MADE **SMARTER**

Made Made Smarter's support has been incredible in helping us achieve this first step in our digital transformation.

> **Edward Greaves**, **Managing Director**



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Joshua Greaves

Mastering the mix with digital transformation

A manufacturer of industrial mixing equipment has achieved record sales and unlocked future innovation after investing in transformative data and systems integration technology.

Joshua Greaves & Sons (Greaves), based in Ramsbottom, makes systems for mixing products for a range of companies in food and drink, pharmaceuticals and chemicals sectors.

With the support of Made Smarter, it has replaced paperbased manual processes with a software solution that integrates business functions including sales, design, purchasing, planning, manufacturing and assembly.

The impact of real-time access to key data has been extensive. The solution has improved accuracy and scheduling and resource planning, cut lead times from four weeks to 48 hours, increased capacity and productivity, improved product costing accuracy, boosted sales, as well as reduced waste and carbon emissions.

Edward Greaves, Managing Director, said: "We've always had a customer centric approach, but in manufacturing there are so many variables that one small thing could disrupt the process and impact your ability to deliver what you had originally planned.

"To have real-time visualisation and to be able to move quickly to overcome challenges. we have been able to give customers more accurate lead time quotes and often exceed their expectations. This has increased customer confidence and enhanced our reputation.

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The Challenge

Greaves is a fourth generation family business with systems used by pharma and vaccine manufacturers, as well as food, cosmetics, coatings and

journey has seen investment in two programmable CNC machines, 3D design software, digitisation of its design archive and the adoption of cloudbased collaboration tools. It has also worked with the Manufacturing Technology Centre to redesign its factory

To achieve this the business needs to increase productivity by reducing the manufacturing cost, increasing its capacity and reducing lead times.

then allocates raw materials from stock, if available, or generates a purchase order, if

Doug Watson, Production

reliant on the use of manual

recording and spreadsheets

each stage of production,

for logging of batches through

stock control, purchasing and

scheduling. It meant we had

no effective way of measuring

and no way of implementing

efficiency improvements.

rates of production, no visibility,

Gareth Hughes, Head of Sales &

Operations, said: "We didn't have

accurate records of raw material

which could lead to unforeseen

stock levels and purchasing,

reliably plan manufacturing

resources. This could lead to

late and inaccurate deliveries,

low productivity performance,

lost sales and customer service

delays and an inability to

Greaves turned to Made

started with a digital

Smarter for support, which

transformation workshop to

analyse its people, process

(MRP) software as a key

With a grant from Made

Smarter, Greaves invested in

a CIM50 MRP production data

This works by allocating every

component and sub-assembly

sales order is allocated a works

component, manufactured

barcode. On top of this each

order number and a unique

barcode. The system then

draws down a bill of materials

the existing 3D Design system,

from the approved design in

with an item number and

and product, and to create a

digital roadmap. This identified

material requirements planning

issues."

solution.

The Solution

capture system.

Manager, said: "The crux of our

challenge was that we were too

The software uses a scheduling module that generates a production plan which integrates with the purchasing plan to ensure materials are available before production issues the work order.

When in production, machine operators will scan a barcode printed on the batch traveller, thereby capturing process time and logging any issues in real time.

The system can create reports by product, by order/batch, by machine and by operator, enabling management to identify areas of best practice and improvement.

The Benefits

Greaves has so far piloted the new system on its IBC mixer range, with striking results.

Enabling traceability and capturing and displaying real time production and stock data has vastly improved the accuracy and scheduling and resource planning.

As a result, lead times for orders of its IBC products have reduced from four weeks to 48 hours.

This increased capacity and accuracy of product costing has resulted in record sales vears.

New digital processes have led to increased productivity and reduced waste. This in turn has significantly reduced overall carbon consumption, accelerating the company towards its sustainability goals.



CASE

STUDY

There has also been a cultural shift in favour of digitalisation at Greaves, with a number of operators moved into more skilled roles.

Jordan Foster, Engineering Coordinator, said: "Naturally, change can be disconcerting. especially when you're disrupting processes people have been using for years. But the impact of technology has given everyone a boost and shown what is possible."

The Future

The next step for Greaves is to roll the system out to its spares products, and then all ranges.

This is forecast to further increase in operational efficiency, sales capacity and growth. The target is to increase productivity by 20%.

Greaves is also looking to integrate with its customers, allowing them to see live order progress.



digital transformation."

chemicals sectors.

Its digital transformation

Greaves' ambition is to grow its market share for custom integrated mixing systems and increase sales of discrete

The business has been hampered by two major challenges: an inefficient factory layout and production flow; and a reliance on paperbased manual processes across business functions; from sales, design, purchasing and planning to manufacturing and assembly.