



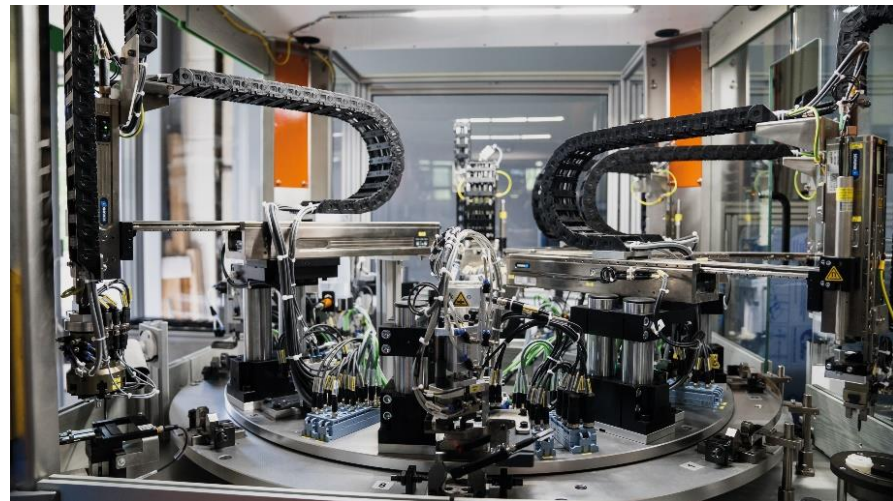
MKW GmbH Digital Automation



www.mkw.gmbh



Machines AND software solution for full transparency





Key facts

Special machinery since 1972

High-end provider in the engineering and automation solutions industry

About 80 employees

At home in all sectors: Food, automotive, medical, consumer goods, wood etc.

Delivering worldwide

Project sizes up to EUR 6 million





Software solution MK|Ware

MK|Ware enables efficient control of production in real time and a complete overview of your entire value chain

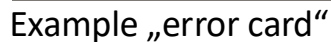
All information on <https://www.mkware.de/>

Manufacturer-independent networking of the entire shop floor

Only use the applications that are relevant for your company thanks to the modular structure

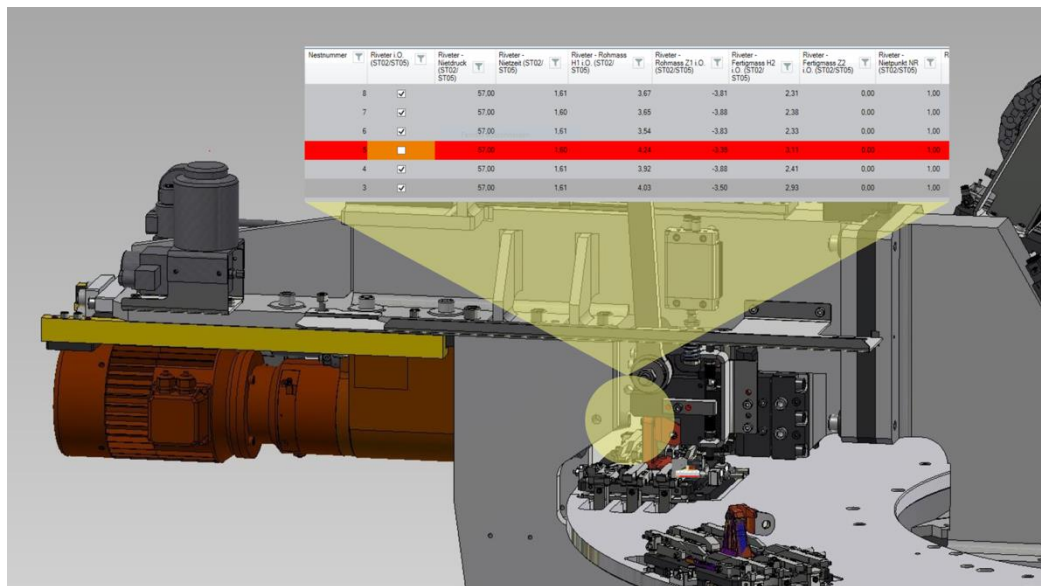


MK|Ware





Transparent production



Example „process data management“



sanitary sector



Fully automated Assembly line for push plates
Cycle time 4 sec / part

Example part
(pic-source: ebay)



Fully automated Assembly line for inlet valves
Cycle time 5 sec / part

Example part
(pic-source: ebay)



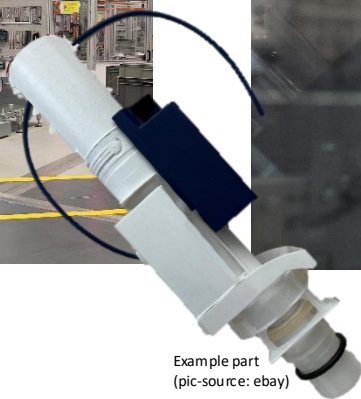
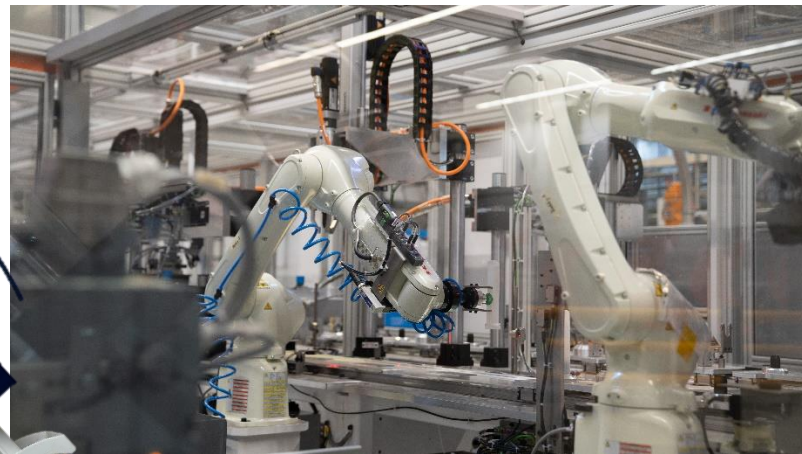
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sanitary sector



Fully automated Assembly line for drain valves
Cycle time 5 sec / part



Example part
(pic-source: ebay)

