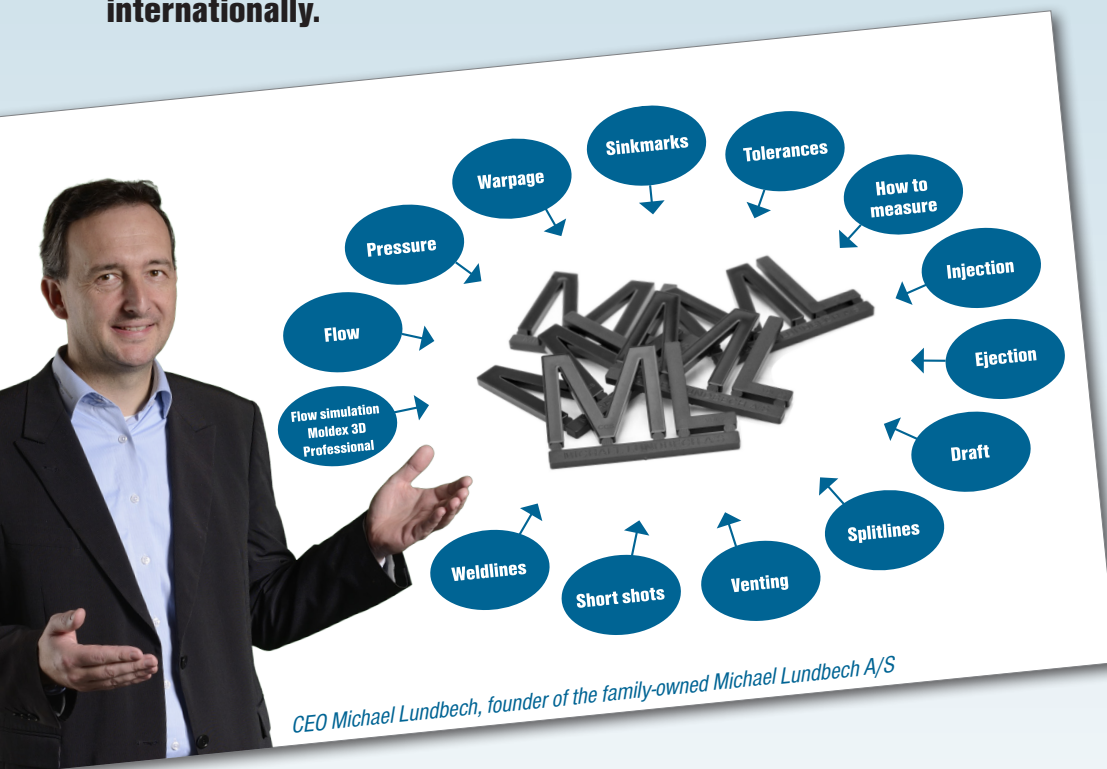




Skilled toolmakers servicing the tools

Do You Face Challenges with Time to Market?

Michael Lundbech A/S caters to suppliers of **medical products**, including **plastic components** that are challenged by **time to market** and that place **high demands on quality**. Our **expertise, flexibility and quality awareness** are a strong foundation for meeting these challenges. Using an innovative approach to its projects, Michael Lundbech A/S is the preferred supplier among **medical companies both nationally and internationally**.



Is your process from prototype to production too long?

As a total supplier, we optimize the process between prototype and serial production.

- We can produce prototype series down to 20 units.
- We can produce serial volumes from 100–1,000,000 units/year.
- We can deliver plastics in sizes from 0.01–120 grams.

Do you put high demands on tolerances?

- We ensure a high finish on tool components and can achieve a precision finer than 3 µ.
- Continuous investment targeting machines and equipment of the highest quality.

Do you find that targeted optimization of plastics is necessary?

- We optimize more than 200 different plastics each year.
- We have valuable experience with injection moulding in more than 500 variations of plastic materials.
- We work with a goal-oriented approach using Design for Manufacturability – optimization of plastics for production.

MICHAEL LUNDBECH
INTELLIGENT TOOLING

Michael Lundbech
CEO

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MICHAEL LUNDBECH
INTELLIGENT TOOLING



We have the latest injection moulding machines of the highest quality, equipped so that you can attain whichever function you wish

Is high delivery security important to you?

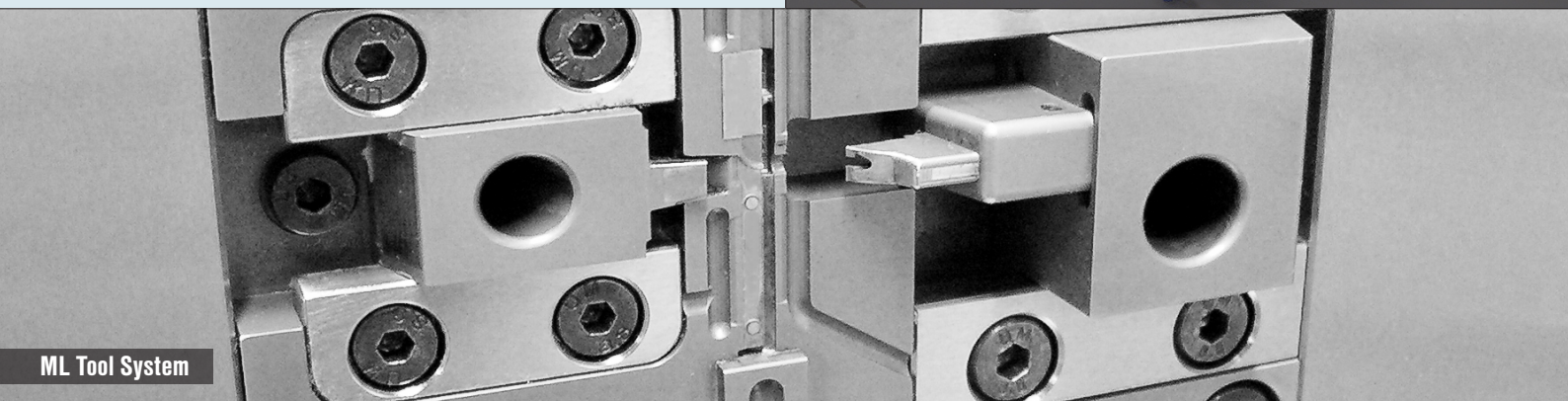
- Our management and quality control system ensure innovative access to projects, as well as high-quality delivery and competitiveness.
- Skilled toolmakers service the tools and thereby ensure stable production.
- Our work process includes systematic evaluation of ongoing production. This, combined with inspection, ensures a high level of quality.

Does the polishing process impair your tolerances?

- The results of our participation in several, notable international research projects include, among other things, the trade mark registration of Clean Cut Surfaces® – CCS®, through which milling is leaves need for post-polishing.
- Michael Lundbech A/S is the only one in the world who can perform the Clean Cut Surfaces® milling method.



High-precision Mikron HSM 400U LP and AgieCharmilles Form 200 with a 3R robot built in between



ML Tool System

Flexible master shape system

Michael Lundbech A/S supplies complete tools for injection moulding plastic, design components in our **ML Tool System** master shape system, prototypes in production quality and serial production.

Our solutions are divided into three categories tailored for each stage of the development process:

- **Soft Tools Prototypes**
is the fast path to an injection moulding prototype;
- **Hard Tools Prototypes**
is the direct path to a functional product and an optimal production tool;
- **Production Tools**
entails no development limitations and comprises a solid basis for an optimized, high-volume tool.

	Soft Tool Prototype	Hard Tool Prototype	Production Tool
ML Tool System	☑	☑	Stand alone
Part examination	☑	☑	☑
Part optimization		☑	☑
Flow analysis		☑	☑
Cavity tolerances	± 0,05 mm	± 0,01 mm	± 0,01 mm
Smallest processing radius	r 0,15 mm	r 0,01 mm	r 0,01 mm
Optimal intake placement/type		(☑)	☑
Surface finish	HSM / microblasted	High gloss polished	High gloss polished
Shot guarantee	5.000 shots	50.000 shots	1.000.000 shots
Lead-time on business days	from 5 days	from 8 days	from 5 weeks



Confederation of Danish Industry



With its headquarters in Copenhagen, the Confederation of Danish Industry (DI) represents the interests of more than 11,000 members, of which nearly 1,800 are from the metal and machine industry and represented by the professional association "Cooperation of the Danish Production Industry." Of these, about 1,800 from the metal and engineering industry, which is assembled in "Danish Manufacturing Industries Cooperation", representing the industries processing metal manufactures components and machines, service and repair of machines and installations and trading in raw materials, components and machinery.