

Manufacturing Systems Workshop

30 Industry Attendees

1 Keynote Speaker

3 Industry Perspectives

6 Field Experts

Keynote Speaker

“The future of Flexible Manufacturing”

Prof. Sebastian Thiede
Chair of Manufacturing Systems
University of Twente

EVOLUTION OF MANUFACTURING PARADIGMS



Best Practice Manufacturer perspective from 247TailorSteel

FOCUS: FLEXIBLE PRODUCTION

— 24/7 online custom order request —

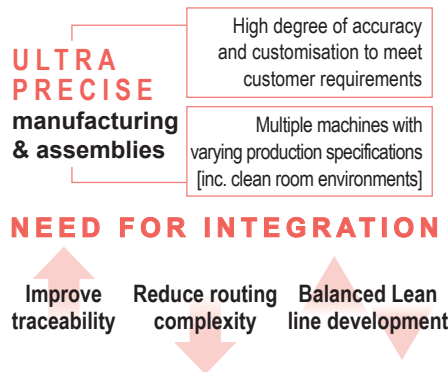
CUT-TO-SIZE metal sheets and tubes + **different materials different thickness**

manufacturing thousands of articles per day

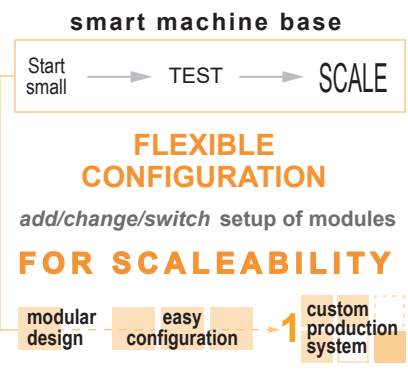
NO STOCK, NO CATALOGUE

possible through **SEAMLESS DIGITALISATION INTEGRATION**

High Tech Systems Manufacturer perspective from NTS Norma



Solution Provider perspective from DEMCON



Discussion Topics

What do we do well in the Smart Industry?



Education on data analytics
Budget allocation
Local networks
Knowledge for optimisation
High-speed data extraction

Acknowledge your weaknesses:



Interaction among systems is still challenging

What emerging trend can we take the advantage of?



AI applications
Language models
Automation - high mix, high volume
Planning and logistics
Data/cloud driven services

Recognize your threats:



Sustainability
Overwhelming change
Quick build up

Smart Industry Challenges

- Flexible Manufacturing**: Flexibility-efficiency balance
- Smart Manufacturing Execution Systems**: New systems, new knowledge
- Industry Robots**: Unlock full potential of robots while addressing safety
- Data from Productions Systems**: Alignment between types of data and data formats
- Update/upgrade of Systems**: Incompatibility between systems and re training of personnel

Smart Industry Perspectives

