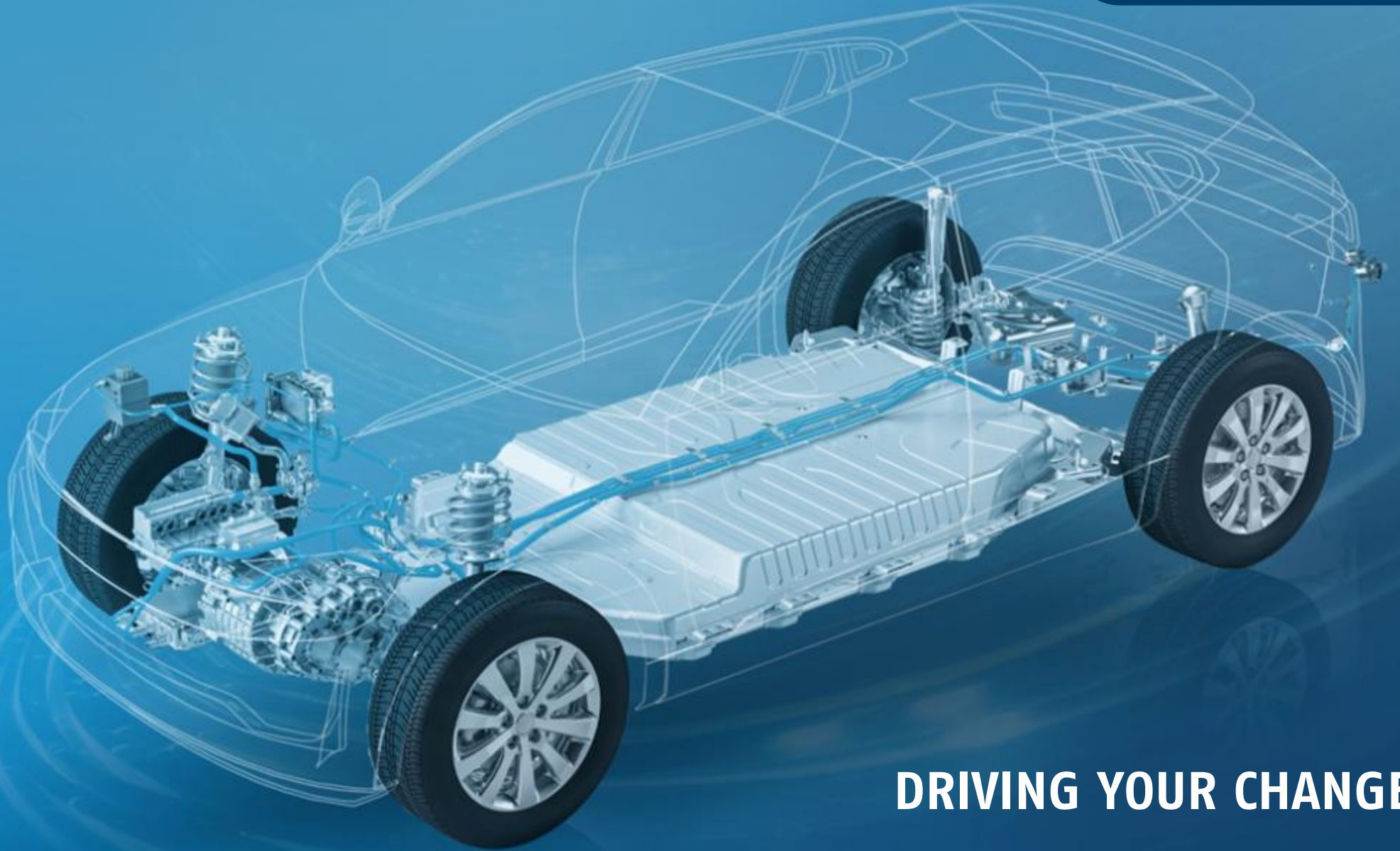


Hand in hand for tomorrow



DRIVING YOUR CHANGE

SCHUNK – Close to you world wide

In over 75 countries

- + 34 own subsidiaries
- + 32 Distribution partners
- + 10 Production plants



Lauffen/Neckar



Brackenheim-Hausen



Mengen



St. Georgen



Gressel AG
Schweiz



S.P.D. S.p.a.
Italien



Eberhardt
GmbH & Co. KG
Clebronn



Morrisville
USA



Querétaro,
Mexiko



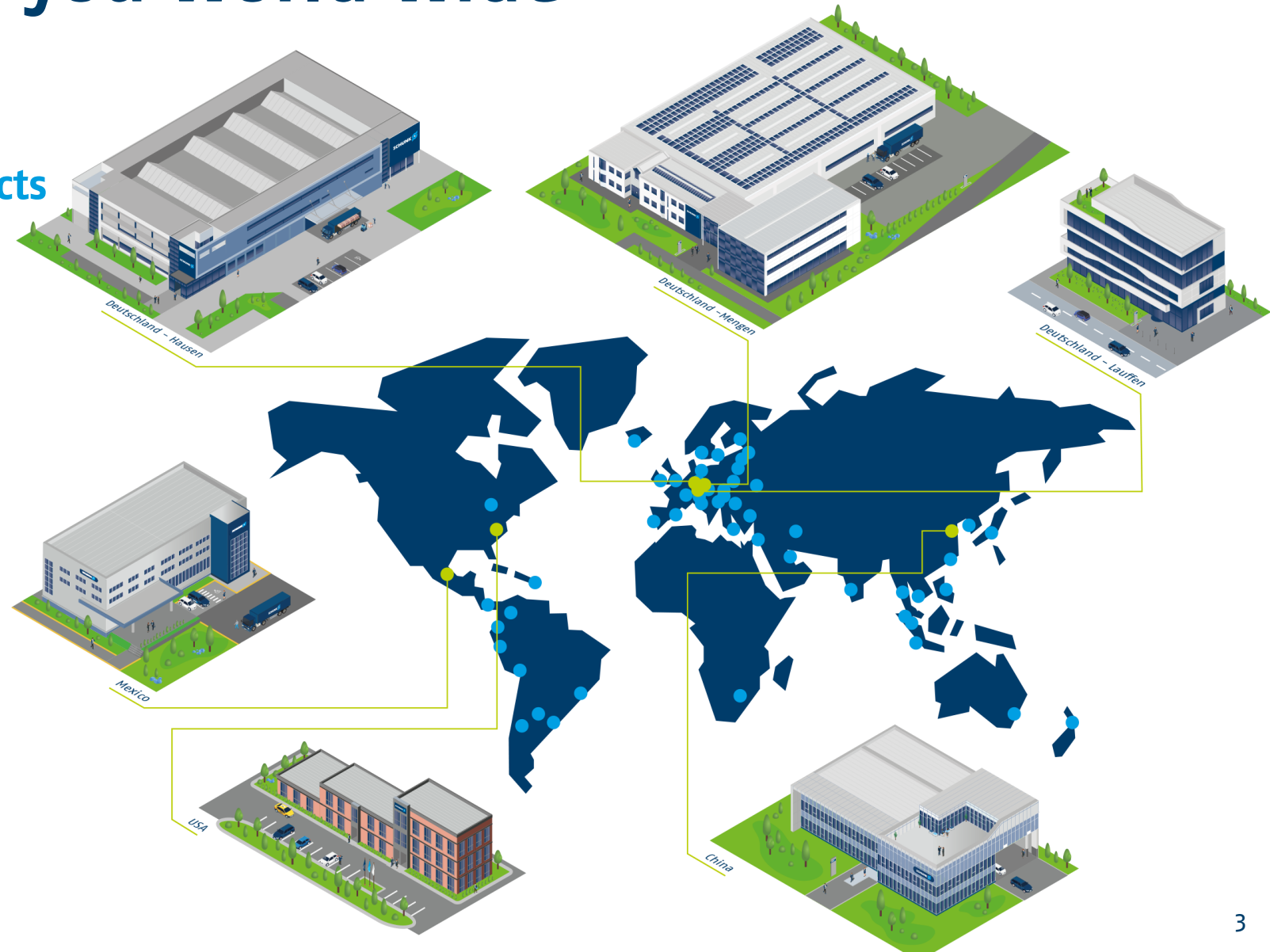
