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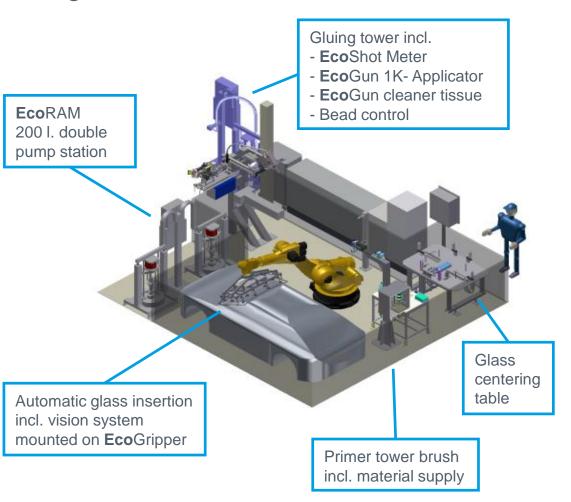
Testcenter

Testcenter

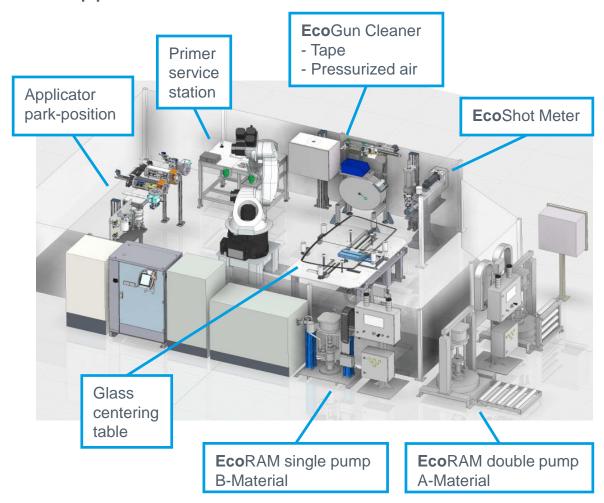


Our customer cestcenter Europe – a service for you in Bietigheim-Bissingen

Gluing tower station



Robot application station



Testcenter



Our customer testcenter China – a service for you in Shanghai



- Process development and validation tests for gluing
- Development of customer-specific solutions
- Process optimization



2 compact automatic gluing cells



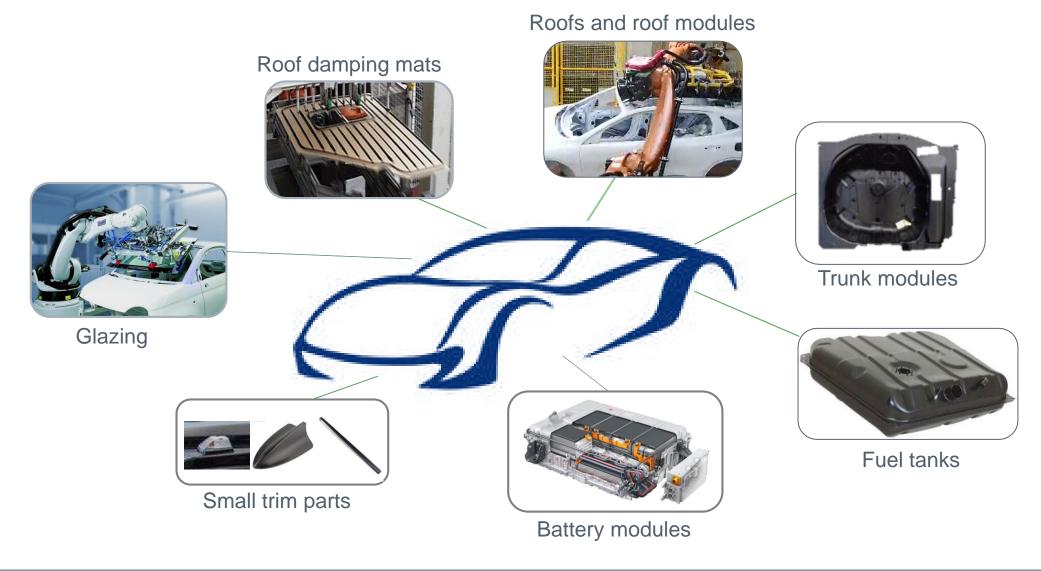


Overview

Overview



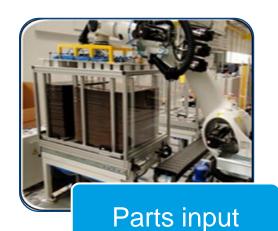
Examples for application parts

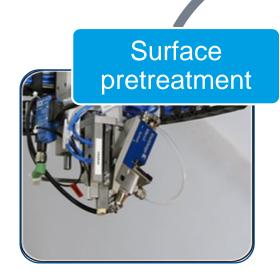


Overview



Parts handling and materials application









Turnkey gluing cell

incl. controls system / HMI / safety equipment / process control / vision system / interfaces (conveyor, plant network, ...)