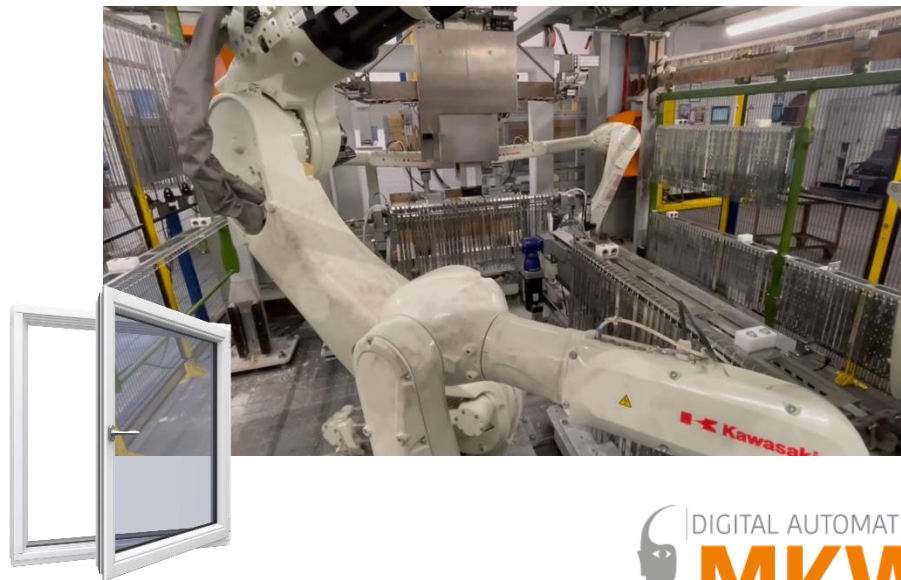
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Galvanic sector



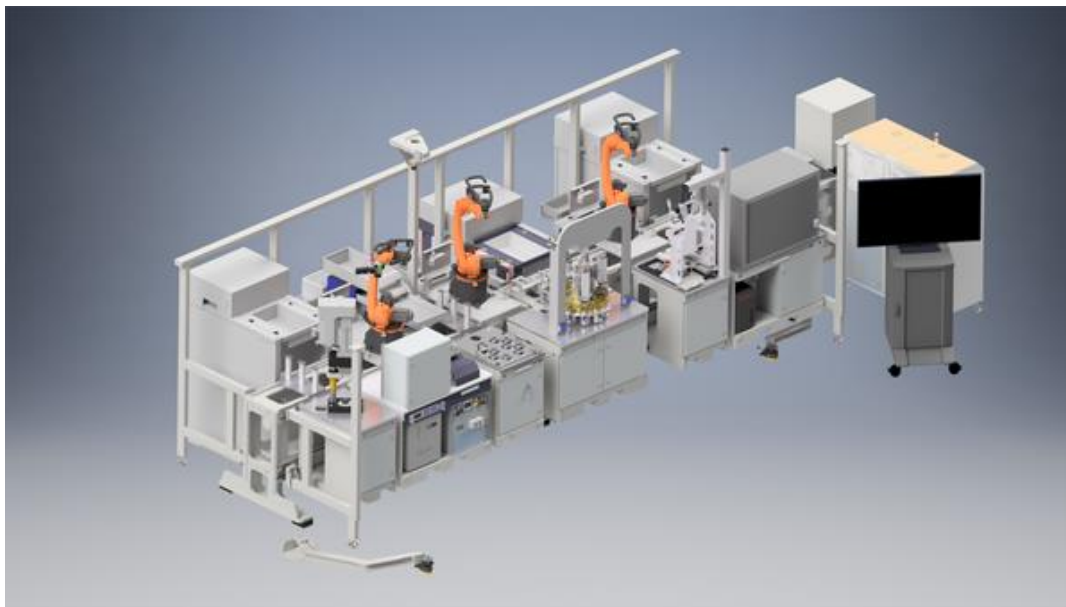
Fully automated hanging and packaging of galvanization
Cycle time 0,8 sec / part



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High flexible lines



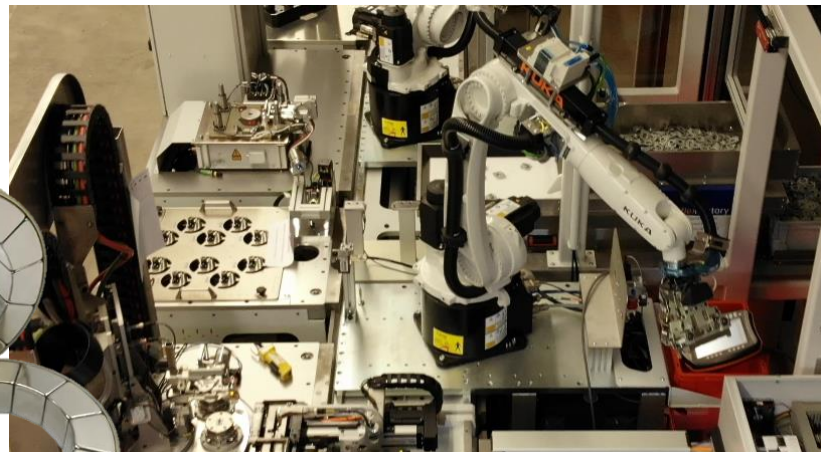
Example of motor assembly line:

- Feeding systems from the back
- Process-modules in the front
- Backbone with transport system in between

Modules can be easily removed or exchanged with other modules for different variants. Removed modules can be maintained or used as an independent machine.



Motor production



Example for flexible rotor-equipping with magnets
Cycle time 1,2 sec / magnet



Example part
(pic-source alibaba)

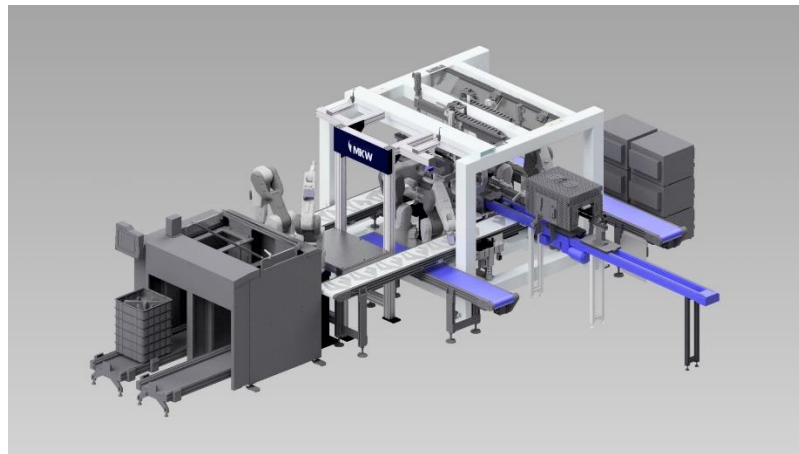
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Shoe production



