

# SCHAUFLER FISCHER GROUP

Company Presentation  
2026



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## Agenda / Content

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- 1 **Executive Summary**
- 2 Product Offering and Customers
- 3 Technological and Process Leadership / Innovation
- 4 Mega / Giga Dies
- 5 Impressions of our locations
- 6 Competitive Solutions for Customers
- 7 Summary

# Introduction of SCHAUFER FISCHER GROUP

## World leading diecast dies manufacturer on three continents



<b>EUR 55m</b> <i>Sales FY25B</i>
<b>3 continents</b> <i>presence</i>
<b>~220</b> <i>employees</i>
<b>&gt;100</b> <i>large die cast dies capacity p.a.</i>
<b>300 to</b> <i>max. die weight</i>

<b>Schaufler Tooling</b>
<b>Laichingen, Germany</b>
<b>Headquarters, production facility and design center</b> New and follow-up dies, rebuilds, maintenance and die repair, tools for CFRP parts
<b>Production area of c. 9,000 sqm</b>
<b>140 FTEs</b>
<b>Max die weight of up to 200t</b>

<b>Fischer Tool &amp; Die</b>
<b>Temperance, USA</b>
<b>Head office US operations, production facility</b> New and follow-up dies, rebuilds, maintenance and die repair, contract machining, tools for CFRP parts
<b>Production area of c. 7,000 sqm</b>
<b>45 FTEs</b>
<b>Max die weight of up to 150t</b>

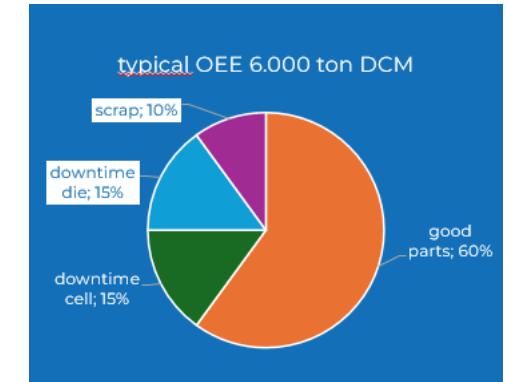
<b>Schaufler China</b>
<b>Haiyan, China</b>
<b>Production facility</b> New and follow-up dies, rebuilds, maintenance and die repair
<b>Production area of c. 6,000 sqm</b>
<b>30 FTEs</b>
<b>Max die weight of up to 300t</b>

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## Vision and Mission

### Mission – “What we deliver”

- Let´s boost your OEE
- Empowering our customers with competitive high-productivity dies, aiming for 100% up-time, zero scrap and fastest cycle time.
- Focus on best Total Cost of Ownership which means OEE plus overall die cost per good part.

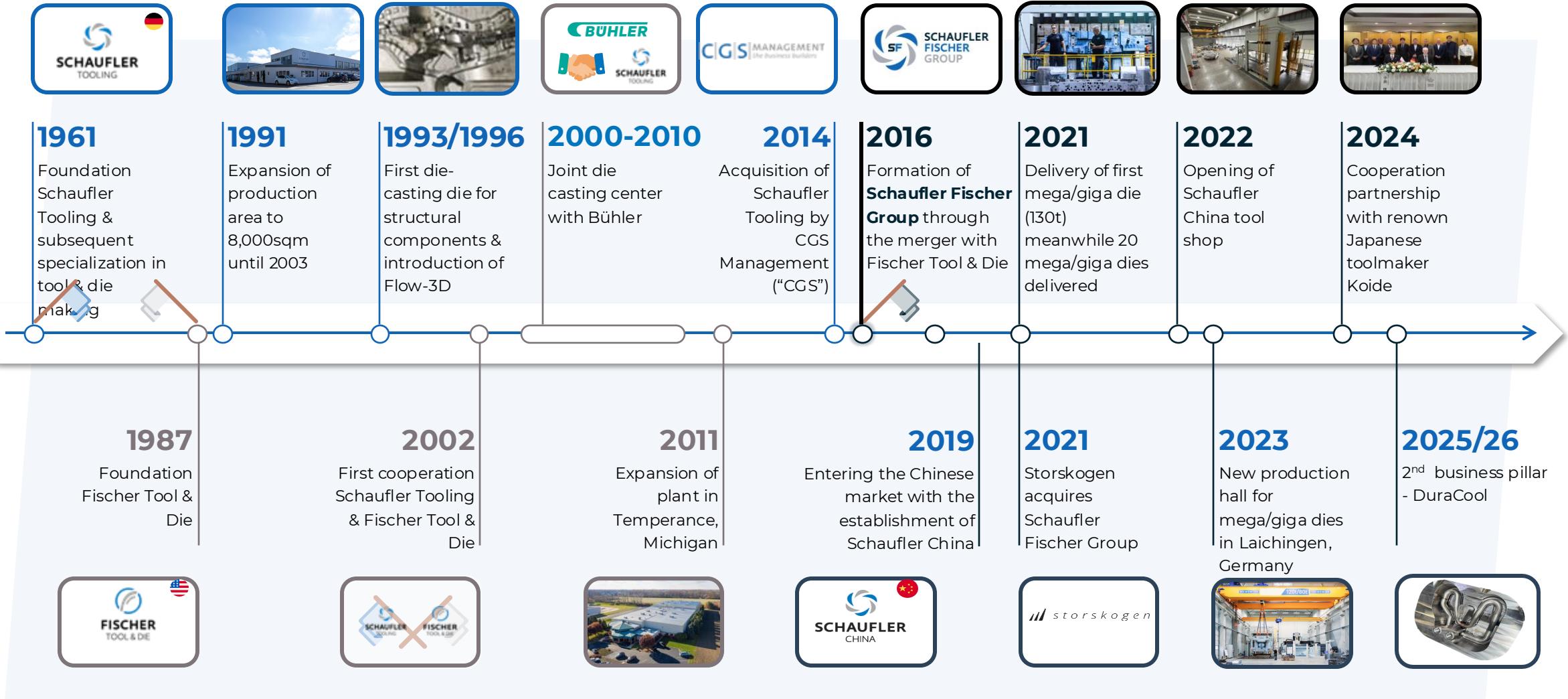


### Vision – “How we see ourselves”

- World-leading toolmaker group in design and manufacture of large and complex high-pressure diecasting dies in terms of
  - technology,
  - regional market presence,
  - sales and profitability