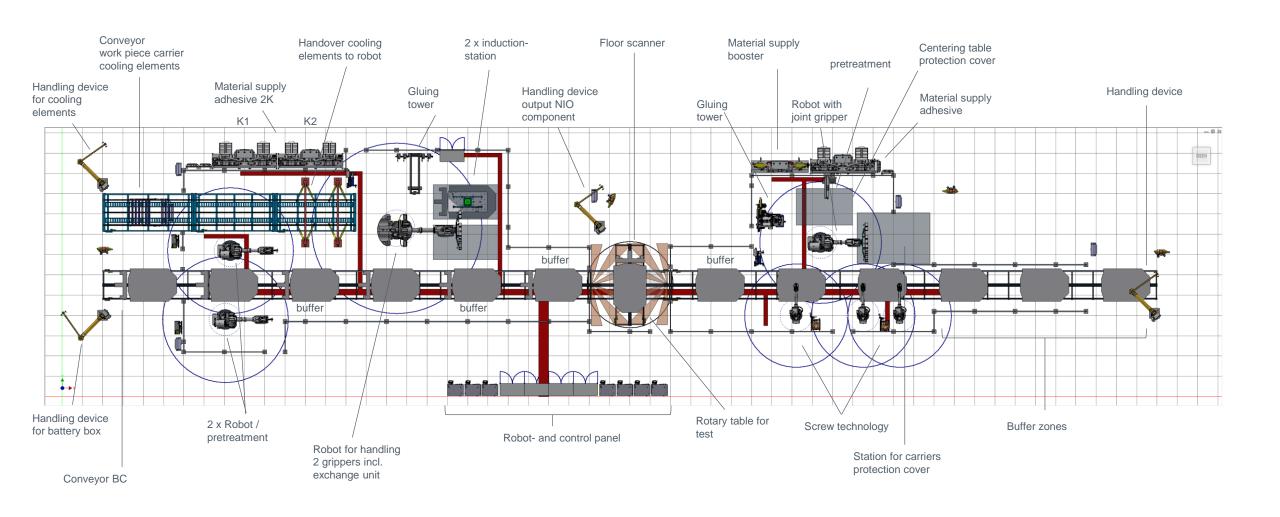


Example Layout for Battery Box or Glasses

Example Layout for Battery Box or Glazing

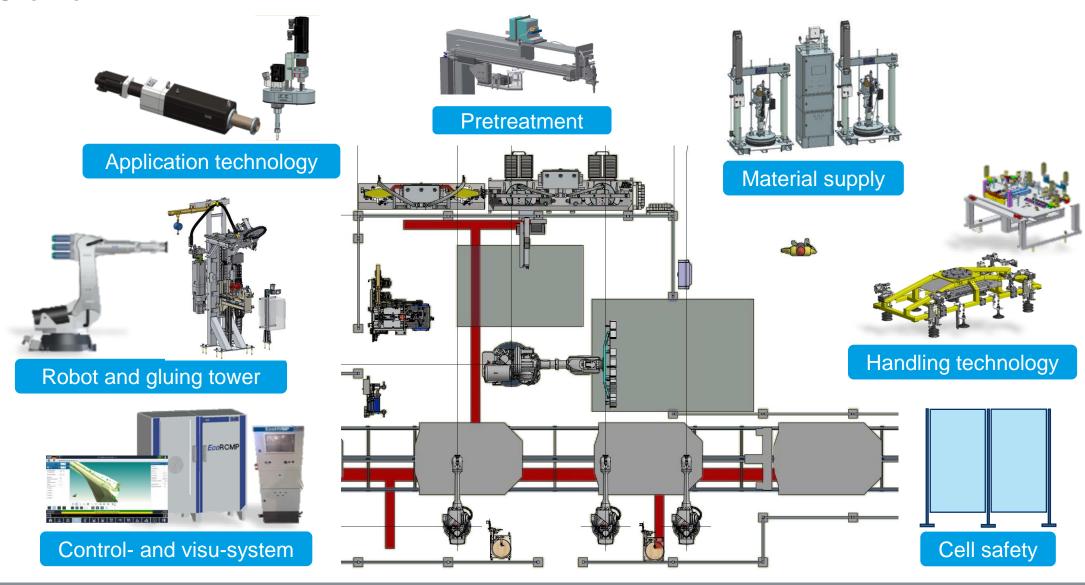


Typical applications of an automated assembly line





Overview







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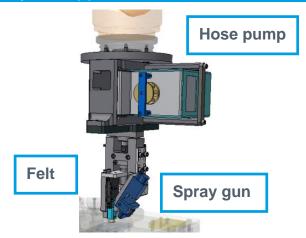
Pretreatment

Felt-application

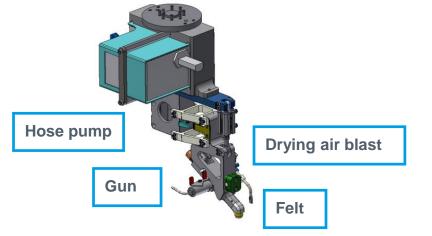
Spray-application Spray gun Optical sensor

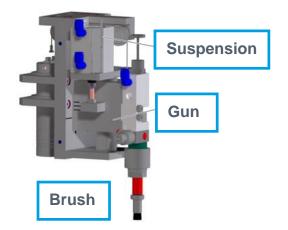