Fully automated production of shoes
Cycle time 8 sec / part

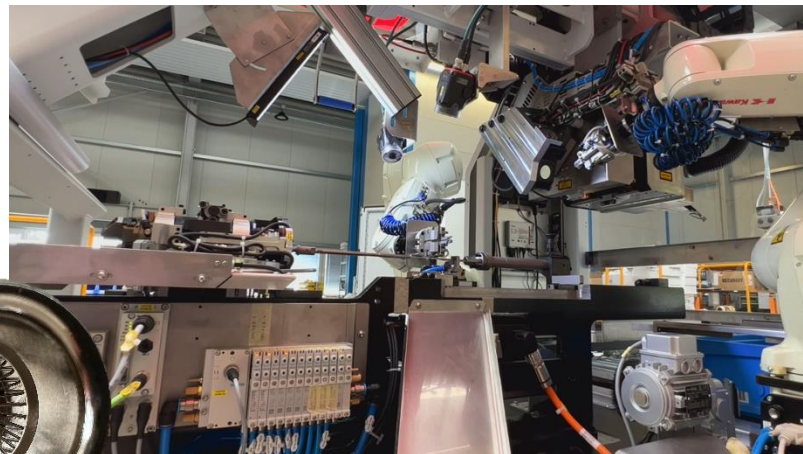




Cable connectors



Fully automated production of EMV-cable connectors
Cycle time 5-8 sec / part including spring bending,
welding and assembly of many sizes

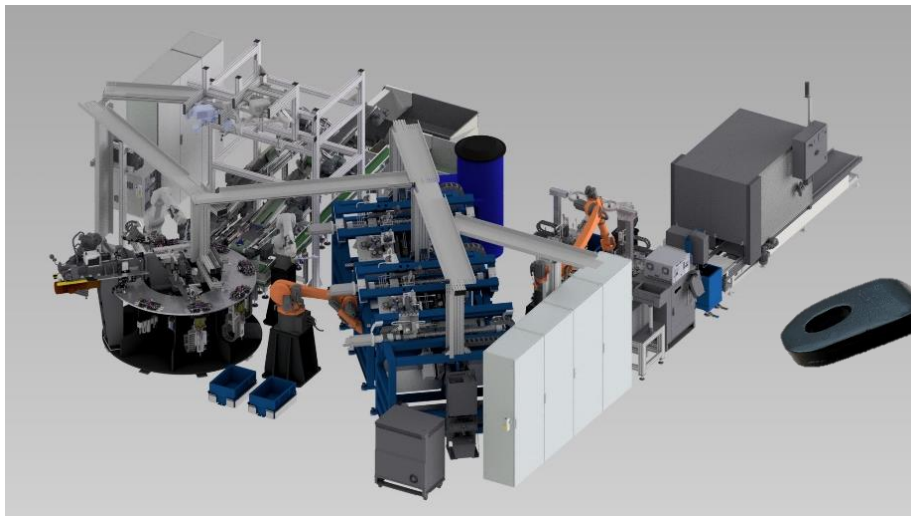


Example part
(pic-source: alibaba)

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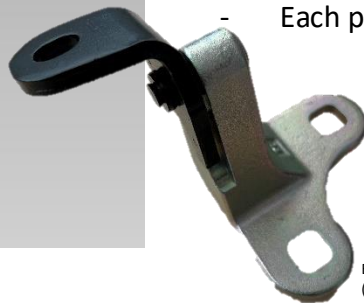


automotive



Example of sidedoor hinge assembly line:

- Assembly with riveting on a round table
- Machining of base in drilling stations
- Push in of masterpins
- EOLT
- Tolerances of 0.01mm made possible by laser measuring and controlling
- Each part is machined unique



Example part
(pic-source: ebay)



automotive

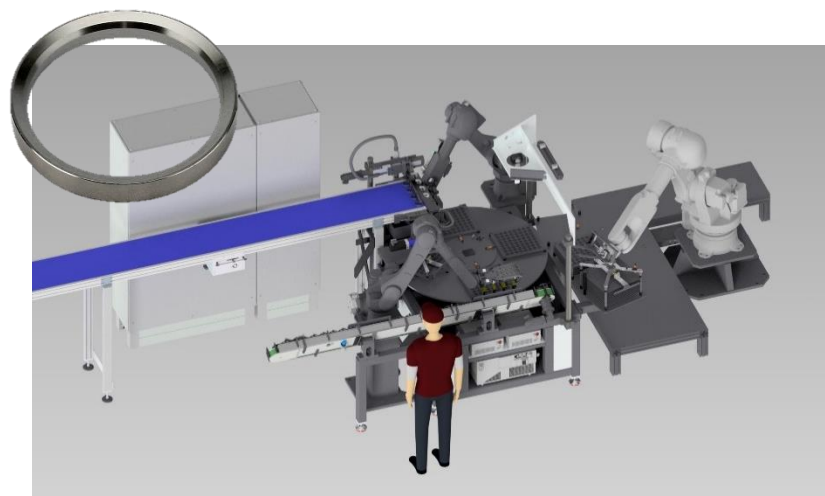


Fully automated packaging of tyres
in reuseable packaging
Cycle time 12 sec / tyre



Example part
(pic-source: X-pack)

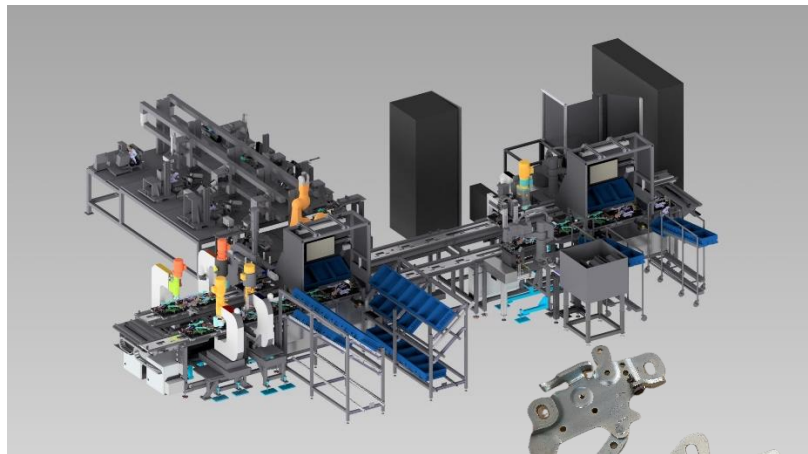
www.mkw.gmbh



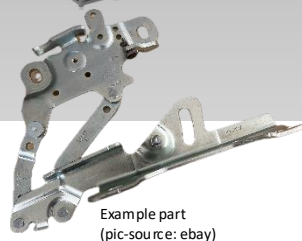
Fully automated in line paletizing of sintered valve seat rings
Cycle time 0.8 sec / part