# Six decades of continued innovation and expansion



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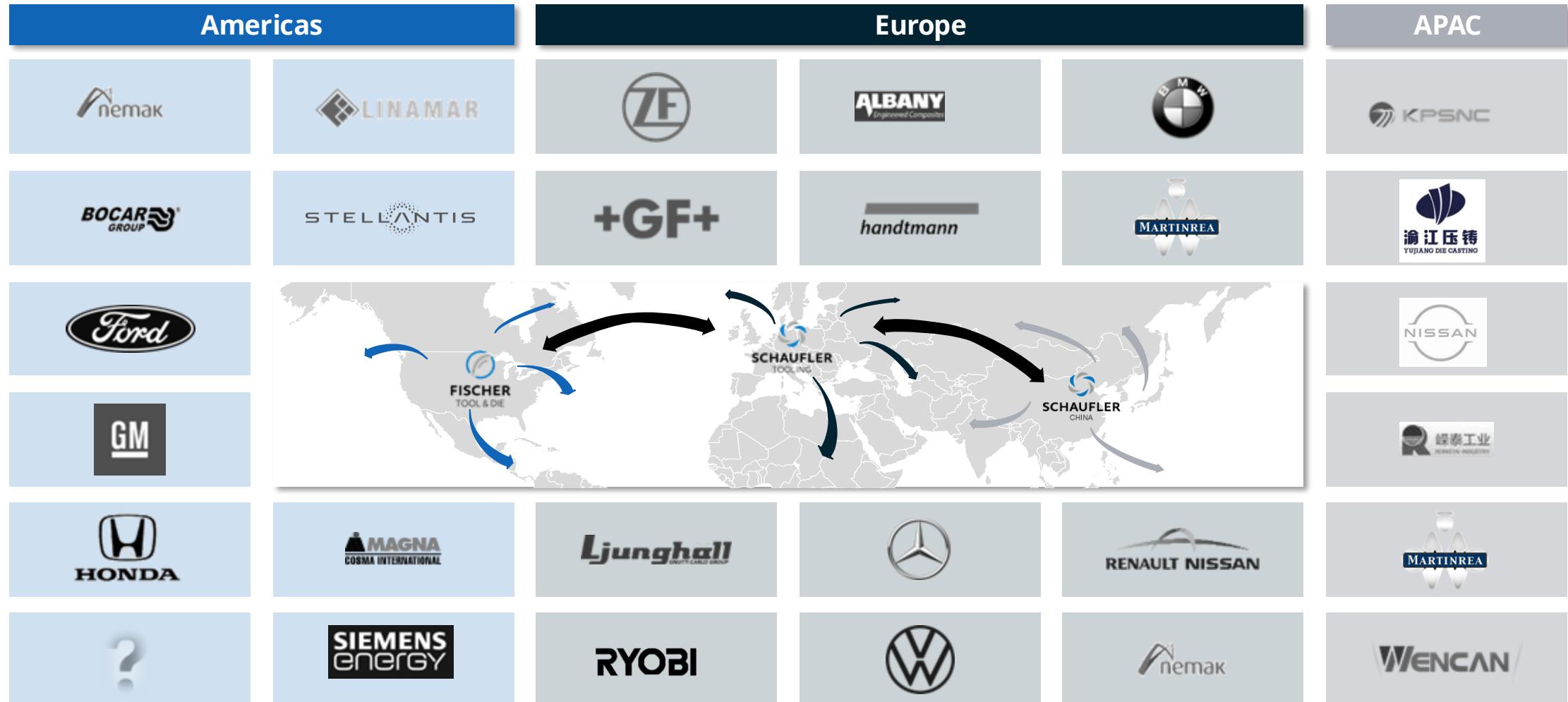
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# Global footprint, serving a global client base

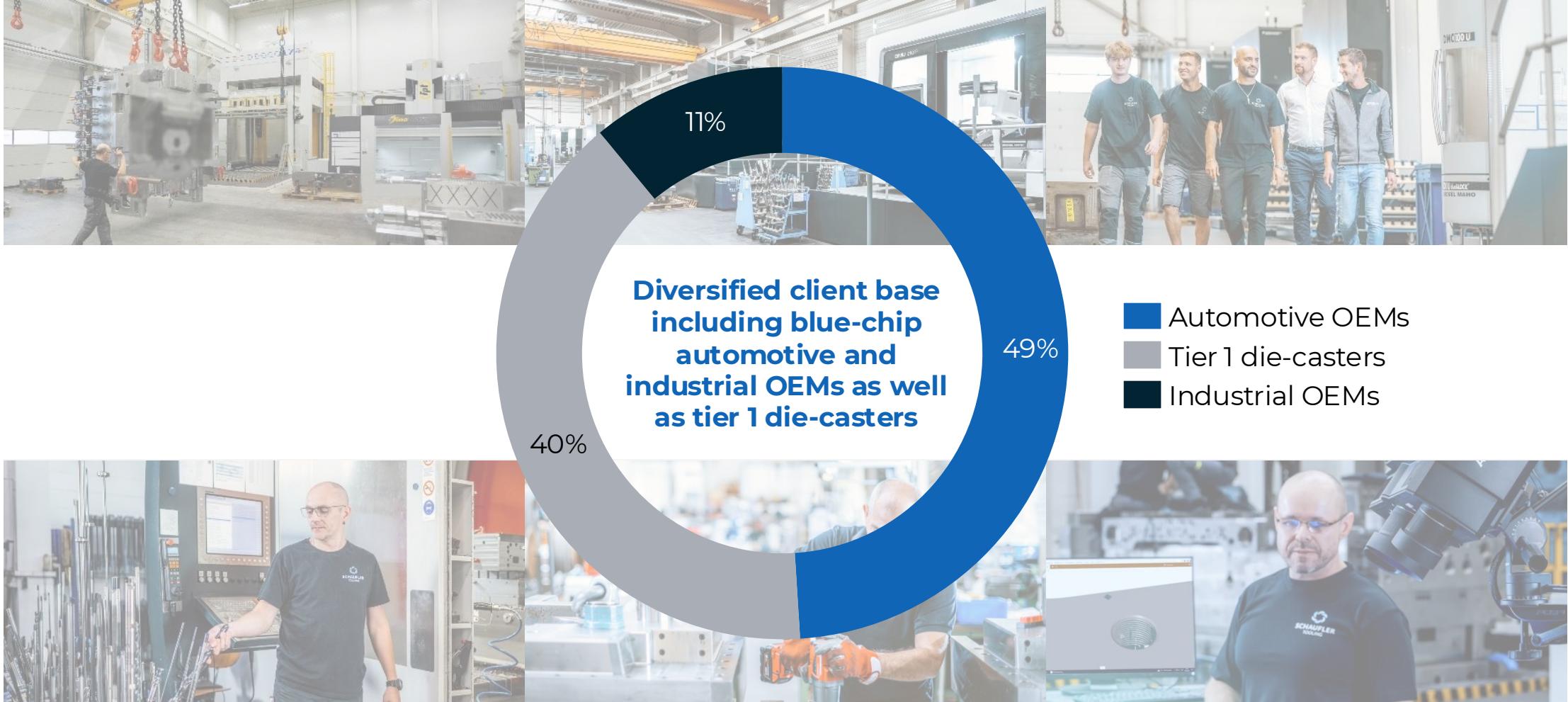
Attractive client base of leading automotive and industrial OEMs & globally active tier 1 die-casters