Shanghai,
China

SCHUNK – Close to you world wide

The global player for your projects

SCHUNK Engineering:

- 4 countries
 - Germany
 - China
 - USA
 - Mexico
- 6 locations



OUR FOCUS



CASTING



FRAMING



ASSEMBLY

REQUIREMENTS FOR NEW PRODUCTION SYSTEMS



FLEXIBILITY



TURNKEY



COSTS



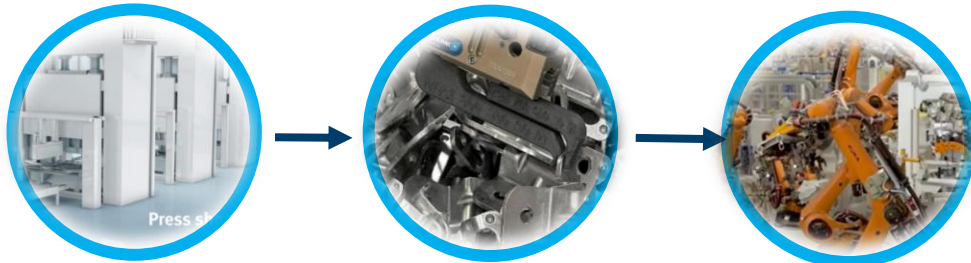
REFERENCES



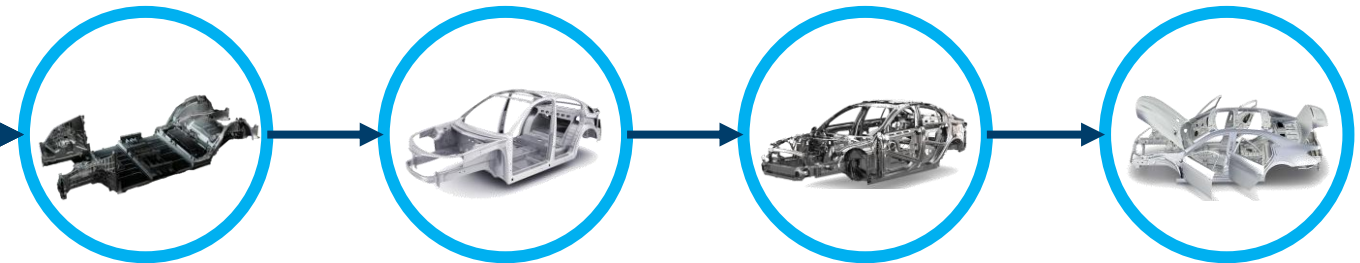
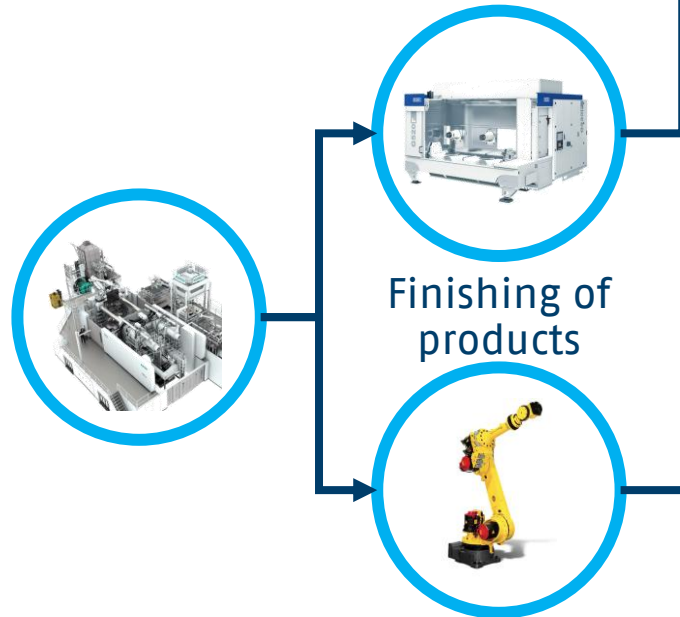
TECHNOLOGY