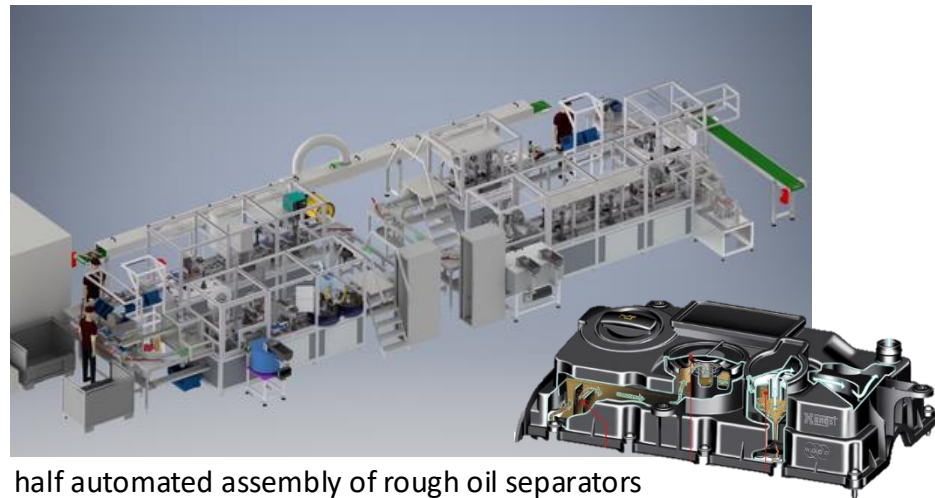
automotive



half automated assembly of hinges
Cycle time 12 sec / part



Example part
(pic-source: ebay)

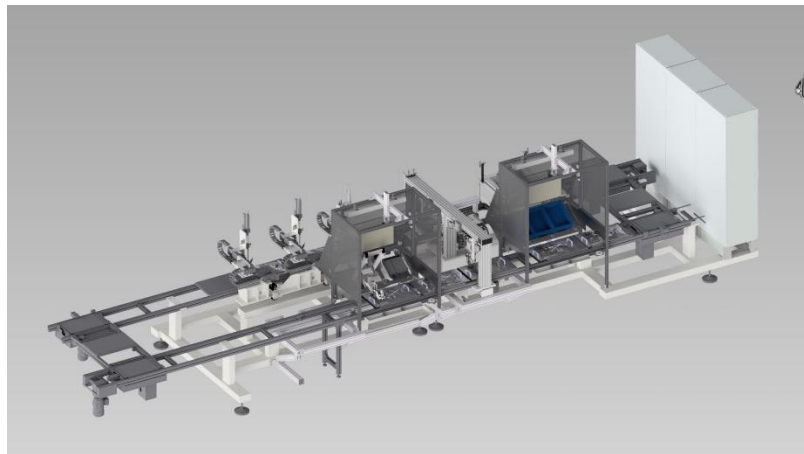


half automated assembly of rough oil separators
Cycle time 12 sec / part

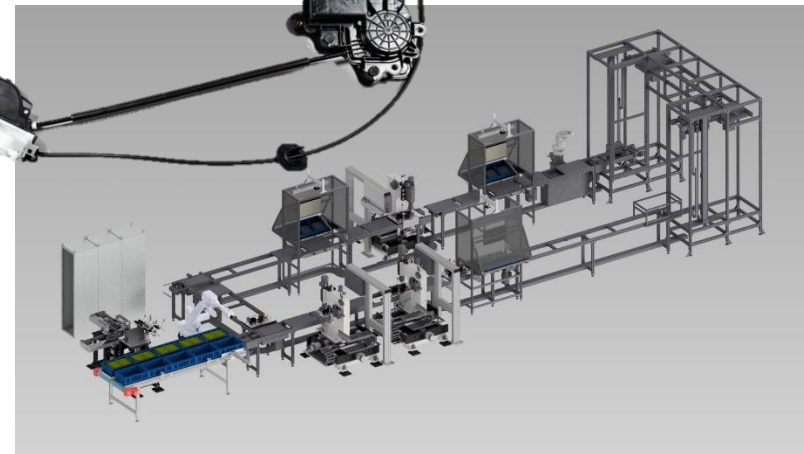
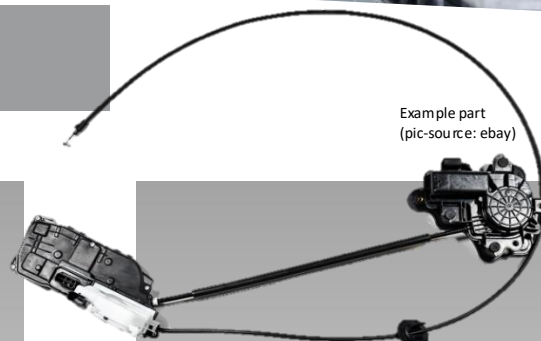