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# Client groups

Schaufler Fischer Group maintains a very diversified client base



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# Products and services offering – Overview

Full-service provider of HPDC dies for aluminum and magnesium alloy applications

## 1 Dies for mega /giga castings



## 2 Dies for ICE Powertrain components



## 3 Dies for body and structural components & hybrid and EV



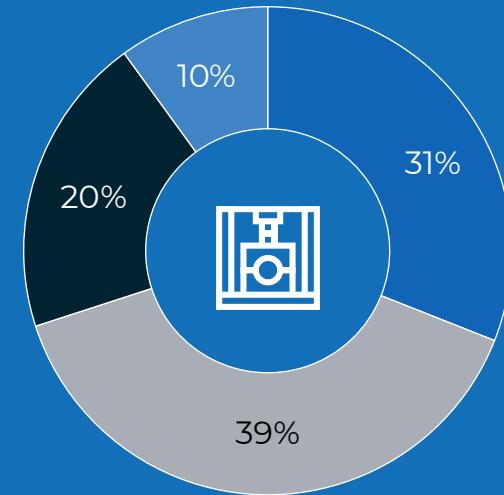
## 4 Tools for CFRP composites and contract machining



Contract  
neues  
Bild



## Revenue by product category



Dies for mega/giga castings  
Dies for ICE powertrain components  
Dies for body and structural components as well as hybrid and EV  
Tools for CFRP composites and contract machining

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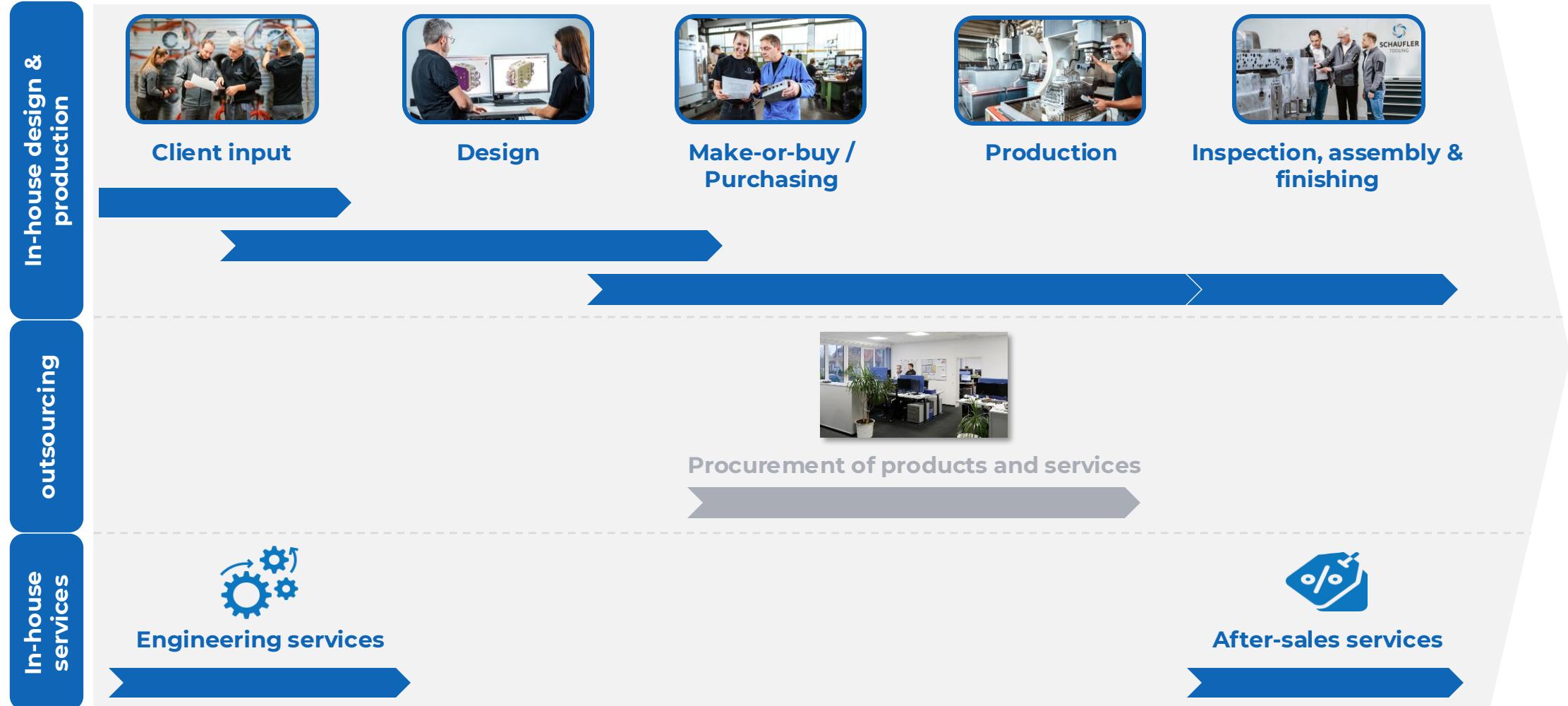
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# Tool manufacturing value chain – Overview

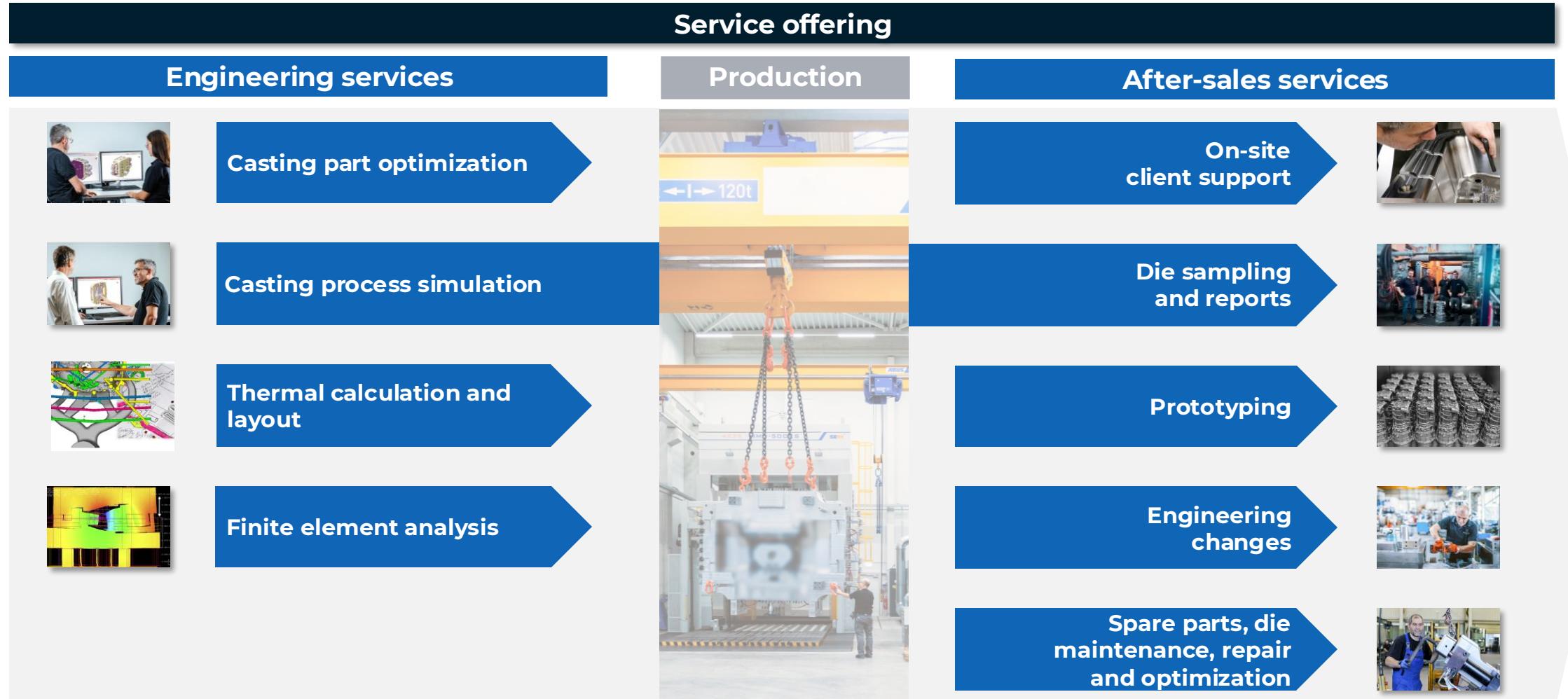
Tool manufacturing project: Typical process & services offered along the value chain



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# Engineering and after-sales service offering

360° service offering across the entire value chain from initial engineering to after-sales support



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## DuraCool – a revolution in die cooling

### **Advantages:**

- Core material: 4x higher heat transfer rate
- Faster heat removal: +20%
- Increased lifetime:  
no cracking, surface temperature more even
- Reduced cost: -30%
- Improved casting quality (surface, stresses, porosity)
- Successfully implemented in plastic injection molding

### **Limitations:**

- Extremely small steel thickness areas (i.e. water jackets for engine blocks)

### **Requirement:**

- Calcium-free and non-corrosive water

Applied for patent

## DuraCool – a revolution in die cooling

### Main Advantages:

- Cycle time: solidification time – 5 sec.
- life time: +100% expected
- Cost: -30% ➡ -60% per shot

• >10 projects with pilot customers kicked off

• Market introduction: 2026



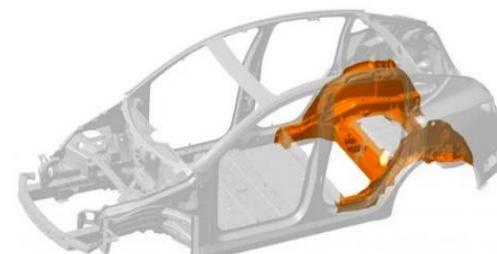
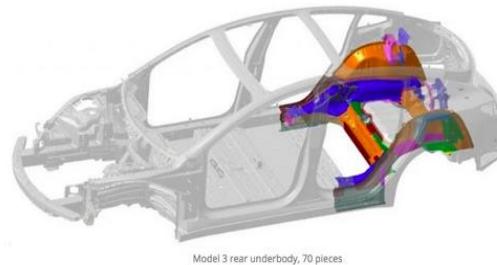
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## Why „Mega castings“ make sense:

- Light Weight Design to increase range
- Better NVH
- Reduced complexity in body shop
- significant cost savings: bottom line 20-30%



Source: evannex.com

... Tesla believes that this design will “reduce:

- build time
- operation costs
- costs of manufacturing
- factory footprint
- factory operating costs
- tooling costs
- and/or quantity of equipment.”

