



Aerospace Industry Support Initiative

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AISI CASE STUDY

Industrialisation of Rubber Pilot Ladder Steps



Beneficiary:
IBIS Manufacturing

Project title:
Rubber Pilot Step Ladder Manufacturing Process

Industry:
Marine

Impact and Benefits



Technology Enhancement



Skills Development

Company Profile

IBIS Manufacturing was established in 1985 with the mission of making a footprint in the marine industry. The company specialises in manufacturing safety products, rigging equipment and pilot ladders for the marine industry.

Intervention

Pilot ladders are pivotal for ship boarding and harbour navigation. These ladders necessitate durable materials, particularly for the lower steps exposed to seawater, hence the reliance on rubber components.

Through the support of the Aerospace Industry Support Initiative, IBIS Manufacturing is currently revamping its rubber step design and manufacturing processes. The intervention focuses on redesigning the rubber steps to optimise component and material costs, aiming to reduce expensive setup and material costs while adhering to ISO799, the international standard for pilot ladders. This restructuring is expected to enhance efficiency and cost-effectiveness.

Prior to the intervention, IBIS Manufacturing faced challenges with its production process for rubber steps, and they relied on hand-operated machines and recycled car tyres. This method was time-consuming and limited production to meet local supply demands.

The increased production capacity resulting from these improvements will enable IBIS Manufacturing to satisfy the international demand for pilot ladders once product certification is achieved. Moreover, in-house training will be essential to familiarise employees with the new production methods, contributing to job creation within IBIS Manufacturing.

Project Location:

