DynamxMFG®

Powered by TotalControlPro®

Manufacturing Operations Platform

Unlock smart Manufacturing Operations Management in your production facilities with the DynamxMFG® cloud platform of manufacturing applications.

The AI-ready platform transforms planning, execution, inventory and sales management, real-time production control and shop floor data capture.

TotalControlPro® the experts in process, brings you DynamxMFG® the flexible solution that connects plans to action, increasing productivity and reducing downtime.
Helping you to #Make things Better, #On time, and #Profitably.

Overview

Speaking with Manufacturers that are both customers and collaborators, they have stated that the key to success in manufacturing is making things to the right quality, delivering when they say they will deliver and doing this profitably, whilst ensuring employee engagement and overall plant efficiency.

DynamxMFG® is the consequence of working with over 40 Manufacturers on their needs and pain points. We understand that often the process management and data collections systems in use are operated separately and disconnected. Whether using an ERP or excel, people spend too much time finding out what's happening in order to take action, and often that action takes too long, or is too late.
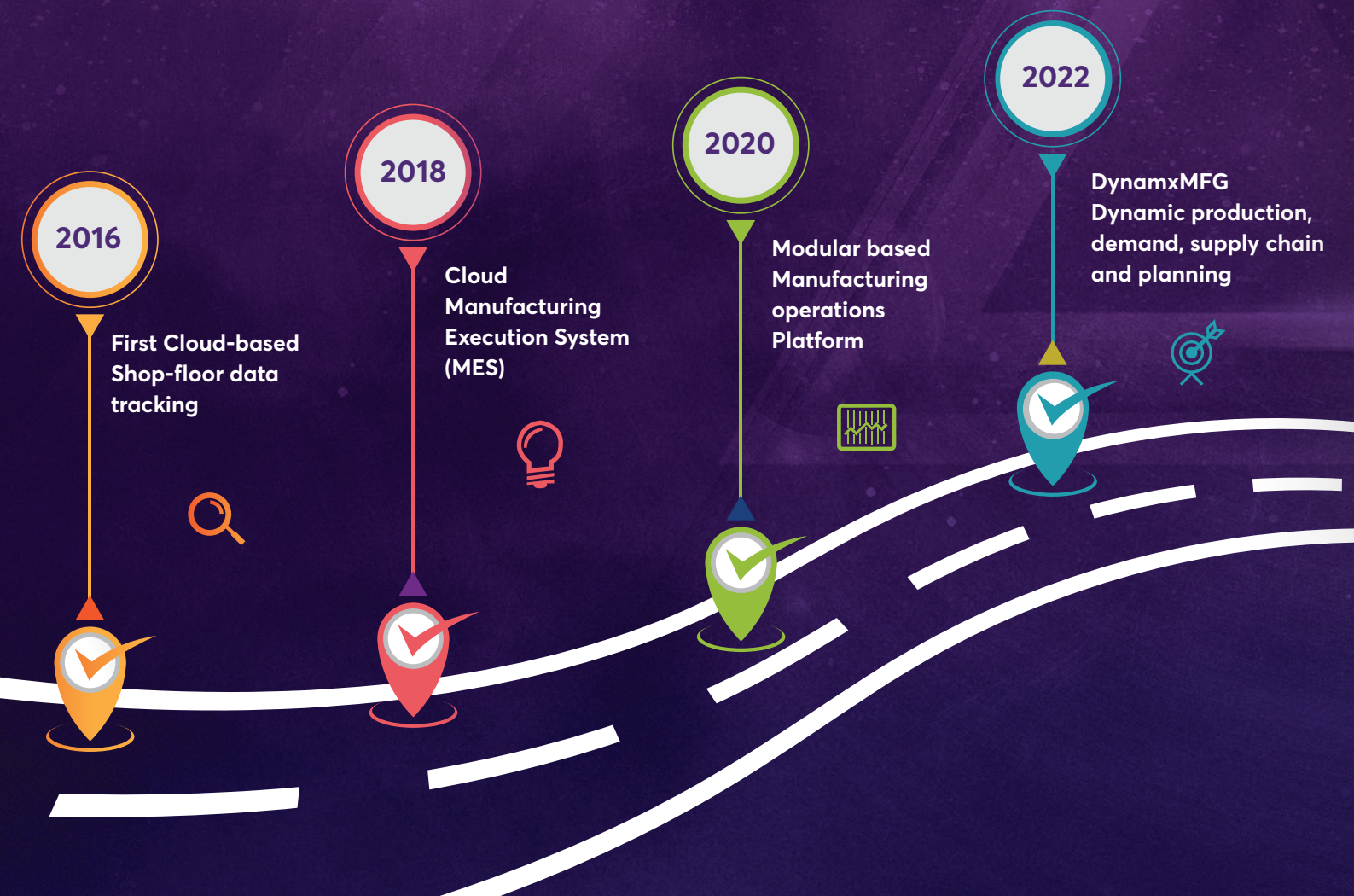
DynamxMFG® is a next-generation manufacturing platform that combines machine learning, and cognitive automation to provide you with the infrastructure you need to compete with the best in a rapidly evolving manufacturing world.

