

Outfit Stations

for

Eurofighter (Typhoon)

Client: EADS Manching, Germany

Supplier: MERO GmbH & Co KG
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Outfit Stations B30 D 000109

Function, customer requirements

The outfit stations are used for servicing of additional fuselage central parts and for the partial carrying out of the outfit assembly for different aircraft systems.

The movable working platforms are designed in such a way, that the fuselage central part could be docked-in easily. The accessibility to different assembly locations is guaranteed.

In addition, during design stage of the working platforms the attention has to be paid that docking of the fuselage central part will be possible when this part is on the assembly and transportation pallet as well as on the hoop lifting truck.

The two longitudinal platforms were equipped with power supply needed for the carrying out of the assembly works on both levels and the lower working level is equipped with bright light.

Description of the dock, problem solution

Structure

It consists of two longitudinal platforms, which will be pushed to the fuselage central part on both sides. Each traversing platform connects the both longitudinal platforms in front and in back and allow herewith a circulating working at the fuselage central part.

The individual platforms are provided with a single lock to be operated easily. In their basic pattern the longitudinal platforms are performed mirror-inverted. Attached to the left longitudinal platform there is an access stair while the right platform due to place reasons is equipped only with an emergency ladder.

Components of platform structure

- The platforms consist of welded aluminium profiles, which will be screwed together during assembly.
- Easy running brake- and detectable castors performed oil- and fuel resistant.
- The platform floor is coated with oil- and fuel resistant burling decking.
- Lower side of the platform floor painted in bright colours.
- 50 mm high kick board provided all around the platform decking which prevents A/C damages from possible down falling tools etc..
- All connection contours are padded with an bumper protection

Platform installations

Each platform side in the lower level is equipped with sufficient illumination, which allows the main works without an additional lamp.

Each platform is equipped with sockets for electric power supply, compressed-air- and (non-oiled compressed air) nitrogen connections and cable rolling-up device.

A warning light on the outer side of both platforms announces the operation of the hydraulic system.

The electric installation will be connected to the hangar sided eldrant. The dock connection will be made via the left platform half (primary platform) with built-in protective current transformer and isolation check with audible / optical warning. In the case of recognition of a mistake, isolation check controls switch off the platforms currentless.

The compressed air installation is carried out with galvanized tubes. The feeding occurs from the left platform.

The nitrogen installation is also carried out with galvanized tubes. The feeding occurs also from the left platform.

The earthing of the aircraft structure occurs via an earth wire of the hall sided eldrant to the aircraft earthing point. The earthing of the platform structure occurs via electrical installation.

