



ASTRA

AUTOMATED SYSTEM FOR TURBINE REPAIR APPLICATIONS

Welding machinery for aviation applications

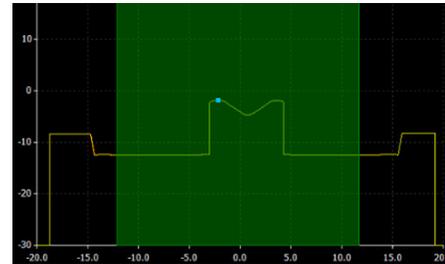
Automated System For Turbine Repair Applications - ASTRA

Whether you have to do seam or repair welding of objects like turbine casings, shroud rings or general turbine parts which are worn by abrasion, the ASTRA is the right choice to go with. Its 7-axes kinematic system offers high flexibility and accessibility for complex parts while the demand for shop floor is reduced to a minimum. Its two integrated inverters support microplasma (max.50A) and softplasma (max. 300A) welding procedures.

Features

Seam Tracker

The seam tracker improves process stability and quality of the weld. The weld path is scanned by laser triangulation, the scanned profile is further processed in a software which compensates the X/Y offset of the plasma torch.

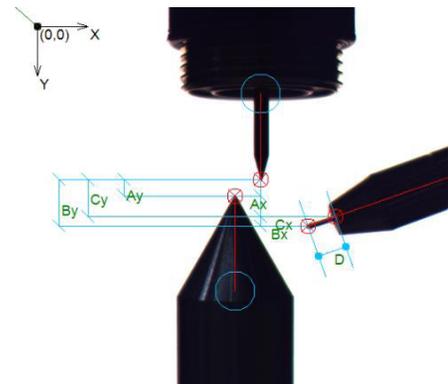


Arc Voltage Control – AVC

The physical correlation between plasma arc length and arc voltage - the longer the arc, the higher the arc voltage - enables the control of the distance between plasma tip and workpiece. This feature guarantees a constant welding process and therefore superb welding results.

Camera Image Processing – CIP

A camera checks the position of the electrode & the wire stick-out relative to each other and defines the TCP - enabling constant start conditions for every welding process.



Technical

Specifications	
Processable materials	Fe-, Ni-, Co-, Ti-alloys
Welding procedures	Plasma & TIG
Wire diameter Ø	0.5 / 0.8 / 1.0 / 1.2mm
Max. workpiece dimensions (Ø x H)	Ø8-1000mm x 700mm
Max. payload	500kg incl. clamping devices
Machine weight	3,500kg
Dimensions (LxWxH)	3660 x 2500 x 3850mm