Process flow body in white

Conventional



Megacasting



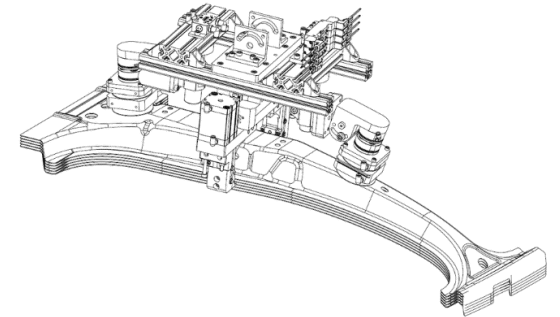
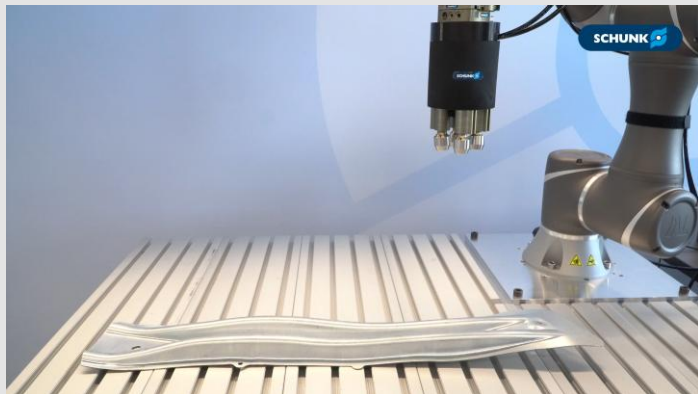
- Front-End
- Back-End
- Battery pack
- Side frame 1
- Side frame 2
- Body parts

PROCESS STEP BODY SHOP

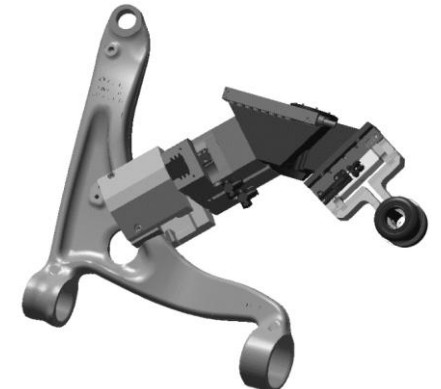
2
BIN PICKING

+

3
WELDING
STATIONS



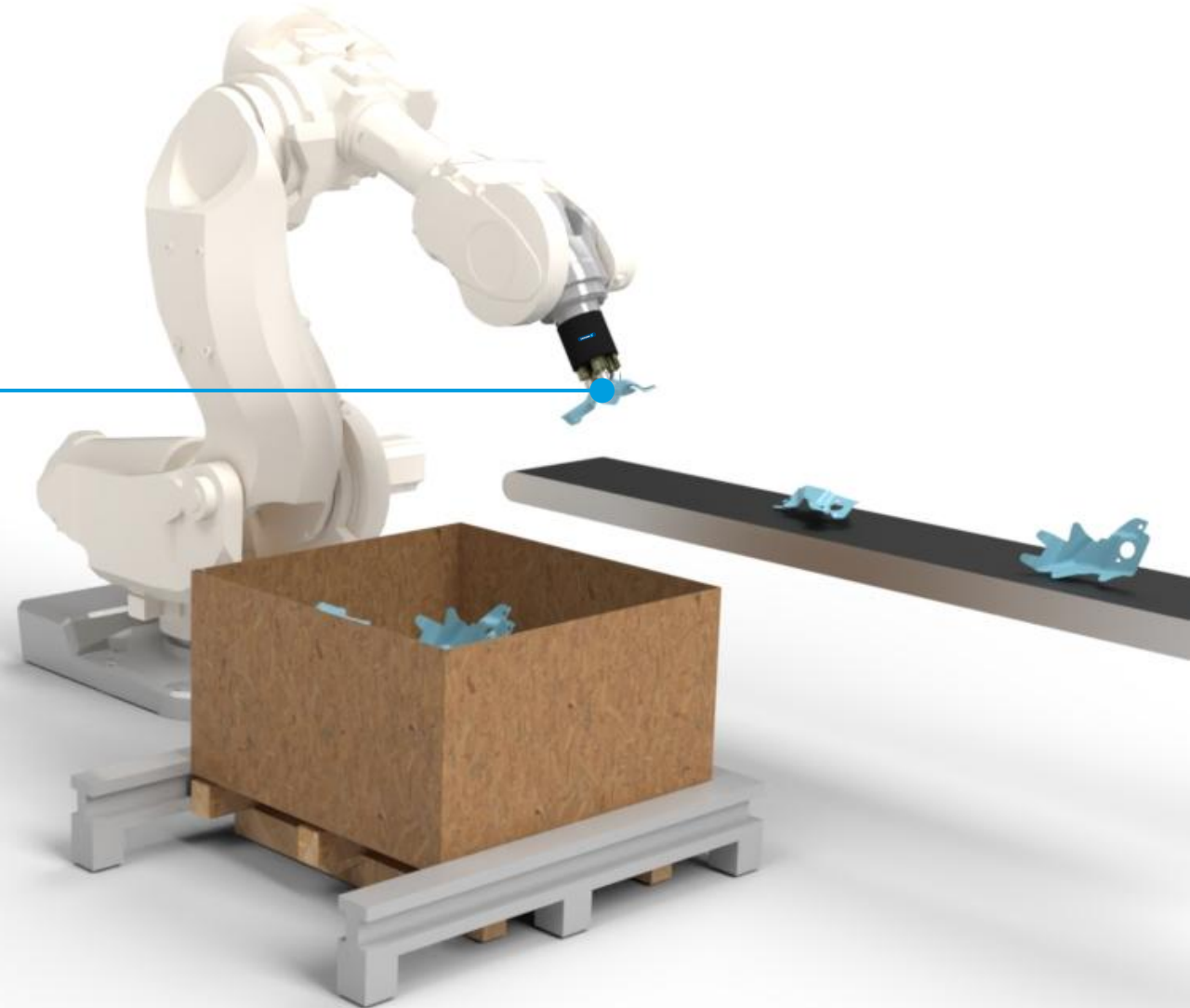
SCHUNK



Flexible gripper for magnetic workpieces



- Retractable fingers can adapt to any component geometry, allowing different components to be handled with the same gripper
- Movable finger caps adapt to the surface of the component to be gripped
- Efficient gripping and component separation during bin picking.

