



**TAKING YOU
STEPS AHEAD**



**Assembly machines
Production Automation**

Engineering and building assembly lines for small, accurate products

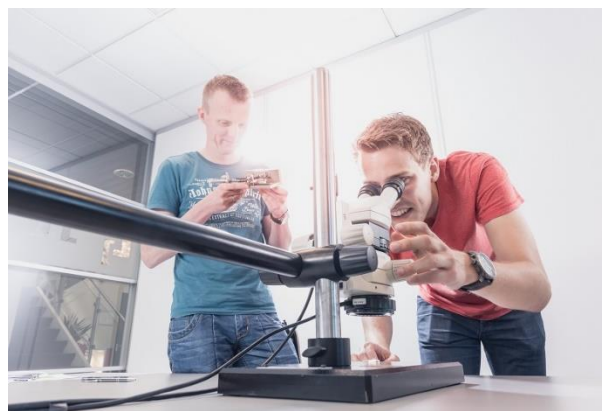
ASSEMBLY LINES

Engineering and building assembly lines



ADDITIONALLY:

PRE-AUTOMATION ANALYSIS



SERVICE



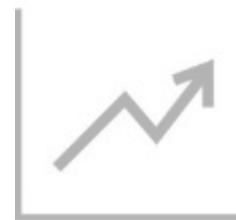
IMS Facts and figures



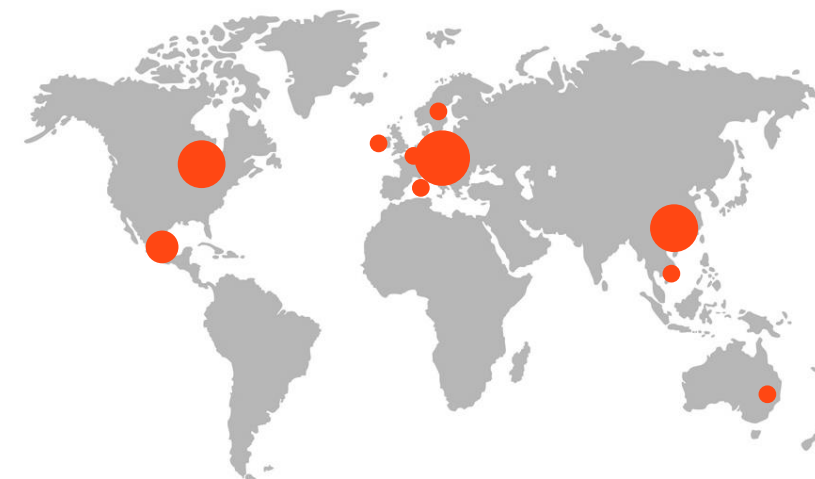
Almelo
The Netherlands
Privately owned



Staff
120(+)



Net Revenue 2019
>40 M€



Installed base
Global

IMS IMS assembly lines



TECHNICAL

Precision handling:

high-precision

Micro assembly:

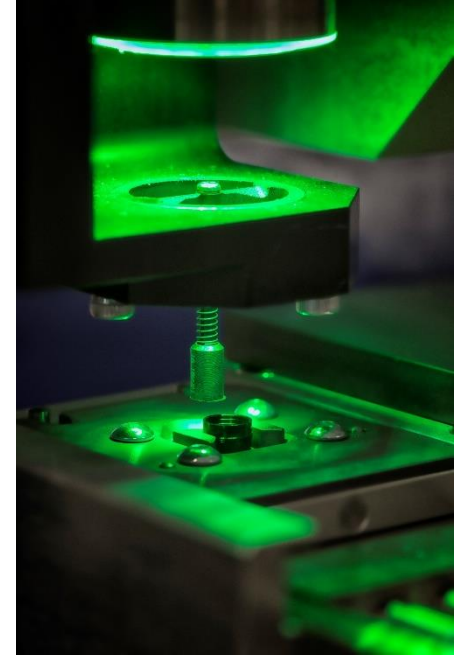
highly accurate, alignment

System Integration:

processes, transport and handling
data-tracking

PROCESSES

- High accuracy positioning
- Welding (e.g. laser, ultrasonic, resistance)
- Leak testing (e.g. helium, pressure decay)
- Vision
- Laser marking
- Dispensing, gluing
- Functional testing
- Screwing
- Cleaning (e.g. ionized air, CO2)





