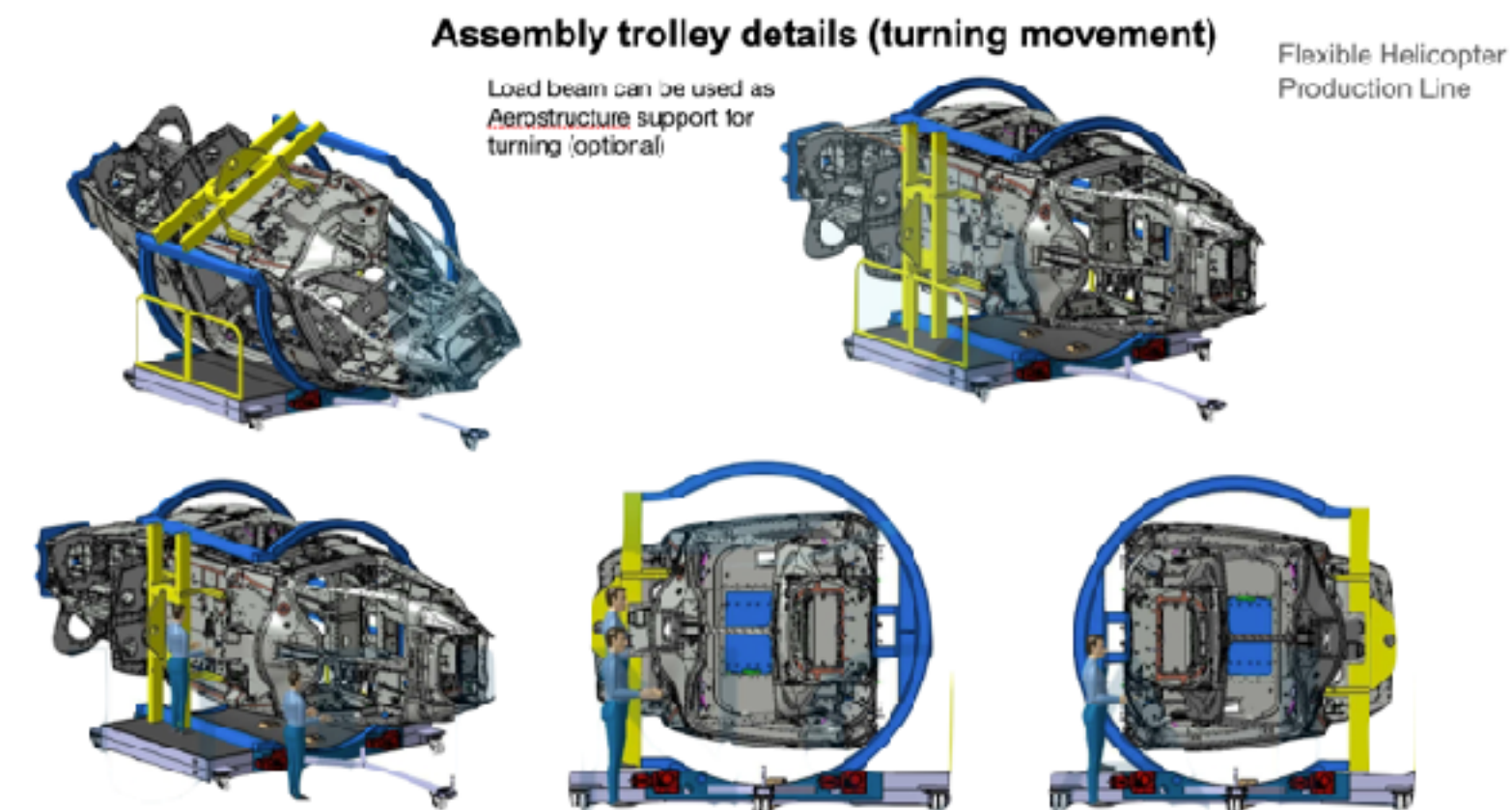


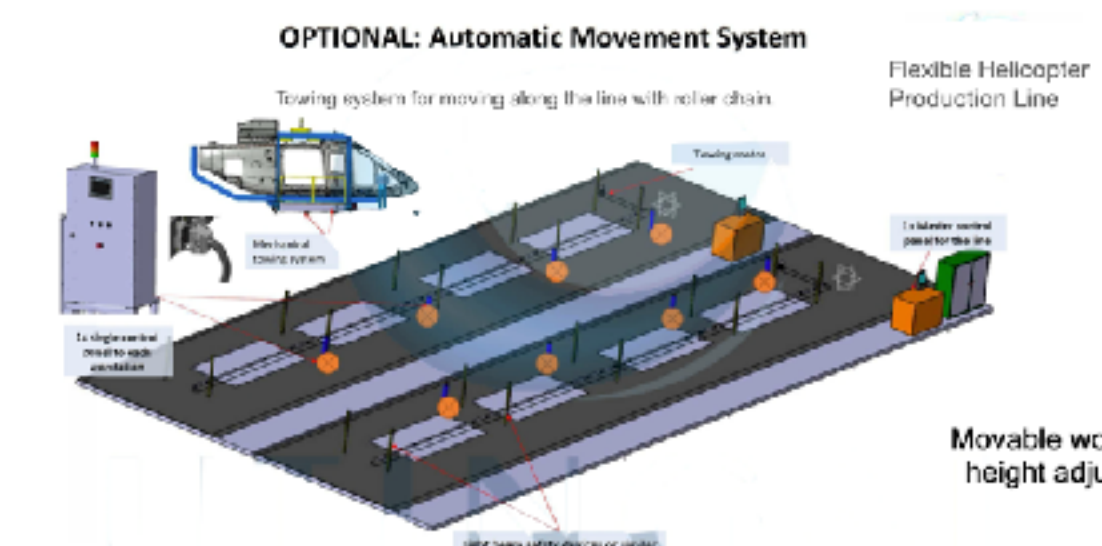
# EVOCON Solutions

## Flexible Helicopter Production Line Concept of Helicopter Assembly Line trolley

Design, manufacture, assembly, transport and setup system



Helicopter trolley following the specifications. Full and semi automated.