Spray-felt-application

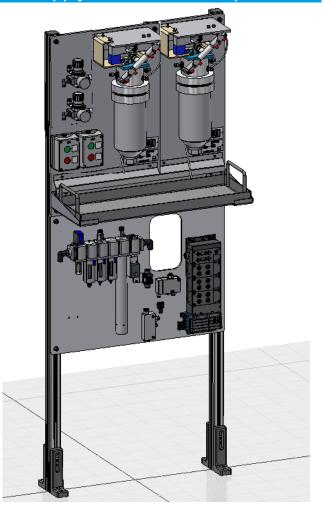


Brush-application





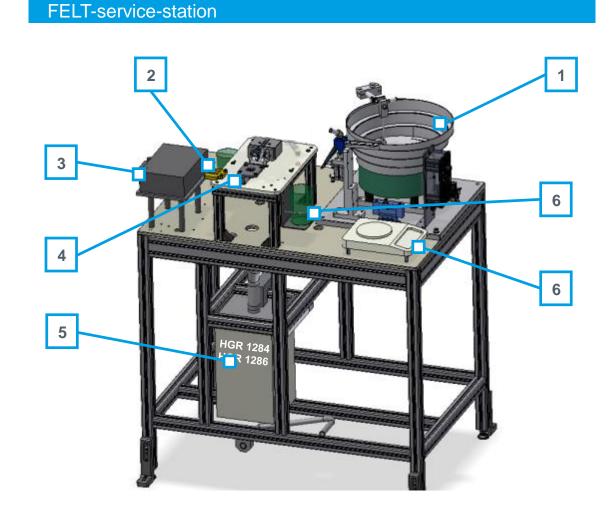
Material supply cleaner/activator/primer





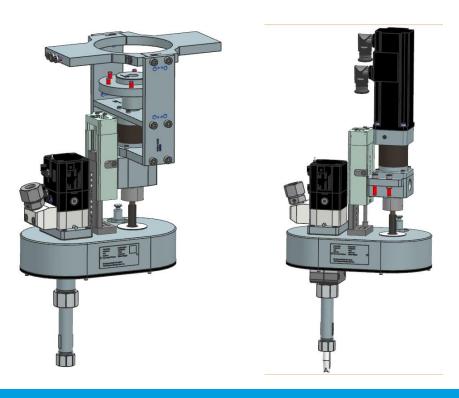
Pretreatment

- 1. Feeding device incl. light sensor felt
- 2. Light sensor felt in application head (presence yes/no)
- 3. Humidity sensor
- 4. Clamping device for used felts
- 5. Box for used felts
- 6. Scale for quality control
- 7. Cup holder for flushing and quality control (flow amount)



