



**Laubinger  
Rickmann**  
GmbH & Co. KG

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Technology for Quality

# Mastering Distortion

3D straightening for structural components

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# Company | who we are



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- A team of **>120 employees** for whom your solution is our focus.
- For **50 years** we have been developing special purpose machines...
- ...for areas where **quality and precision** are the highest premise.
- All components are planned, developed and implemented by us.  
**We know why every screw has its place.**
- We start where standard equipment ends. And do not stop before **your process meets the requirements.**



# Company | certifications



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- DIN EN ISO 9001:2015  
Quality Management System
- DIN EN ISO 45001:2018  
Occupational Health & Safety
- DIN EN ISO 3834-2  
Welding Quality Assurance
- DIN EN 1090  
Certification of the factory  
production control
- §19 German Water Resources Act  
Specialized Company
- DIN EN ISO 9712  
Level 3 certified expert (PT/FPI)
- DGZfP (German Society for NDT)  
Member of expert committees
  - Automotive
  - Surface Testing
- DIN NA 062-08-25 AA  
Member of the Standardization  
Committee for PT / FPI



# Company | what we do



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# Company | service Locations



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Shanghai

Tennessee



# Company | who already trusts us

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**Automotive** Aludyne, AUDI, BMW, Bharat Forge, CSA, Cosma/Magna, Daimler, FAW China, +GF+ Automotive, Hanomag, Heiche, KSM Castings, Leiber, Linamar, Nemak, NewAlu, Regensburger Druckgusswerke, Shiloh, VW, ZF **Aerospace Industry** Airbus, AGUSTA Westland, AVIC, Boeing, Bombardier, CFAN, COMAC, Dassault, Airbus Helicopters (former Eurocopter), Fokker, GKN, Korean Airline, Patria Aerostructures, Premium AEROTECH, SAAB, SABCA **Space Engineering** Airbus Defence and Space (former EADS Astrium), DLR, MT Aerospace **Railway** Deutsche Bahn, SBB, SIEMENS **Aluminum & Steel Industry** Alcoa, AMAG Rolling, ArcelorMittal, Butting, Deutsche Edelstahlwerke, Ellwood, Europipe, Franchini, SalzgitterMannesmann, ThyssenKrupp, Vallourec **Laboratories** TÜV Nord, Dekra



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# Straightening

General Information

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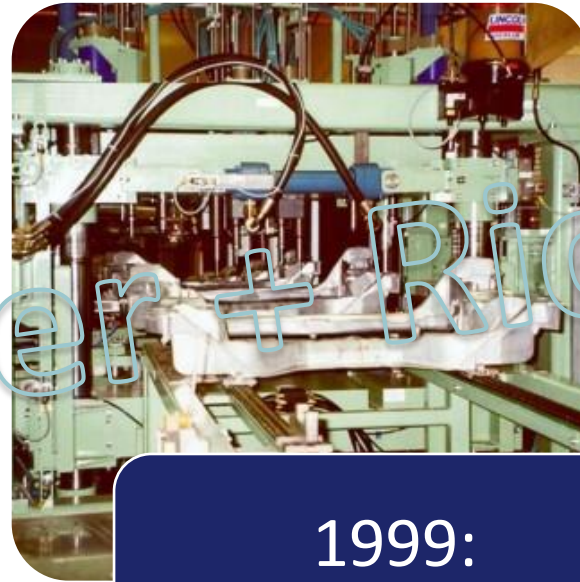
# Straightening | experience



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1991:  
forming  
(DO328)



1999:  
3D straightening  
(Daimler C class)



2022:  
>130 systems





*„The **self-learning** straightening software from L+R is unique on the market. It **adapts** itself continuously **to varying distortions** and material characteristics, **optimizes the cycle time** and **minimizes stress** for part and machine.“*

*Magna BDW*



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# Applications

Straightening Machines for various part types

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# Application | machines sorted by part type



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- **Structural parts**
  - Shock tower
  - Longitudinal member
  - Cross member
  - Tail gates
  - Suspension mountings
  - Integral beam
- **Battery housing parts**  
(HPDC, LPDC, Extrusion)
  - Battery trays / pans
  - Battery frame
  - Side plates / intermediate plates
- **Chassis parts**
  - Cross beam (gravity die casting)
  - Cast side part (gravity die casting)
  - Casting node (gravity die casting)
  - Front axle beam (steel)
- **Engine parts**
  - Steering box housing
  - Camshafts

# Application | machines sorted by end-user



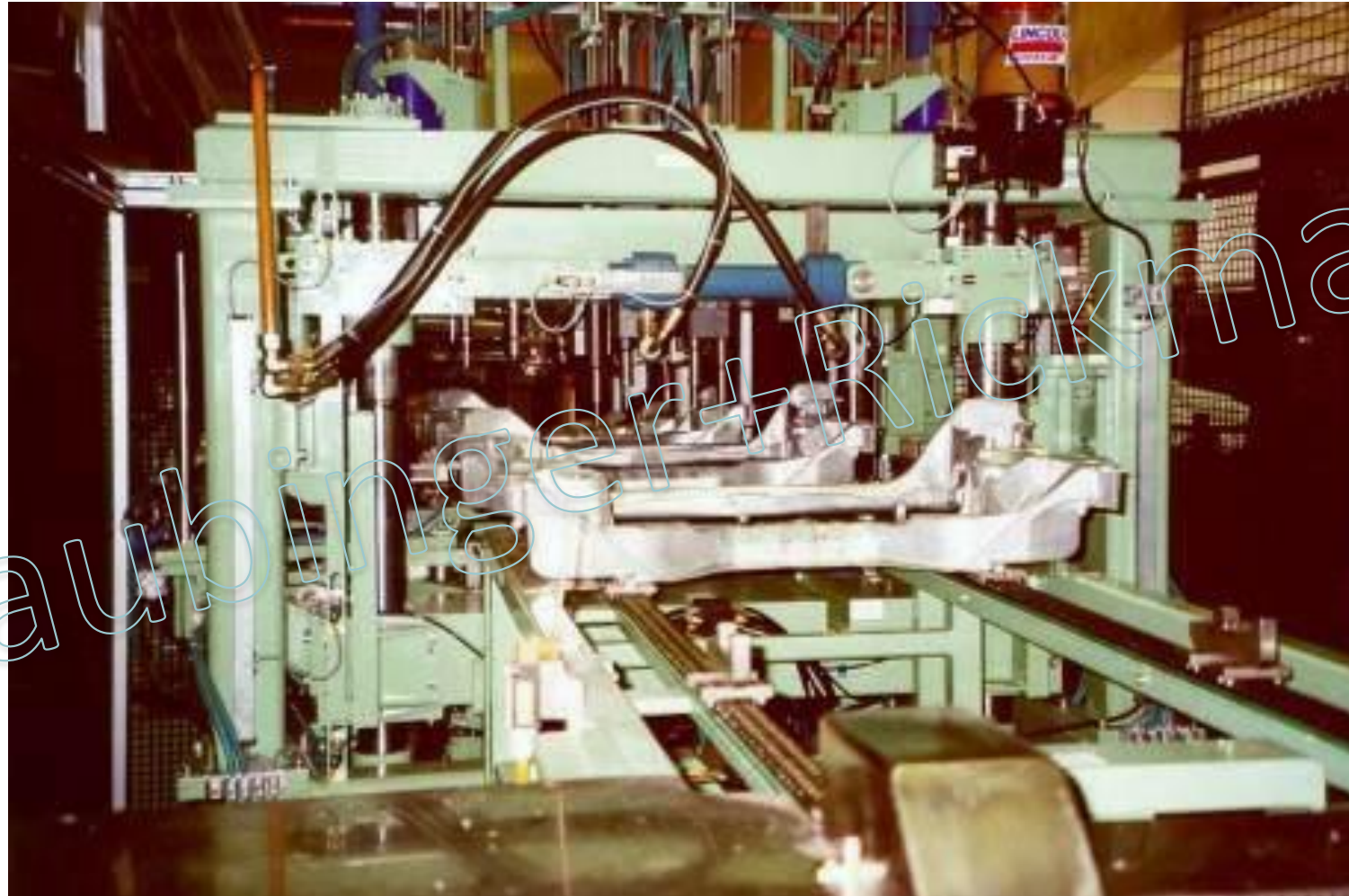
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<b>OEM</b>	<b>Type of machine</b>	<b>Qty.</b>
BMW/RR	Automatic Measuring	2
BMW/RR	Automatic Straightening	31
BMW/RR	Semi-Automatic Straightening	14
Daimler	Automatic Straightening	40
Ford	Automatic Straightening	2
FCA	Automatic Straightening	2
GM	Automatic Straightening	1
Lucid	Automatic Straightening	2
VW/Audi	Automatic Measuring	8
VW/Audi	Automatic Straightening	12
VW/Audi	Semi-Automatic Straightening	2

