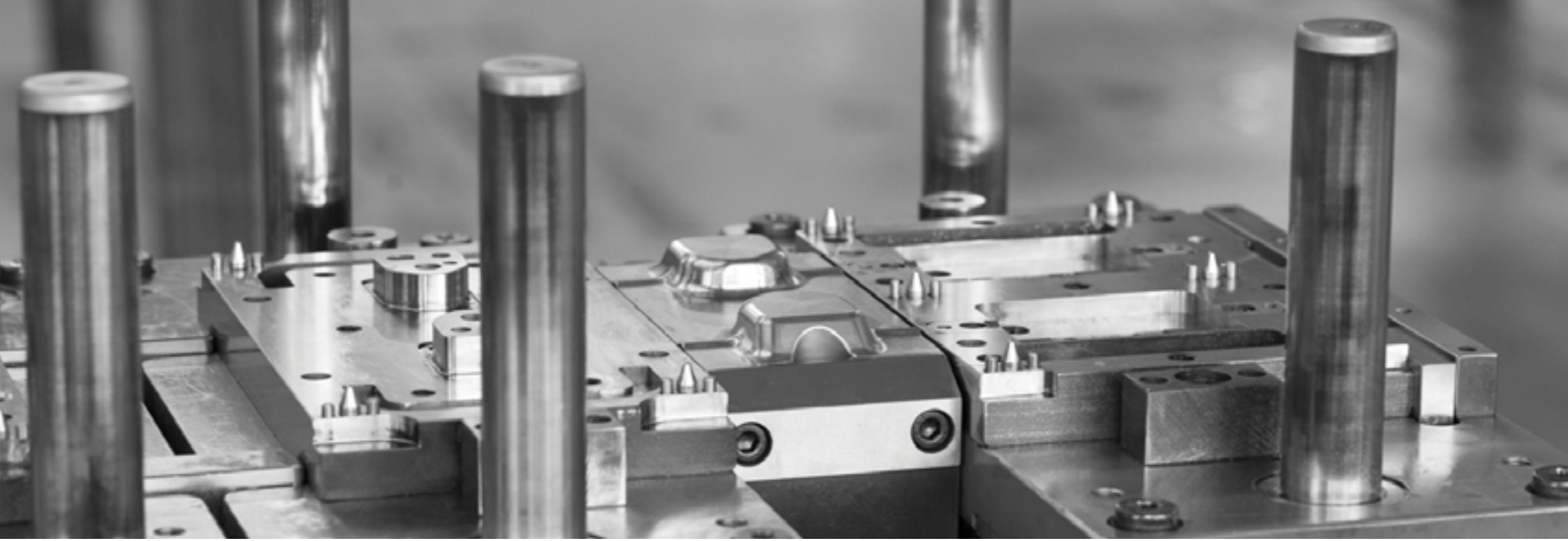
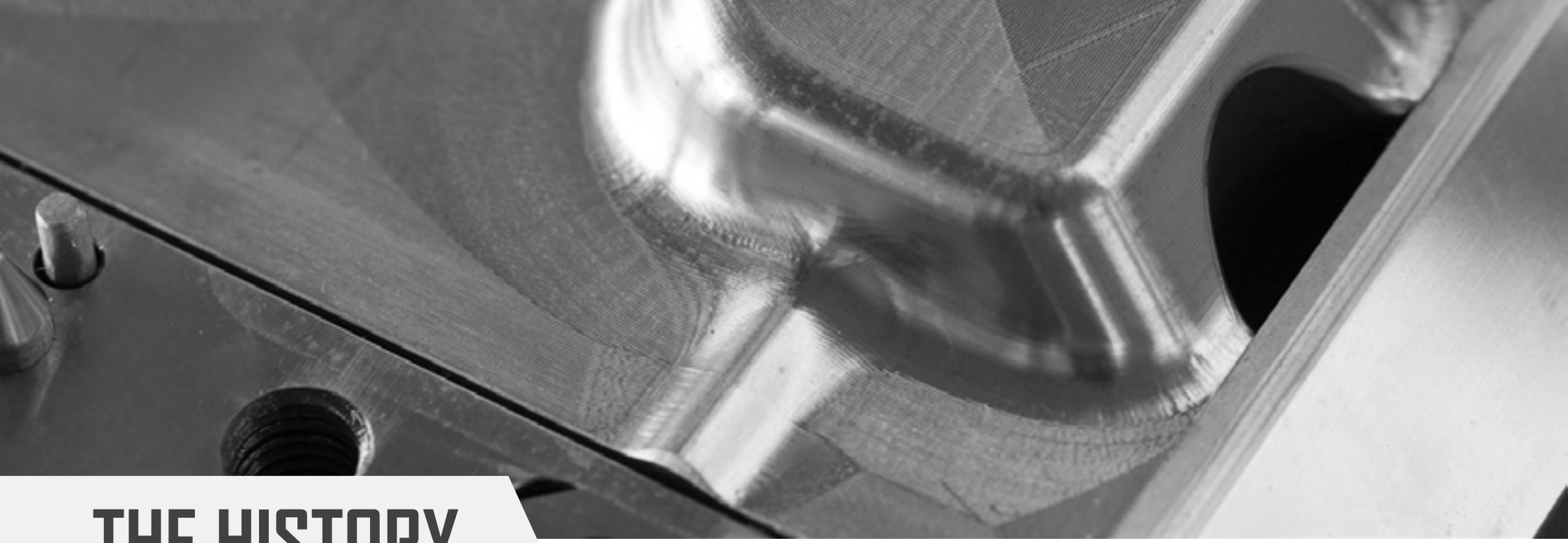