MEDICAL



SMART DEVICES



AUTOMOTIVE



IMS Typical applications

Micro lens



Loud speaker



Pressure sensor



Temperature sensor



Loud speaker



Motor protector



μ -LED Light module



LED Matrix Light module





Key competences in Automotive Optics

ACTIVE ALIGNMENT



LIGHT MODULES

CAMERAS

SIDE PROJECTORS

LENS ASSEMBLY



CAMERAS

LIDAR

LIGHT MODULES



New high definition light modules

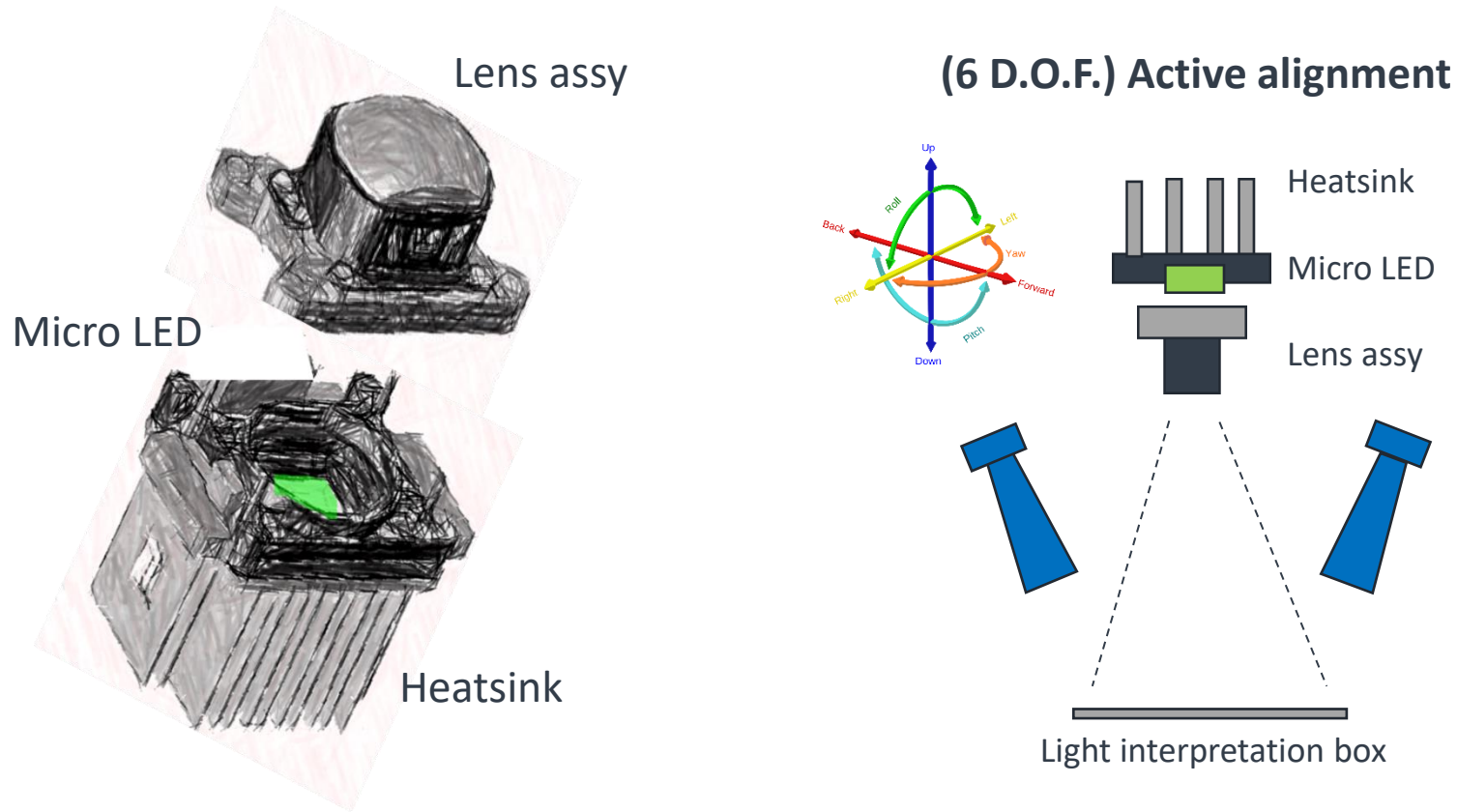
HD light modules like μ -LED and DMD
need another technology for assembly

challenge:

no longer poka yoke
but Active Aligning

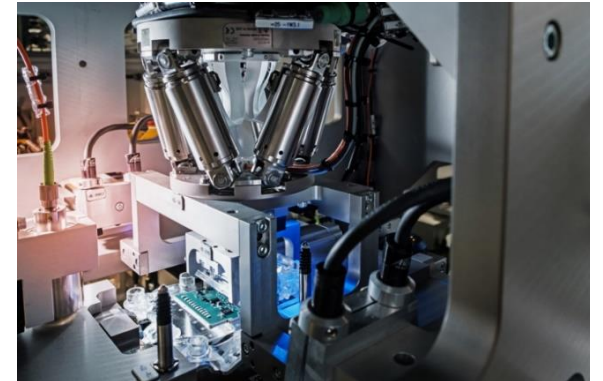


Active alignment for μ -LED and DMD based Light Modules



Options provided by IMS:

- Manual (first proto's)
- Semi automatic (ramp up)
- Automated assembly line





TAKING YOU
STEPS AHEAD

Thank you for your attention!

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