

DIGITAL TUTORING FOR COMPOSITE MATERIAL MANUFACTURING

A MASER ENGINEERING COLLABORATION

INDUSTRY 4.0

IMPROVING INDUSTRIAL PRODUCTIVITY WITH DIGITAL TECHNOLOGIES

Improving international skills transfer by developing a software that enables the manufacturing of air conditioning systems for aeronautic industries.

A unique project gathering a whole team with a wide range of competences. From the observation of the technical operations in Nobitz premise to the creation of an user interface.

A software tutoring the manufacturing operators from the beginning to the end of the production process, reducing the training costs and ensuring the reliability of the final product.

Context

transfer of
manufacturing
from Nobitz
(Germany) to
Casablanca
(Morocco) and
Bondoufle
(France)

PREVIEW OF THE DIGITAL TUTORING

TOOL

Indicates which part of the tool to work on.

CURRENT STEP

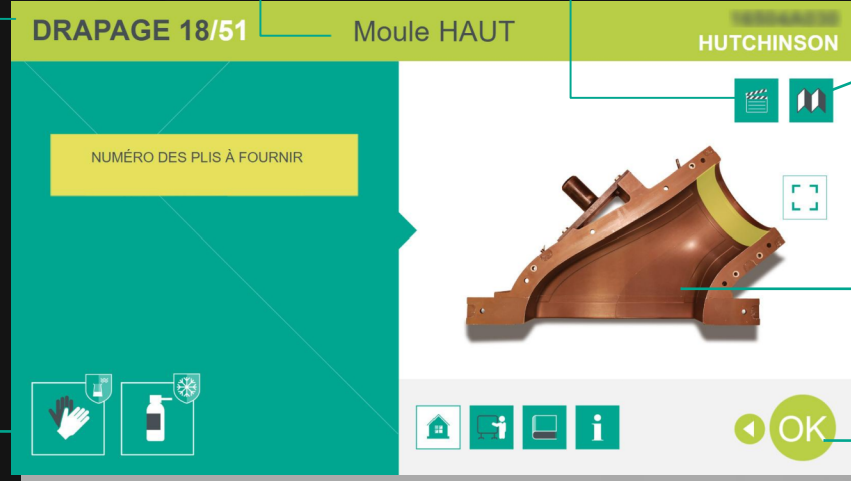
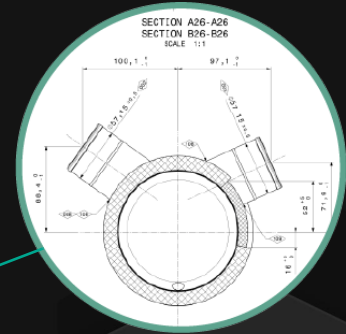
Indicates the position of the current step.

PICTOGRAMS

Shows the mandatory items to work (protection equipments, tools...)

MEDIA

Access to additional media : motion design, movies from the manufacturing premise, drawings.



DRAPAGE 18/51 Moule HAUT HUTCHINSON

NUMÉRO DES PLIS À FOURNIR

Navigation icons: Home, Help, Information, OK

Pictograms: Hand, Bottle, Snowflake

Media icons: Clapperboard, Document

PART PRODUCTION

Preview of the work to be done.

NAVIGATION

Access to the previous and next steps.

CAPTURING **KNOWLEDGE**, CAPITALISING ON THE EXPERTISE

- A self-sufficient, ready-to-use tool optimising performances.
- Transferring knowledge from the experts to the newcomers operators through an all-in-one digital solution.
- Starting from scratch : from a technical process to a fully integrated interface.
- A reliable system reducing nonconformity, minimising delays, allowing access to relevant technical data.



MAKING A **DIFFERENCE**, CHOOSING DIGITALISATION

Advantage

Provide a solution to share knowledge between all the industrial premise.

Development

Improving the final quality of the products.



Transition

Adapting the digital transition to the industry field.

Dimension

Bringing a new dimension to Hutchinson's identity.

User-experience

Improving work conditions on manufacturing process.

A **SAFE AND RELIABLE** TOOL OPTIMIZING PRODUCTIVITY AND AVOIDING NONCONFORMITY

- A sustainable tool that turns knowledge into an intelligent system.
- Easily portable, making the information available anywhere, anytime.
- Allowing task reproducibility.



- Secured systems ensuring the protection of data.
- Controlling and avoiding the risks thanks to a technical expertise in compliance with the regulations.
- Ensuring the safety of the operators, focusing on protection equipments.