

Summary: InDEx Results

InDEx Final Seminar, 19 May 2022

Nea Kontoniemi

HT LASER

e elekmerk



HT LASER 2021

70M€

Revenue



+16%

compared with the previous year



8 factories

>400

professionals

16% women

10+ nationalities



95%

Delivery accuracy



1000

customers



DPPM 1334

LTIFR 43



98%

Recycling rate



NEROKAS
elekmerk
mekaniikkatehdas

#Sharing data in supply chain

Case Digitalizing the NPI process

PILOTED AT HT LASER VIEREMÄ

Goal: to accelerate New Product Introduction process, to manage design and material parameters, interaction and quality assurance between several actors in the value network.

3D laser measurement scanner, 3D measurement room

RESULTS

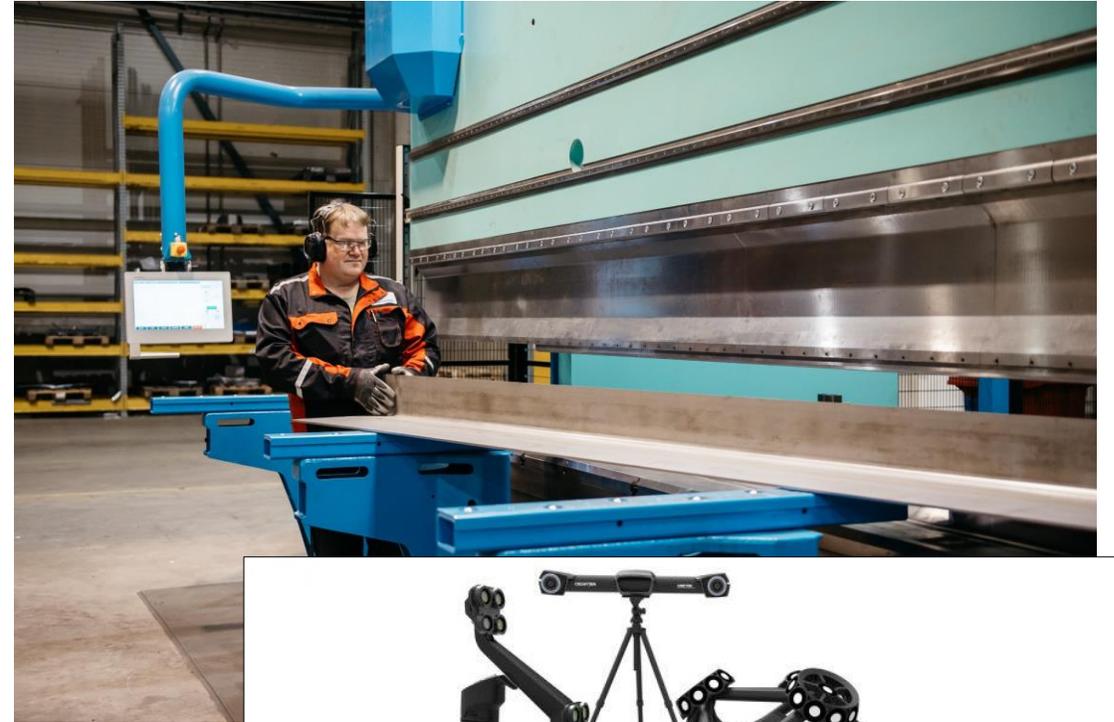
3D laser scanning has been found to significantly accelerate NPI process.

With the 3D measurement data, it has been possible to communicate quickly in the delivery network.

The necessary changes in demanding steel structures (material deformations, bending compensation...) have been quickly modified and implemented with the help of 3D models.

IN COOPERATION

Ponsse, MLT Machine & Laser Technology, Insinööritoimisto Savolainen



#Sharing data in supply chain

Case Communicating partner requirements

PILOTED AT HT LASER VIEREMÄ

Digital tool was created to ensure that requirements and instructions offered by value network partners can be digitally reached and utilized in the workshop.

The tool enables better utilization of visual elements and thus reduces the need for translations in an international work environment.

RESULTS

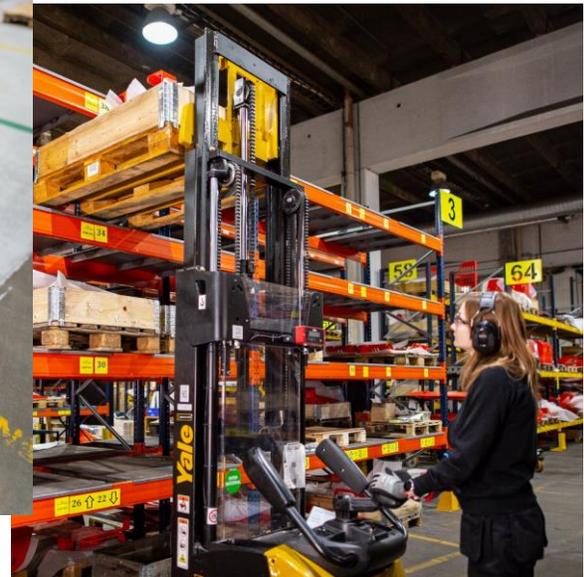
Better reachability & updateability of requirements and instructions.

Reduced errors in pick-pack process.

Improved security of supply.

IN COOPERATION

Palvelupisara



#Sharing data in supply chain

Case Product-level CO² emissions data

PILOTED AT HT LASER & ELEKMERK

Goal: to study the possibilities to measure and share product-level emissions data in the value network. What are the exact customer needs? How to ensure effective data collecting and sharing in the value network? What restrictions apply in sharing CO² emissions data?

Two product-level case studies with customer companies were implemented. HT Laser and Elekmerk company emissions 2021 were disclosed.

The CO² emission sources and their relevancy was mapped. Mapping possibilities to develop a product-level emissions calculator and integrating it with the ERP system is ongoing.

The ownership of the data collected and shared was examined as well as data transparency and traceability issues.

IN COOPERATION

Green Carbon, Varusteleka, Genelec



Photo: Varusteleka

#Automating order and production planning process

Case Cloud Manufacturing solution

Photo: Prima Power

PILOTED AT ELEKMERK

Elekmerk acted as a pilot partner for Prima Power in testing and developing a Cloud Manufacturing solution. This AI-based solution digitalizes sheet metal orders, automizes the manual workflow and reduces the time to create quotation and production plan from days into seconds.

RESULTS

Elekmerk tested the Cloud Manufacturing solution in a sheet metal manufacturing environment and provided feedback of the usability of Cloud Manufacturing portal to Prima Power.

The results are discussed in more detail by Prima Power.

IN COOPERATION

Prima Power, Elekmerk customer companies



#Data-Driven Business Models

Case Developing competencies in digital business

HT LASER & ELEKMERK

A survey of the organizations' digital maturity.

ICT architectures mapped and described from the perspective of data sharing.

The possibilities for developing more data-driven services and ecosystem business models outlined.

Different customer types, customer experience goals and customer journeys were examined.

RESULTS

Companies' competencies in digital business and service models, digital customer experience management and related digital solutions were developed.

The process resulted in better understanding of the value chain partner needs, value adding potential, and digital solutions of data sharing in the value network.

IN COOPERATION

TAU, Aalto ARTS