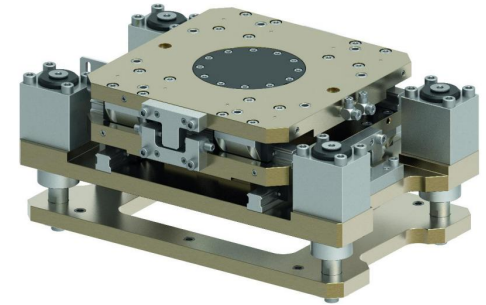
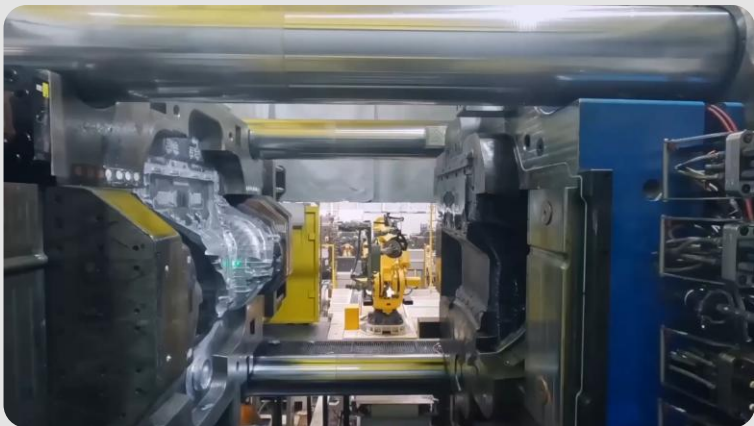


PROCESS STEP BODY SHOP

1
MEGACASTING

+

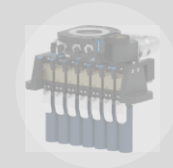
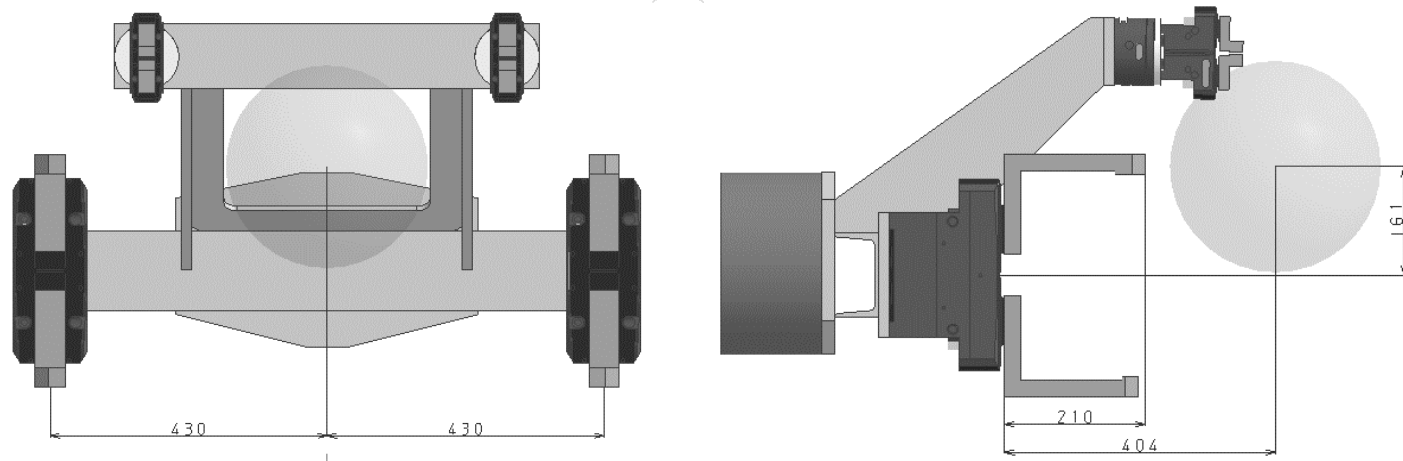
2
MECHANICAL
REWORK