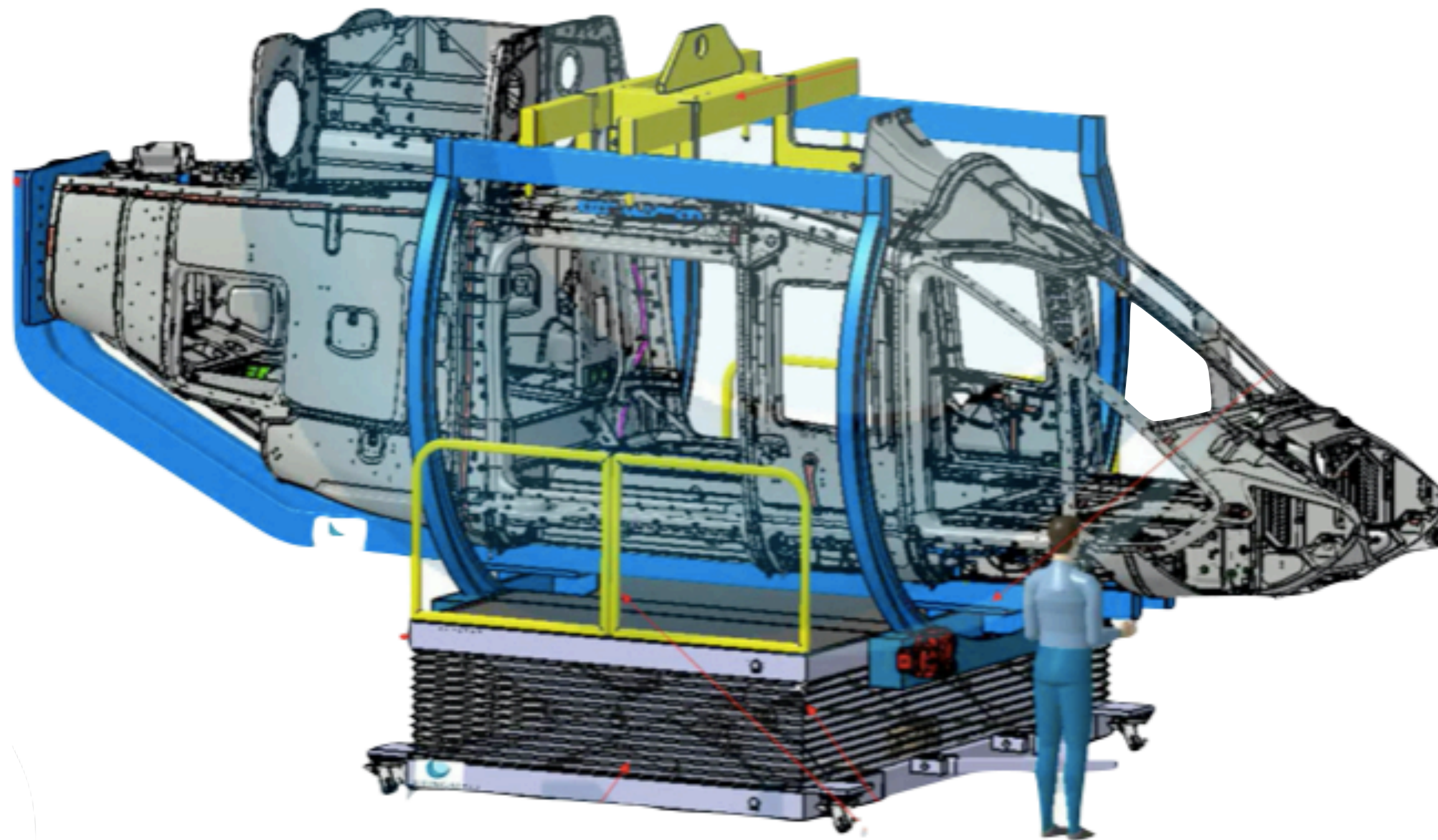




# EVOCON Solutions

## Flexible Helicopter Production Line

Concept of Helicopter Assembly Line trolley Design, manufacture, assembly, transport and setup system  
Helicopter trolley following the specifications. Full and semi automated and robotic support.





# EVOCON Solutions

## Flexible Helicopter Production Line

Concept data of Helicopter Assembly Line trolley Design, manufacture, assembly, transport and setup system  
Helicopter trolley following the specifications. Full and semi automated.

### Technical specifications



### General characteristics

- Crew: 2
- Capacity: 12
- Length: 14 m (45 ft 11 in)
- Width: 12 m (39 ft 4 in)
- Height: 4 m (13 ft 1 in)
- Empty weight: 4,240 kg (9,348 lb)
- Max takeoff weight: 5,670kg (12,500 lb) extended gross weight: 6,050 kg (13,340 lb)
- Max payload: 1,760 kg incl. up to 500 kg additional fuel
- Powerplant: 2 xTurboshaft engines
- Main rotor diameter: 12 m (39 ft 4 in)

Metric	Imperial
MTOW	1 650 kg
Maximum Range	800 km
Useful load	700 kg
Maximum Endurance	6.8 h
Hovering ceiling	4100 m
Service ceiling	6 080 m
Cruise speed	240 km/h
Maximum speed	250 km/h
Cabin Floor Area	433 m²
Cabin volume	5,3 m³
Genera capacity	1 pilot + 5 pas
Empty weight	920 kg
External load	900 kg