SDL
engineering



THE HISTORY

SDL Engineering was established in 2011. Since establishment the company has specialized in making progressive dies for automotive industry.

140 successfully completed projects.

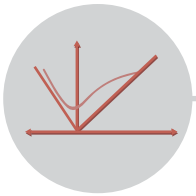
THE STRATEGY

SDL Engineering continues to grow in selected strategic areas of die-making.

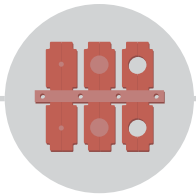
The SDL's strategy is aimed at becoming a reliable engineering partner in order to actively explore cost reduction and process optimization potentials.

Thanks to its strategic investment in abilities and capacities, SDL is well positioned to meet today's requirements in die-making, driven by the current trends in the industry.

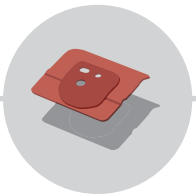
PROCESS DIAGRAM



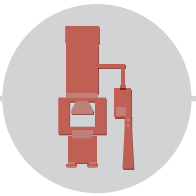
FEASIBILITY STUDY
& EVALUATION OF CUSTOMER
REQUIREMENTS



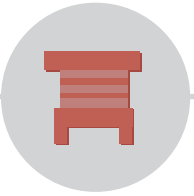
DEVELOPMENT OF
MANUFACTURING CONCEPT



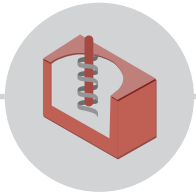
PROTOTYPES



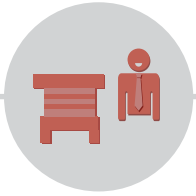
PRE-SERIES PRODUCTION



SERIAL TOOL DESIGN
& DEVELOPMENT



DIE MANUFACTURING



SERIAL DIE START-UP
AT CUSTOMER

AFTER SALES SUPPORT

FEASIBILITY STUDY

We start feasibility study as soon as request for quote is received.

Our quotes are based on comprehensive analysis and extensive experience of our engineers.

If necessary we perform formability simulations to check whether the sheet metal can be formed using the process selected.

10.000

Approx 10,000 measures reviewed during year.

DEVELOPMENT OF MANUFACTURING CONCEPT

We maintain a concept of manufacturing that provides cost-efficient serial production.

Thanks to this, we can see material utilization and time required for die production.

Simulations can be performed to validate complete manufacturing concept. The result of this process is a valid quotation.

400 manufacturing concepts developed throughout the year.

PROTOTYPES

Prototypes gives you a high level of flexibility in the event of design modifications during development process. It helps you save both time and money and confirm that ideas and concepts are truly feasible.

40% customers order prototypes before building tools for serial production.

PRE-SERIES PRODUCTION

Pre-series production makes it possible to test both the production process and the products in small series.

This gives the customer the experience and knowledge they need to start assembling their product.

2,000 max lot size of pre-series production.