automotive



Half automated assembly of actuators for frunc latches
Cycle time 30 sec / part

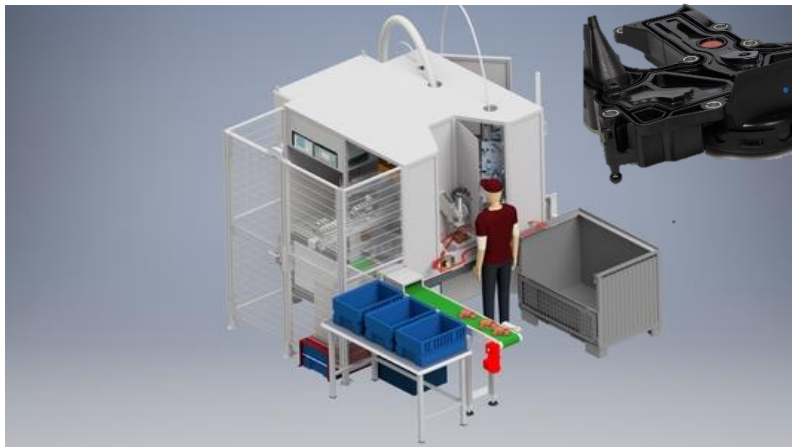


Half automated assembly of frunc latches
Cycle time 30 sec / part

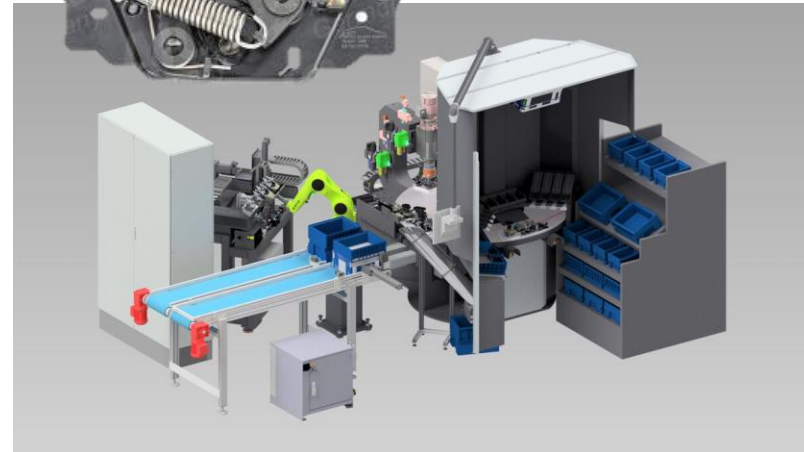


automotive

Example parts
(pic-source: ebay)



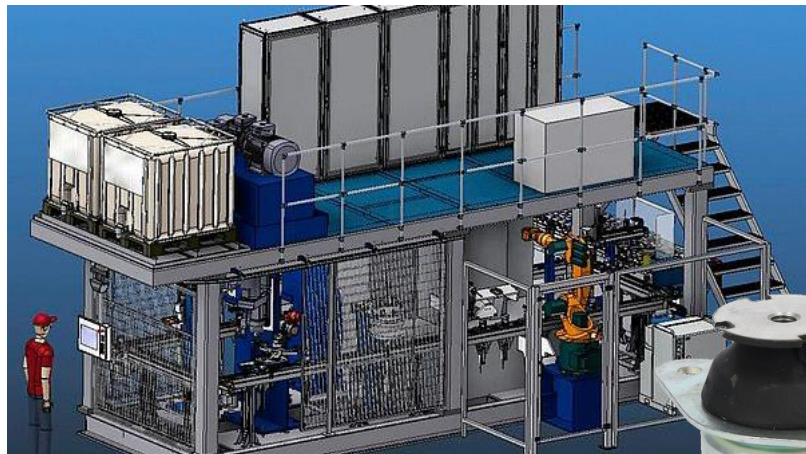
Half automated assembly of fine oil separators
Cycle time 10 sec / part



Half automated assembly of double stroke locks
Cycle time 40 sec / part

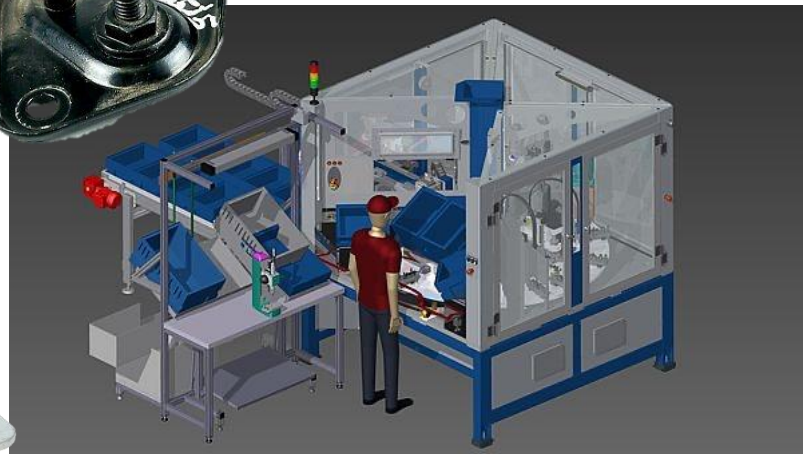
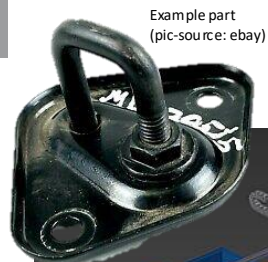


automotive



Fully automated assembly of hydrogen bearings
Cycle time 7 sec / part

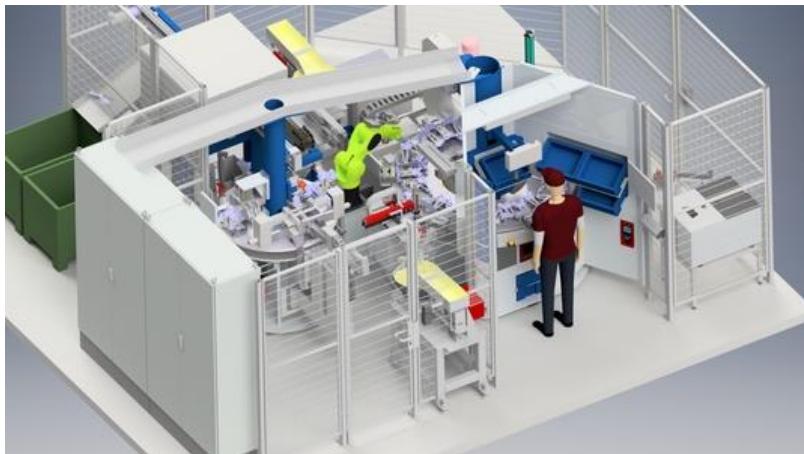
Example part
(pic-source: ebay)



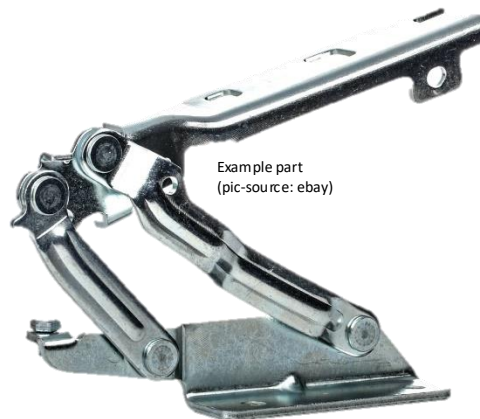
half automated assembly of hood hooks
Cycle time 6 sec / part