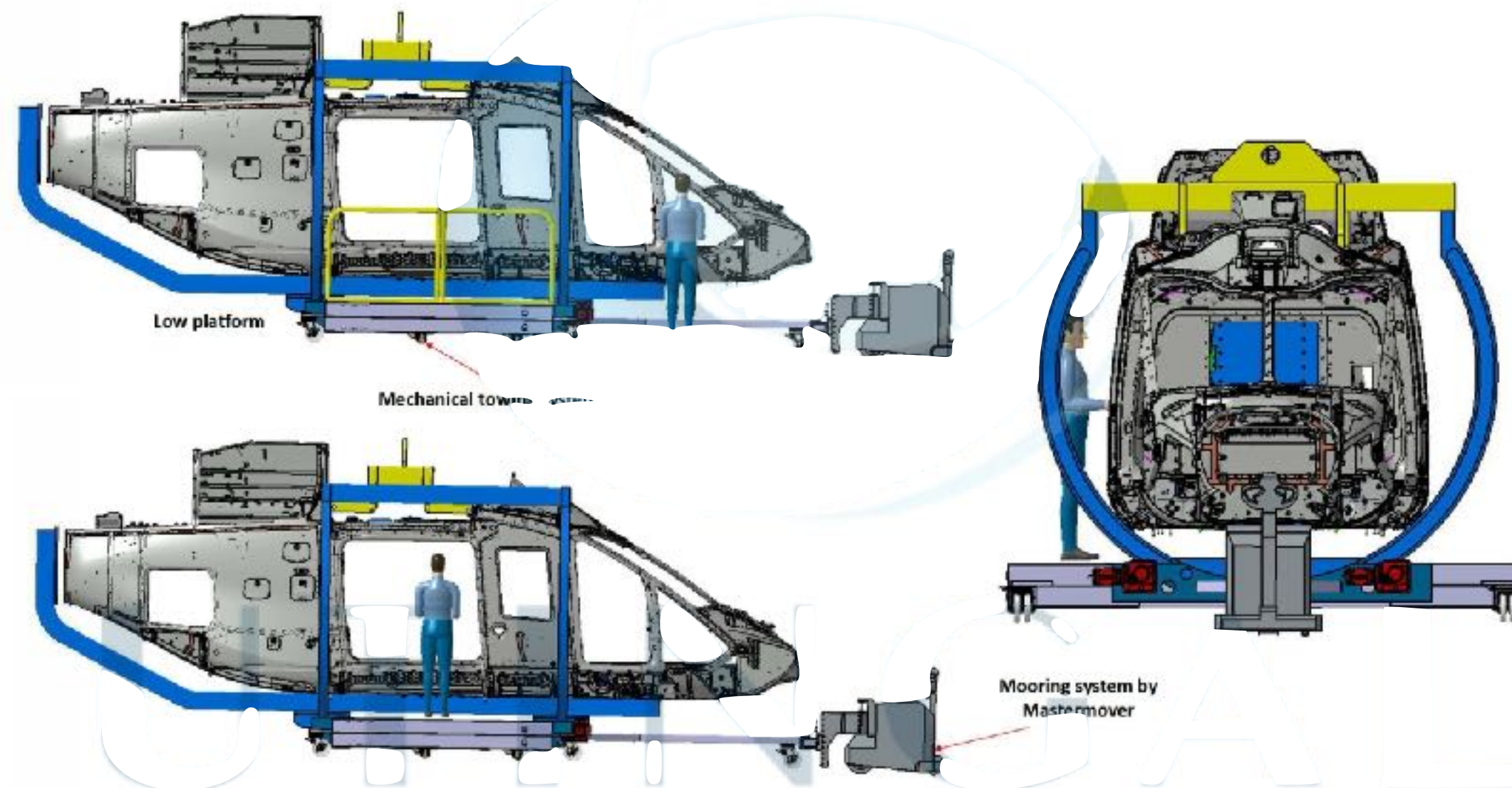
# EVOCON Solutions

## Flexible Helicopter Production Line

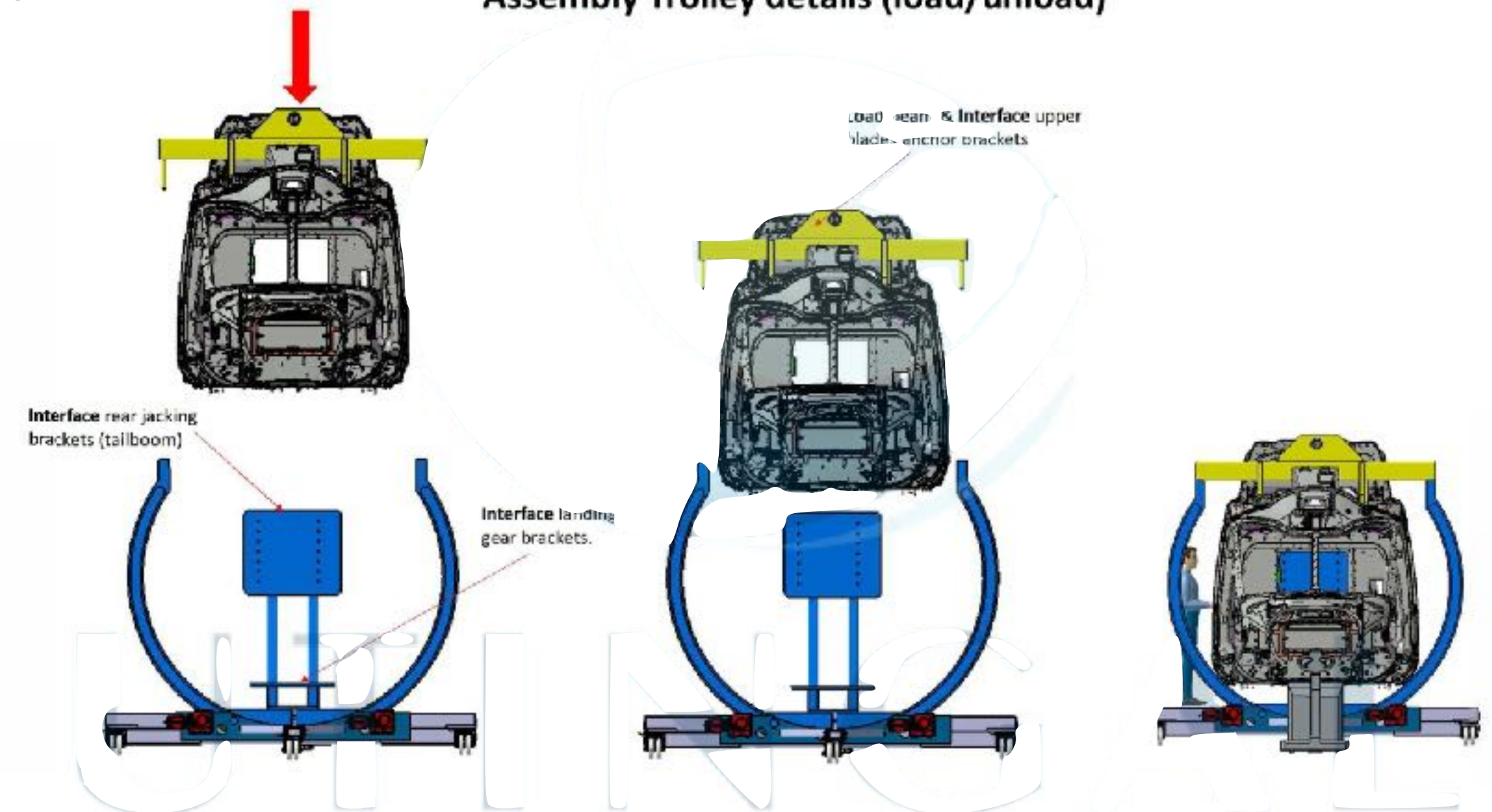
Concept of Helicopter Assembly Line trolley Design, manufacture, assembly, transport and setup system

Flexible Helicopter  
Production Line

Assembly Trolley details (trolley movement)



Assembly Trolley details (load/unload)