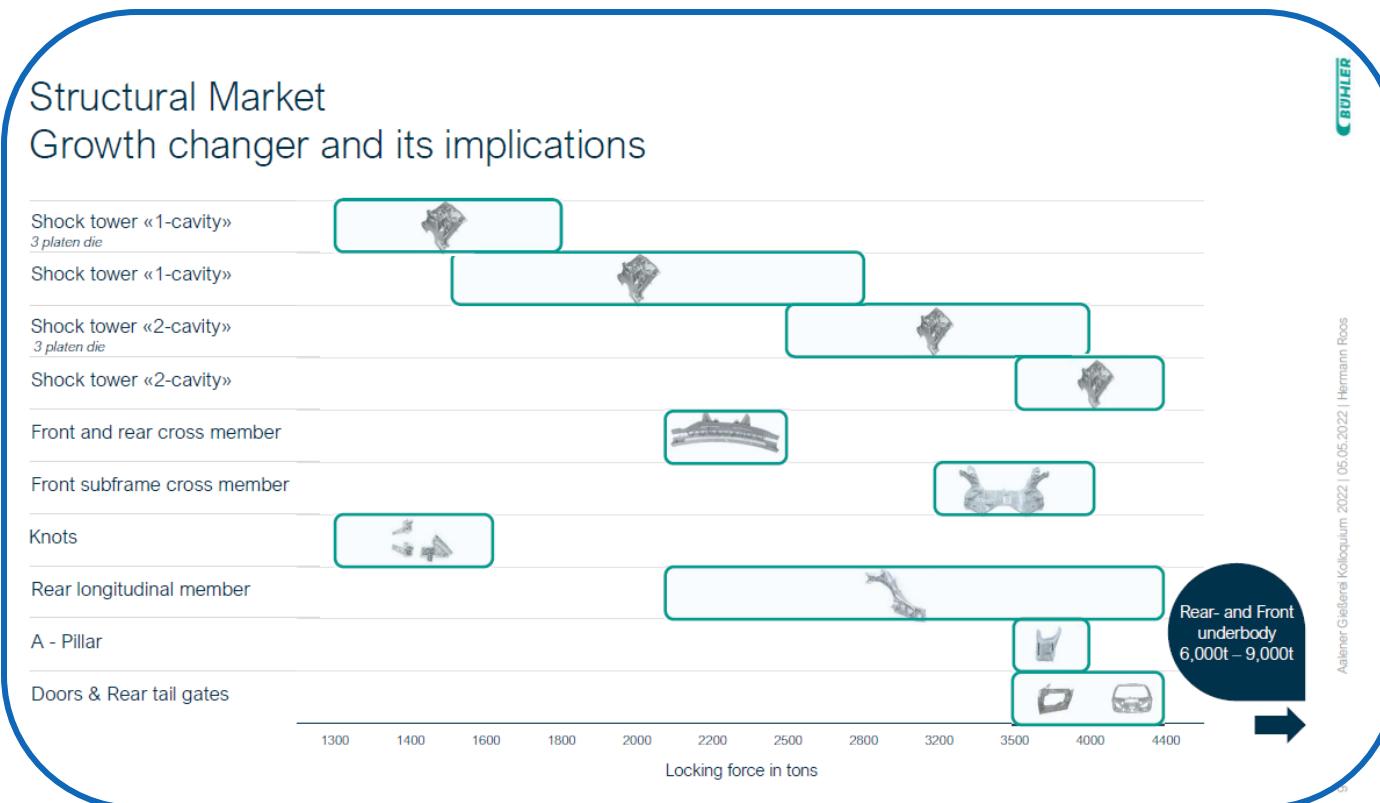
... automaker even notes that it will reduce:

- the number of casting machines required to build a vehicle frame and that it could even build “a complete or substantially complete” frame itself.

Source: evannex.com

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**SF Tooling accompanied development + realized structural casting projects since 1993**



MEGA/GIGA –  
Casting =  
next Level

## Schaufler Fischer Giga Die Experience



- 2020 1st Giga die built by Schaufler Fischer Group
- 4 different OEM's
- 8 different Giga castings
- 6 new die designs including virtual casting process
- 28 Giga dies delivered, +10 currently in build by all Schaufler Fischer plants in USA, Germany, China



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## Winning competition against other materials and processes

- Steel / Stamping
- Mixed material solutions
- Fiber re-inforced plastics

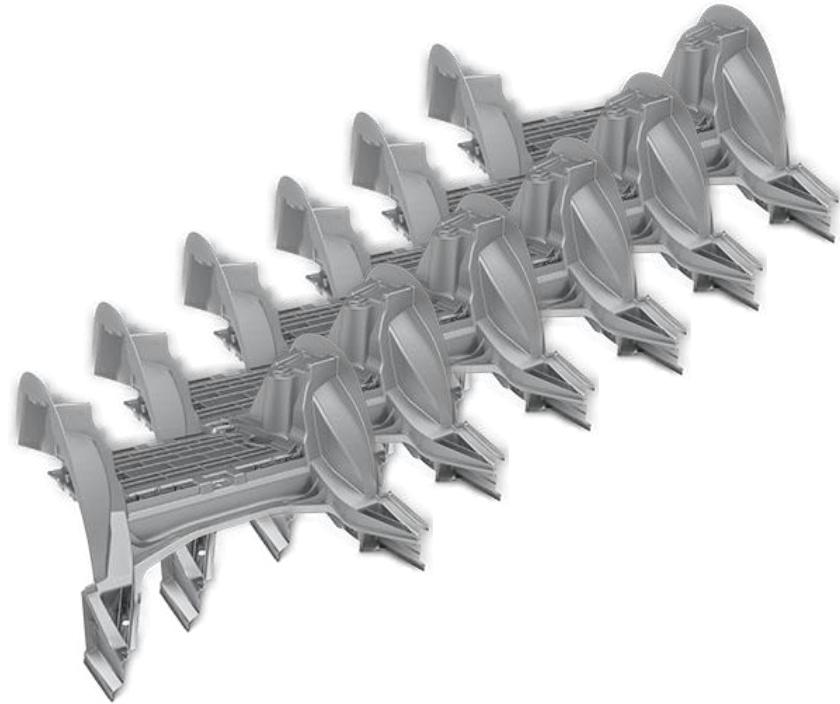
### Key parameters:

- Cost
  - CAPEX – different for green field / brown field
  - Variable cost – fully assembled component
- Lightweight potential
- CO2 footprint, recycling solutions



source

- Material cost, 40% on average
- Manufacturing cost, 35% on average
  - 1. Good parts per year per DCM → OEE
  - 2. Die cost per good part → die life
- Post-casting operations, 15% on average



Source: SW machines

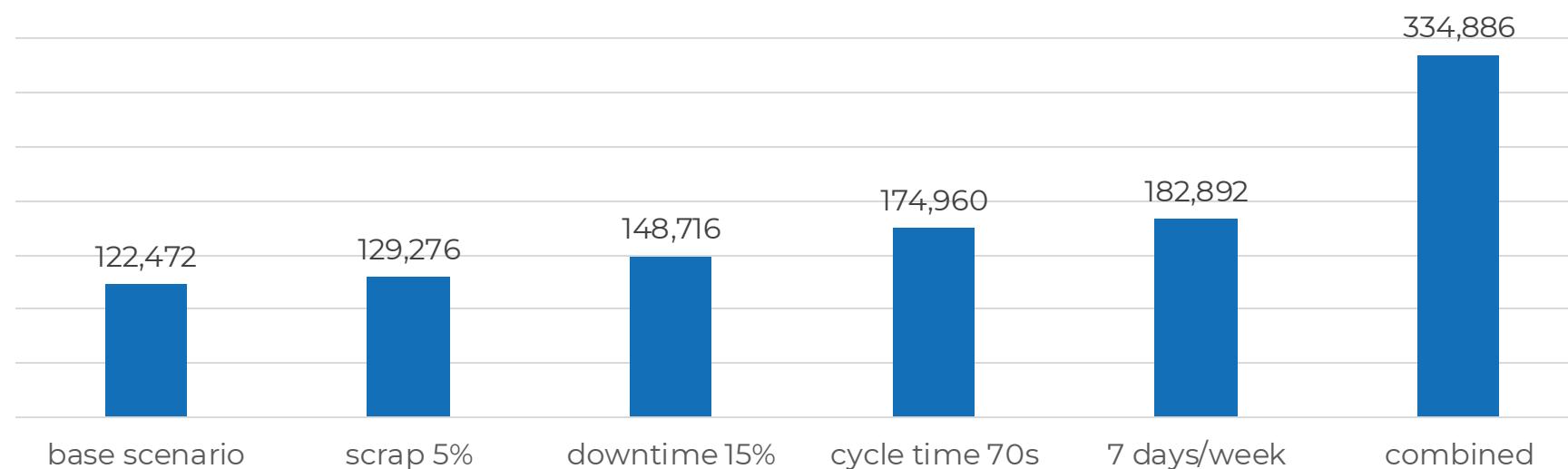
## Base scenario:

Quality: 10% scrap  
Downtime: 30%  
Cycle time: 100 sec.  
Production days p.a.: 225 (5d 45w)

## Potentials:

Quality: 5% scrap  
Downtime: 15%  
Cycle time: 70 sec.  
Production days p.a.: 336 (7d 48w)

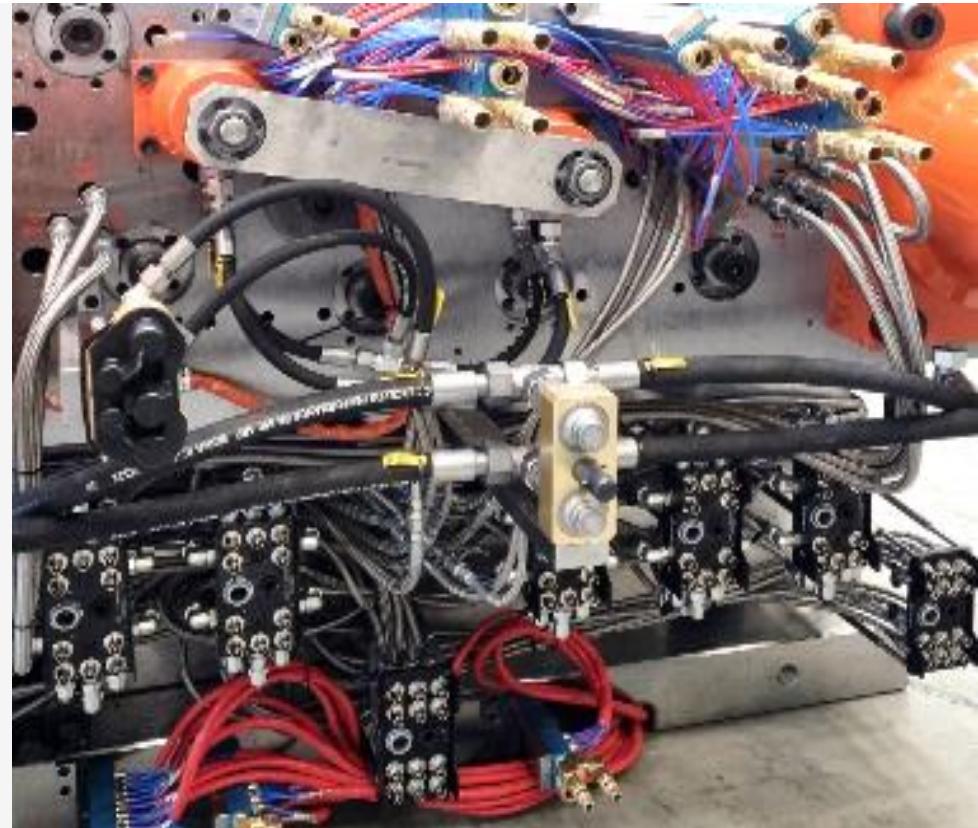
good parts p.a.



