

Specialist Tooling Technologies Ltd

CAPABILITY BROCHURE

SPECIAL PURPOSE MACHINERY · CONTROLS · GAUGING · MACHINING

We build the machines that build your product.

Bespoke automation designed, machined, wired, programmed and commissioned under one roof in Pontefract, West Yorkshire. Running on production lines in 16+ countries.

ISO 9001
Certified quality system

16+
Countries supplied

20
Designers, controls engineers & machinists

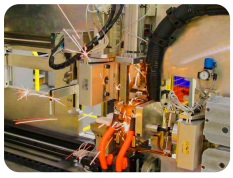
2003
Building bespoke machines since

+44 (0)1977 511799 · sales@spectooling.com

spectooling.com

EVERYTHING UNDER ONE ROOF

From a single gauge to a fully automated line.



Special purpose machines

Assembly lines, robot and cobot cells, feed-cut-form, leak test, dispensing, vision inspection and laser marking systems.



Controls, PLC & software

Panel design and build, Siemens, Omron, Mitsubishi and Allen-Bradley PLCs, servo, HMI, safety, RFID and data logging.



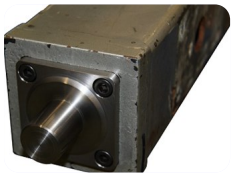
Gauging & inspection

Multi-point fixtures, blade gauging, geo-check systems and crimp gauges, CMM verified with a report for every gauge.



Precision machining

Haas mills and lathes, Citizen sliding head, wire EDM to ±2 µm, grinding and laser marking.



Engineering support

Breakdown repairs, spares and change parts, special tools and OEE improvements with your CI team.



Come and see it

Design office, machine shop and build hall in one building at Park 32, Pontefract. Factory acceptance tests on site.

HOW A PROJECT RUNS

01

Brief & feasibility

Concept and budget price from your part, process and target cycle time.

02

Design

Full 3D model, reviewed with you before metal is cut.

03

Prototype & prove

Critical processes proven in reality, then refined.

04

Build, wire & program

Machined, assembled, panel-built and programmed in-house.

05

Test in Pontefract

Runs your parts in our build hall before it ships.

06

Install & support

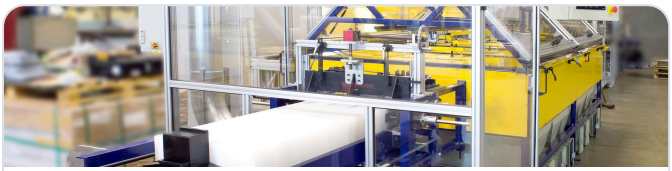
Commissioned on site, 12-month warranty, after-sales team.

BUILT WITH TECHNOLOGY FROM

Siemens · Omron · Mitsubishi · Allen-Bradley · Keyence · Festo · Bosch Rexroth · Pilz · Balluff · Atlas Copco · Haas · Citizen

REAL MACHINES, REAL NUMBERS

We solve real production problems.



3.5 s cycle

Number plate feed, rout & drill machine

Auto-loaded, 4-station router transfer machine. Omron PLC, servo drives, HMI-adjustable profiles.



90 s · 7 variants

Turbocharger assembly line

Siemens S7-1500, Pilz safety, Bosch Rexroth TS2 conveyor, Atlas Copco torque, Keyence marking and vision, Balluff RFID traceability.



Drum to finished pipe

Auto skive & cut machine

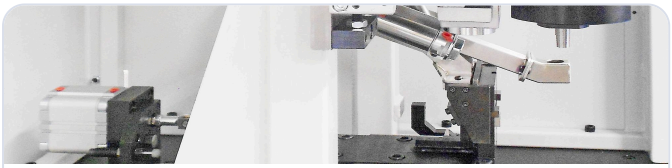
Automotive brake pipes stripped, braid removed and annealed, cut to length and vision inspected without being touched.



2 days → ½ day

Convoluted spline gauge

In-machine inspection of submarine dive plane splines with wireless data capture to PC.



<1 min per blade

Turbine blade gauging

5–10 minute set-up, interchangeable blade tooling, far faster than a CMM.



Robot + CMM

Robot-loaded bearing gauge

SCARA robot, CMM and STT clearance checker with closed-loop force control, run by our own software.

THE MACHINE SHOP

3-axis milling	Haas VF1–VF9	Multi-axis turning	Haas DS30
CNC turning	Haas ST20	Sliding head	Citizen
Wire EDM	±2 µm · <CLA 8	Inspection	CMM

ISO 9001 SOCOTEC · CN13418Q

Got a process that should be a machine?

Send a drawing, a video or a description. We reply within 48 hours.

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