# EVOCON Solutions

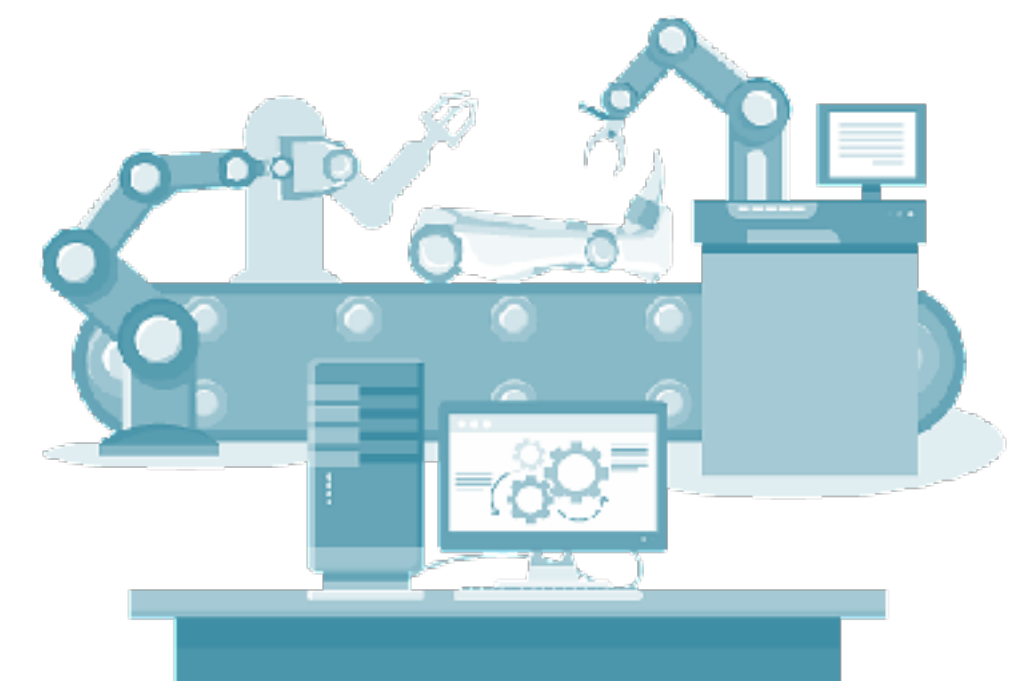
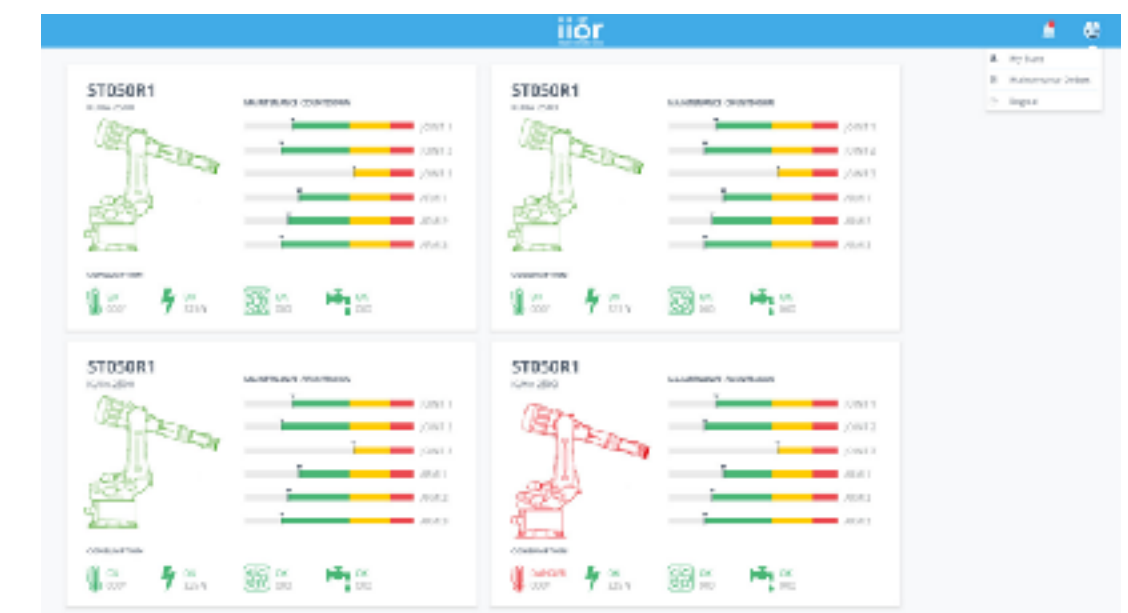
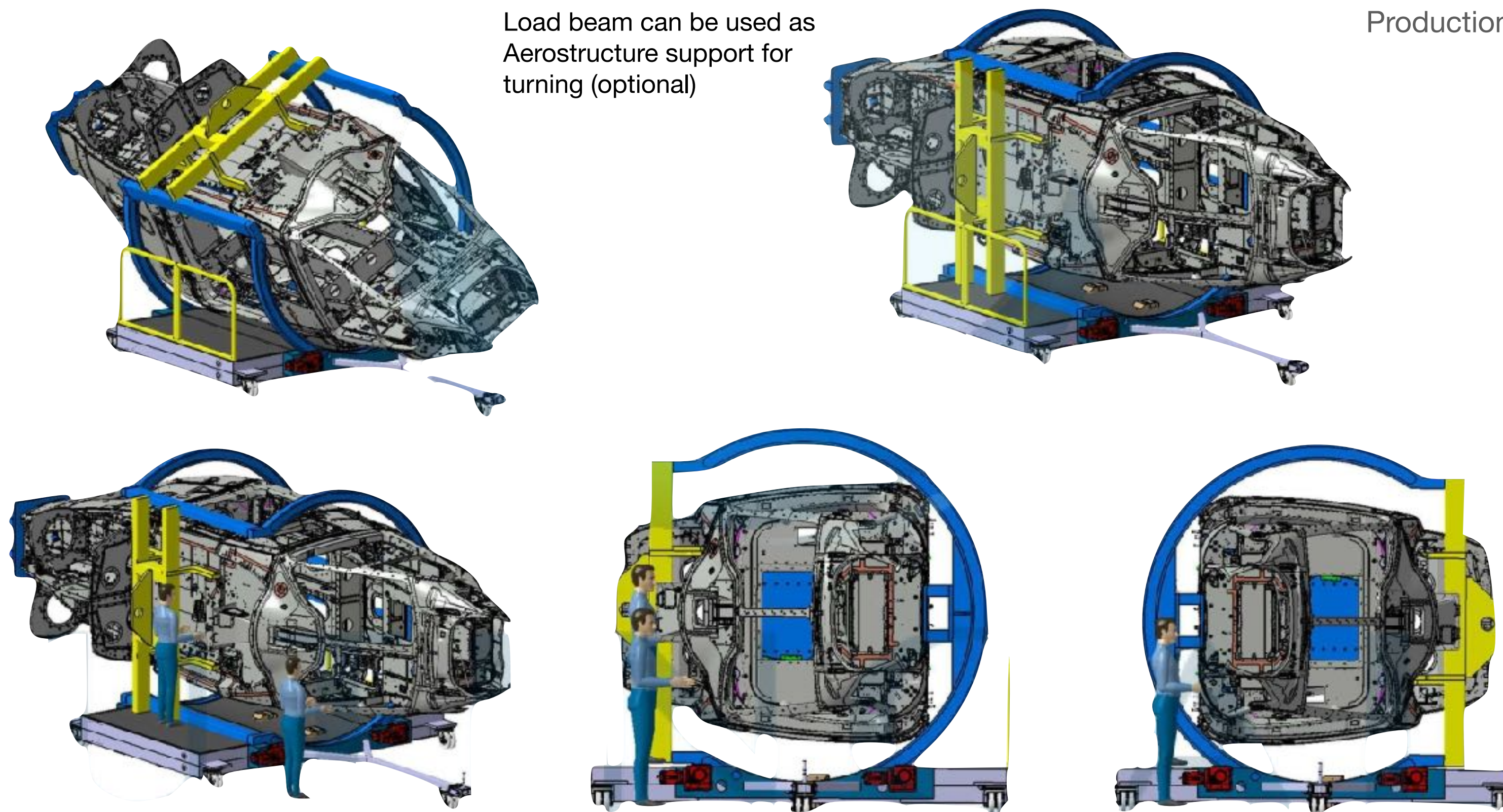
## Flexible Helicopter Production Line

Concept of Helicopter Assembly Line trolley Design, manufacture, assembly, transport and setup system

### Assembly trolley details (turning movement)

Load beam can be used as  
Aerostructure support for  
turning (optional)