One client said "Clearly your system has been built by people who understand the pain points in manufacturing, and you've provided some real solutions to painful problems" Production Director, SME Fabricator.

This user subscription-based platform is designed to meet the needs of demand-based manufacturing, the need to collect specific data on the shop floor in real-time, append the production process with this data, and be agile to deal with supply chain fluidity and energy management. This is achieved via specific operation areas that cover smart work planning, shop floor data capture, manufacturing execution, process control, inventory management and real-time performance reporting.

The right resources, at the right place, at the right time, doing the right task, against the right job.

Our Innovation Journey

2016
First Cloud-based Shop-floor data tracking

2018
Cloud Manufacturing Execution System (MES)

2020
Modular based Manufacturing operations Platform

2022
DynamxMFG Dynamic production, demand, supply chain and planning

Manufacturing Platform Overview

Manufacturing Execution System (MES)

Track people product and process to connect, analyse, adapt and evolve the manufacturing process.

Our tracking and execution system, takes all the demand and production data and makes it available instantly to the production and shop floor teams. Enabling clearer instructions and improved production control.

✓ Dynamic Routing, allowing rapid deployment of works orders, to operations and work centres, to give full real time visibility of what's in work and where.

✓ People product and process, control, Dynamic fields simply deployed per operation, allow on the spot QA checks, and process routing.

✓ Utilise any web-enabled tablet or devise for immediate data capture and process tracking.

Resource Management

Create a full digital representation of your plant, enabling management of people, machines, tools, shifts and work centres.

✓ Create the rules of engagement, which team and what machines are available for production planning and real time allocation of work, to enable better utilisation.

✓ Capture detailed understanding of you plant operations and capacity enabling rapid and effective process improvements.

✓ Manage exceptions to availability, holidays, sickness, and machine downtime.
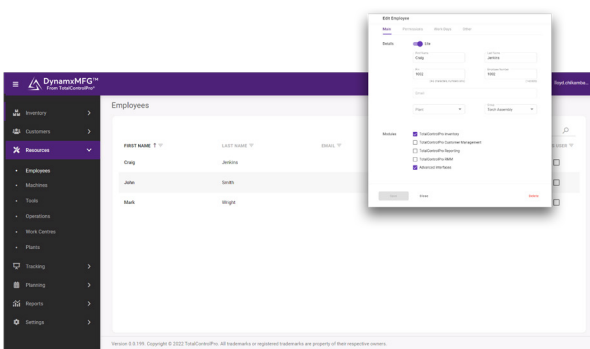
"40% improvement in productivity - straight out of the box. Now we are working on the next level"

**Marcus Trofimov, Managing Director, Silverstone Composites**

SILVERSTONE COMPOSITES

Manufacturing Platform Overview

Customer Management

Manage custom orders with detailed designs and specifications, track non-conformance and change requests and view the entire audit trail at the touch of a button.