Glue applicators



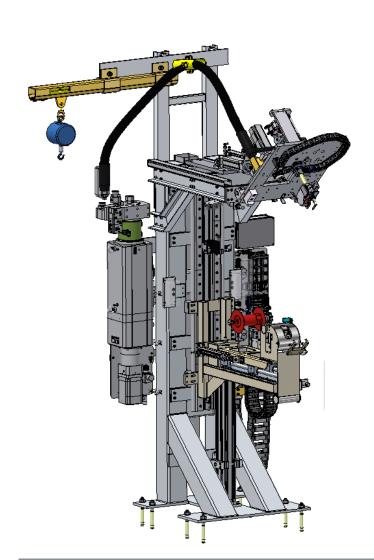


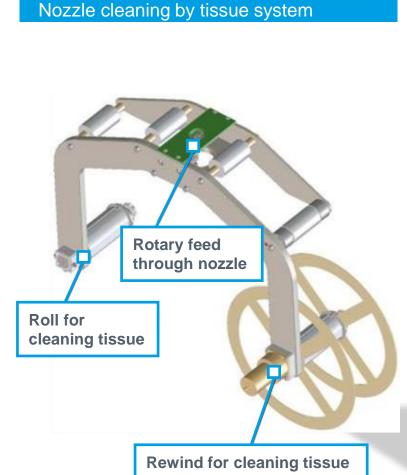
Technical data	unit	Eco Gun2 PVA 08
Pneumatic supply pressure min	bar	4,5
Pneumatic operation pressure	bar	5
Operation material pressure	bar	360
Max. temperature range	°C	80
Compensation Z-axis	mm	+- 20
Gear ratio		1:3 / 10:1
Width	mm	290
Depth	mm	170
Height	mm	585
Weight	kg	~18

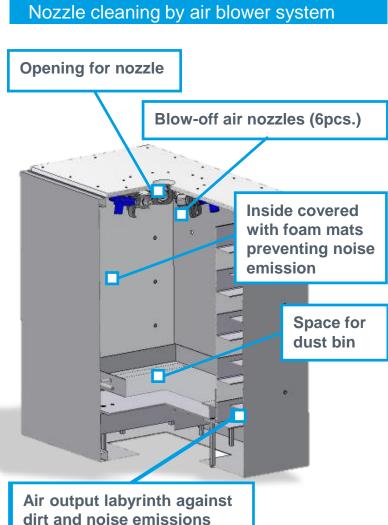
EcoGun applicators on robot or tower

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Gluing tower incl. nozzle cleaning systems