automotive



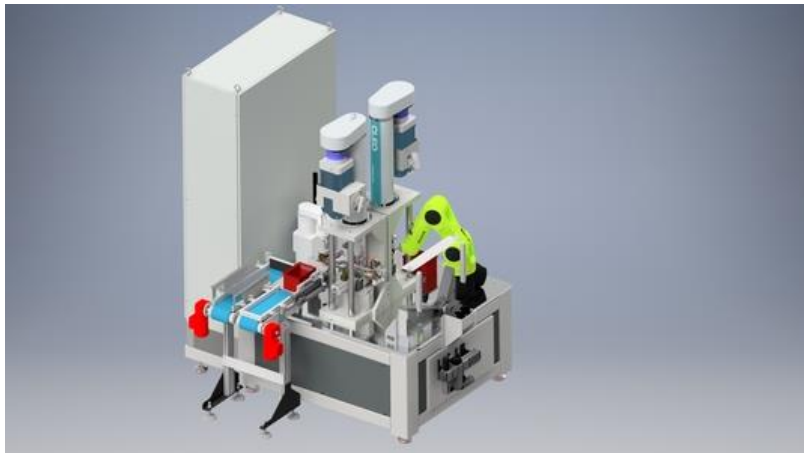
Half automated assembly of hinges
Cycle time 12sec/part



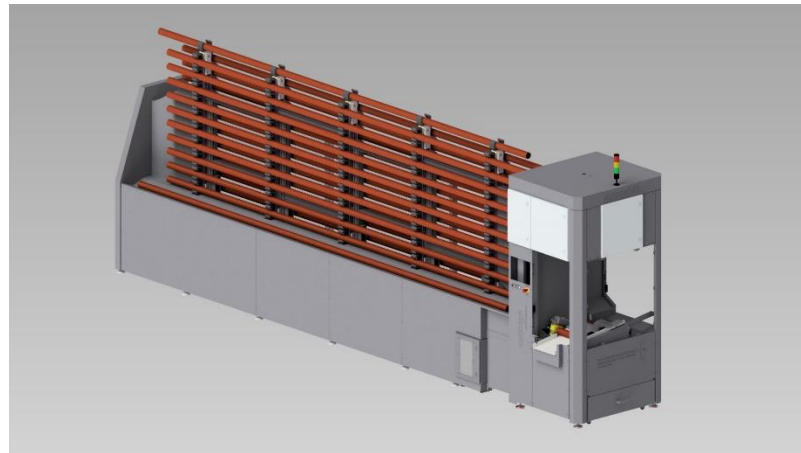
Example part
(pic-source: ebay)



machining



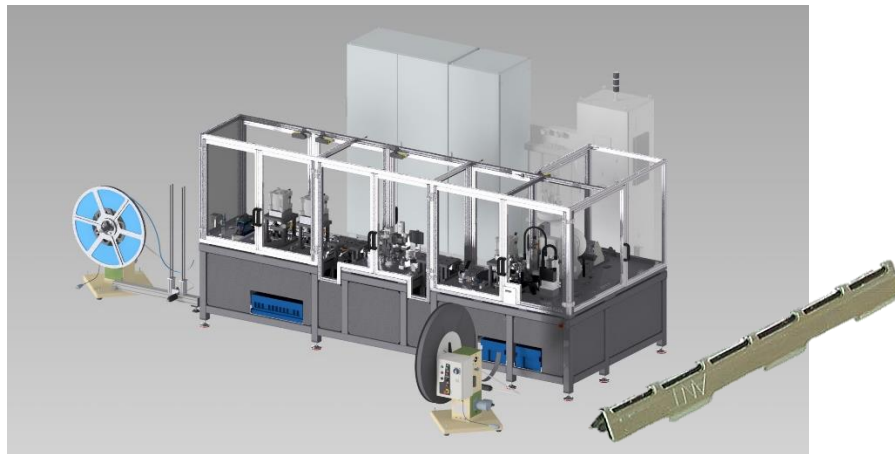
Fully automated notching and clearing of shafts
With tolerances of 0.007mm
Cycle time 2 sec / part



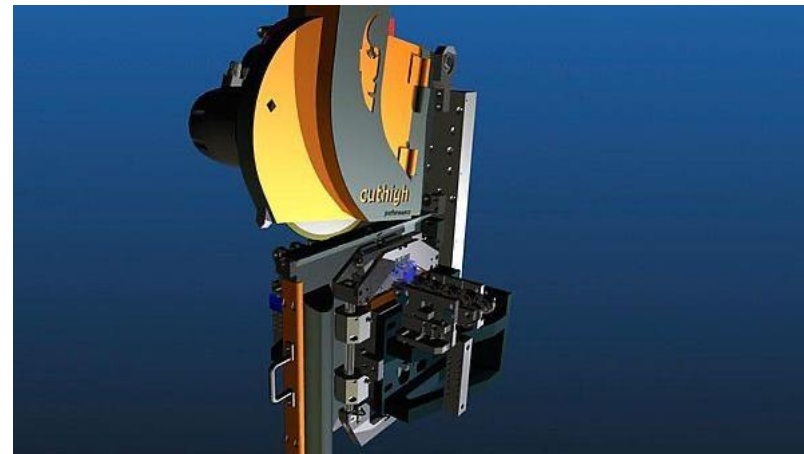
Fully automated sawing and deburring of pipes



machining



Fully automated production and packaging of
glass fiber connectors
Includes processes of stenching and glueing
Cycle time 1 sec / part



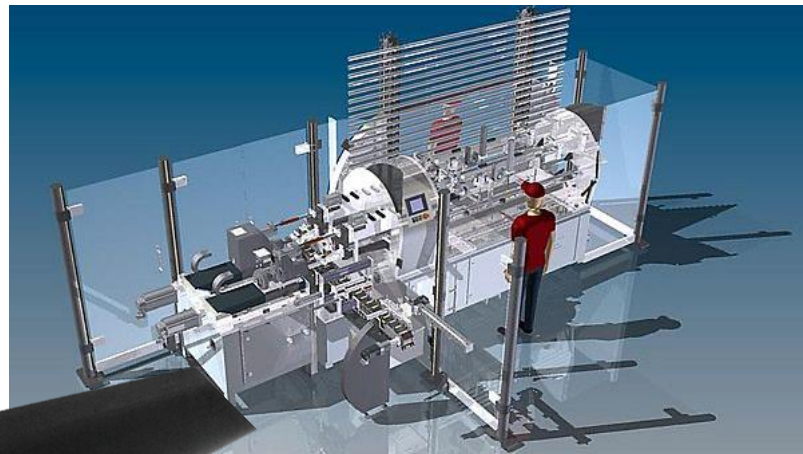
Multiple variants of saws, especially flying saws



