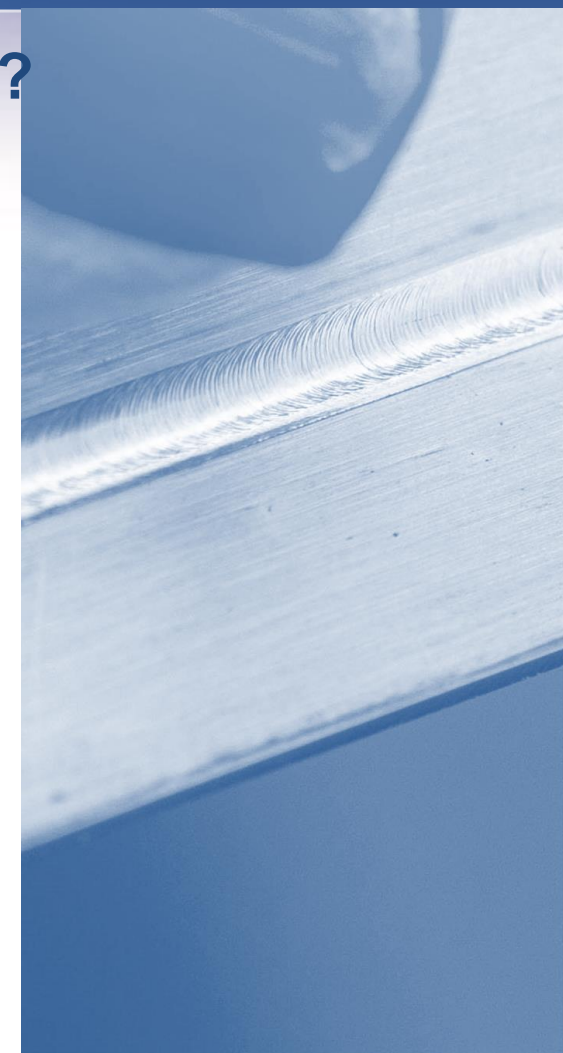


PERMASCAN

Permanovas Oscillerande Optik

Vilka möjligheter ger en scanner?

- Aluminiumsvets utan tråd
- Fogar med varierande gap
- Batterisvets
- Bredare midja på svetsen
- Bättre start och stopp
- Härdning
- Variabel effektfördelning
- Kosmetisk svetsning
- LMDw - Laser metal deposition wire



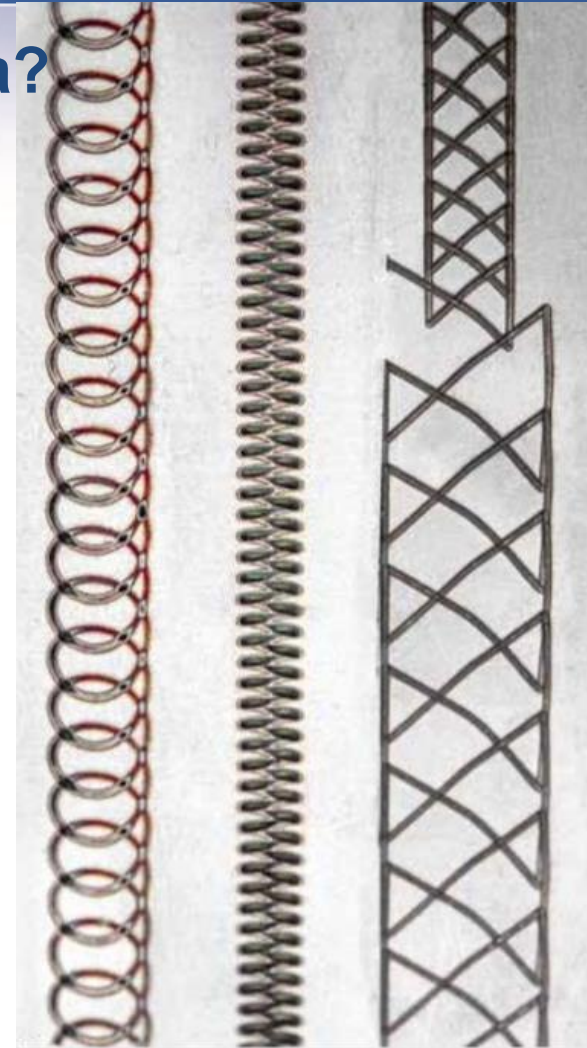
Vad ville vi ta med från våra befintliga verktyg?

