



Project „Flexible Assembly Processes for the Car of the Third Millennium (MyCar)“

Methodology Description

Highly reconfigurable assembly solution with permanent handling systems



HARMS+WENDE



Methodology approach

Basics for a Reconfigurable Process

Flexible clamping of different model parts.

Ability to align itself on the real panel from sequence to sequence.

Increase a number of variants produced in an assembly line.

Increase utilization at plant level (reutilization for successive production model)

with benefit on costs investments and environmental impact.



Benefits of Flexible Clamping head

Increase



- Production flexibility, up to 5 models in the same body shop line
- Full utilization of equipment
- Re-Utilization for new model
- Full Integration of gripper handling system

Reduce



- Number of gripper typology
- Energy consumption
- Maintenance requirements
- 20% Investment costs
- Time to market by 30%
- Reduce waste material