# Application | first automatic straightening for automotive chassis components (1999)



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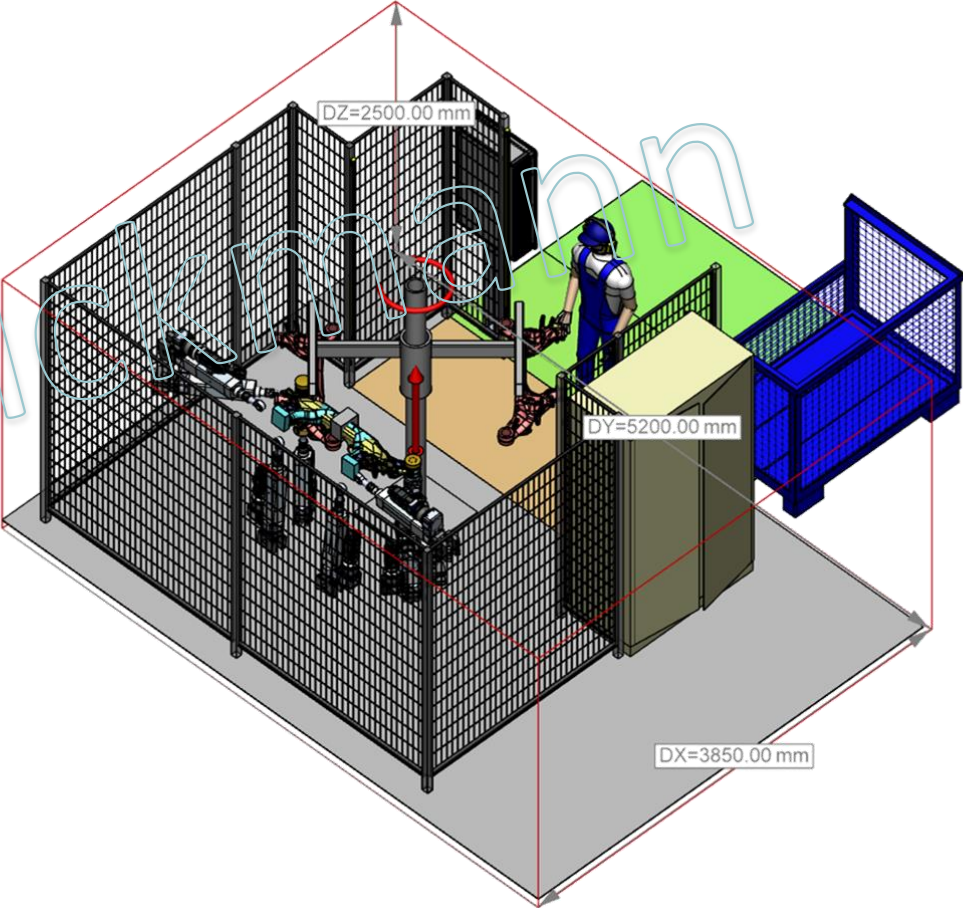


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# Application | cross member



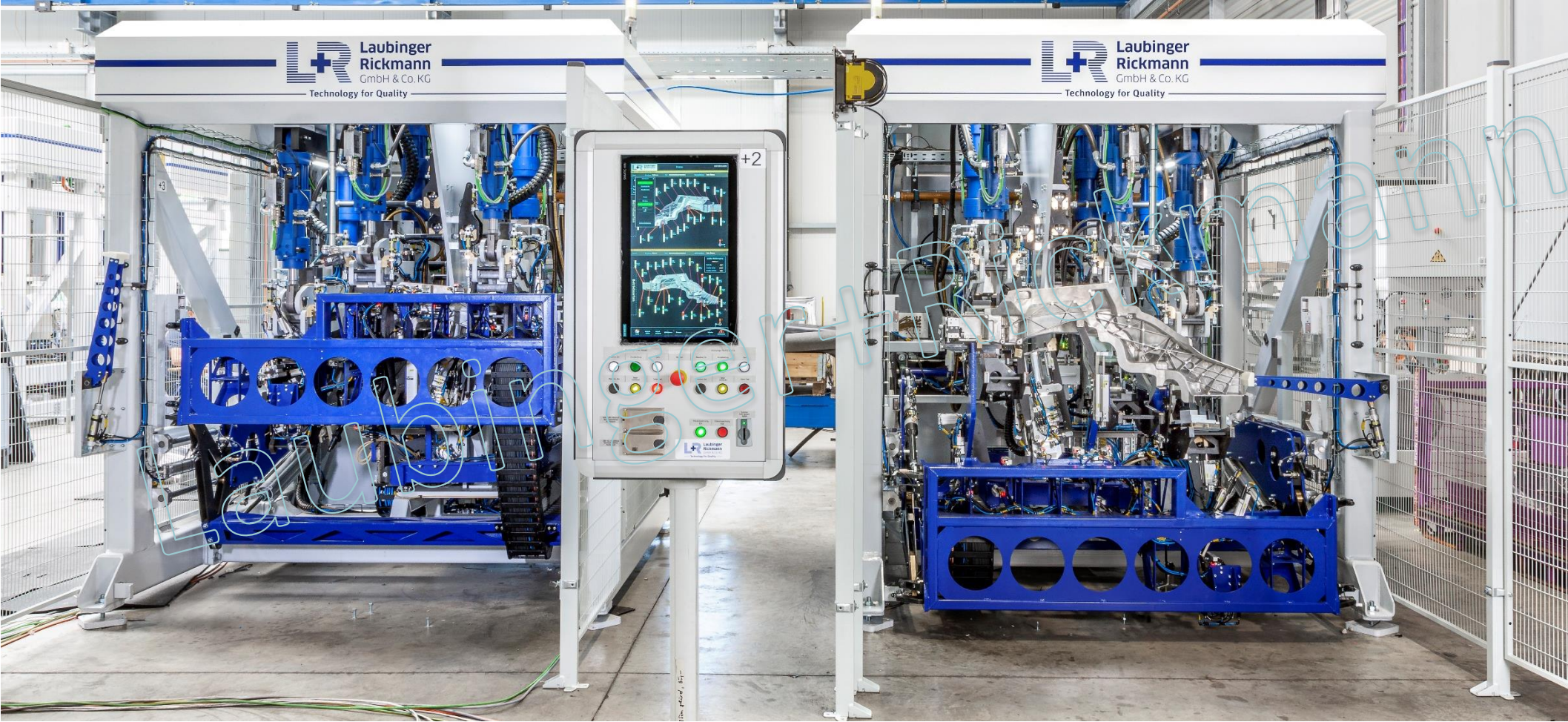
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# Application | longitudinal member