SCHUNK



MEGA CASTING UNLOADING OF PARTS



Flexible gripping systems

- Pneumatic
- Electric

Low system pressure

- High clamping forces at 6 bar

High holding force

- Safe handling of workpieces

Max. process reliability

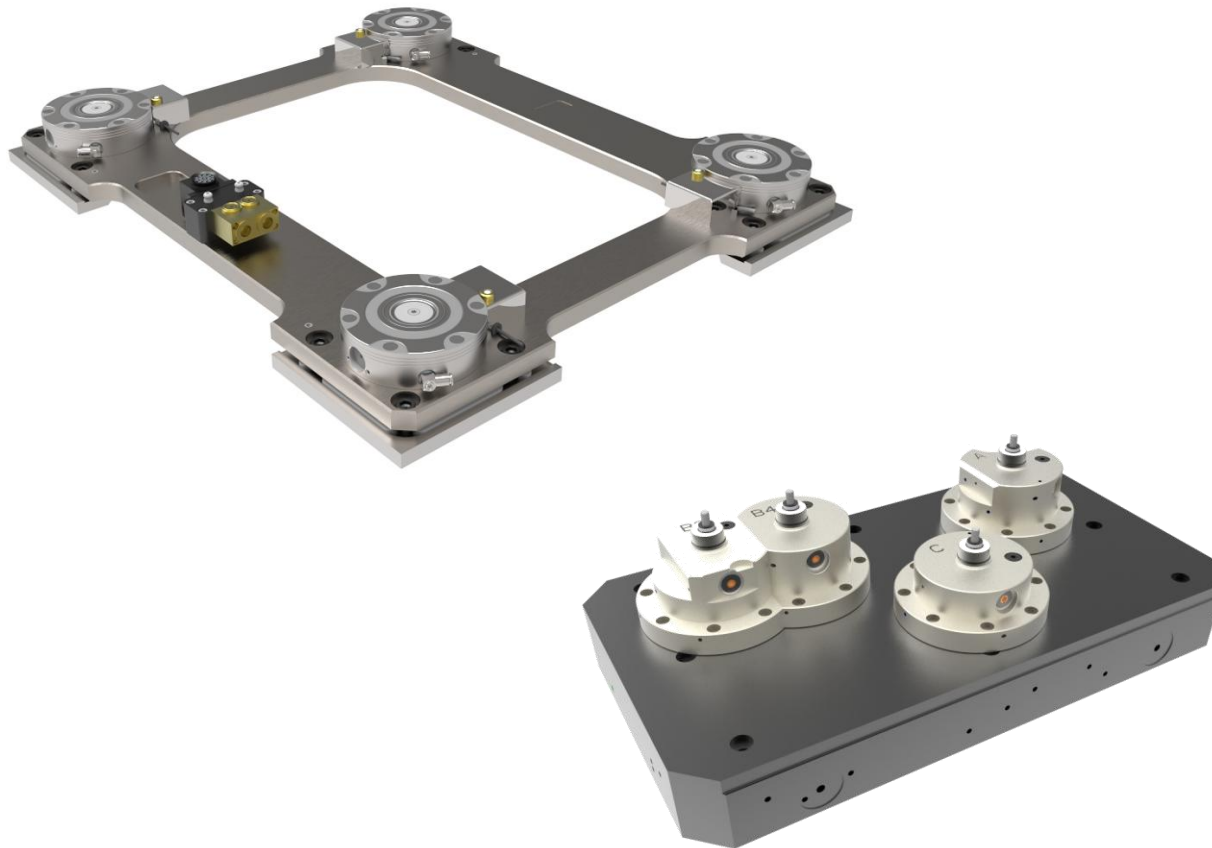
- Self locking mechanism

Compensation units possible

- Allowing for the compensation of tolerancing as well as the deflection of the workpiece

ZERO-POINT SYSTEM

WPC CLAMPING & MILLING OF PARTS



High accuracy

- Clamping accuracy of 0,05mm

High pull down force

- 28kN force
- Up to 3mm pull in stroke
- Possible to straighten slightly deformed pieces

Double function

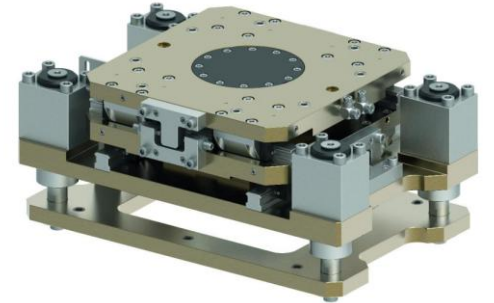
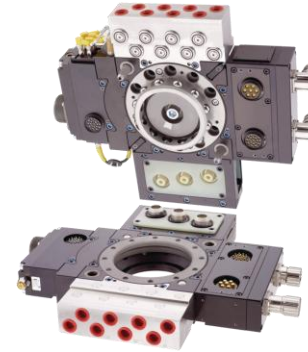
- Clamping station for machining as well as workpiece carrier for the complete downstream process
- Self locking mechanism

Option: Accessories available

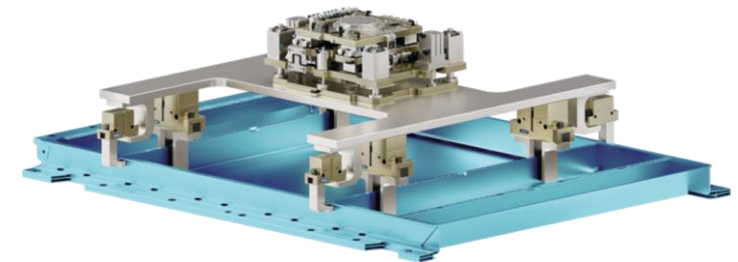
- Different sensor options possible for highest process control

