

# KUKA

KUKA Aerospace Solutions

## KUKA ROBO TIG WELDING



■ **KUKA ROBO TIG WELDING**  
**AUTOMATIC TIG WELDING CELL**  
**FOR AIRCRAFT'S COMPONENTS**

In the aerospace industry, complex products must be produced with high productivity aligned with high quality and precision. The KUKA automatic TIG welding cell is used for the manufacturing of several thin and strongly curved contours. TIG welding is already known as a critical process in the industry in general but with the KUKA TIG welding equipment it is now used in aerospace for the production of ducts.

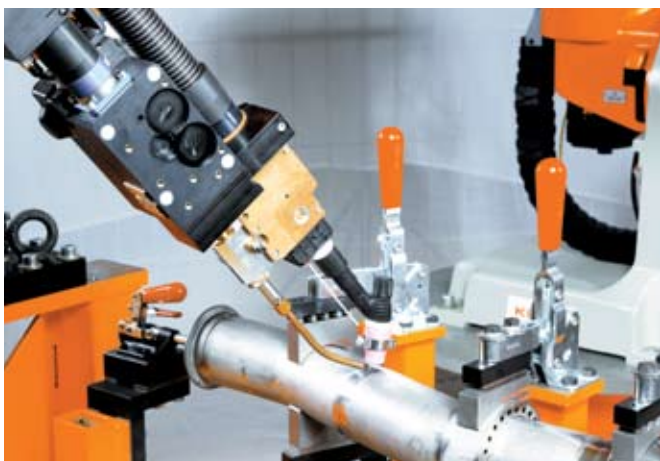
In this application the robot carries the welding torch while the components are positioned in a fixture. To guarantee a high quality process, the welding parameters are precisely adjusted as well as the shielding gas, which flows also within the component. A torch changing equipment is placed to improve the set-up time of the cell. The fixture is reconfigurable designed in order to allow the production of various components and for further enhancement of the production.



LAYOUT EXAMPLE

TECHNICAL DATA	
Foot print:	4 x 3 m
Cycle time :	Depending on Component
Weldable Materials:	Stainless Steel, Inconel, Aluminium
Price:	On Request

COMPONENTS	BASIC SCOPE	OPTIONS
■ Robot	■	
■ Positioner	■	
■ Kuka Wire Feeder	■	
■ PLC Siemens S7	■	
■ Control Cabinet	■	
■ Welding Machine	■	
■ Control Cabinet for the Robot	■	
■ Safety Fence	■	
■ Component Fixture	■	
■ Base Frame		■
■ Tool Changer		■



Specifications regarding the characteristics and usability of the products do not constitute a warranty of properties. They are intended to serve informative purposes only. Some items of equipment depicted in the illustrations are optional, and are not included in the standard scope of supply. Solely the respective contract of sale shall be binding in respect of the extent of our supplies.

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