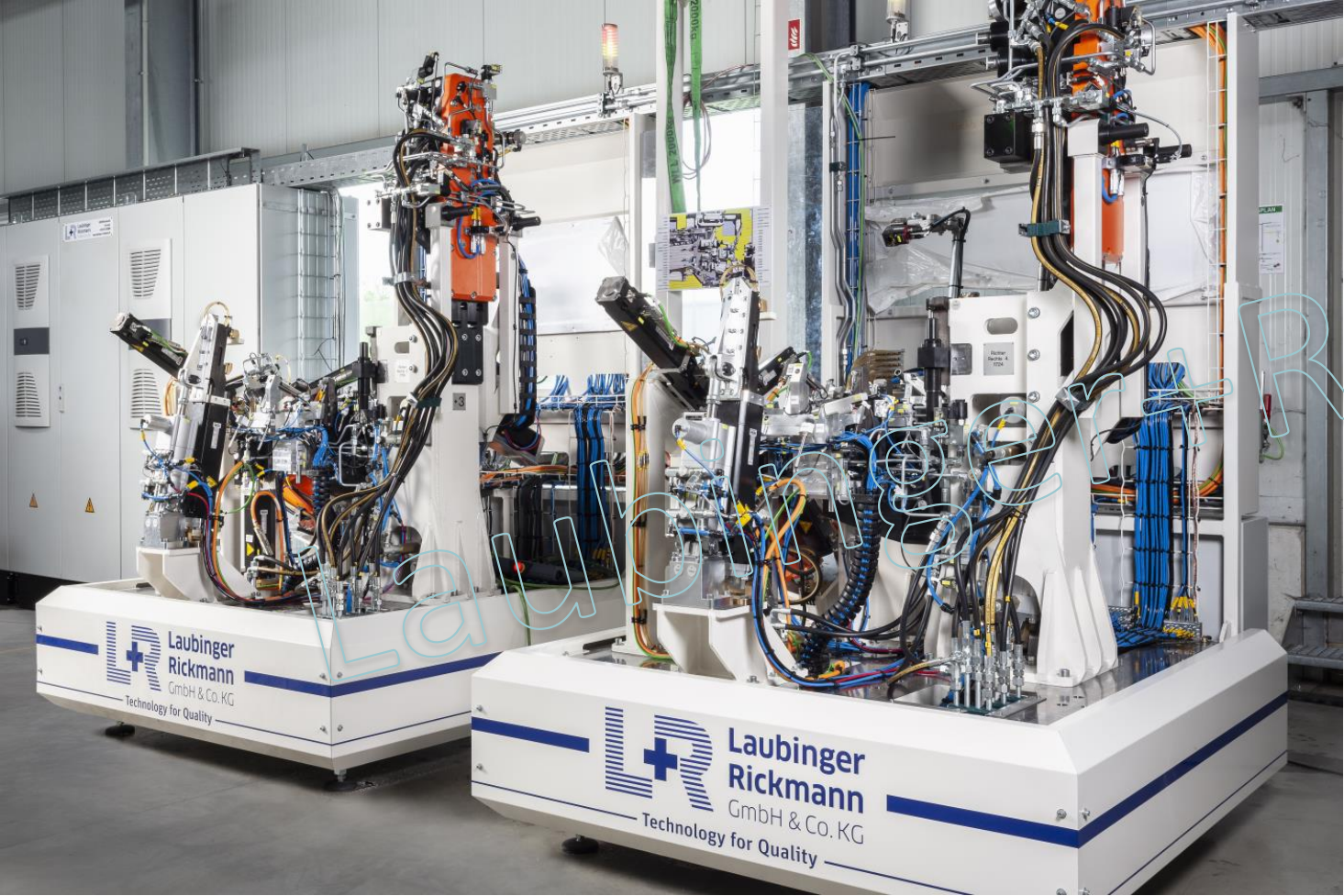
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# Application | shock tower (dome)



