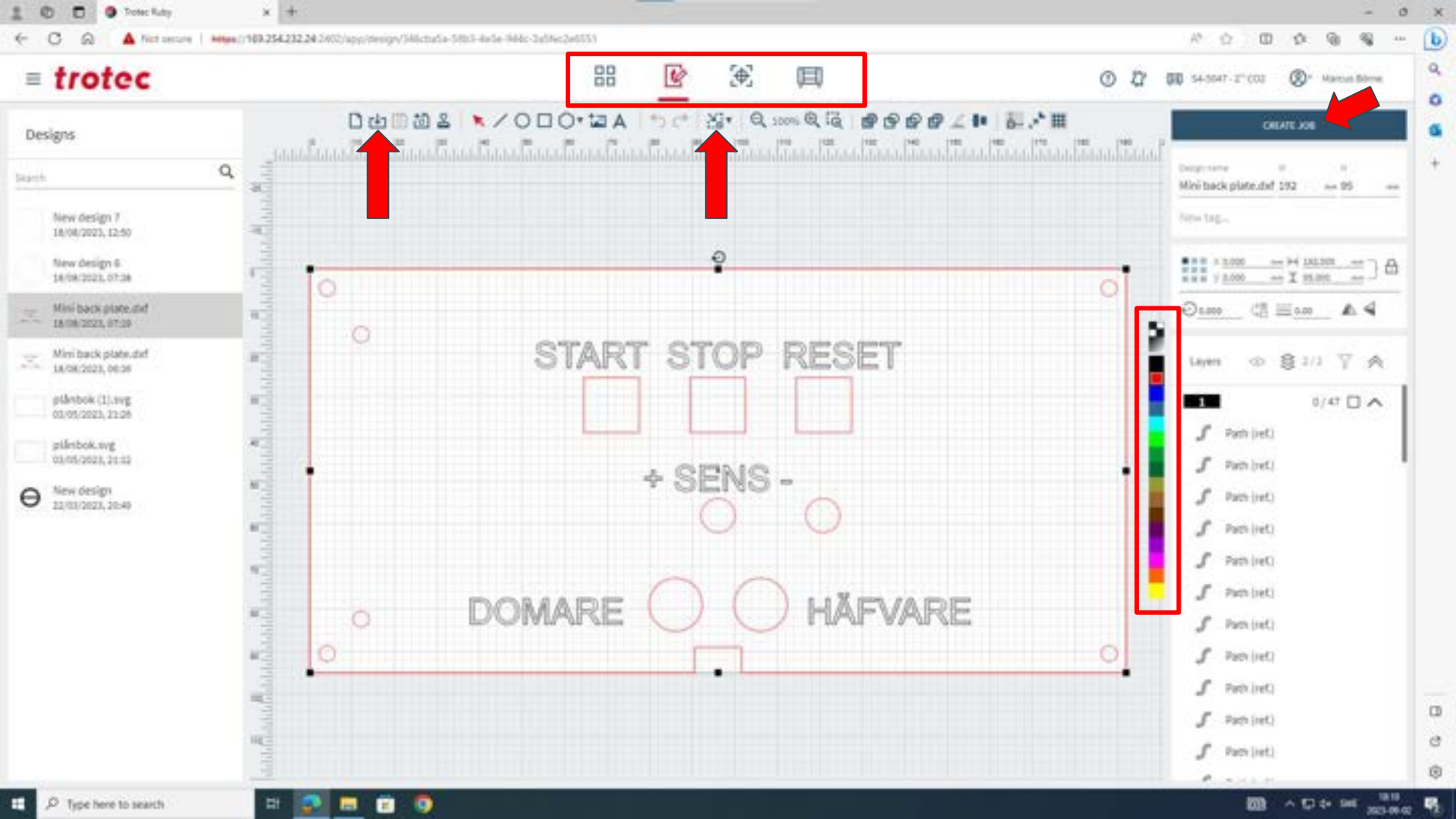
START STOP RESET

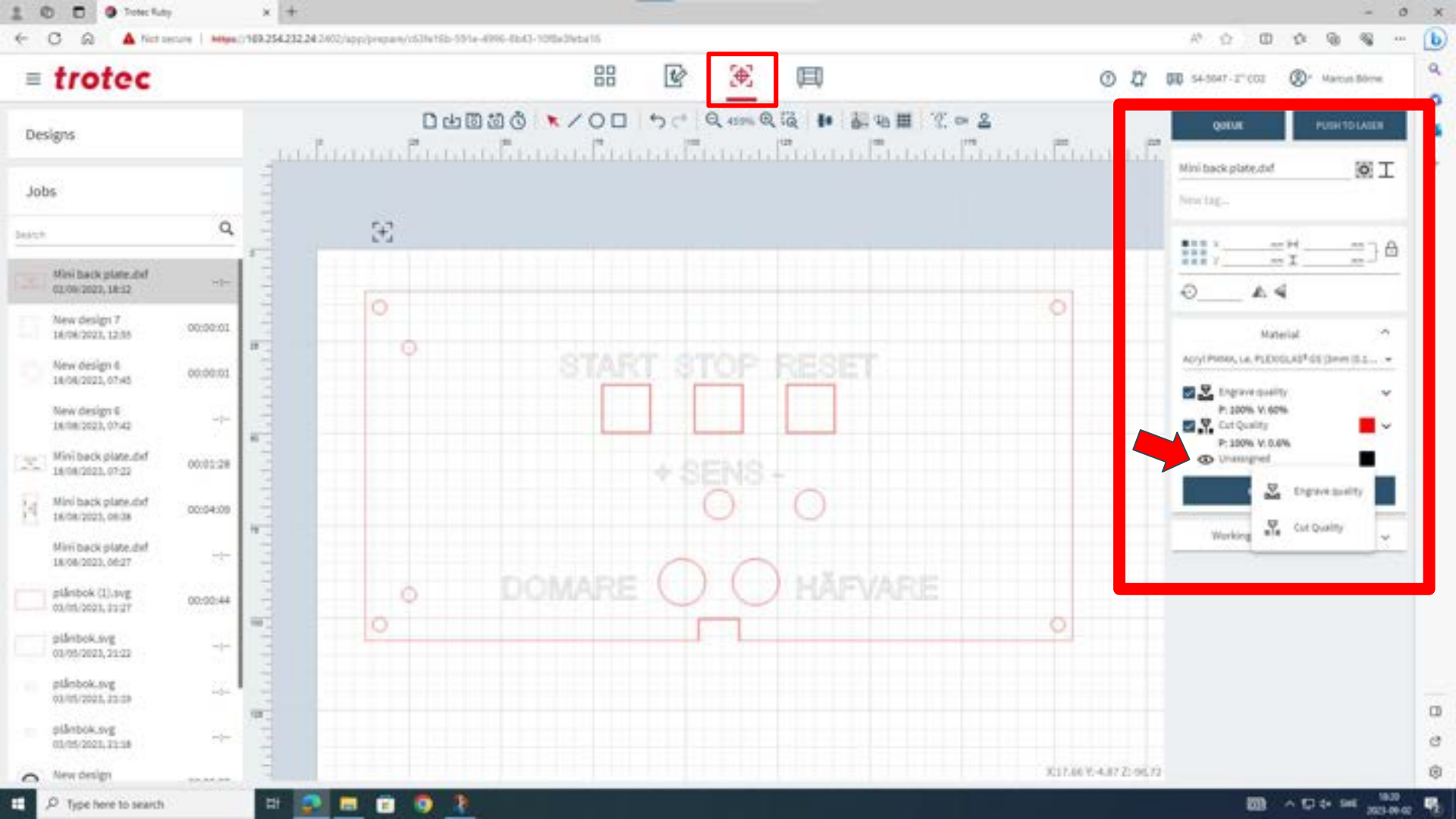
+ SENS -

DOMARE HÅFVARE

Type here to search

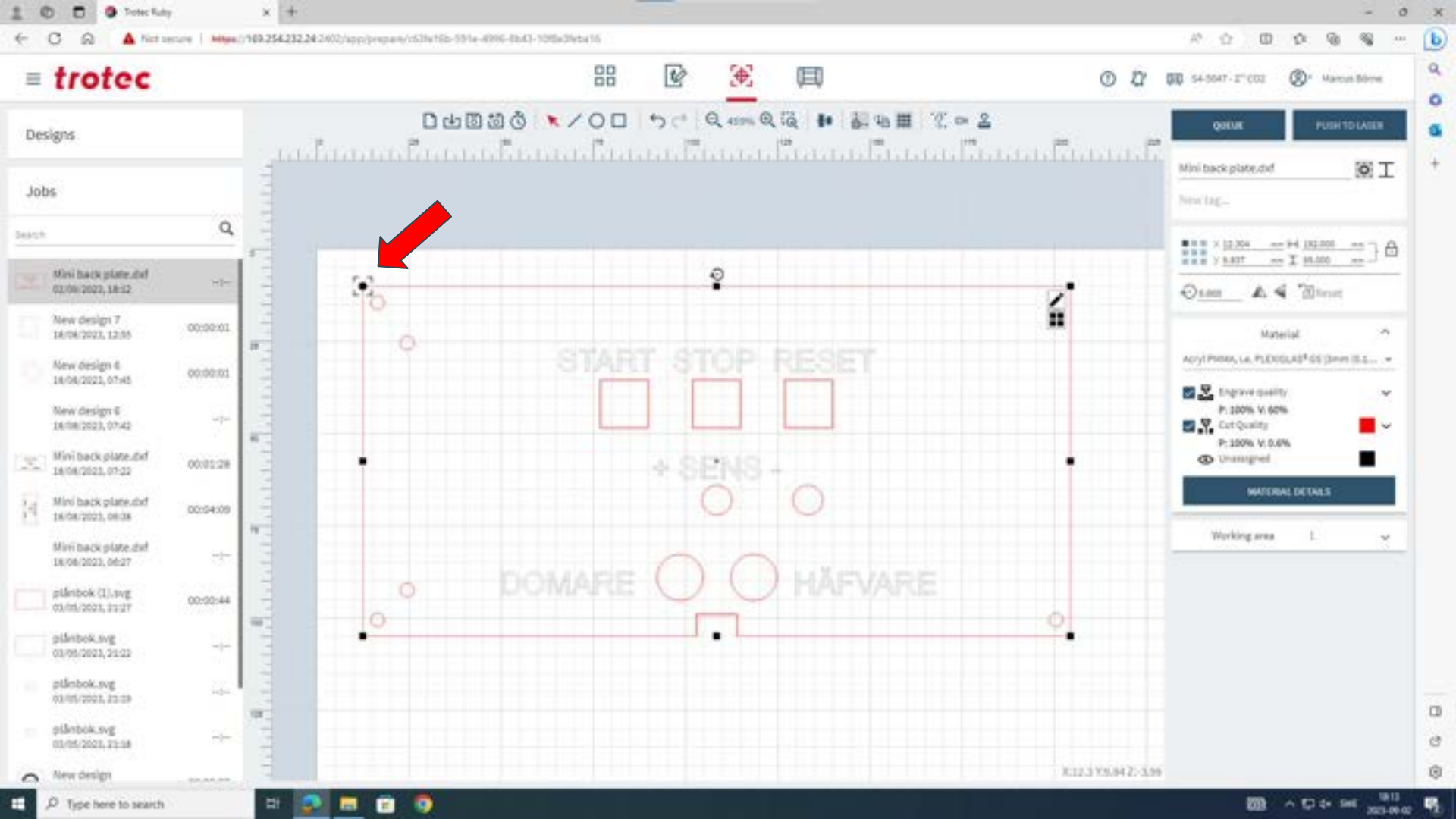
