





## About the company

Weland Plastic is an expansive full-service company within thermoplastics with its own resources from idea to finished product. Weland Plastic develops and produces injection moulded products in thermoplastic - a natural choice for quality and environmentally aware customers with high demands on design, price, and performance.

Weland Plastic is a 1st and 2nd tier supplier to the automotive industry.



## Quality and Environment

### IATF 16949 & ISO 14001 - Quality and environment management certificates

We hold quality management certificates according to IATF 16949 and ISO 9001 and an environment management certificate according to ISO 14001. Our aim is - all according to the clients requirements - to adapt manufacturing and inspection - so we can deliver at the right time - the right product at the right price and of the right quality.



### CMM measurement

We perform CMM measurements (Coordinate Measuring Machine) at high speed and with guaranteed accuracy using the latest technology.





## Product development

Weland Plastic expert engineers participate in the development process from an early stage to the finished product. This gives the customer a sense of security and an expert sparring-partner making Weland Plastic, the ideal supplier.



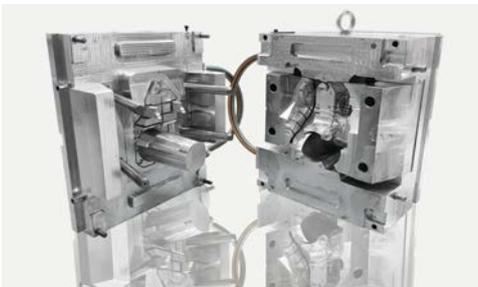
### Project management

We help with design proposals or modifications to our customers ideas in order to achieve optimum quality, design and production economics. This also includes material proposals for products so that customer demands are met.



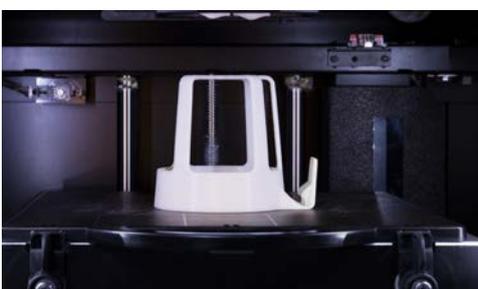
### Material substitution

Large cost savings and reduced production times can be achieved by replacing different metals with reinforced plastics, for example, PPA, PPS or PA. In many cases rubber can also be replaced with different plastics including TPE, TPV or PVC. In addition to reduced production costs, significant weight savings can also be made.



### Tool manufacturing

Weland Plastic always works closely with the tool supplier in order to produce the best possible tool design. Once the tool design has been approved, it normally takes from 6 to 10 weeks before the first samples arrive.



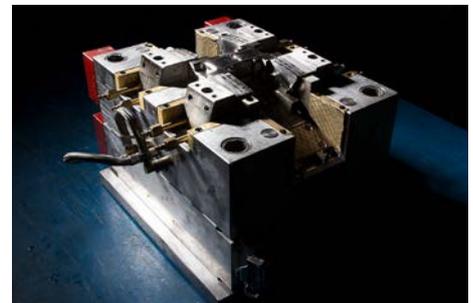
### Prototype development

Prototypes are usually developed through 3D printing in SLS, SLA, or FFF technology. If there is need of quick, low-volume batches or large individual components, we can accomplish this by manufacturing a silicon or aluminium tool and then perform injection moulding.



## Tool manufacturing

We have more than 40 years of experience in tool manufacture. This is carried out in-house in our tool department or through partners in Sweden, Europe or Asia. Tool manufacturing usually starts by performing a mould filling analysis to get as clear a picture as possible of the risks before tool production starts.



## Material substitution

Large cost savings and reduced production times can be achieved by replacing different metals with reinforced plastics, for example, PPA, PPS or PA. In many cases rubber can also be replaced with different plastics including TPE, TPV or PVC. In addition to reduced production costs, significant weight savings can also be made.

## Rubber substitution

Rubber is a fairly heavy and costly material. Replacing it with a plastic material such as TPE, TPV or PVC, can result in savings on both production costs and weight. Generally the wear resistance of plastic materials is at least as good as for rubber.

## Metal substitution

Today, there are extremely good engineering plastics available, giving the possibility to replace metal items with plastic. This gives opportunities to improve cost-efficiency. We help you with your design, strength calculations and prototypes in order to do this.





## Injection moulding

Weland Plastic owns a modern machine park of more than 60 injection moulding machines in sizes from 20 to 1000 tonnes clamping force. It is increasingly common with plastic parts in multi-component materials. For this purpose we have a number of injection moulding machines for 2 or 3 different materials (2K and 3K).



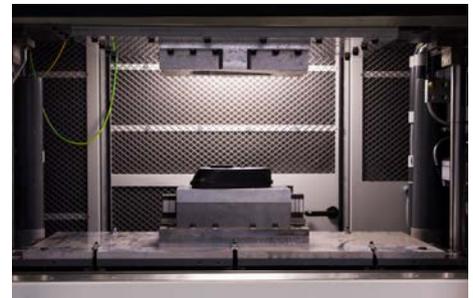
## Metal injection

The combination of plastic and metal is becoming increasingly common in all industries. We have vast experience of casting metal in plastics. Through combining different materials it is possible to take advantage of their unique properties.



## Dual injection

Dual injection gives great opportunities for sophisticated design and improved functionality of the manufactured components. Materials with varying properties and different colours give endless possibilities for variation.



## Vibration welding

The method is common in the automotive industry in order to join plastic parts. Joining occurs with the help of pressure, friction, and shear heating. Examples of common components that are vibration welded includes containers, tanks and air ducts.



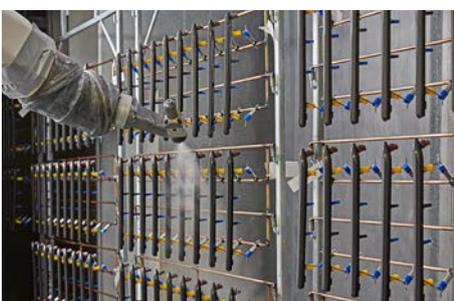
## Pad printing

Pad printing is performed using a pad the collects paint from a container and applies this against a cliché, which is made according to the print image. Pad printing is used when you need to add a logo, information or give plastic parts a special appearance. Weland Plastic manufactures clichés for any number of printing colours.



## Assembly

We perform assembly work both manually and with the help of robot cells in direct connection to our injection moulding machines or separately in our assembly facilities. We perform partial or full assembly entirely according to customer requirements. Our quality assurance with traceability also encompasses assembly work.



## Surface treatment

We can offer most types of surface treatment and painting, matt or bright chrome plating, etc. We can also supply parts coated with trivalent chromium.

# More information about Weland Plastic AB is available on our website, [www.welandplastic.com](http://www.welandplastic.com)

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## WE HELP YOU TO DEVELOP YOUR PRODUCTS

### PRODUCT DEVELOPMENT

Weland Plastic's expert engineers participate in the development process from an early stage to the finished product. This gives the customer a sense of security and an expert sparring partner making Weland Plastic, the ideal supplier.

### PRODUCTION

Weland Plastic owns a modern machine park of more than 50 injection moulding machines in sizes from 20 to 700 tonnes clamping force. It is increasingly common with plastic parts in multi-component materials. For this purpose we have a number of injection moulding machines for 2 or 3 different materials (2K and 3K).

### POST PROCESSING

Weland Plastic is a complete supplier and this includes different types of post processing. We can supply turnkey products or part-assembled. All according to the customer's requirements. We include various types of surface treatment and pad printing in our post processing.

**WELAND**  
PLASTIC

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