Flexible Helicopter  
Production Line

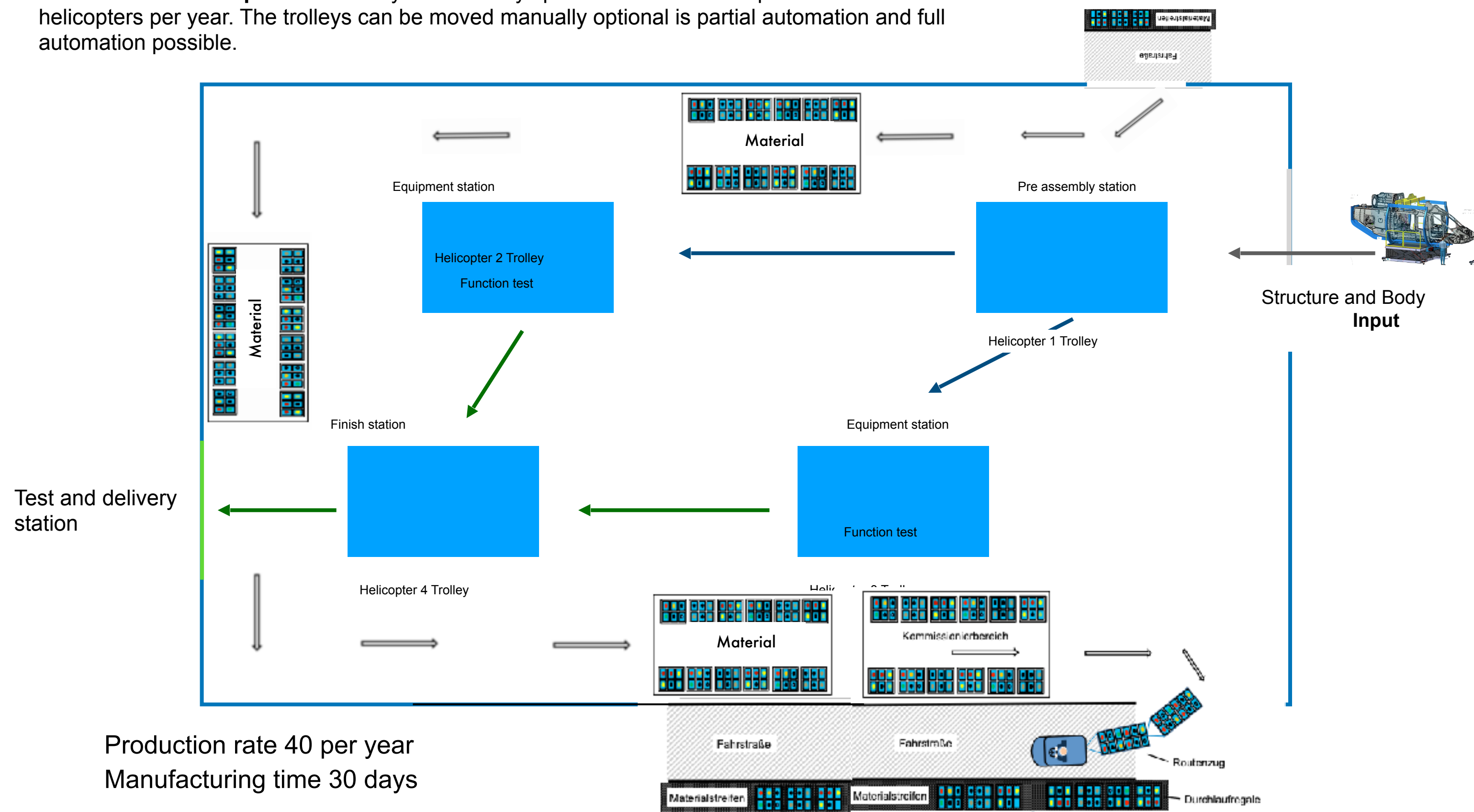




## Flexible Helicopter Production Line

Concept data of Helicopter Assembly Line trolley Design, manufacture, assembly, transport and setup system

Production line **example** with 4 trolleys and 30 days production time and a production rate of 40 helicopters per year. The trolleys can be moved manually optional is partial automation and full automation possible.



- The Flow line proposal is designed with 4 trolleys.
- The helicopters are fully rotatable in the jig
- Trolley should be able to go to the paint shop to paint.
- Protection of electrical systems against moisture and paint
- This proposal are moving with MasterMovern.
- Full or semi automation can be done.
- The Trolley is used inside the workshop and not outside.



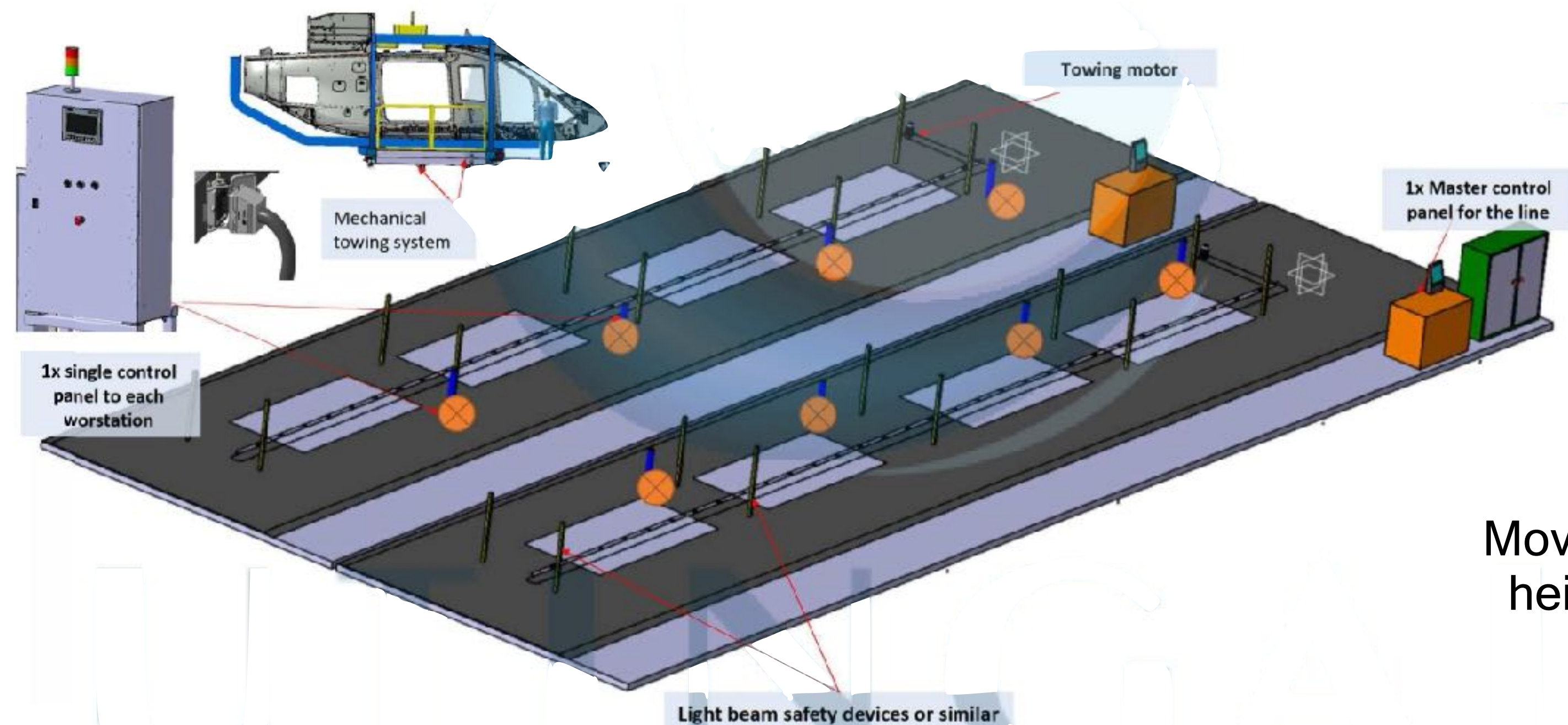
# EVOCON Solutions

## Flexible Helicopter Production Line

Helicopter trolley following the specifications. Full and semi automated.

### OPTIONAL: Automatic Movement System

Towing system for moving along the line with roller chain.