✓ Build and manage quotes, orders and works orders with real time access to costs margins and specifications.

✓ Synchronise with Inventory for automated Bill of Materials (BOM).

✓ Manage all customer details; invoice and delivery addresses, contacts and full project and order lists.
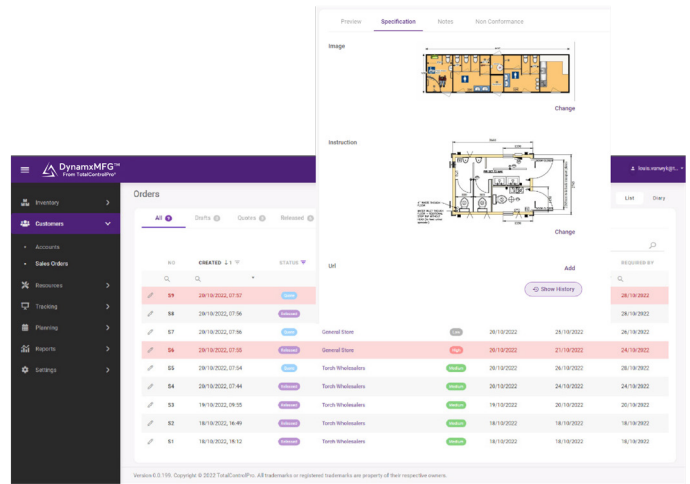
Inventory Management

Real-time inventory tracking helps you improve inventory management and ensures that you have optimal stock available to fulfil orders. Improving accuracy, reducing costs, save time, improve Business Planning and improve Customer Service.

✓ Accurate stock availability, reorder levels and economic use and build management.

✓ Integrate with shop floor booking in and dispatch functionality for end-to-end order management, confidently track locations, costs & batch/material details.

✓ Advanced features include; serialisation for full inventory use and audit trails, BOM revision management, clarity on average/last purchase price and cost of WIP.
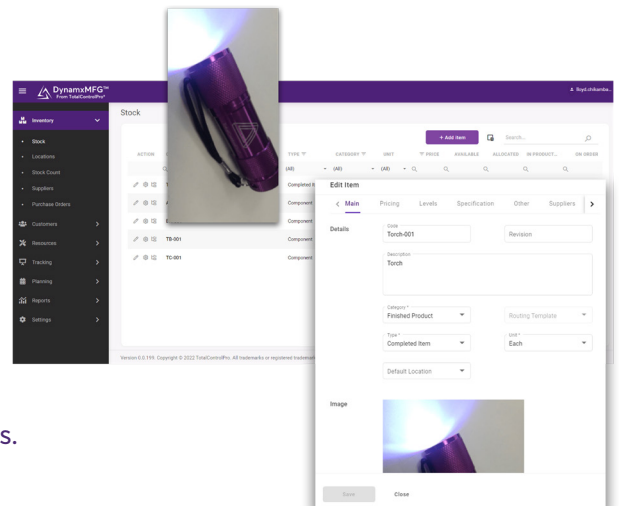
"TotalControlPro® enables us to review, optimise and reward performance and compare actual costs against predicted costs for each job."

D. Laverick, Production Manager, Mowden Controls

MOWDEN CONTROLS

▷▷▷ WHAT YOU CAN EXPECT

The Business Need

Our basic MRP system was limiting our manufacturing capacity, we needed a system which would enable the automation of processes, remove duplication and paperwork, increase efficiency and obtain accurate data.

We had the following business challenges;

- **Weak Data Management -** manually track workflow & job monitoring
- **Manual Paper-based systems** with multiple siloed areas
- **High maintenance requirements** for production management
- **Human error** when preparing production packs
- **Lack of connectivity,** delay in responding to issues

The Solution Provided

We have recently implemented the TotalControlPro® shop floor data collection system, "Moving to a process managed by a shop floor data capture system will eliminate the need for a paper-based system, enable single entry of data, reduce administrative load on production management and improve quality control."

