

mekoprint

# FROM CONCEPT TO USER EXPERIENCE

Design & engineering services





We design, develop and produce HMI solutions, ranging from industrial graphic solutions and overlays to keypads and complete product assemblies. Our mission is - together with your team - to help create the best possible user experience for your product.

The key to our success is our unique specialist knowledge, gathered over decades in the industry, combined with our strong wish to create together with you. Because, at Mekoprint we believe in long-term partnerships.

As a customer at Mekoprint, you will experience that we are dedicated to forming an equal and mutually binding collaboration. And we have a very clear goal - to make it easy for you to succeed in your business.

We never cease to look for new ambitious improvements that can help us grow together. With a fully digital production floor and mapping of carbon footprint on our processes, we have placed digitalization and sustainability as cornerstones for our future growth together.

# Creating user experience together



# Discovery

- Project brief
- Process proposal
- Quote on development services

# Ideation

- Ideation workshop
- Concept catalogue

# Design

- 3D files and renderings
- Product specification
- Unit & tooling price budget quote

9

## Design and engineering services

You can consider our design and engineering team as an extended part of your organization during the development process.

Our portfolio of development services is an opportunity for you to ensure progress in your project. If you are short of time or resources or lack specialist competences within your own team, you can have our development team tap in and provide specialist HMI expertise at one or several stages of the project.

You can be certain to have top expertise within HMI, combined with the lean, sustainable approach, characteristic for Danish designers and engineers.

Our design and engineering services are tailored to support the individual stages of your decision-making and development process. You can pick the level of services suitable for your situation.

## Engineering

- CAD files
- Circuit layout
- BOM list
- Soft tooling & early prototypes
- Unit and tooling price for series production

## Design verification

- Low fidelity prototyping
- Prototype assessment

## Release for production

- Tooling drawings
- Series manufacturing tool
- Test fixture
- Production drawings
- Unique process description

## Life-cycle engineering

- End-of-lifetime activity
- Tool replacement
- Cost-down activities
- Dual sourcing / production evaluation
- New compliance requirements



“Rather than a supplier, we see Mekoprint as a partner that we can get advice from on technical questions, material selection, and different solution options.”

Juhana Venemies, UI Designer & Packages  
Kemppi Oy

## CASE: Streamlining the portfolio

Kemppi is one of the leading players in the welding industry. Some years ago, Kemppi's purchasing and product management were in a phase of streamlining the portfolio.

"We needed to streamline the labelling and control panels of our products. There were too many variations in quality, material and colour", explains Kemppi's UI designer, Juhana Venemies.

A perfect task for Mekoprint - to make an overview, update, and optimise. "So far we have updated material and production specifications for approximately 200 items. All the drawings are up-to-date, making Kemppi's quality control more smooth", explains Steen Lind, Key Account Manager at Mekoprint.

The benefits of gathering Kemppi's purchase of keypads and labels at one place are clear:

- consistent quality across the product range
- cost-optimisation through synergies in material
- automated process of stock replenishment

All in all, a successful collaboration that both Mekoprint and Kemppi are ready to take to the next level. "In the near future, we will look more into new possibilities with controls and displays. And here Mekoprint can contribute with their expertise and knowledge sharing on HMI technologies" concludes Juhana Venemies.



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# CASE: Differentiation in the industry

Amazone-Werke is one of the leading German manufacturers of agricultural machinery. For their next generation of machine terminals, Amazone-Werke approached Mekoprint with a list of requirements for the new control panels.

Amazone terminals are used in rugged environments and are exposed to dust, dirt, sunlight and more. They are operated during night and bright sunlight. The initial inquiry from Amazone was clear in terms of the requirements: backlight, three-dimensional control buttons, tactility, temperature and UV resistance, operation without eye contact, glove handling, operation during night-time.

"It was a pleasure to enter a partnership with a customer that had some very clear ideas about what they wanted to achieve. But at the same time, they were open to new perspectives", says Domenic Nielsen, Mekoprint sales responsible on the project. "And that is always a great starting point for a collaboration. Because it is our ambition to give our customer more than what they initially expect", adds Domenic.

10



**AMAZONE**





“We appreciate the consultancy that we have received from Mekoprint. We are happy to have created a solution that differentiates our product in the industry.”

R&D representative from Amazonen-Werke

11

Our project team of developers considered all the requirements and proposed a solution for a control panel in silicone rubber. Although our customer initially envisaged a membrane switch, we felt obliged to point out the opportunities with an alternative that would create more value for the customer.

The result is a 3-part control panel, made from silicone rubber with backlight and three-dimensional shaped control buttons, which can be operated in some of the toughest environments.

# Let's start the dialogue early

By involving Mekoprint early in your R&D process,  
you can save time in the development of your  
HMI because you get

- A smooth development process
- A holistic understanding of user experience
- The right solution ready to be produced



Get in touch with an  
HMI expert from Mekoprint