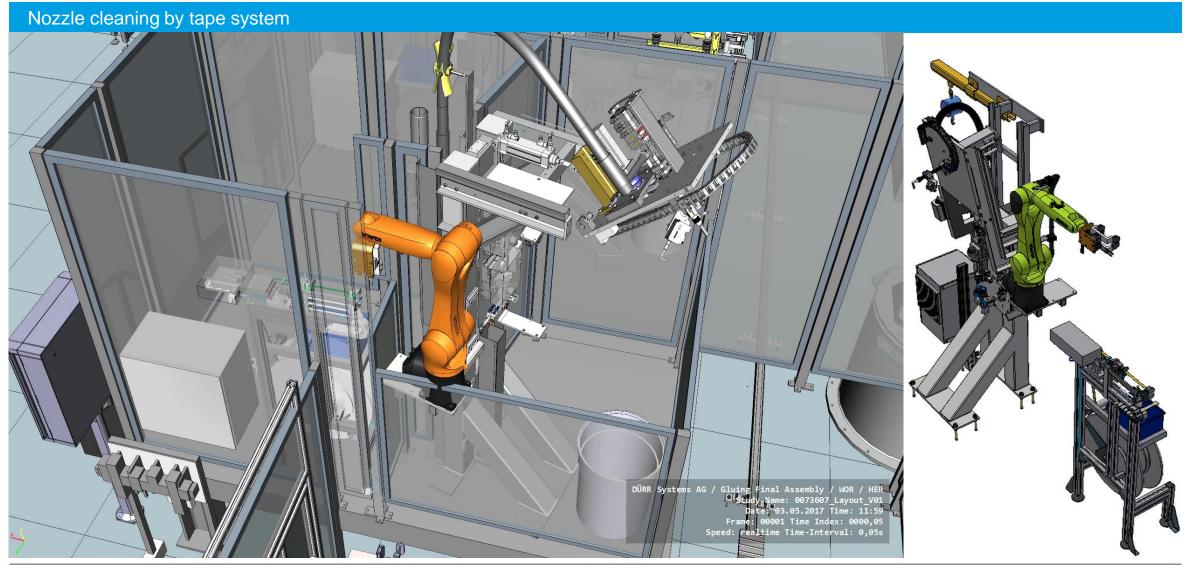








Gluing tower incl. nozzle cleaning systems

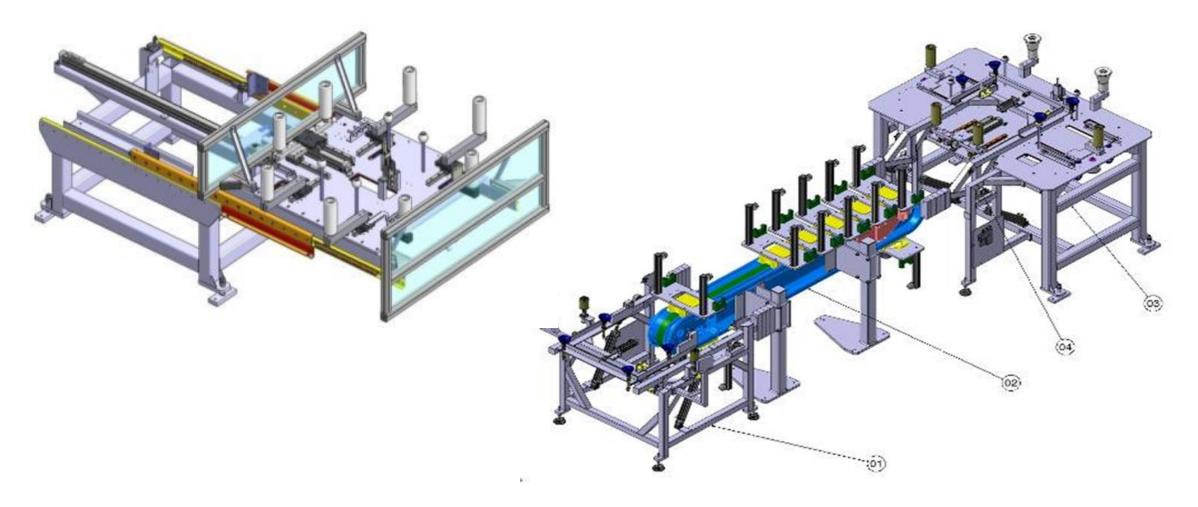




Examples for parts handling, centering, gripping

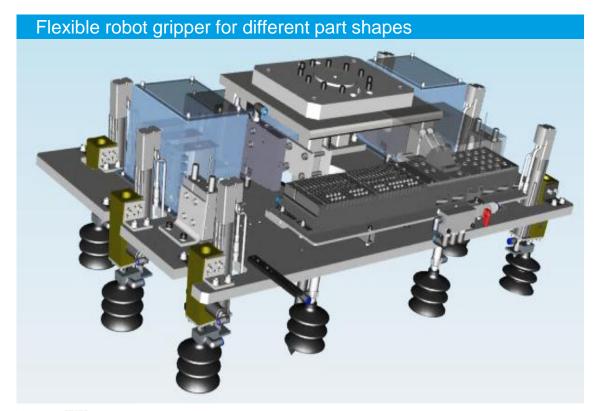
Centering station with drawer / shuttle

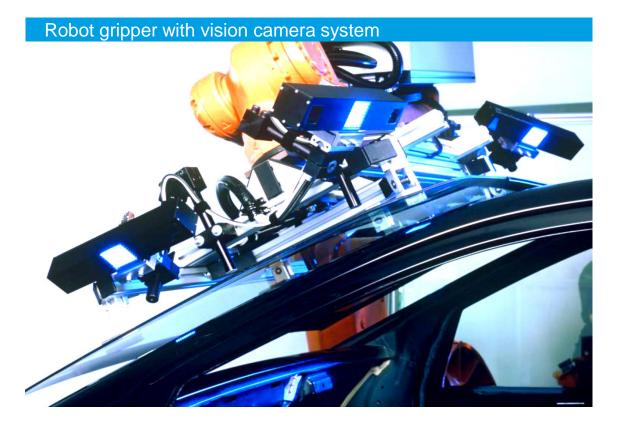
Conveyor incl. centering station



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Examples for parts handling, centering, gripping







Vacuum suction cups with automated controlled positions





References

References



CAF Chongqing panoramic glass roof assembly



References



BMW Human Robot Collaboration assembly of PHEV-tank and GPS antenna





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Dürr Systems AG

Automation solutions for glazing and battery cover gluing

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