PROCESS STEP BODY SHOP

3 Front end + 4 Back end + 5 Battery pack

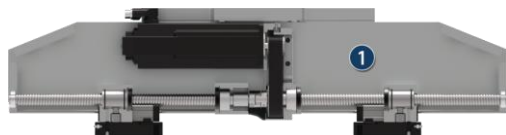


SCHUNK



CUSTOMIZED GRIPPING UNIT

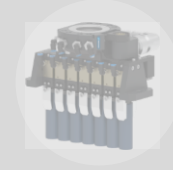
HANDLING OF BATTERYPACKS



synchronous version



asynchronous version



powerful yet precise

→ Up to 12.000N gripping force with stepless stroke of 100...400mm / jaw

slim design

→ servo drive inside the gripper

large torque capacity

→ gripper fingers up to 800mm length

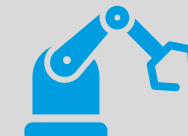
Position clamping

→ electric holding brake prevents the movement of the spindle

asynchronous jaw movement possible

→ positioning of the component in gripped state

Easy integration by
7. Axis option



FANUC
YASKAWA

KUKA
ABB

PROCESS STEP BODY SHOP

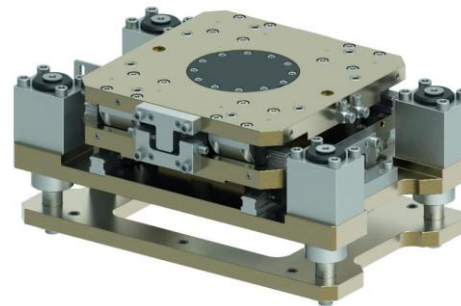
6
FRAMING

+

7
BODY PARTS

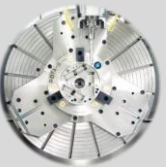
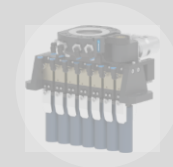
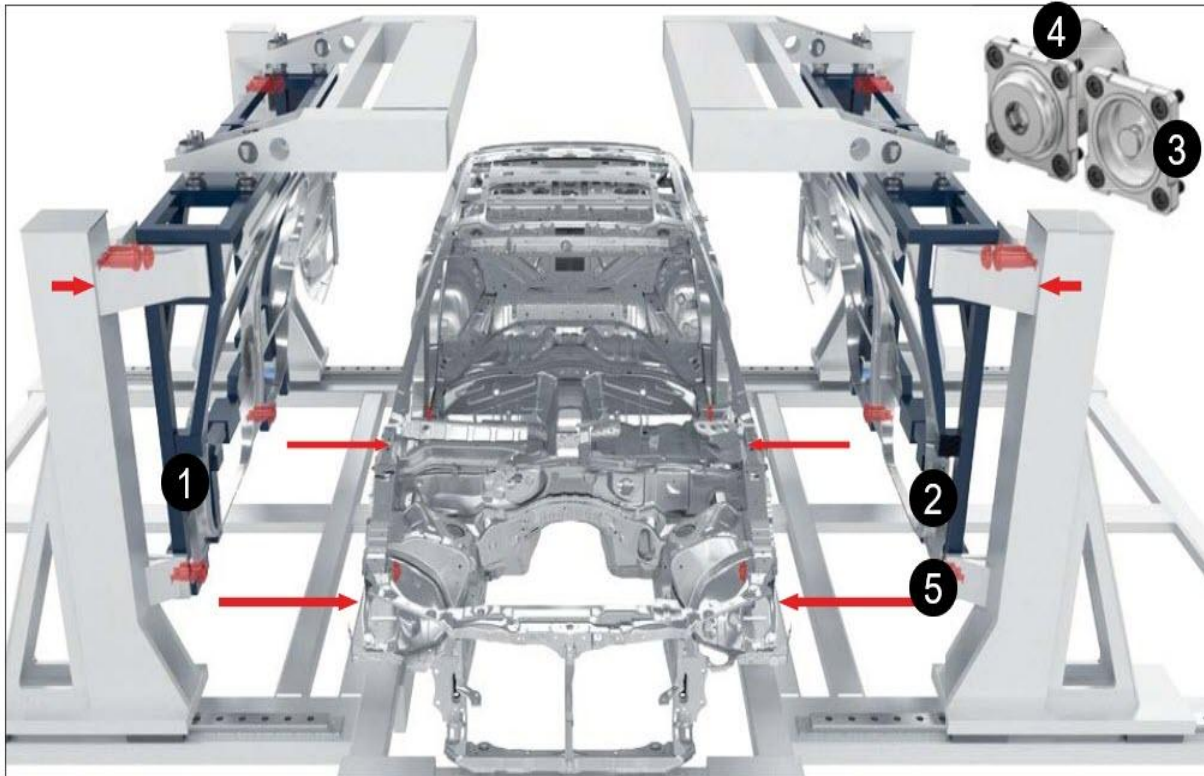


SCHUNK



APPLICATION

FRAMING BODY IN WHITE



High flexibility

- Unified pressure on the body for improved build quality

High pull down force

- 28kN force
- Self locking mechanism
- 3mm pull in stroke

Weldings compatible

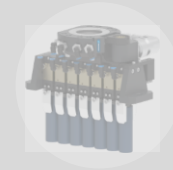
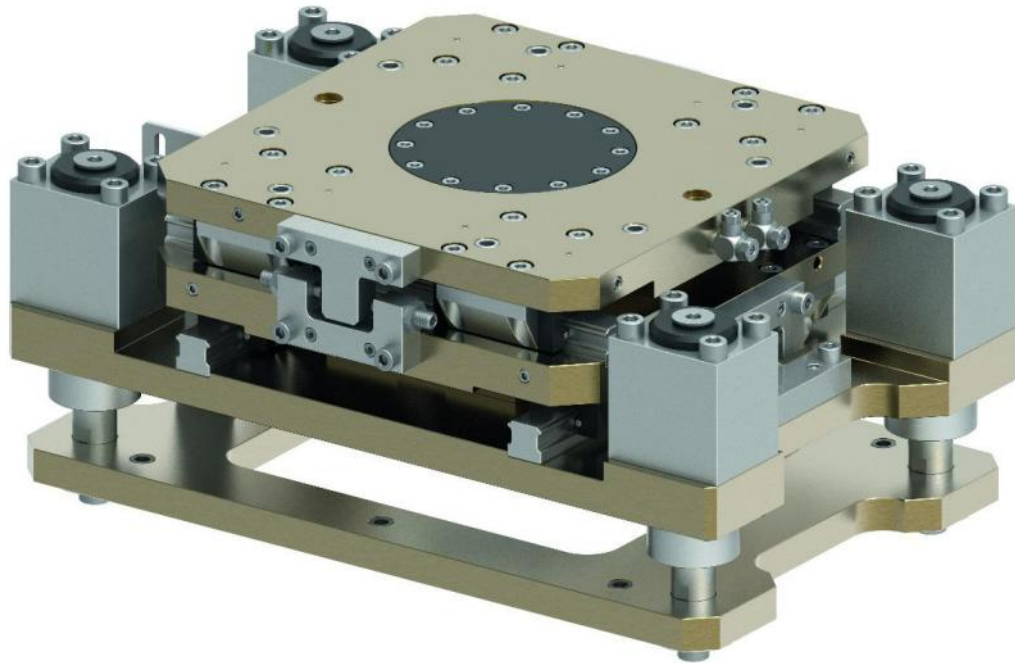
- Enabling smooth build quality

Option: Accessories available

- Different sensor options possible for highest process controll

COMPENSATION UNITS

HANDLING OF STACKS / MODULES / PACKS



Customer specific interfaces

→ For the assembly with your robot or gantry system

Compact und robust

→ For high loads and speeds, even with Emergency stop

Tolerance compensation

→ For joining processes and faster robot programming

Customized compensation distances

→ X-,Y- and Z-Compensation unit freely configurable

Variety of options

→ Position memory, interlocking, weight compensation, sensor technology, etc.