- Robusthet
- Integrerad säkerhet
- Effektiv kylning
- Flexibelt HMI
- God åtkomst



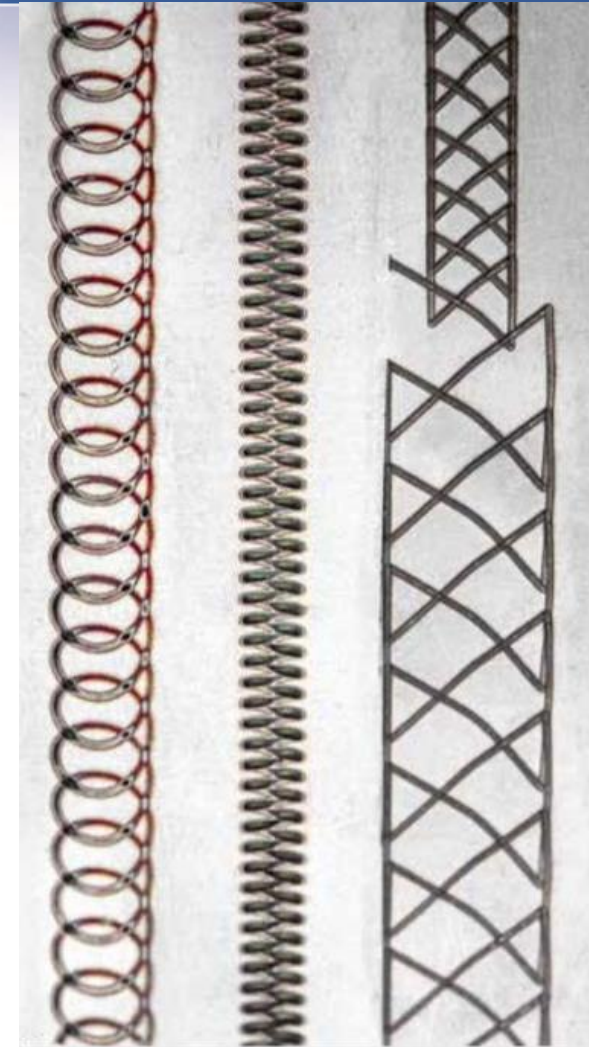
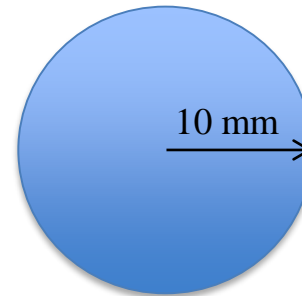
Vad ska scannerverktyget klara?

- Hög effekt
- Scanning i x-y-plan
- Kontrollerad varierande effekt över arbetsområdet
- Fogföljning
- Simulera effektfördelning
- Tråd