10:09
2023-08-02





www.troteclaser.com



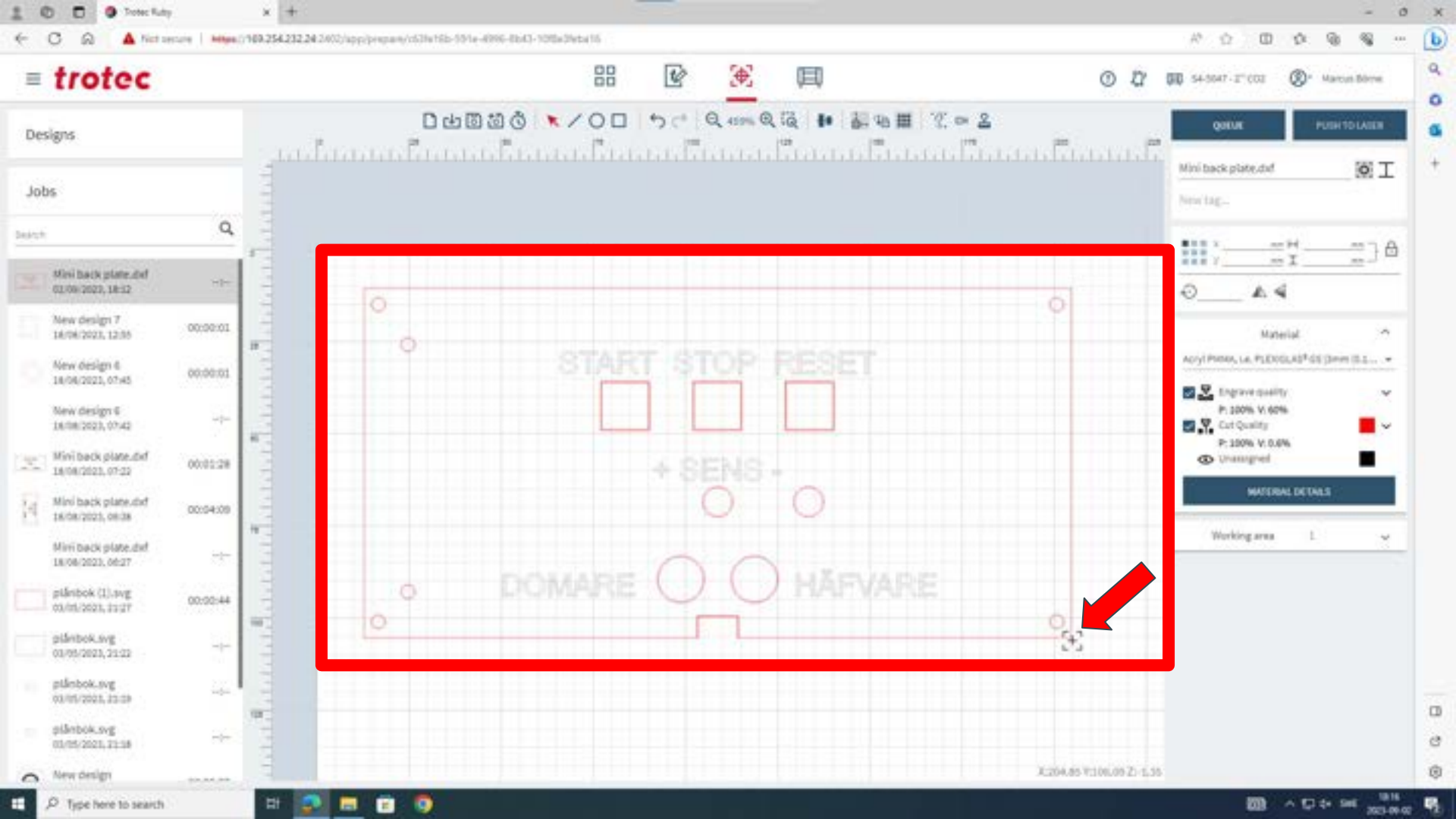


www.troteclaser



Service Side
masking
PE-LD
04
PMMMA

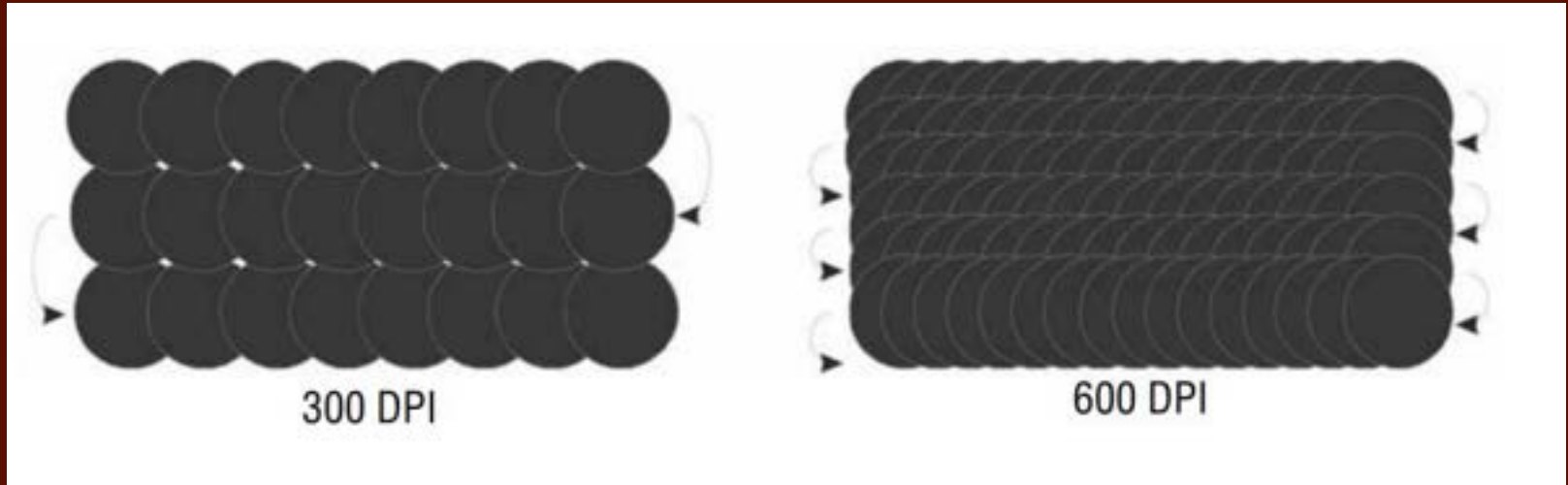
Verrijkt volgens de norm ISO 7823-2
Ervolgzaamheidsgraad volgens ISO 7823-2
De afmetingen en de afwijkingen zijn te vinden op de website www.plexiglas.de
Een afbeelding van de afmetingen en de afwijkingen is te vinden op de website www.plexiglas.de
Plexiglas
30 jaar
plexiglas
plexiglas
Plexiglas is een merknaam van de Plexiglas AG. Het is een handelsmerk van de Plexiglas AG.
Plexiglas is een handelsmerk van de Plexiglas AG. Het is een handelsmerk van de Plexiglas AG.



Engraving Resolution DPI (dots per inch)