BODY IN WHITE

APPLICATION

ASSEMBLY



Customizable compensation units

→ Active weight compensation via patented mechanism

Compact and robust

→ For high loads and torque

Tolerance compensation

→ For joining processes and faster robot programming

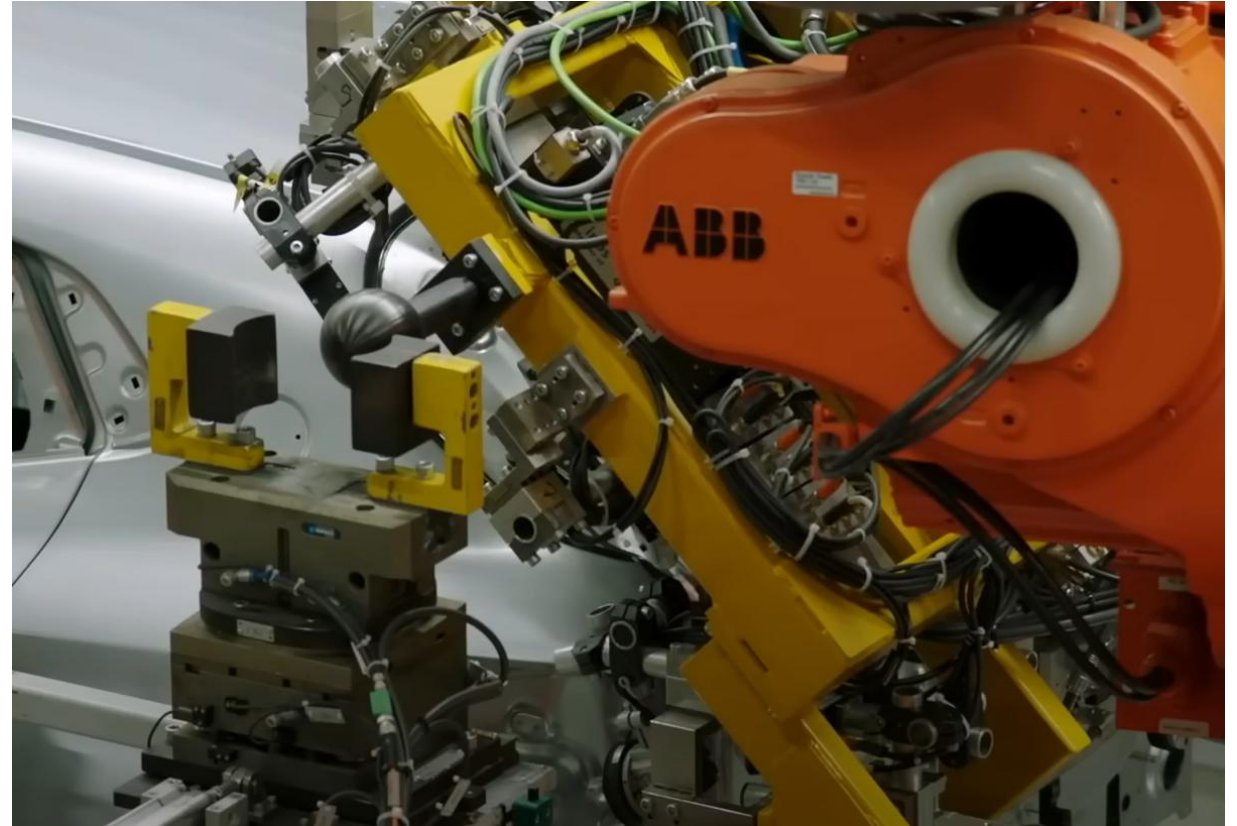
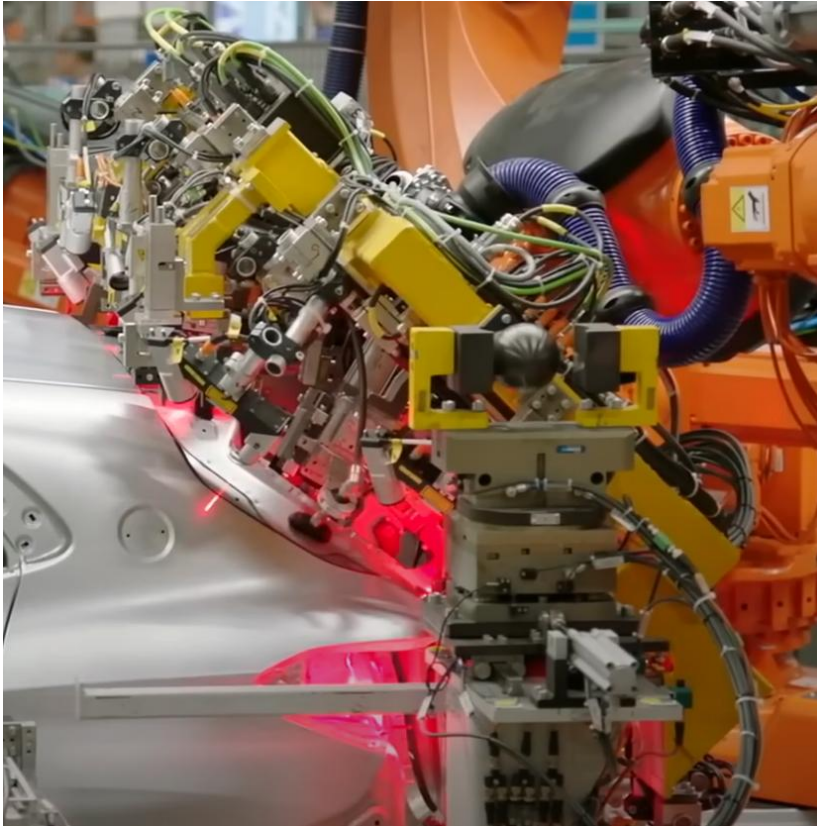
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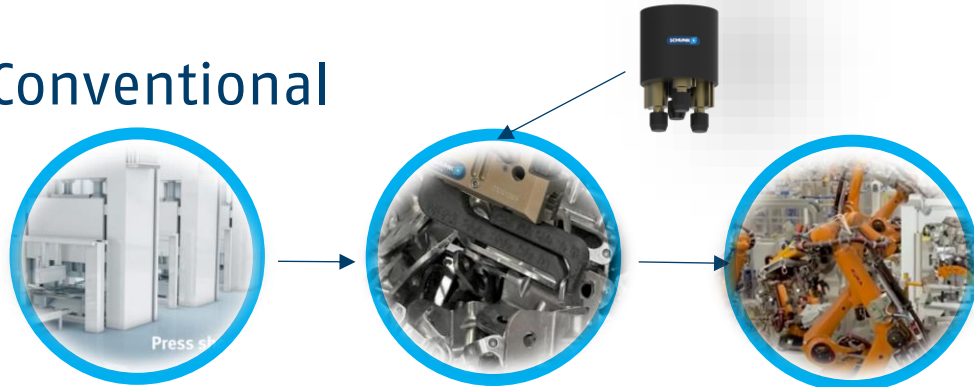
→ Position memory, interlocking, weight compensation, sensor technology, etc.

