SwePS Fallstudie
Christian Finnsgård och Carl Wänström
Chalmers tekniska högskola och Volvo Trucks - Tuve
Introduction

SwePS - Swedish Production System

VPS - Volvo Production System

Material handling

Case studies

Chalmers

Researchers

Thesis workers

Volvo Trucks
Main purpose to study the Materials Supply System Design
Requirements in Materials Supply System Design
Included projects

Prestudy spring 2007, Materials Supply System
Improvements - FUP station

Value Stream Mapping as a Materials Supply System redesign tool. Methodology and applicability.

- Stödben, motorbock and MD13 engine flow

Workshop activities with study visits

Thesis workers in kitting and plastic boxes

Requirements study on requirements between materials supply and production
Value Stream Mapping as a Materials Supply System redesign tool.
An Evaluation of Kitting Systems in Lean Production
Thesis work by Alper Corakci
Requirements in Materials Supply System Design
FORENAVET

PROD

LMF

LAGAG

SERO
Requirements per area
Materials supply

**Space**
- Design of kitting work from line stations

**Non-value adding**
- Kitting carts

**Ergonomics**
- Handelability in part
- Weight
- Lifting aids in materials handling

**Planning and Control**
- Order confirmation
- Workload in materials supply (balancing)
- Available information in materials supply
- Operator order (time, or not)
- Handling instructions
- Sequencing problems
- Materials handling instructions

**Flexibility**
- Façade shall conform to mechanical requirements

**Packaging**
- Return packaging - cleanliness
- Return packaging - inside packaging
- Return packaging - lid req.
- Return packaging - to the right return
- Standard packaging
- Handelability in packaging
- Packaging instructions

**Quality**
- Quality in handling
- Careful handling
- Picking errors in sequencing
- Delivery precision

**Vehicles and traffic**
- Access in factory for vehicles
- Geographical vehicles restrictions
- Right vehicles to deliver with
- Vehicle drivers not allowed to use computers in motion
- Restrictions in vehicle speed
- Ways of transportation
- Accessibility in materials façade for forklift truck
- No music in vehicles
- Transport routing
- Allowed vehicles
Laws and regulations

Space
Non-value adding
Ergonomics
12 kg vikt i manuellt hanterade lädor
Ergonomi
Hanteringshjälpmedel
Ergonomi

Planning and Control
Flexibility
Packaging

Quality
Protection
Without faults
Safety/Skydd
0,7m safety distance between equipment and moving object
Safety equipment
Environmental protection
Safety
Long pants
Req. on transportation equip. (sound, noise etc.)
Reflective clothing on personnel in truck iles.
Sound
Evacuation distance minimum 50 cm with driven line
Reflective clothing on sequencing personnel
Thank you for your attention

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