

Case Study

Electrical and Hydraulic Upgrade of Sierra Skiver

Industry/Sector: Manufacturing

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Introduction

AH Garner are industry experts in the design and manufacture of hydraulic cylinders, utilising an advanced in house machining capability to deliver turn-key solutions. Their Sierra USA skiving machine is recognized as the fastest of its kind and forms an important part of their operational capability. In early 2023, AH Garner approached MTT with a view to securing the long term reliability and maintainability of this critical machine.



Challenge / Opportunity

Due to the age and operational fatigue of the machine, AH Garner engaged MTT to conduct a capability enhancement venture via a full scale upgrade of the electrical, control, and hydraulic systems of the machine.

The objective of the upgrade was to significantly extend the life span and maintainability of the machine by utilizing current technology, whilst maintaining capability. Due to limited regional support from the machine OEM, AH Garner approached MTT to carry out a large scale retrofit at 30% of the cost of a new machine.



Results and Impact

MTT's team of skilled electrical engineers designed, manufactured and integrated an updated electrical control cabinet and operator station using a Siemens 828Dsl platform with S120 series drives. Our team of experienced machine service engineers then successfully carried out an extensive strip out and installation of the electrical and hydraulic systems including replacement drives, motors, cables, valves, pipework, sensors, cooling system...etc The final result brought the skiver's operational capacity up to peak performance standards at an affordable cost.

Services or Tools Used in this Project?

This venture required MTT's strong expertise in electrical, mechanical, and control design & manufacture of CNC machines alongside our comprehensive management and support services.





Speak to our professional team
about your next project

MTT have an extensive certified nationwide team able to support, repair, build and maintain most machine types. We are able to undertake complex projects and retrofit ensuring an increase in profitability and efficient operation.

To talk with one of our engineers or
book a machine assessment

Contact us now on
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