

# A320neo Pylon Equipment Assembly Line ... STEP INTO THE FUTURE - INDUSTRY 4.0



## PYLON ASSEMBLY ON ITS FASTEST WAY

Toulouse, St. Eloi – 2017 Airbus S.A.S. placed an order to MCE GmbH to assign 3 Equipment Assembly Lines for the Pylons of the new Airbus aircraft A320neo.

MCE GmbH delivered a turnkey assembly Line including concepts, engineering, manufacturing, set up, and commissioning to the complete satisfaction of our customer Airbus S.A.S.



Every line consists of 6 stations. In the first station, the unequipped Pylon is loaded into the system and then automatically transferred by an overhead conveying system from station to station to comply with the equipment assembly. Every 6 hours, a new Pylon is loaded, and a finished Pylon gets out of each line. Moreover, the assembly requirement of two different Pylons (CFM, P&W) in each line is also fulfilled using a change adapter plate system.

Each station supplies the necessary equipment, tools, and commodities in the most effective way to guarantee optimized working processes. This logistic concept with all the part flow was also project scope and developed by MCE GmbH.

Complementary to the usual requirements such as work safety, ergonomics, and accessibility MCE GmbH integrated a line management system where every data of each production step is recorded and converted to show with the Andon system the status of the production just in time.

In addition to this technological challenge, MCE GmbH met all qualitative and scheduling requirements from Airbus S.A.S.

#### ***Facts & Figures:***

<b>Customer:</b>	Airbus S.A.S.
<b>Project Period:</b>	2017-2018
<b>n° of lines:</b>	3
<b>n° of stations:</b>	18
<b>Rate:</b>	1 Pylon in 6h (1 line), in total 3 pylons