The Business Need

The production of a wide range of complex precision-engineered parts at different stages made monitoring and tracking increasingly difficult. The original system Silverstone Composites had in place could not keep up and restricted the company from developing and processing increasing orders. Previously engineers were working from paper-based schematics and drawings. They needed a way to completely digitise their process.

With their current systems, Silverstone Composites weren't able to pinpoint the stoppages in production due to miscommunication, delays in manufacturing and lack of stock availability. TotalControlPro® quickly noticed this was an issue. We highlighted to the Silverstone Composites team that being able to visualise these issues would enable all team members to view real-time red flags around current orders and react to each situation accordingly.

The Solution Provided

By facilitating the core functionality of the TotalControlPro® software, Silverstone Composites are able to digitise their complete process. The software provides full visibility of the order flow, traceability of resources, job time tracking, monitors batching features and identifies stoppages and breakout issues. The software enables real-time communication both within and between teams. Those in laminating now know the fundamentals being worked on at the cutting station and therefore when to commence the laminating job stage.

The Business Need

The first challenge Kal Tire faced was its outdated system which was threatening to topple. The business wanted to update its system and bring modern technology to their production process. They were looking to produce reports and follow big data rather than make decisions based on spreadsheets and paper-based systems.

They sought:

· Access: Real time 24/7 global access to the status of the manufacturing facility
· Simplicity: A system easy to set up and use, with no need for complex or expensive IT installations
· Productivity: Record, track and compare job and worker productivity & timing, as well as identify any
   pitfalls in processing to reallocate resources
· Reporting KPI's and management information
· Traceability and tracking of production resources based on big-data sets and timing records

The Solution Provided

Kal Tire's integration of the barcode system has allowed for more traceability with capturing more data on timings. The versatile and wholly adaptable system has allowed them to look online to find data on tyre production currently occurring in the field.

Second phase integration of the TotalControlPro® software was to enable greater traceability. Kal Tire sought to capture more real-time data base don inventory management. By entering a second phase of system alterations Kal Tire have been able to make more meaningful changes based on the capturing of big data sets and information of timings produced by the TotalControlPro® software.

KALTIRE™

▷▷▷ **RESULTS YOU CAN EXPECT**

+30 MINUTES PER OPERATOR PER DAY

10% DECREASE IN DOWNTIME

IMPROVE MACHINE UTILISATION

20% INCREASED PRODUCTIVITY

FULL VISIBILITY OF THE PROCESS

REDUCE WASTE

25% REDUCTION IN LEAD TIMES

10000 HOURS OF LOST PRODUCTION TIME RECOVERED

OPTIMISED USE OF RAW MATERIALS

40% PRODUCTION IMPROVEMENT

ALL ORDERS DELIVERED ON TIME

100% PAPERLESS

IMPROVED PROCESSES

15% INCREASE IN PRODUCTIVITY

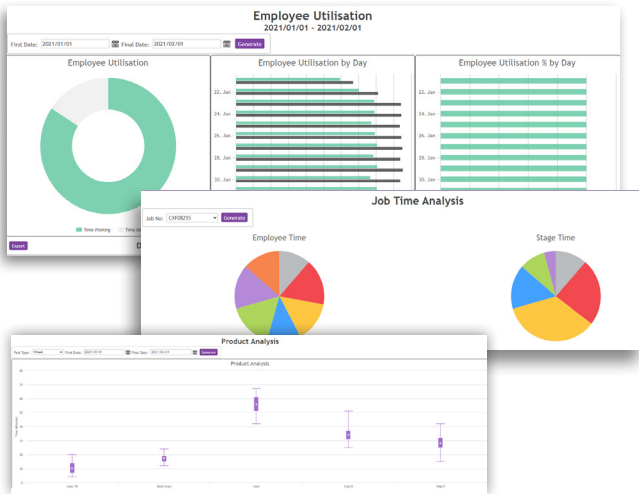**20%** IMPROVED EFFICIENCY

MANAGE AGED INVENTORY

Validated results and quotes from our Customers

Manufacturing Platform Overview

Manufacturing Intelligence

Produce powerful manufacturing intelligence reports to understand labour and machine productivity, production efficiency and all round performance and utilisation.