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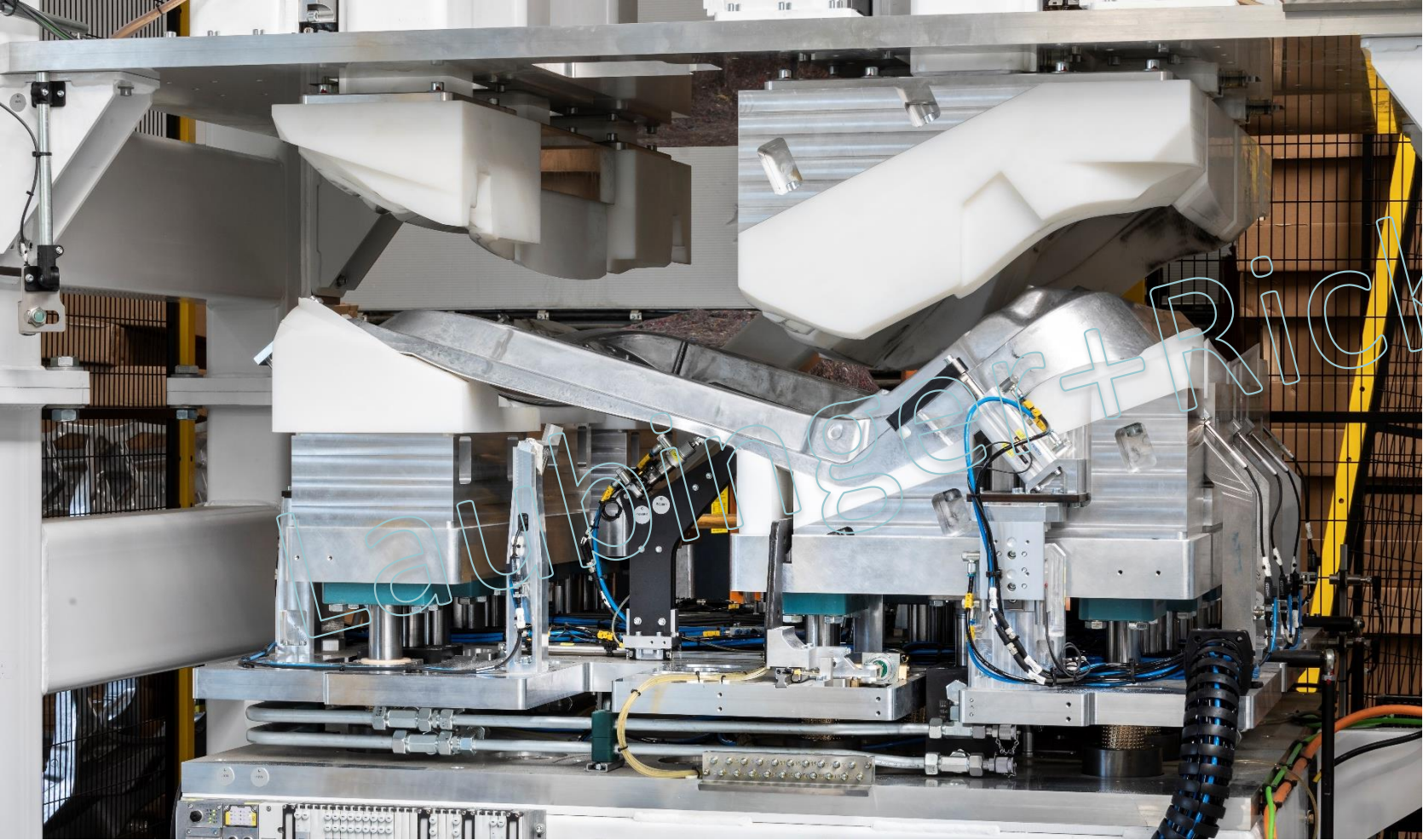




# Application | tail gate



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# Application | extruded profiles