ASSEMBLY

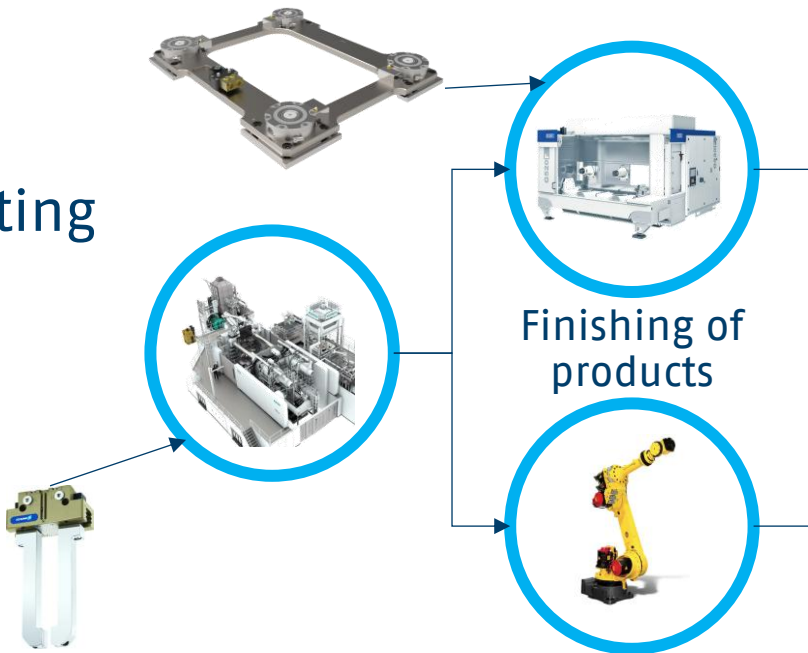


Process flow body in white

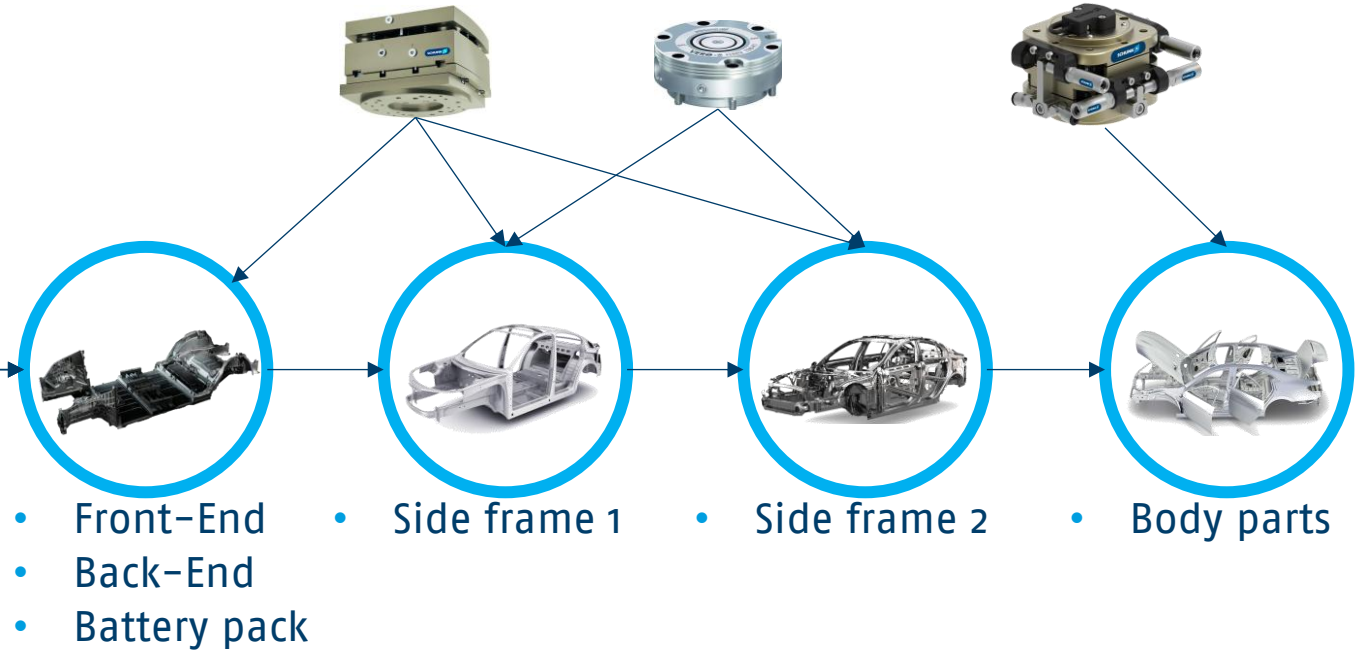
Conventional



Megacasting



Finishing of products





Hand in hand for tomorrow

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