Higher DPI, longer engraving time and darker

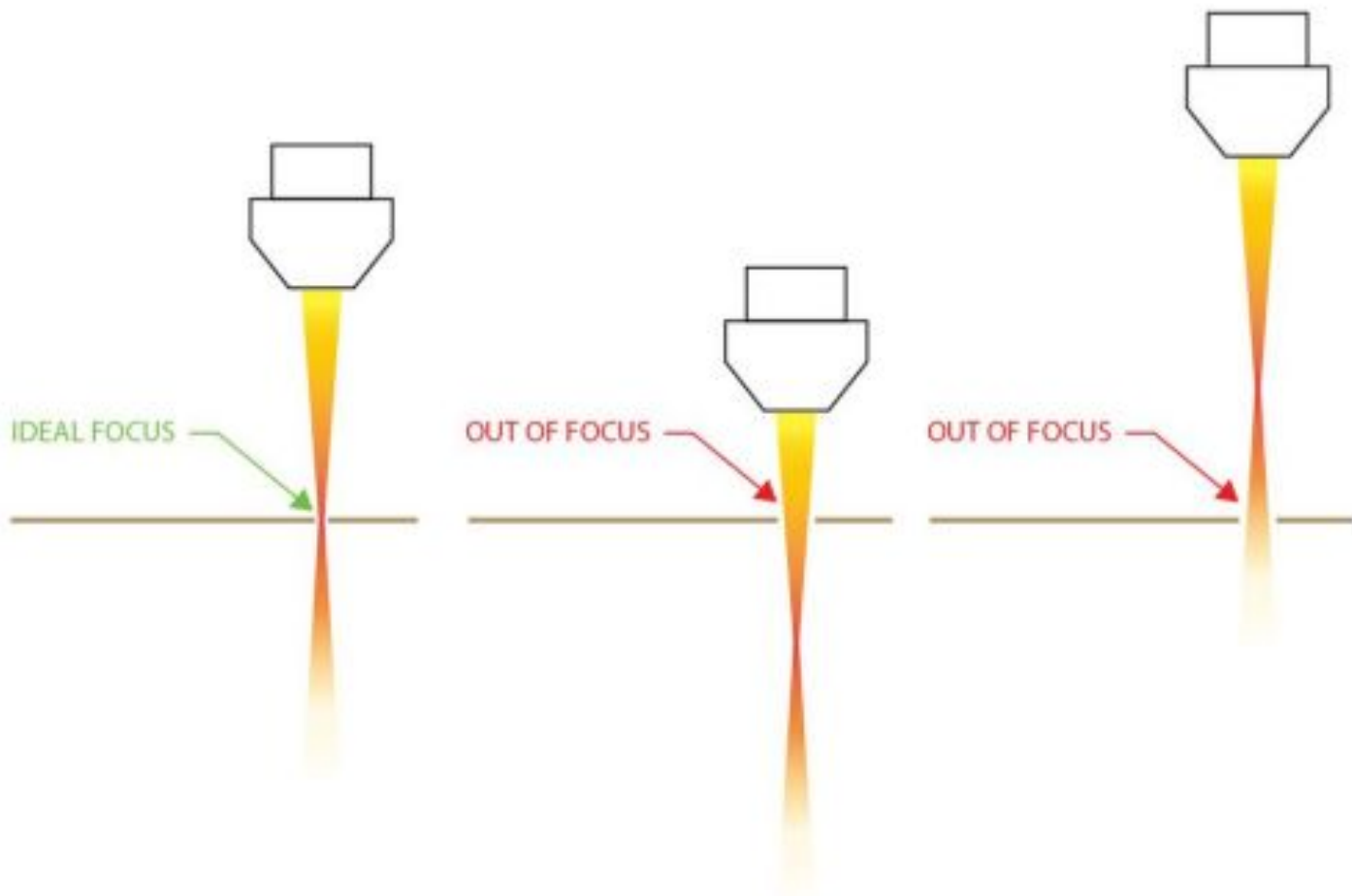
Lower DPI, shorter engraving time and lighter



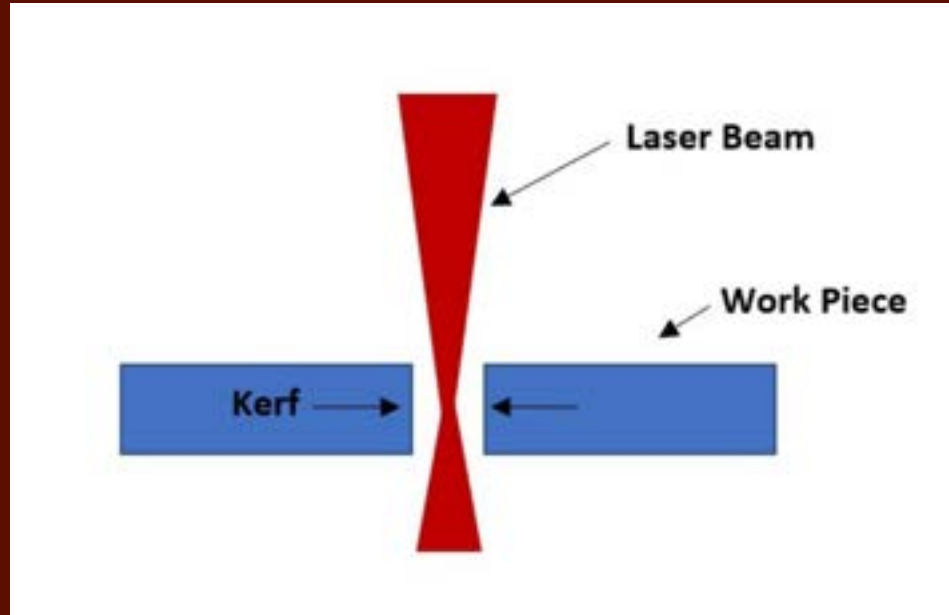
Focus



Click simultaneously



Kerf



Before use Checklist

- Reservation (not necessary)
- Area around laser is clutter free
- Nothing inside the laser cutter
- Focus is set
- Filter unit on