SERIAL TOOL DESIGN & DEVELOPMENT

SDL Engineering designs progressive dies and fixtures itself.

Constantly growing design experience in die and fixture design makes SDL Engineering the right choice.

Knowledge and experience of our engineers guarantees cost-effective result.

2 WEEKS

Tool design time 2 weeks after manufacturing process confirmation.

DIE MANUFACTURING

Our advanced and constantly updated production planning system offers, at any time, the possibility of our customers to follow-up the entire tool manufacturing workflow.

We also check that the right material has been used at all stages and that the material has the correct hardness.

6 WEEK

Tool manufacturing time 6 weeks, after approval of tool design.

DIE START-UP AT CUSTOMER

A qualified employee will accompany the tool to the customer and ensure a smooth start-up procedure.

Tools are tested under conditions they will be working in the future in order to test and ensure its function as well as to confirm that all parts produced are fully compliant with the quality requirements.

95% of tools tested under serial conditions at customer site.

AFTER SALES SUPPORT

Your success is our objective. After supplying dies we are at your service when you need us with the right advice. This ensures that you avoid cost-intensive down times affecting your production.

24/7 service, next day shipment available.

SAMPLE PARTS

Thickness: 6.0mm | Steps: 13 | Tool size: 2.5m x 1.1m x 0.9m

Thickness: 6.0mm | Steps: 16 | Tool size: 2.5m x 1.2m x 0.9m

Thickness: 2.0mm | Cavities: 3 | Manual tools

Thickness: 1.6mm | Steps: 14 | Tool size: 1.8m x 1.0m x 0.8m

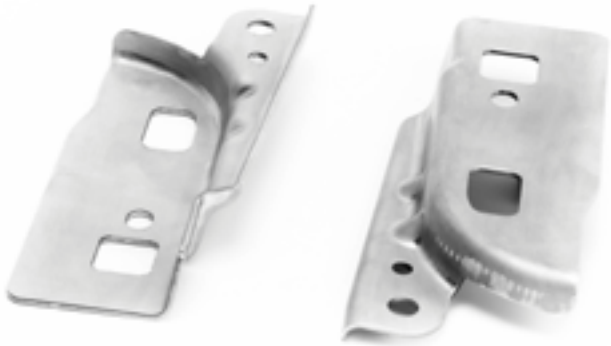
Thickness: 2.0mm | Steps: 8 | Tool size: 1.3m x 1.1m x 0.7m

Thickness: 2.5mm | Steps: 8 | Tool size: 1.0m x 0.5m x 0.4m

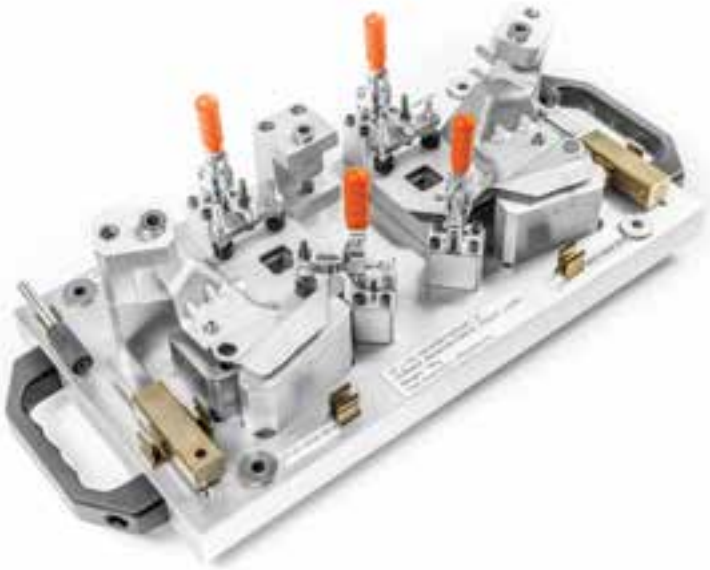
Thickness: 4.5mm | Prototype | Manual tools | Machining

Thickness: 5.0mm | Prototype | Manual tools | Machining

Thickness: 1.2mm | Steps: 10 | Tool size: 1.6m x 0.9m x 0.8m



Thickness: 2.0mm | Steps: 11 | Tool size: 1.8m x 0.9m x 0.8m



Fixture | Control of position, surface and trim line

Fixture | Control of position, surface and trim line

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