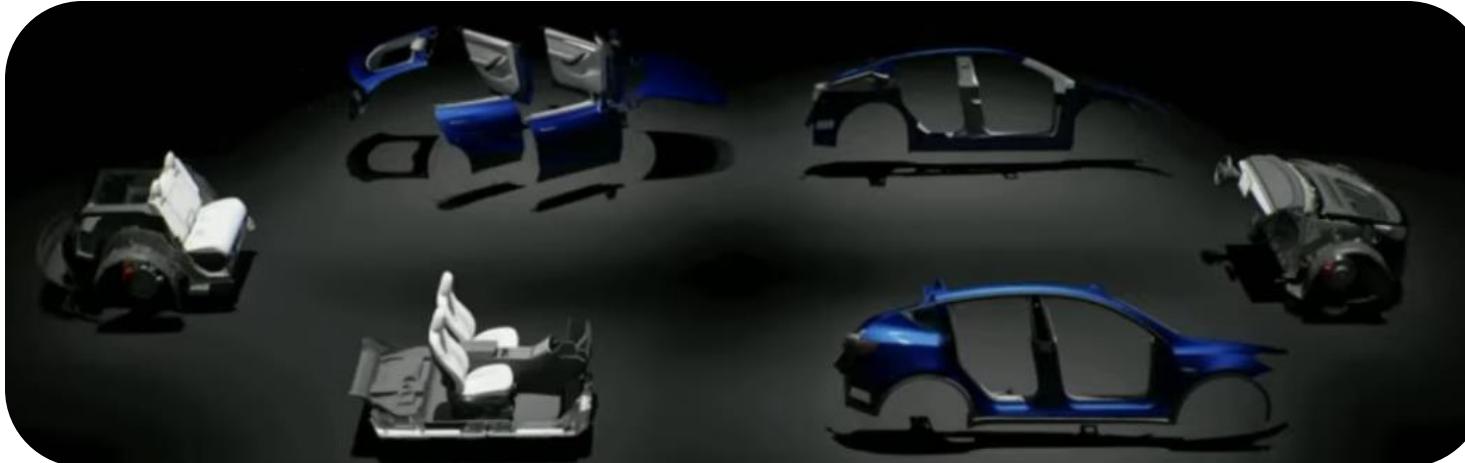
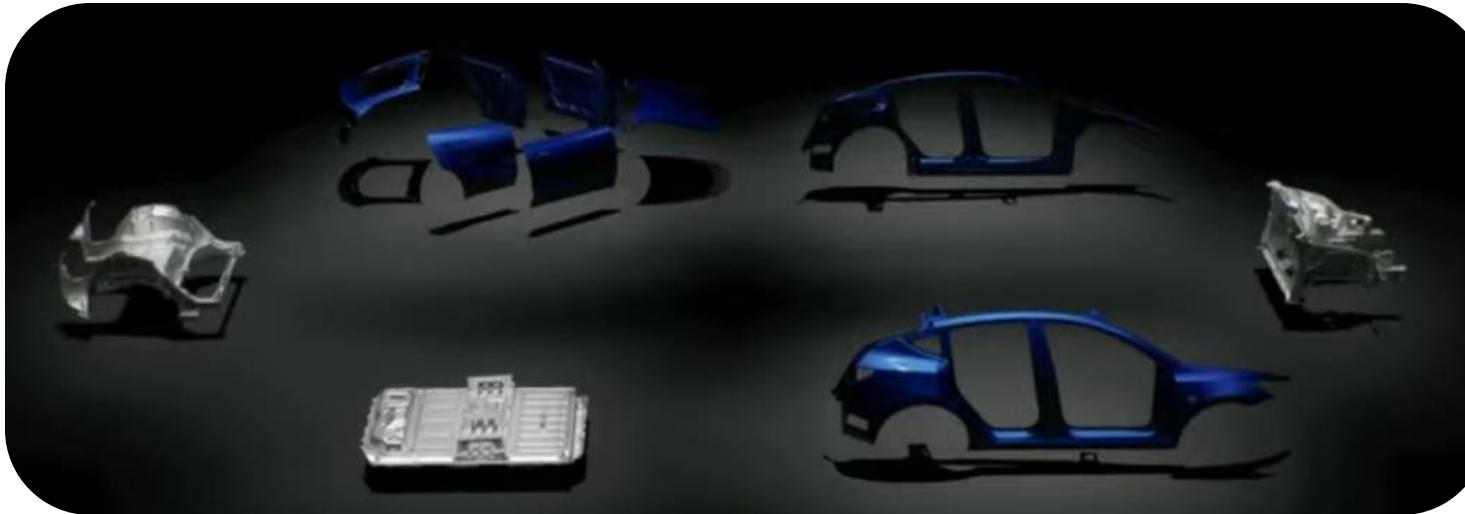
## Downtime

main contributor: cooling circuit leakages

- Number of cooling circuits ☹ 30%
- Hoses, pipes, fittings ☹ 60%
- Plugs ☺ 100%
- Cracks (main inserts, sub-inserts) ☹ ☹ 10%



# What's next? Mega castings as enabler for Unboxed Car Assembly



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Source: <https://www.youtube.com/watch?v=lu6nYh6HoDE>

## Build-Challenges for dies > 200 tons

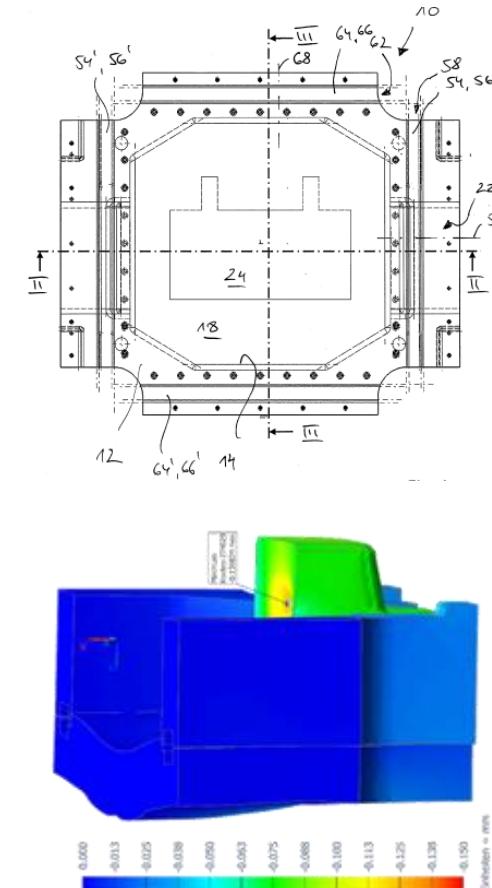
## Holder block limitations (10,000+ ton class)