✓ Access immediate, real-time standard reports built by manufacturers for manufacturers.

✓ Unlock visibility of your unique processes via customised reports delivering data-driven insights.

✓ See what's working and identify the gaps to improve productivity, overall equipment and labour efficiency.

Planning & Scheduling

BETA Dynamx Planning developed with Safran Landing Systems and Made Smarter.
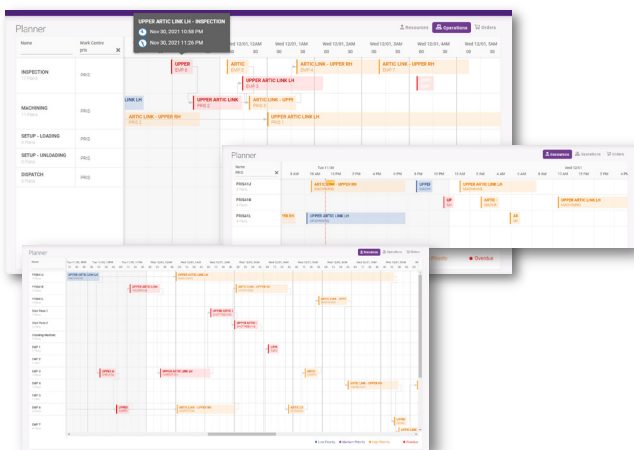
Make complex scheduling decisions based on, real-time datasets, move from **expediting to a 100% agile planning and scheduling process.**

✓ Reduce downtime and optimise assets, production capacity, and utilisation to drive productivity improvements.

✓ Improve **on-time-delivery**, significantly reduce **inventory costs,** transform **utilisation** KPIs such as **OLE, OEE.**

✓ Make significant inroads to the companies NetZero targets through optimum use of resources and managing out waste.

"We had an inhouse system, but it left no visibility of the shop floor, now we can see in the moment where each part of each order is throughout production and bring together ready for dispatch. "

**Andrew Mountford, Manufacturing Operations**

Venesta
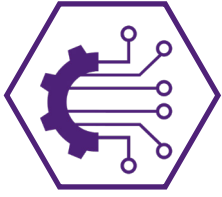
Business Integration

Take what works from your current business systems and connect the data across your organisation. Link Accounts, CRM, CAD, Excel, Web Order, ERP and many more.

✓ Transfer your current business data into your operations platform for rapid digital adoption and transformation.

✓ Add, connect and automate new business applications to suit changing organisational needs.

✓ Combine data from multiple sources to view enterprise-level analysis of your business and its processes.
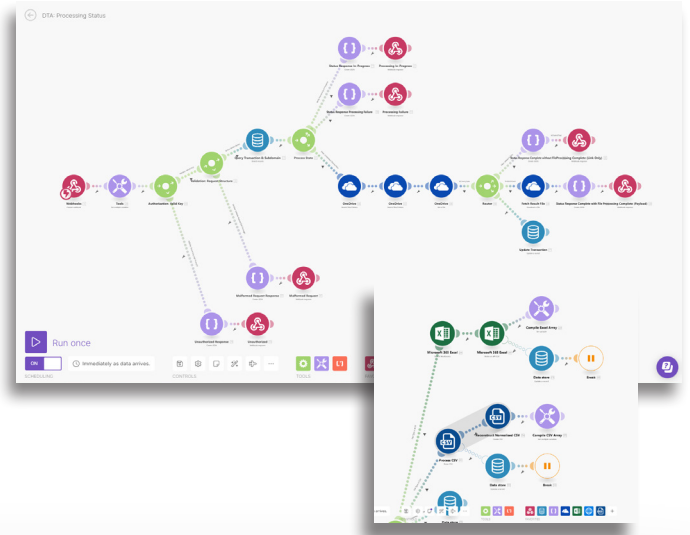
Shop Floor Data Capture

Two-way communication from shop floor to top floor

Select from a range of purpose designed interfaces that best suit your working environment and run on any web enabled device.