Flexible Helicopter  
Production Line



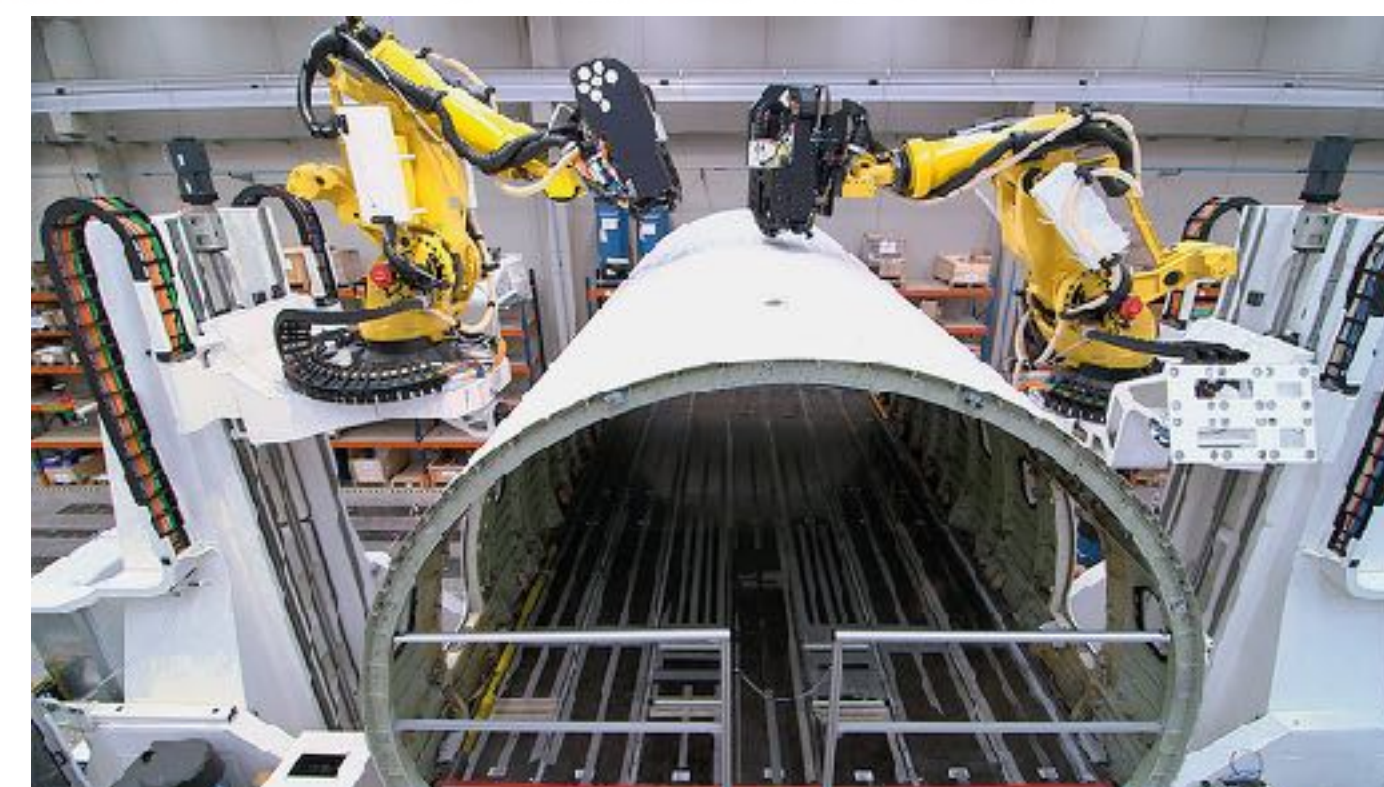
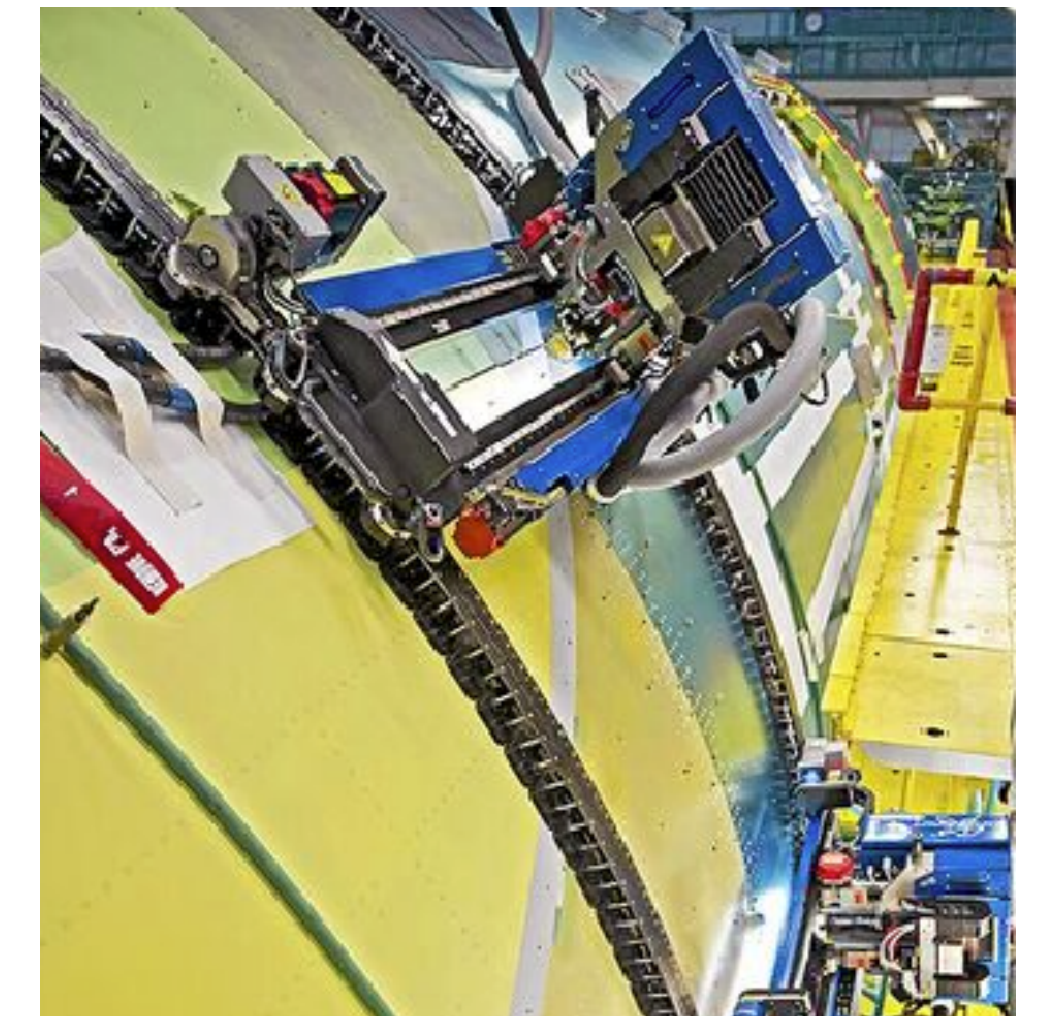
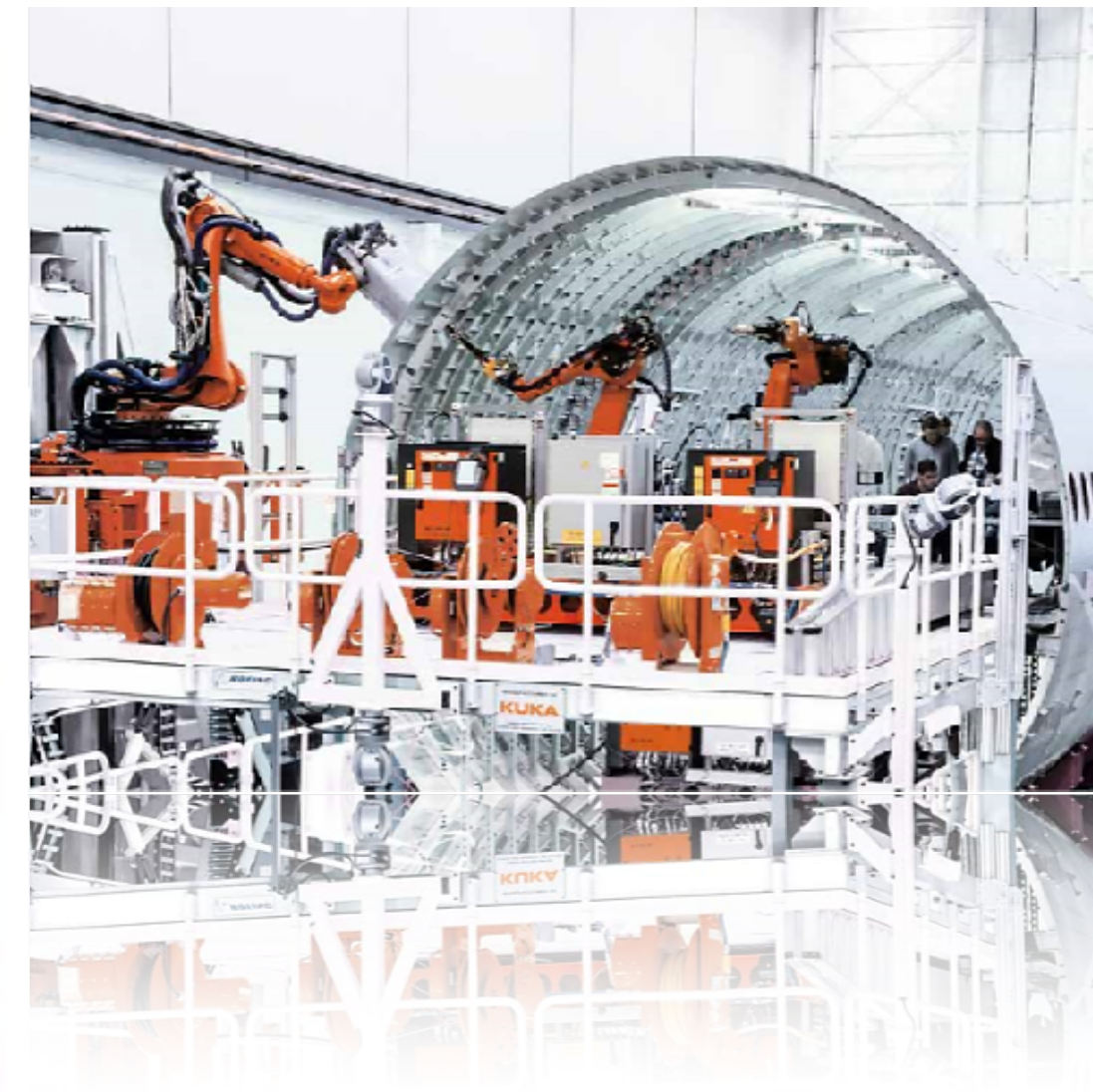
Movable working platform with rotation and  
height adjustable component jig support.