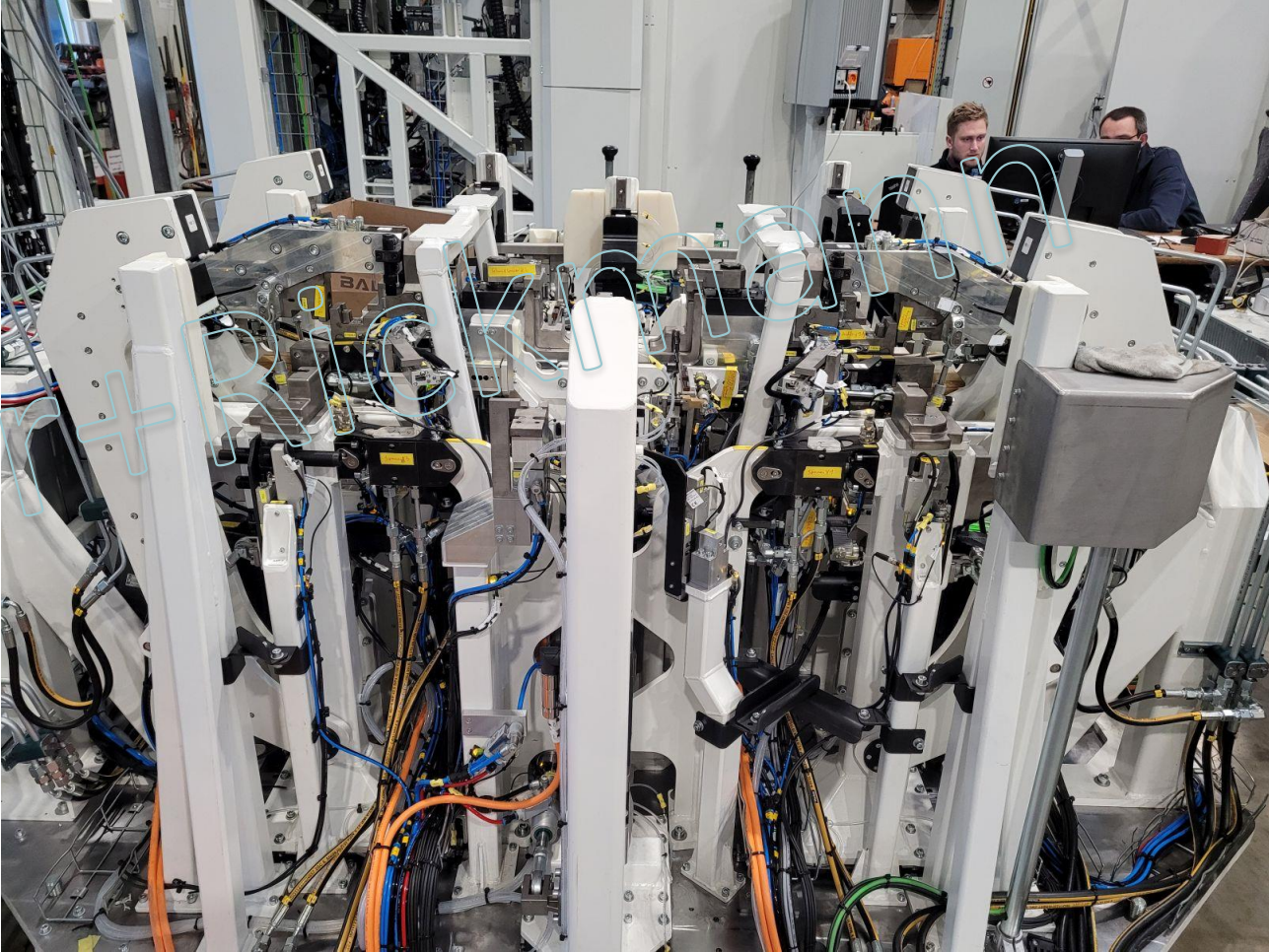
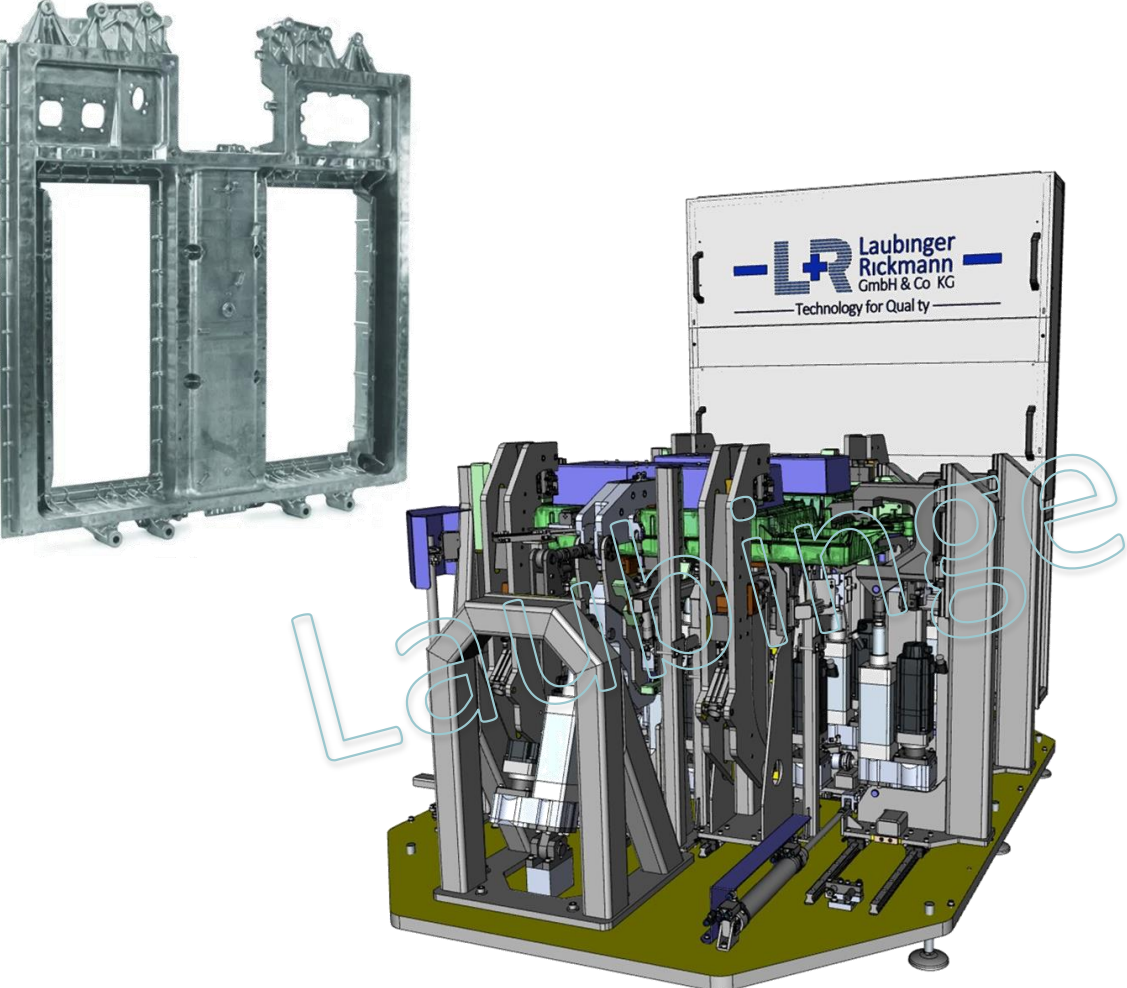
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# Application | latest trend