machining



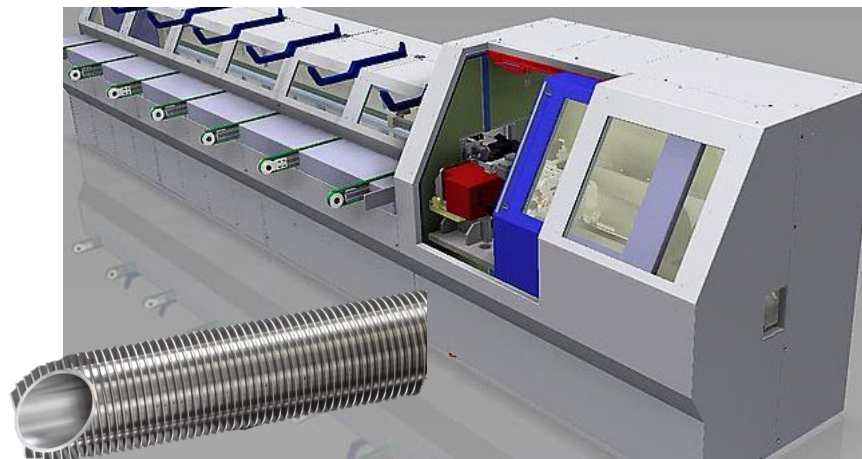
Lock core clearing machine



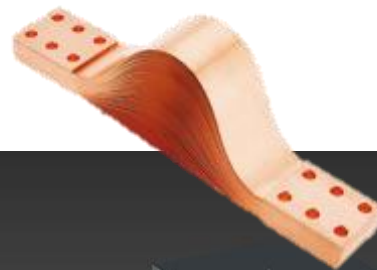
Chipless plastic-tube cutting



machining



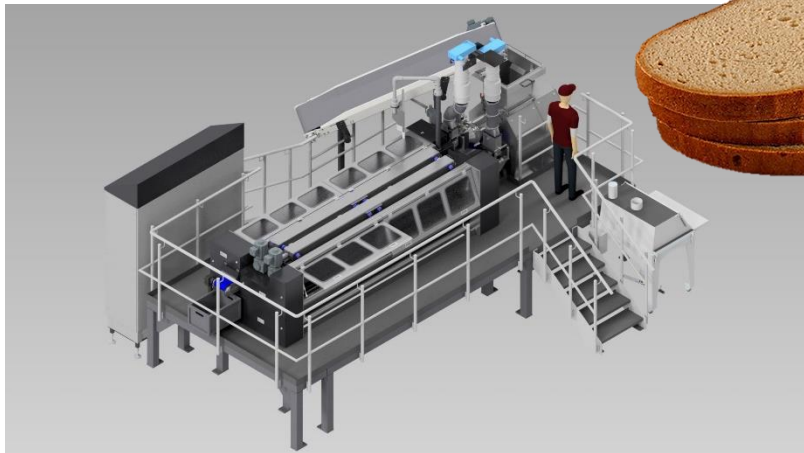
Cold formed ripped tubes for heat exchangers and (nuclear) power plants



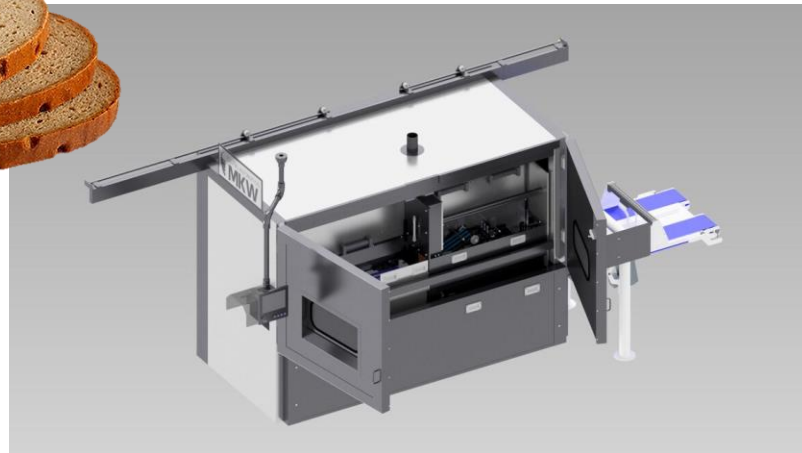
Copper-foil handling and palletizing



food sector



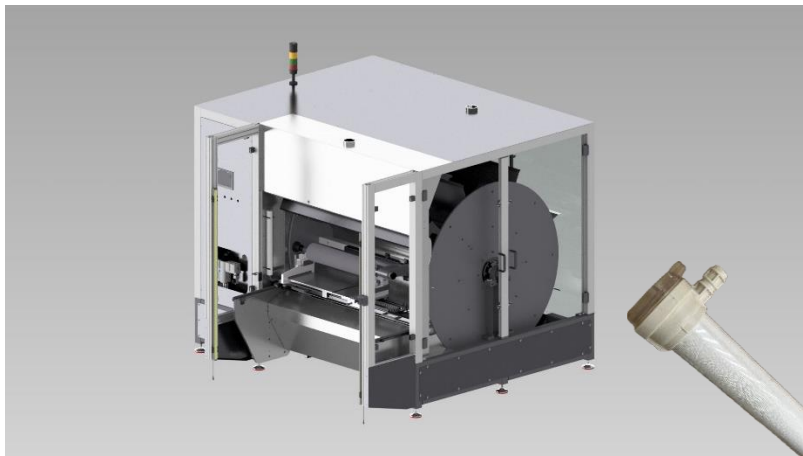
Vertical Breadstring forming machine
With seeding equipment