# EVOCON Solutions

## Flexible Automation Production Line

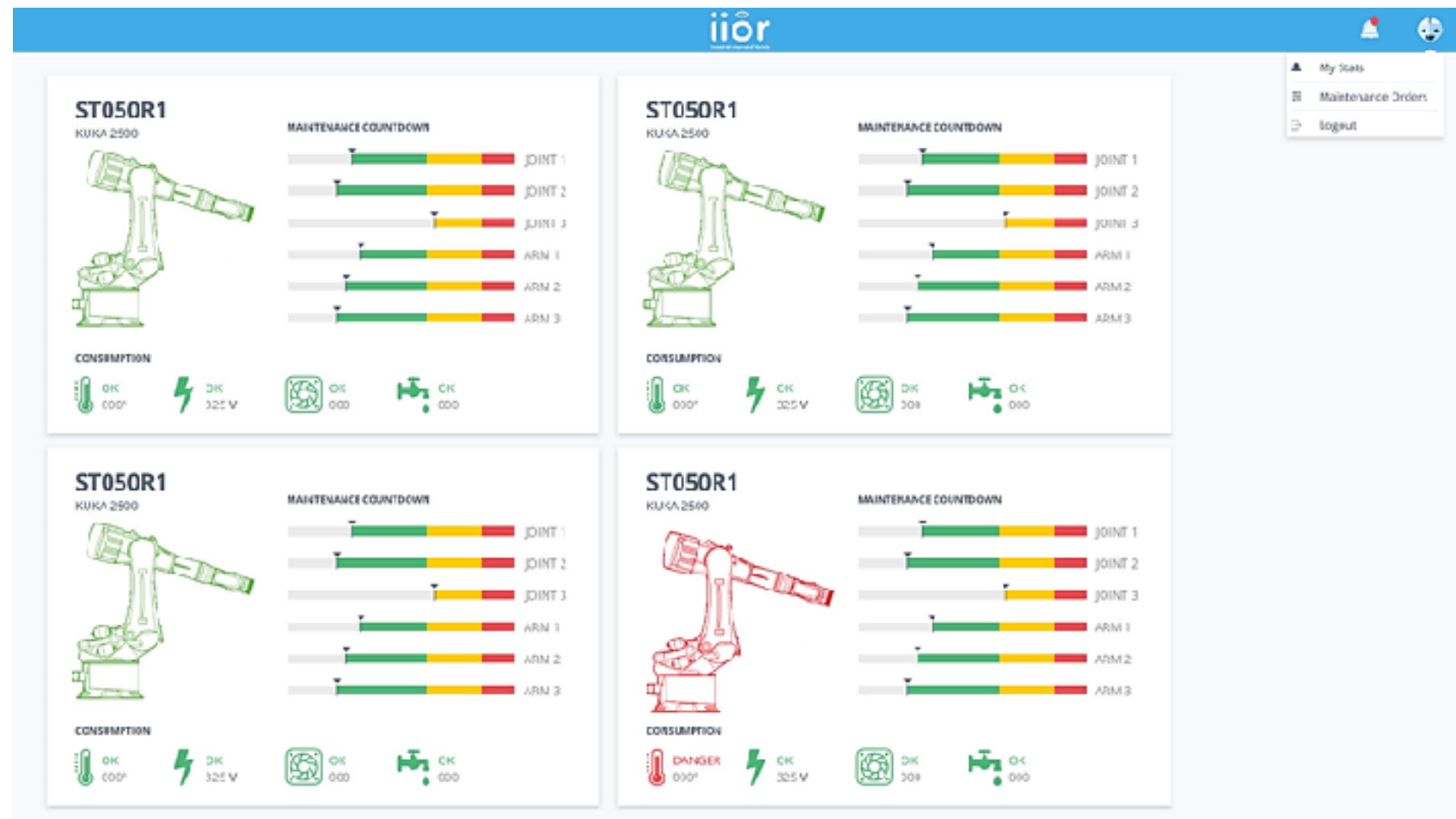
Helicopter Assembly Line full and semi robot automated.