- Steel availability
- machining capabilities / capacities
- lead times

## Solutions

- Cast holder blocks?
- built holder blocks (multi-piece)
  - FEA-optimized, applied for patent
  - after three rebuilds some parts can be re-used for complete dies

**We are ready.**



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# Impressions of our locations (1/3)

Top-notch production facility in Laichingen, Germany, with a new production hall for mega/giga dies



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# Shopfloor impressions Schaufler Tooling

New Building with finally a 120 ton crane, large spotting press and a large boring mill are installed. This extension will allow us to built dies with a total weight of > 200 tons



# Impressions of our locations (2/3)

Production facility in Temperance, USA



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# Impressions of our locations (3/3)

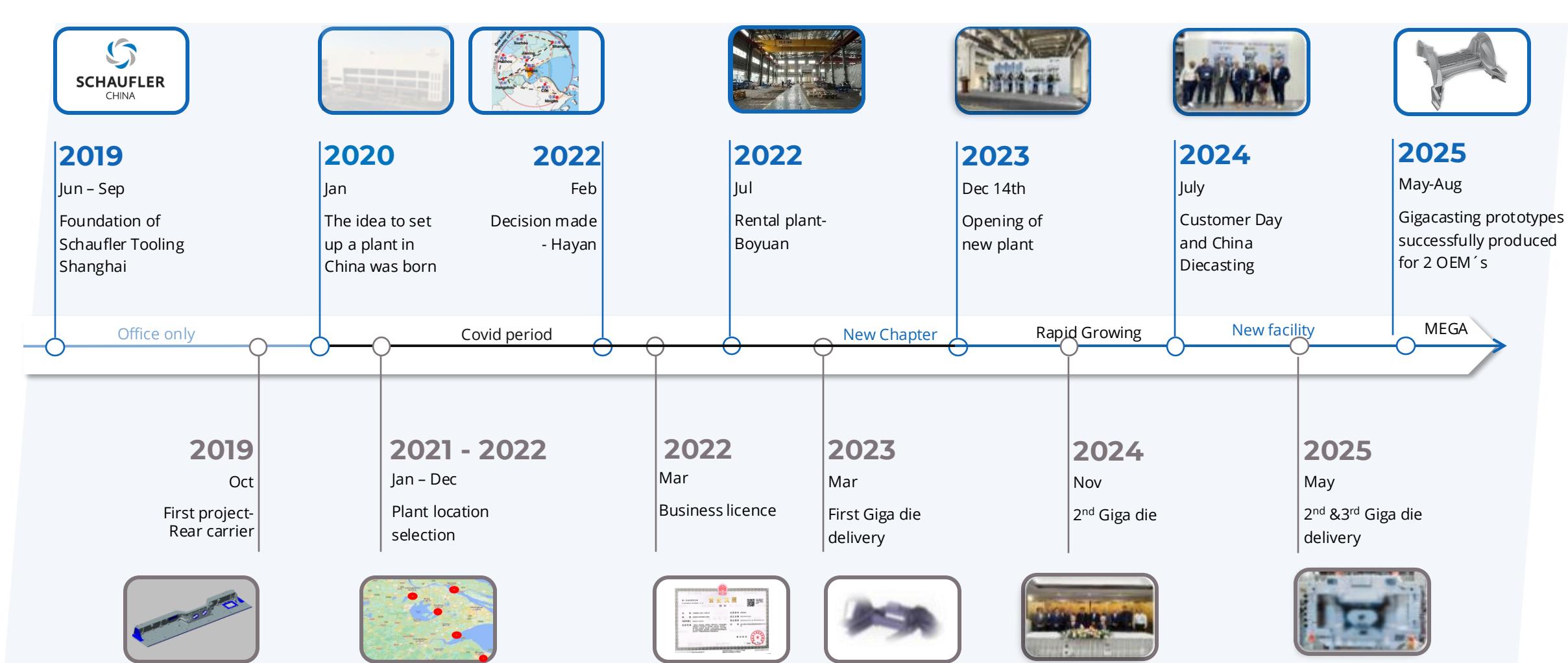
New production facility in Haiyan, China



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# Six decades of continued innovation and expansion

## General Introduction



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# Quality management (1/2)

Schaufler Fischer Group offers premium quality and is striving to obtain the latest certifications

## Schaufler Fischer Group's achieved and planned certifications and recognitions

### Certifications and accreditations



### Acknowledged global market leader



### Recognized with awards



### Planned TISAX certification



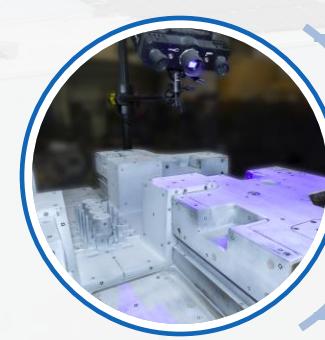
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# Quality management (2/2)

Schaufler Fischer Group is committed to quality control



## High quality set-up for optical measurement in DE



1x Coordinate measuring machine  
Zeiss Prismo

2x Atos scanner from GOM

1x Tritop from GOM



## Quality control in CN

In the  
procurement  
of an optical  
measuremen  
t

Spectral  
analysis  
of steel



## Quality control in the US

Optical  
measuremen  
t equipment

Coordinat  
e measuring  
machine

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## Global market leader

- Global market leader in dies for structural parts (since 1993)
- Worldwide innovator and pioneer in dies for components for electric / hybrid vehicles as well as for carbon fiber
- Facilities on three (3) continents

## Attractive market fundamentals

- Continuously increasing of light-weight parts (Al and Mg) in automotive
- Swift and sustainable emergence of EVs and hybrid vehicles

## Strong customer base

- Attractive & diversified customer base of automotive OEMs and casting groups in Europe, North America & Asia
- High customer satisfaction, loyalty and retention

## Technological leader & pioneer

- Outstanding capabilities in design, engineering and project management
- Global pioneer in innovations for maximize OEE





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