



Advanced Manufacturing System

# Advanced Manufacturing System (AMS)

## Stainless Steel Manufacturing Case Study



# STAINLESS DESIGN

**Stainless Design** was established in 1988 and specialises in technical equipment manufacturing for a wide range of industries including architectural, brewing, dairy, food, filtration, packaging, pharmaceutical, pulp and paper. Stainless Design is well equipped to manufacture a variety of equipment and components in the 'light to medium' range. Products are made which add value to consumer products or products are designed specifically for customer applications. A focus of Stainless Design is to provide timely development of new products and through their investment in a sophisticated plant they can now offer quick prototyping. Through innovation and demand they have been able to develop export opportunities in Australia, South Africa and Great Britain. The company's solid growth is attributable to the dedicated pursuit of quality through the establishment of a 'top team' of industry professionals.



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## The Challenge

With a commitment to continual improvement of service through substantial investment in new technology, Stainless looked for a manufacturing system to enhance operations and ease production planning processes.

With such a vast array of products, Stainless needed a range of Bill of Materials (BOM), but also required them to be flexible in order for them to be customised for specific client requirements.

Stainless Design's reputation for consistent high quality and consequently high customer expectations meant timely production was needed to ensure satisfaction. A manufacturing system was needed to ensure that the management of production process eased the struggle of meeting production deadlines.

## The Solution

The Advanced Manufacturing System (AMS) was employed to integrate with the existing financial system. Customised reports were designed to show how the work was organised. The demand and supply analysis modules were incorporated to assist with organising work and allocating outwork.

Specifically, demand analysis is used to produce recommendations for required production runs. Customer demands can be linked to production runs, and work can then be organised to inventory as well as to order.

The supply analysis module helps Stainless Design manage their

outwork planning process. It analyses inventory stock levels, opens purchases orders, lead times and components required to produce reports that specify what outwork is required. AMS's interaction with the supply process of the accounting system means the delivery of the outwork can be automatically issued to the appropriate production run.

Stainless Design's need for the ability to quote clients for customisation of standard BOM's was easily met by AMS's flexible BOM structure. It also means that once the quote is accepted, the job can be scheduled, and a sales order is raised in the accounting system.

## The Results

The implementation of AMS has simplified the management of production planning in a variety of ways for Stainless Design.

Manufacturing processes and financial information are seamlessly integrated and BOM's are easily customised to meet specific customer requirements.

Deliveries of outwork are now managed with efficiency with the help of AMS's supply analysis to ease the burden of this process.

Customer expectations are met with order dates being satisfied in an accurate manner. AMS has achieved this by bringing about efficient

production planning and scheduling.

Not only this, AMS assists with accurate consumption logging and provides information vital for decision making that was previously not available so quickly and easily.



**To see how AMS can help your business, please contact us at:**

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