Flexible shop floor applications to manage;

✓ Book goods in.
✓ Pick and track stock locations.
✓ Create batches.
✓ Capture data at each production phase.
✓ Touchscreen and/or QR code tracking.
✓ Capture QA data and part specific measurements.
✓ View and manage work allocated to work centres and/or specific resources.
✓ Dispatch with all necessary documentation.
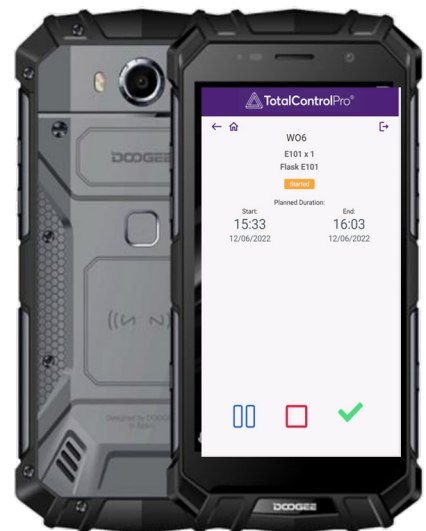
"We are now able to stream real time information so both the customer and our operatives can monitor jobs in real time, detecting problems as they may unfold."

Rebecca Lee-Panton, Compliance Manager, Fabricon Design

Fabricon Design.
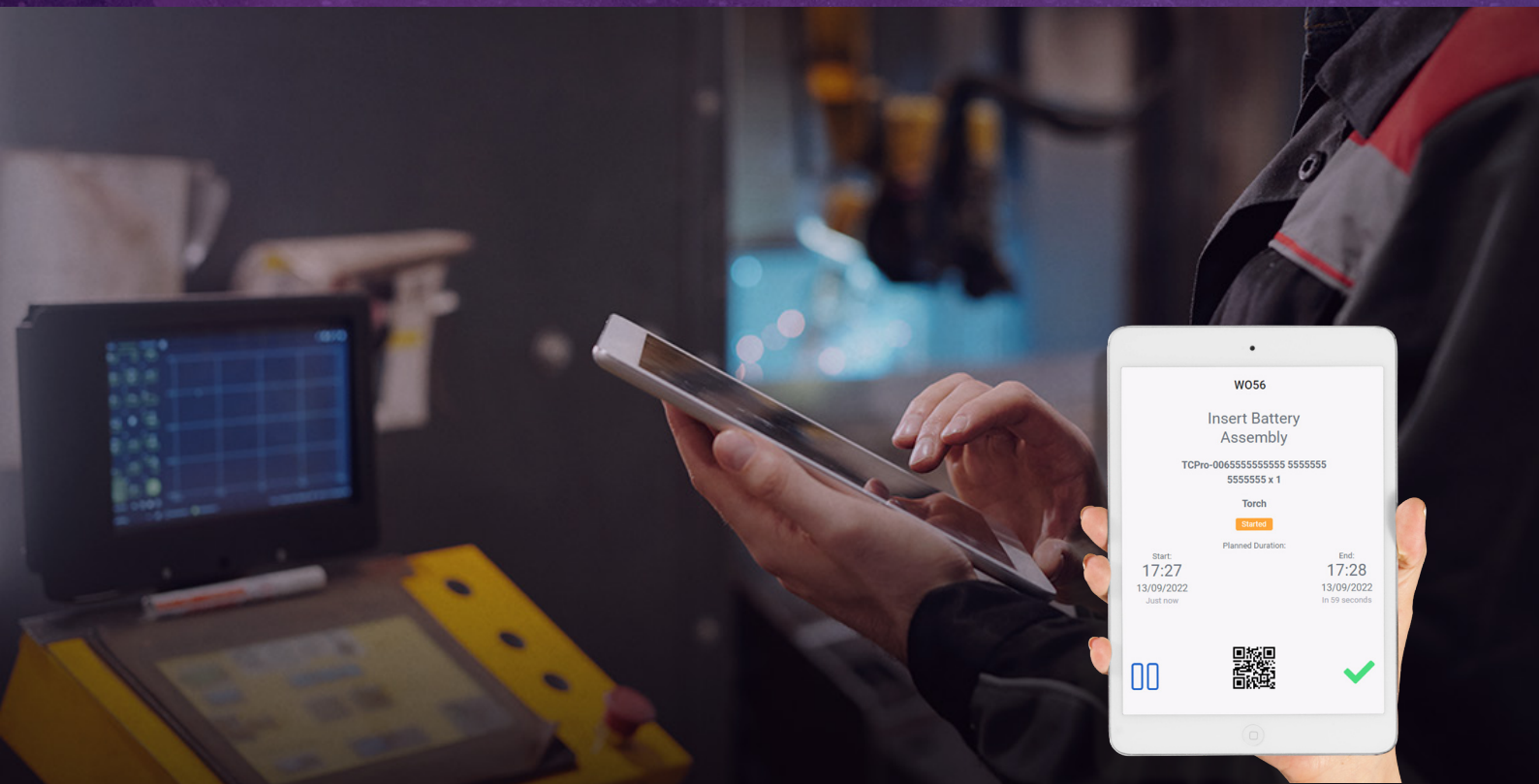
"It's astounding how a small company was able to achieve so much in such a short period of time."