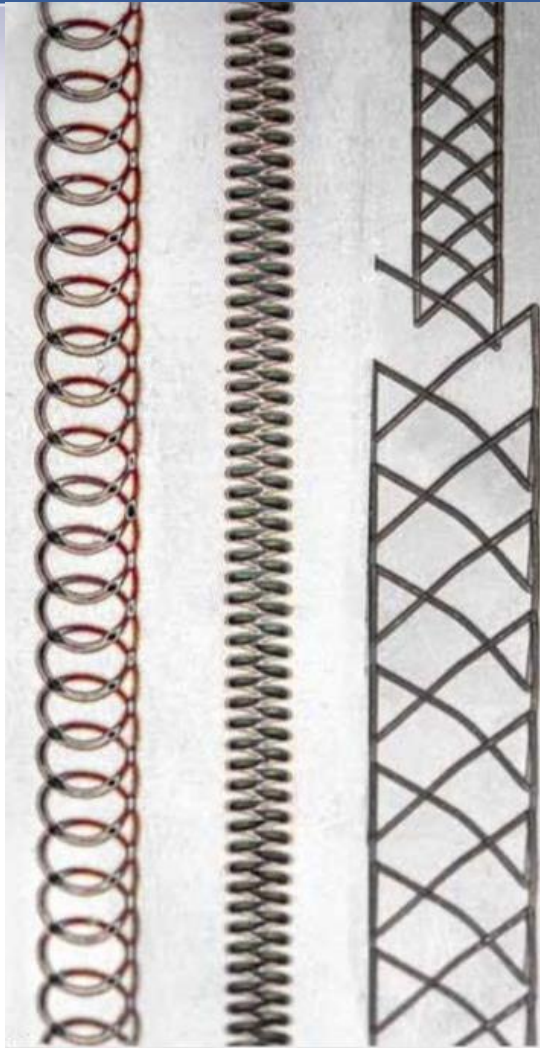
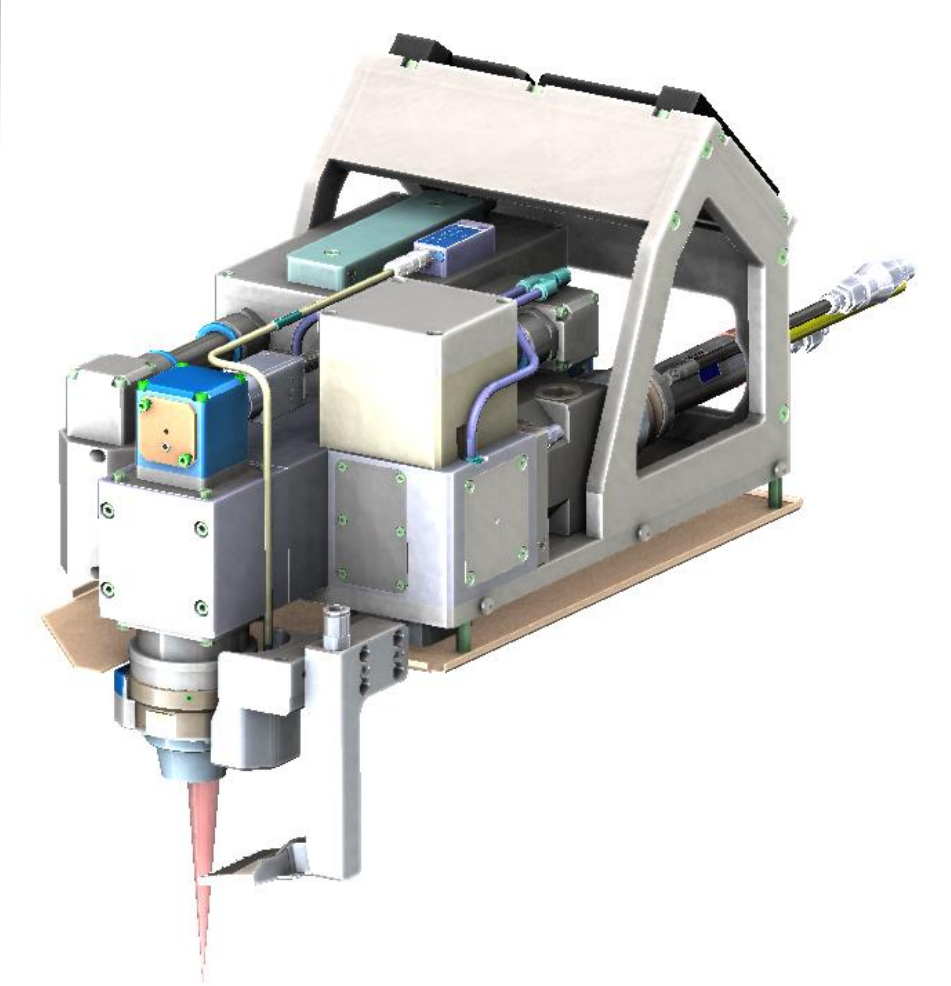


Teknisk specifikation

- Spotstorlek: typiskt 0,33 mm med 200 μm fiber
- Optik: 120/200 mm
- Max effekt: 8 kW cw
- Scannerområde: ± 10 mm
- Kommunikation: ProfiNet
- Fogföljning

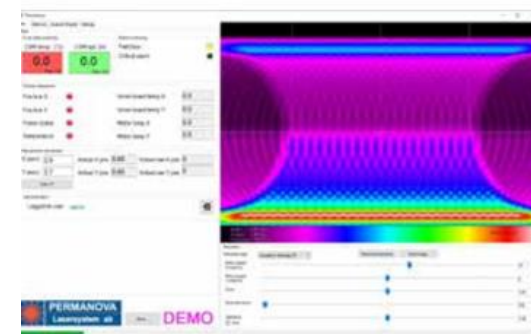
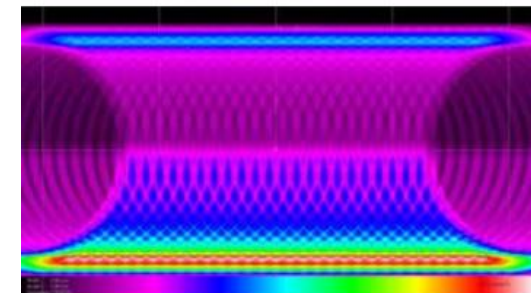
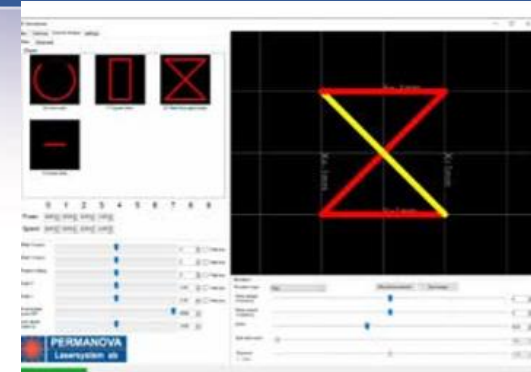


