



Brief Company Description

Takumi is a precision engineering company based in the mid-west region of Limerick, Ireland. Established in 1998, we occupy a 50,000 sq. ft. custom-built state of the art facility. Our core business is providing manufacturing services to the Aerospace, Medical device and Industrial Engineering Sectors

The company employs 90 staff and has unrivalled expertise in the manufacture of low to medium volume precision components. Takumi has over 45 CNC machines covering a wide selection of capabilities and achieves an **annual turnover of €10m.**

Current Digitalisation Profile

From 1998 to 2011, we used a combination of Big Red Book, Sage Line 50 and Microsoft Access. The challenges of these systems included double if not triple manual entry, numerous typos, orders were missed, orders were difficult to track and reliance on memory. For the business to grow successfully, we recognised the need for a **one-stop fully integrated ERP system.** Having selected a system, we implemented this change



over 6 months and resourced with our in-house ERP Expert. As the business continued to grow so did the volume of data we were managing. We developed it out to automate processes such as **Order Entry and Internal Processes:**

- Job Cards Created from customers data
- Material detail derived from database
- Part automatically booked & tracked through Manufacturing & Inspection
- Treatments: All info drawn from customer’s own data and barcoded on treat PO

We integrated our data into a live data system used widely across the business. Data is created by daily interactions with the ERP system:

- Production Started → Operator Clock In
- Gone to Subcontract → Purchase Order Placed



Digital Best Practices and Learnings (i.e. Production Process Improvements)

If the data is not there, design a function to create the data i.e., a tick box. Once you have the data you can do whatever you want:

- Must be intuitive & Fast
- Touch Screens to be used
- Invest internally and externally in software developers

Impact and Outcomes

Integrated with our Customers data, we designed a part gate system called **“The Exceptions Screen”** which looks at each step in the life cycle of a part. Created a gate for each of these steps and defined the rules for each of these gates. This highlights the parts not obeying the rules and we only discuss what is an exception. We now have a relevant data capture tool that is easy to see and understand. The data system is live and visible on a mobile device so accessible to all. The data is fast and the system is designed essentially so that it works intuitively. Moreover, this works on a touch screen making the data more accurate and makes life easier.

Continuous Development: What is next?

- Supplier Portal To Load Up Invoices
- Customer Portal To Review Order Progress
- Cell Metrics
- Paperless On The Shopfloor

Get Involved!

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