

## Polymer and Hybrid Microfluidic Consumables



The Flow Alliance is driven by three expert companies:



micronit  
microtechnologies

20 years of experience in  
Microfluidic design, development  
and manufacturing with hundreds  
of projects realized


Located in The Netherlands &  
Germany Staff 100 people



AXXICON

35 years of experience in micro-  
nano-optical mold making and  
injection molding process  
development

Located in The Netherlands Staff  
40 people



Helvoet

80 years of experience in high  
volume injection molding  
and assembly of  
precision products

Seven locations throughout the  
world Staff 900 people



**Bundled experience and know how in every phase of your project,  
from concept to manufacturing.**

## Diagnostics



## Drug Discovery



## Food Safety



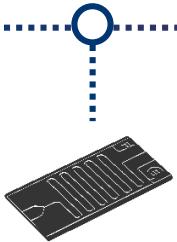
## Environmental Testing



Microfluidic consumables can be used in a broad variety of markets.  
We support you to commercialize and upscale your solution.



# Our Core Competences



Prototyping



Microfluidic  
Development



Micro & Nano Precision  
Tool Making



Project  
Management



Quality Assurance To  
Medical Standards



Design For  
Manufacturing



Automated Volume  
Production

# From idea to market success

## Project Definition

- Clarification agreement on requirements
- Identification of initial risks
- Presentation of a project plan



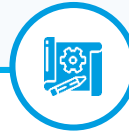
## Manufacturing Concept Development & Analysis

- Further quantification of requirements
- Functional breakdown
- Concept designs
- Presentation updated plan



## Prototyping & Development Using Scalable Processes

- Further detailing prototype designs
- Fabrication
- Iterations of increasing level of integration



## Pilot Series

- Production of pilot runs
- Evaluation
- Release for serial production
- Detailed scaling up plan



## Manufacturing

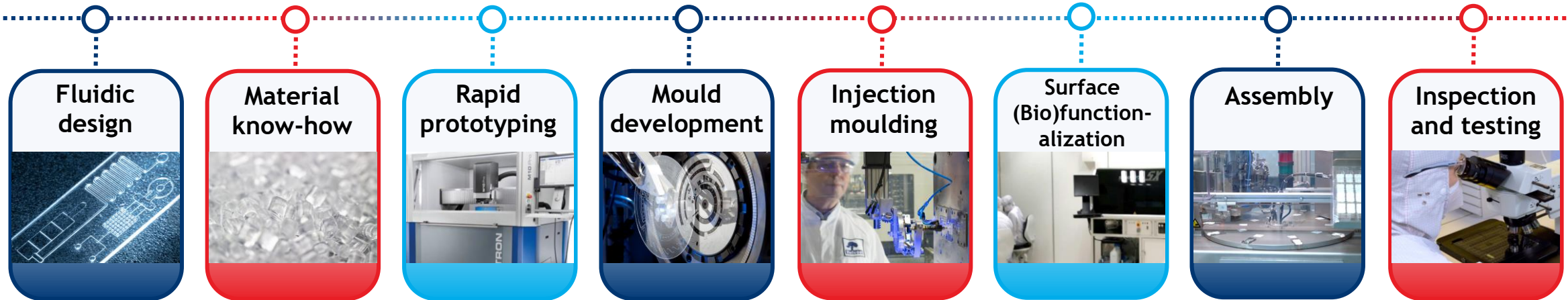
- Serial production
- Scaling up to meet growing customer demand



# Project framing

For each project we bring forward the key relevant capabilities.

As example:



And there is much more in our tool box to realize your project

Reagent storage / surface modification / direct milling in polymer / hot embossing / 3D printing / measuring to micro & nano & optical levels / Injection Compression Moulding / hybrid integration / spotting / micro milling / lithography / bonding / welding / fluidic jumps / valving / sensor integration / filter handling / foil layers / membranes / automation / assembling / high speed vision / experience with all polymers / .....



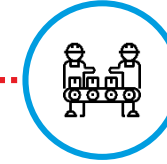
# Quality assurance



Developing with manufacturing  
in mind; high attention to  
Critical-to-Quality aspects



DoE's to set up robust  
processes with sustainable  
process windows



Zero defect  
manufacturing  
approach



## 100% Process control

By applying 100% process control and/or  
with vision inspection we set our first line  
of defense against quality failures



## Statistical data management

We frequently measure and inspect parts in  
production and monitor the statistical output.  
The analysis of this data enables us to prevent  
failures closing our second line of defense



## Staff commitment

Our customer care center ensures a high  
commitment from our staff towards our  
customers, closing our last line of defense

ISO 9001 and ISO 13485 certified, FDA 21 CFR 820 compliant

# A look into our production



Within the Flow Alliance we offer the right surroundings and the right equipment for your product during every phase of your microfluidic project.





# Why choose us

## OUR OFFER

- Partner from design to high volume manufacturing
- De-risking from the beginning; developing with serial manufacturing in mind
- Extensive capacity and external partner base
- Full tool box
- Transparent and partnership way of working
- Over 20 years of microfluidics experience



## YOUR BENEFITS

- Shortest time to market
- Every project phase can supported
- Your product made with an efficient, robust and high quality process
- Solutions in polymers and as hybrid products possible



# Thank You

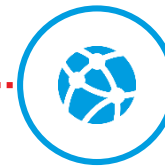
We are looking forward to working with you.



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