SOLMAN SOLUTIONS FOR MANUFACTURING

SERVICE OVERVIEW



SOLMAN HUNGARY KFT. · DESIGN AND MANUFACTURING

FIXTURE DESIGN & MANUFACTURING

FROM THE 3D MODEL TO THE MEASURED FIXTURE

We design and build DTI and checking fixtures, CMM fixtures, test benches and special machines for your part, based on its 3D model. Every finished fixture is measured in our own NAH-accredited calibration lab, so what reaches your line is proven to be accurate.

1–5 days to quotation

3 shift manufacturing

1 contact person

WHAT YOU GET

- Fast concept and 3D model from your part's CAD data
- Interactive, rotatable 3D design for approval
- Project schedule and deadlines that hold
- Manufacturing in 1, 2 or 3 shifts, weekends too
- Accredited measurement, annual calibration, maintenance
- Customer portal: every document and project status in one place

OUR FIXTURE PORTFOLIO

DTI FIXTURES
dial-indicator checks at the line

CHECKING FIXTURES
RPS locating, many measuring points

CMM FIXTURES
for CMMs and measuring arms

ROTATING FIXTURES
several sides in one clamping

GO / NO-GO GAUGES
fast pass / fail decision

LARGE PARTS
bumpers, freeform surfaces

POKA-YOKE SYSTEMS
error-proof checks at the line

TEST BENCHES
with software, e.g. leak testing

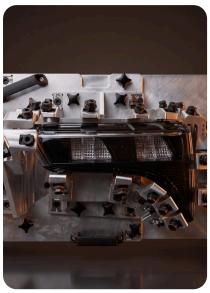
SPECIAL MACHINES
cutting, deburring, custom builds

PRODUCTION CELLS
developed from the concept

ACCREDITED MEASUREMENT
NAH-2-0343/2023, with report

1–5 DAYS
to quotation, up to 3-shift manufacturing

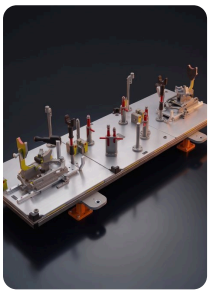
IN DETAIL



DTI FIXTURES

NO CMM NEEDED, RIGHT NEXT TO THE LINE

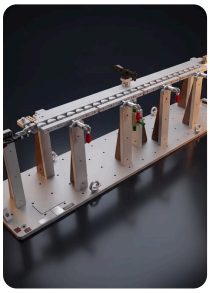
A DTI (Dial Test Indicator) fixture is a checking fixture with dial indicators: the part rests on the reference points defined in the drawing, and at each critical point a dial indicator or probe shows the deviation, so the operator sees in seconds whether the part is OK. Shown: our rear-lamp DTI fixture.



CHECKING FIXTURES AND CMM FIXTURES

HELD EXACTLY AS IT SITS IN THE CAR

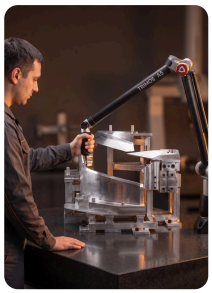
We clamp the part in its installed position on the reference points from the drawing, so the measurement is repeatable and shows the same result on the CMM, on the measuring arm or at the line.



ROTATING AND CLAMPING FIXTURES FOR CMMS

SEVERAL SIDES, ONE CLAMPING

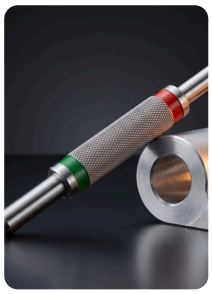
For complex parts with wrap-around contours, a rotating fixture or one accessible from several sides makes the part measurable in a single clamping: fewer re-clampings, lower measurement uncertainty, shorter cycle time.



ACCREDITED MEASUREMENT

PROVEN ACCURATE, NOT JUST DESIGNED TO BE

Our own calibration lab is accredited under NAH-2-0343/2023. We measure every finished fixture on a CMM or a measuring arm and issue an accredited report. We are the only lab in Hungary accredited to measure fixtures and holding devices with a measuring arm.



GO / NO-GO GAUGES

PASS OR FAIL IN SECONDS

For bores, pins, slots and gaps we make plug and snap gauges to the tolerance zone on the drawing: the green GO end must fit, the red NO-GO end must not. The operator decides at the line, without measuring or evaluating.



TEST BENCHES AND POKA-YOKE

A FAULTY PART MUST NOT MOVE ON

We also build functional test benches and poka-yoke inspection systems, software included. References include a mobile, universal test bench for leak testing of pneumatic brakes and poka-yoke inspection for hand brake production.

HOW WE WORK

1 **REQUIREMENTS**
Part CAD, drawing, measuring points, volumes.

2 **CONCEPT AND QUOTATION**
Fast concept, quotation within 1–5 days.

3 **3D DESIGN FOR APPROVAL**
Interactive, rotatable model and schedule.

4 **MANUFACTURING**
In 1, 2 or 3 shifts, on the agreed date.

5 **ACCREDITED MEASUREMENT**
Report, documentation, annual calibration.

YOUR CONTACT

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WHY SOLMAN?

25+ years in automotive
4000+ successful projects
500+ satisfied customers
98% customer satisfaction

Certified management systems

MORE INFORMATION
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