



adi putro

IMPLEMENTING GLOBAL SAFETY STANDARD ON MANUFACTURING LEVELS

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TWO MAIN PRODUCTION LINE

MICROBUS PRODUCTION LINE

JETBUS 5 JUMBO



JETBUS 5 MC



BUS PRODUCTION LINE

JETBUS 5 SHD



JETBUS 5 SDD





PRODUCTION PROCESS

- ENGINEERING AND DESIGN
- MATERIAL PREPARATION
 - SUB ASSEMBLY DEPARTMENT
- WAREHOUSE
- CORE PRODUCTION PROCESS
 - WELDING, PAINTING, TRIMMING AND INTERIOR,
ELECTRICAL AND WIRING, FINISHING
- QUALITY CONTROL PROCESS

SAFETY IS NOT A REGULATION - IT IS MANUFACTURING RESPONSIBILITY

- Transportation carries human lives everyday.
- Bus Body Manufacturer has direct responsibility for passenger.
 1. ENGINEERING
 2. WELDING PROCESS

KEY GLOBAL STANDARDS

ISO 9001 : 2015

- Product Consistency
- Continuous Improvement

ISO 45001 : 2018

- Worker Safety
- Safer Manufacturing Environment



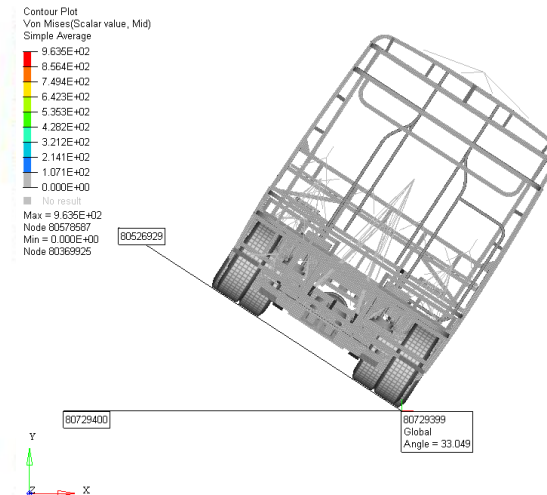
ENGINEERING AND DESIGN

Safety must start from Engineering, not after production.

1. Structural Calculation and Load Simulation
2. Design Validation before start producing

Comply with the Gold Standard UNECE R66.

- Rollover Strength
- Passenger Survival Space



PRODUCTION PROCESS : WELDING

High use of Mild Steel ➡ **EXECUTION** and **CONTROL** are the Key

- Welder Qualification
- Inspection on joints
- Jig Accuracy
- Apply more adhesive/bonding



Strong design can still fail if welding quality is inconsistent.

SAFETY CULTURE

“If production speed becomes more important than safety discipline, defects become inevitable”



- Continuous Training
- Internal Audits
- Open Communication
- Reporting Culture

PROFESSIONAL COOPERATION



MINISTRY OF TRANSPORTATION

Standardized Product:

- Dimensions
- Weight Distribution
- Safety compliance



NATIONAL SAFETY TRANSPORTATION COMMITTEE

- Design Improvement and Reinforcement
- Real world condition and accidents

CONCLUSION

Safety – Culture
Quality – Discipline
Improvement – Continuous

**Global Safety Standards is
the Foundation for Sustainable Growth and Public Trust**