PERMASCAN



PERMASCAN - HMI

- Fogföljning
- Temperaturövervakning
- Larmhantering
- Buskommunikation
- Scannerverktyg
 - Shapes
 - Effekt
 - Robothastighet
 - Simulering



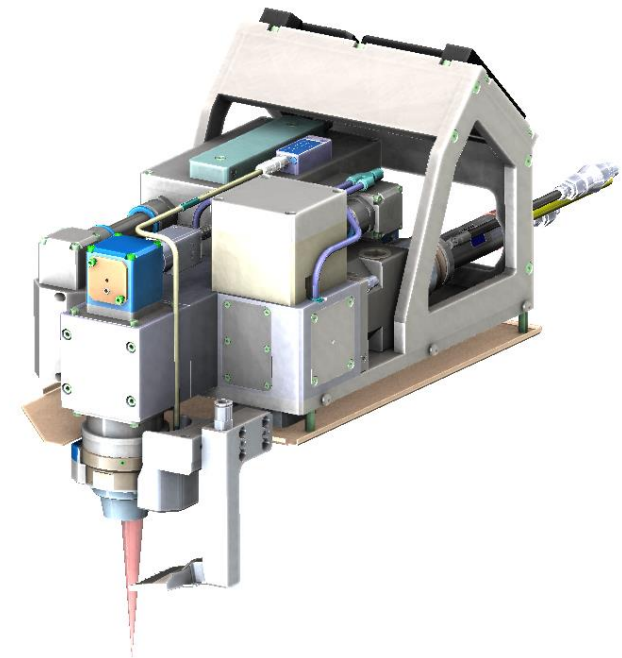
PERMASCAN - KOMPETENT SIMULERINGSVERKTYG

The screenshot displays the PERMASCAN simulation software interface, divided into several functional areas:

- Main Menu:** Includes tabs for Main, Graphs, Field bus, Shape setting, Tool settings, and Application settings.
- Shape Selection:** Under the 'Basic' tab, four shapes are available: 1 Circle basic, 2 Square basic, 3 Tilted Hour glass basic, and 4 Linear basic.
- Simulation Area:** A central grid displays a simulation heatmap for a laser cut. The grid is labeled with Y-coordinates from -7mm to 5mm and X-coordinates from -6mm to 6mm. A color scale at the bottom indicates intensity, with a peak value of 173.80 J/mm².
- Simulation Controls:** Includes a 'Simulation' section with a dropdown menu set to 'Simulation Heatmap IF', and buttons for 'Record', 'Save image', and 'Fit'. Below this are sliders for 'Robot speed X (m/min)' (set to 3), 'Robot speed Y (m/min)' (set to 0), 'Zoom' (set to 0.16), 'Spot size (um)' (set to 100), and 'Exposure' (checked 'Auto', set to 1.00).
- Shape Settings:** A panel with sliders and dropdowns for 'Offset X (um)', 'Offset Y (um)', 'Rotation (deg)', 'Scale X', 'Scale Y', 'Nominal laser power' (set to 10000), and 'Scan speed (mm/s)' (set to 2000). Each parameter has a 'Field bus' checkbox.
- User Information:** Shows the user as 'Administrator (admin)' and includes 'Manage Users' and 'About' buttons.
- Logo:** The PERMANOVA Lasersystem ab logo is located in the bottom right corner of the interface.

Tillgängligt för marknaden!

- Unikt simuleringsverktyg
- Industriellt verktyg som klarar
 - Variabel effektfördelning
 - Fogföljning
 - Varierande svetsbredd
 - Bred midja
 - Härdning
 - Svetsning
 - LMDw



TILL SIST

Välkomna till demo i labbet!