Par Eliasson, Industrial Project Leader, Safran Landing Systems

SAFRAN

ON PREMISE OR CLOUD-BASED ?

WHAT'S BEST FOR YOU?

£

Technology will age quickly. Can be expensive upfront and costs justified long term.

£

Technology updated frequently. Low or no set-up fees and cost is spread over time through subscription.

On-premise systems are the responsibility of your own IT team independently.

Scale up and down quickly and cost effectively based on the changing needs of your business.

Does not rely on an internet connection but may struggle connecting info from one part of facility to another.

Rapid implementation allows functionality to be setup and deployed quickly while avoiding disruption to your operations.

You will be solely responsible for managing your own data security.

Your data is secured by industry leaders and can be accessed remotely for flexible data sharing. Perfect for teams working from home.

▷▷▷ JOIN OUR PARTNER PROGRAMME

Make Industry 4.0 a reality for your clients with our Performance Partner Programme. Combine your expertise with TotalControlPro® industry-leading software to help transform manufacturing.

Improving productivity and efficiency is at the core of all we do, digitising process management to put Total Control back into the hands of the Manufacturers.

Created by manufacturers for manufacturers, TotalControlPro® will give you the confidence, resources and benefits to enable you to build a business that is:

● **Ready to go** - Be up and running in no time with our cloud-based system that is easy to implement and provides retun on investment within weeks.

● **Flexible** - Develop your business portfolio independently to suit your needs, with confidence that you're delivering an innovative, affordable and transformational solution for your organisation.

● **Rewarding** - Maximise your potential by opening doors to new opportunities, clients and projects.

"DynamxMFG® can help peel back the layers of inefficiency in all areas – so it's a tool that can be moulded to the needs of a business as it evolves"

Chris Ward, Managing Consultant, PDCA Consulting

▷▷▷ KEY RESULTS

10%
LESS
DOWNTIME

20%
IMPROVED
EFFICIENCY

+30
MINUTES /
OPERATOR
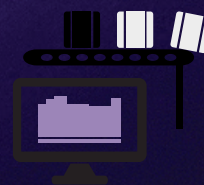PRODUCTIVITY
PER DAY

Based on typical results

Our industry-leading software puts you in control with:

Live real-time data collection and feedback.

Right job, right resource in the right place at the right time.

Comprehensive manufacturing intelligence - for smarter decisions.

DynamxMFG®

From TotalControlPro®

Unlock smart Manufacturing Operations Management in your production facilities with the DynamxMFG® cloud platform of manufacturing applications.

- ✓ The right resources,
- ✓ At the right place,
- ✓ At the right time,
- ✓ Doing the right task,
- ✓ Against the right job.

GET IN TOUCH

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SCAN ME