

REFERENCES

AIRCRAFT DOCKING SYSTEMS

- MD 90 Heavy Maintenance and Painting Docking System / Saudi Arabian Airlines -

System includes nose docks, fuselage docks, wing docks, engine docks and tail docks.



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Scope of project:

Project planning, engineering, manufacture and assembly on site, final inspection, commissioning, training of operating personnel, documentation, warranty.

Completion: 2007

All docks are grounded, the floors are in aluminium and the structures are in galvanized steel for maximum corrosion resistance in most often 40°C and 90% humidity weather conditions.

The aircrafts are nose-in and the nose is inserted into a mezzanine where all the equipment inside the aircrafts have to be transferred by means of a special scissor lift.

The fuselage docks have 2 floors, for windows maintenance and painting from ground to fuselage crown.

Above the wing, the fuselage docks are in bridge shape overwing and can be put in place by tracks in the ground.

All docks are fitted with a hydraulic lifting system able to serve the aircrafts on wheels and on jacks.

The tail docks are also moved on tracks, and stocked at the hangar side during aircraft movement. When in place, they enable rudder movement and deposit inside the docks.

The engine docks have 3 floors and can be used with engine cowlings open to reach simultaneously the fan and the core.

All electric equipment is explosion-proof to allow painting in safe conditions.

The docks are compliant to European safety regulations EN ISO 14122 (Access to industrial machines), and ATEX (Explosive atmosphere environment)