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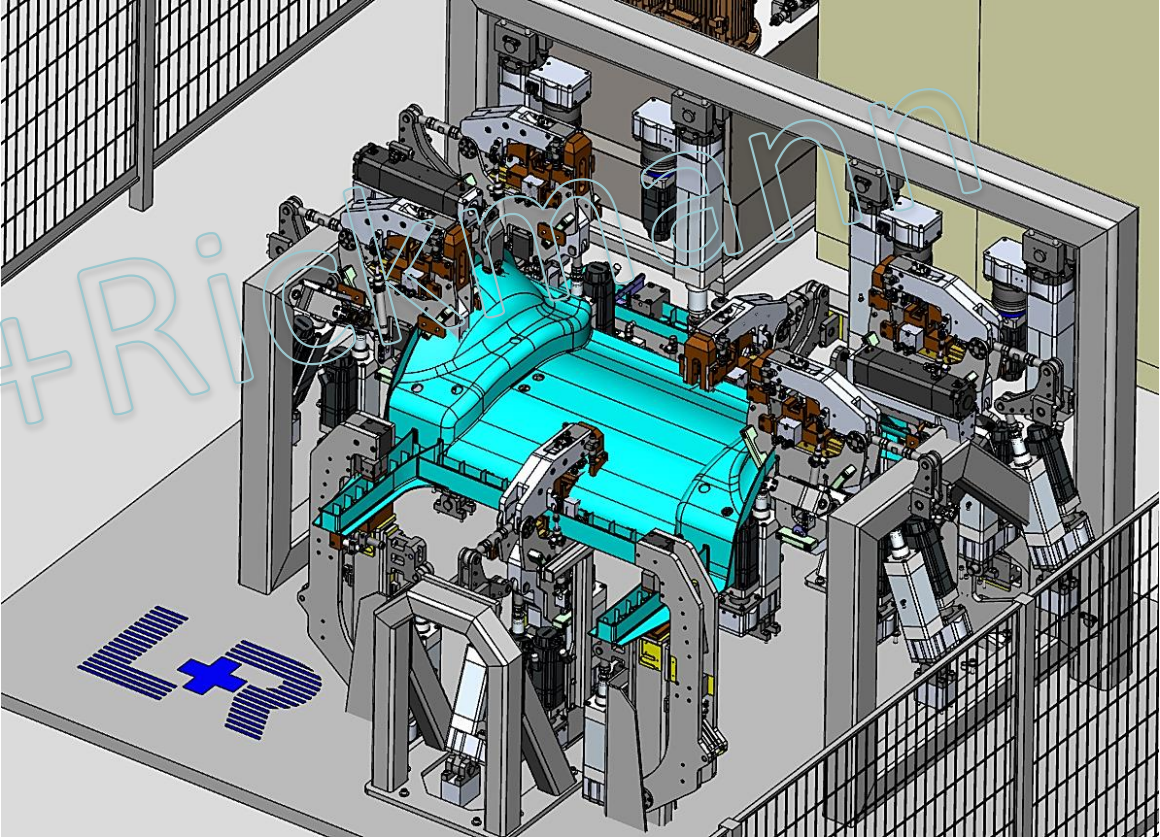
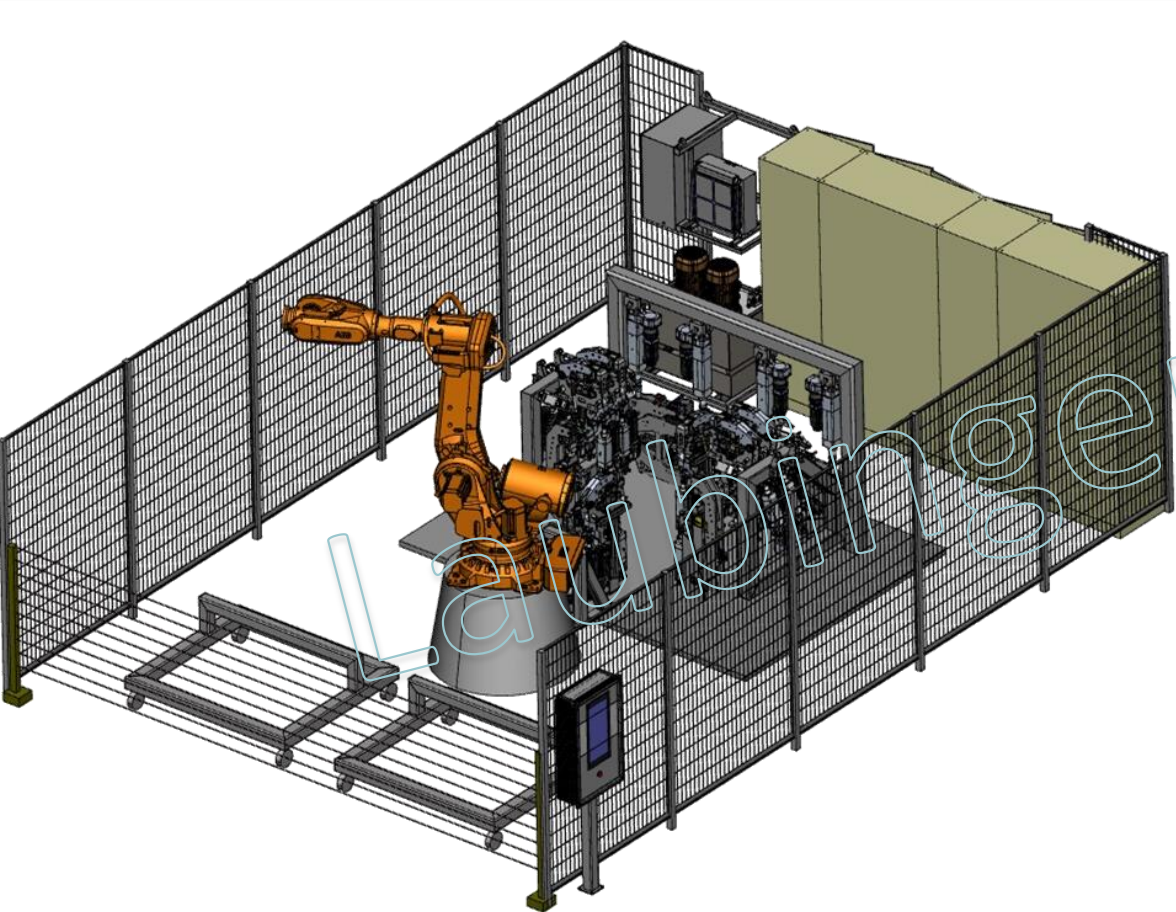


\*Source: Giesserei Online <https://www.guss.de/organisation/bdg/veranstaltungen/europaeischer-druckgusswettbewerb-2022/gewinner/gewinner-2-2>

# Application | work in progress



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