# EVOCON Solutions

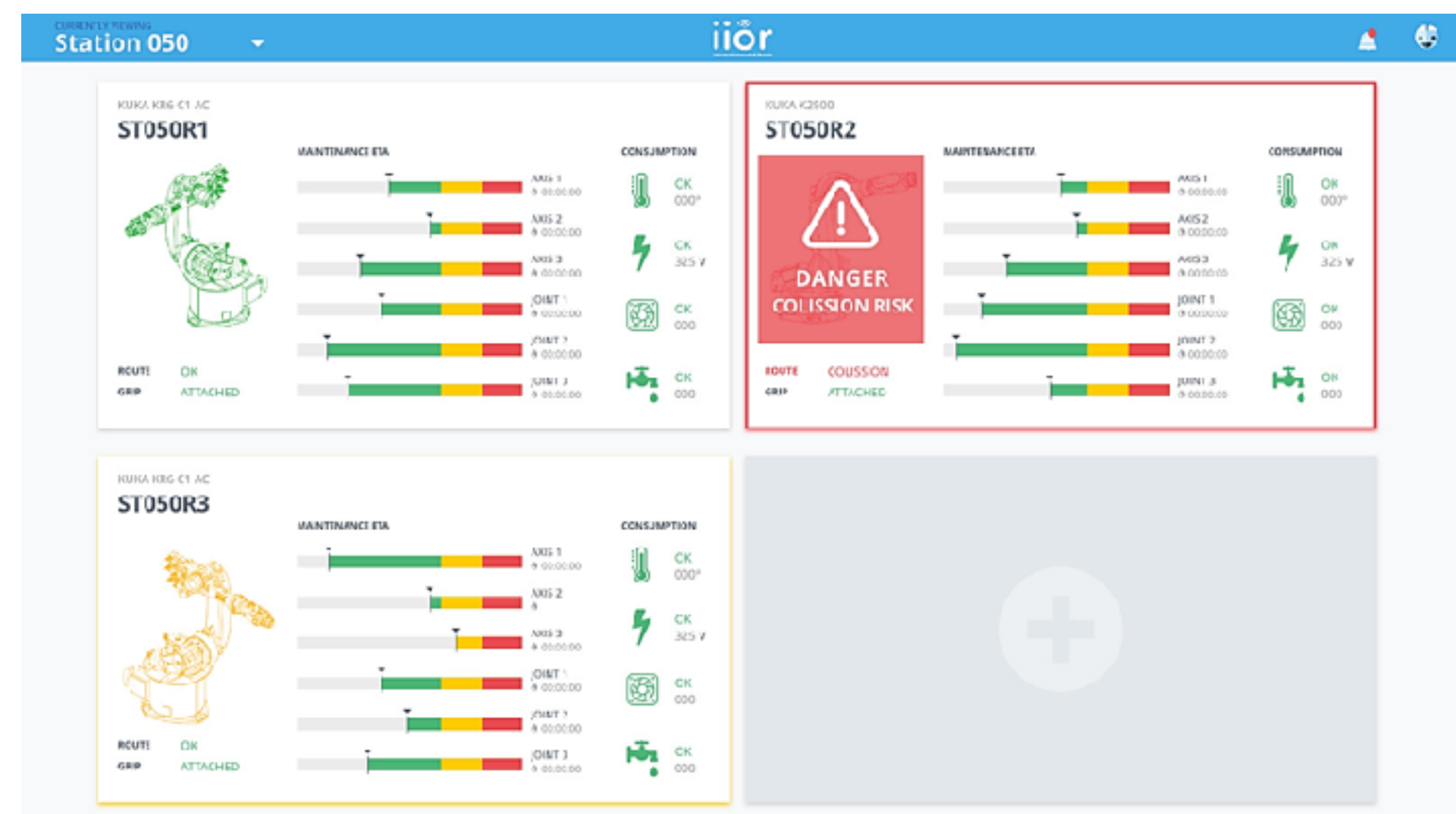
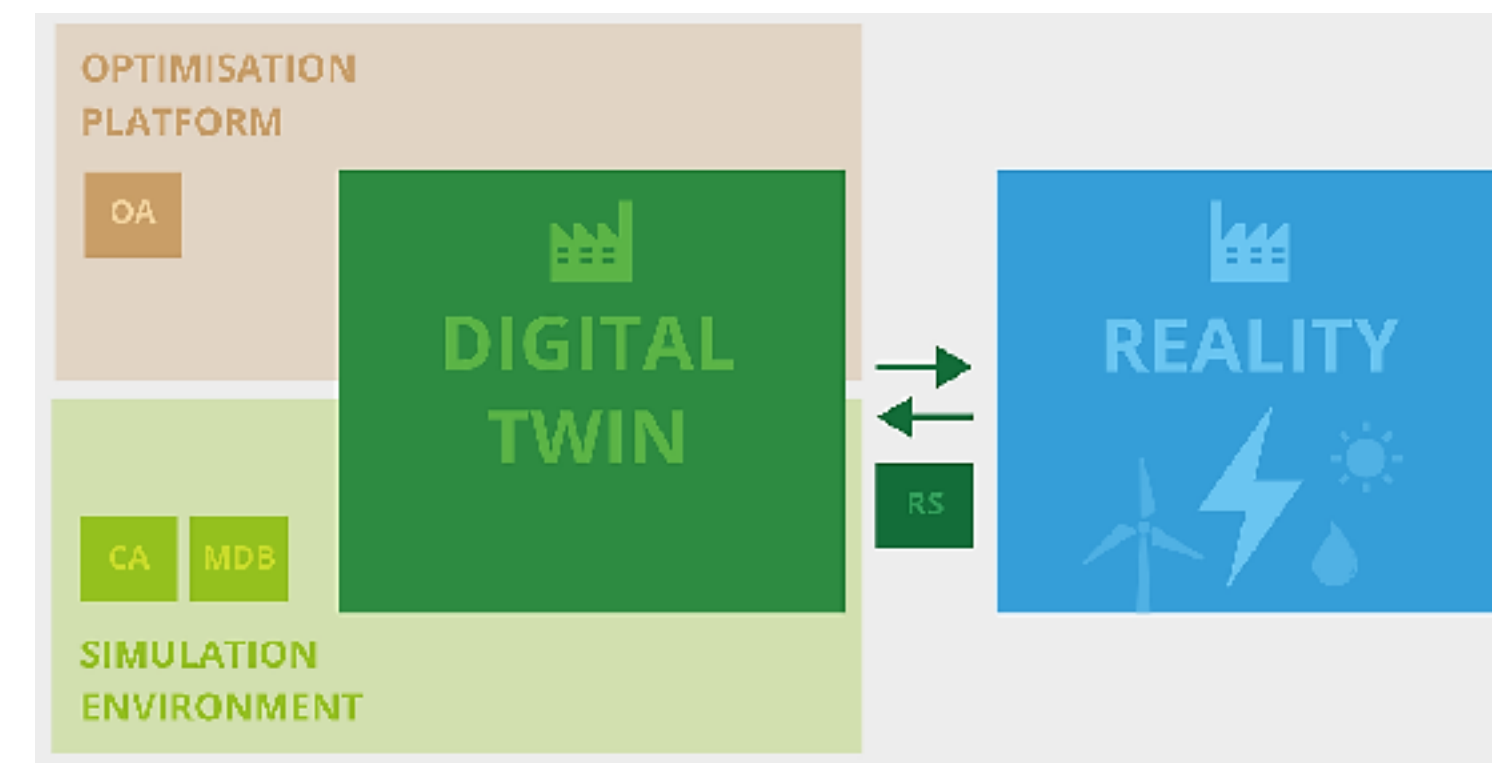
System Control error message on real time data



Online Monitoring of Robot-line

Target - actual comparison  
Recognize potential and benefit  
Data storage for long-term analyzes

- Real-time overview of the entire system
- Adjustment of line capacity at ongoing operation
- Online / offline access
- Plannable down-time



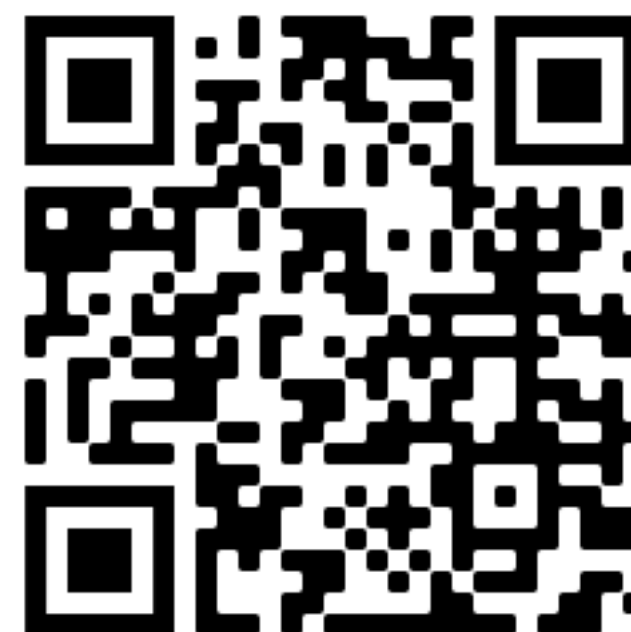


# EVOCON Solutions

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