Bread cutting machine
Up to 650 slices / min

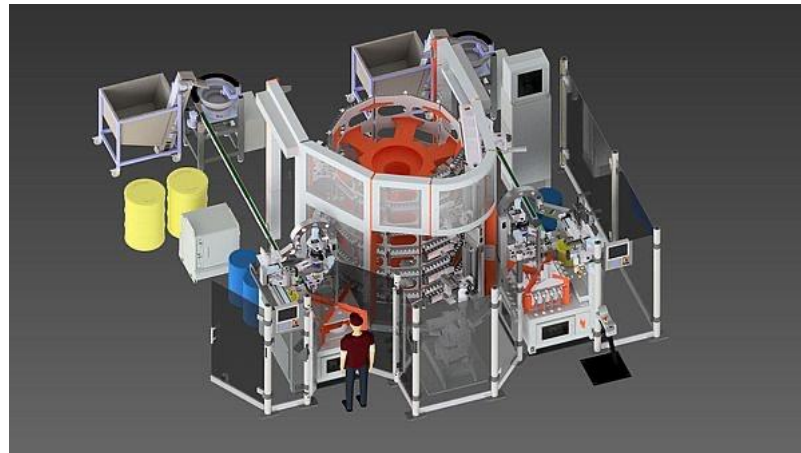


Medical sector



Dryer for filter

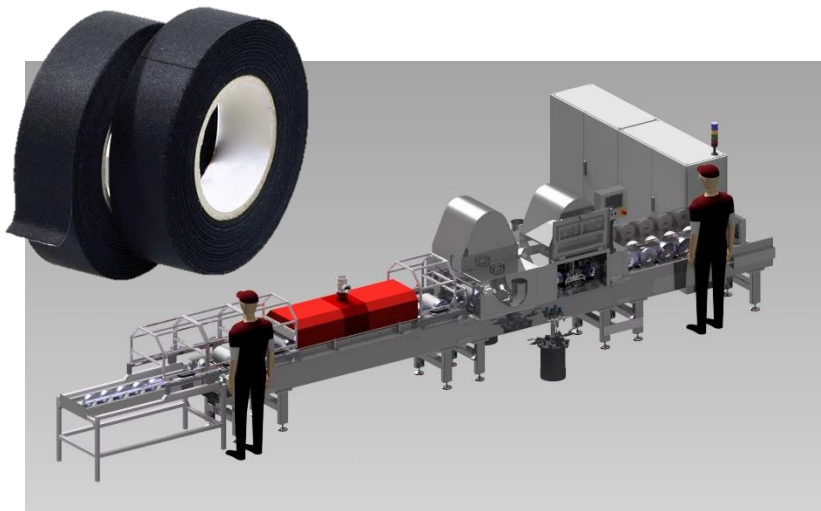
Example part
(pic-source: wikipedia)



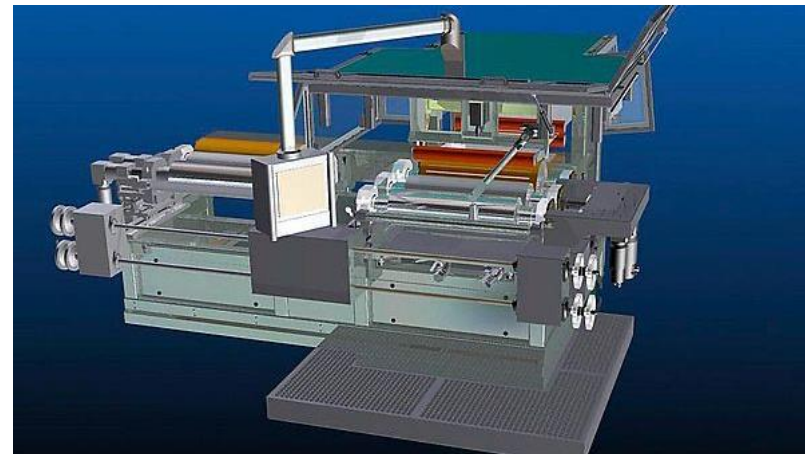
Fully automated production of blood dialyzers
Cycle time 3 sec / part



coating



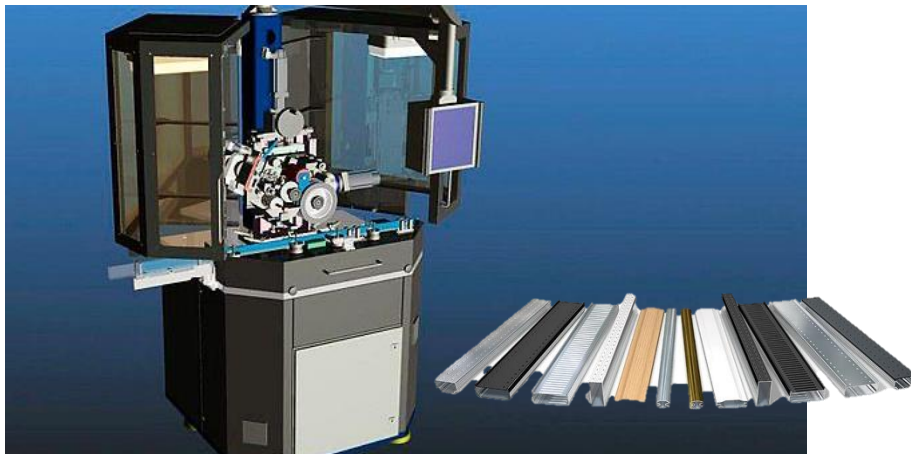
Coating of tapes for automotive and consumers



Coil coating



Coating and heating



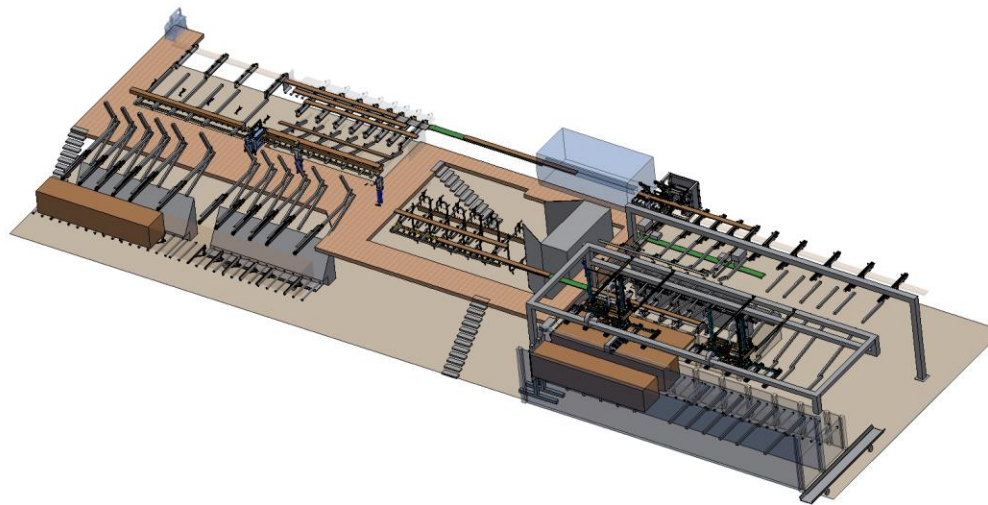
Coating of window distances



Heating of pipes



wood industry



Sorting, handling, stacking and packing of wood





various



Glass production line -> assembly of frames



Fully automated in-line covering of barrels
Incl. splinting