

Production systems Assemblies Engineering services



About HK-CON

Production of multi-spindle turning centers including automation technology.

HK-CON is managed by the owners.

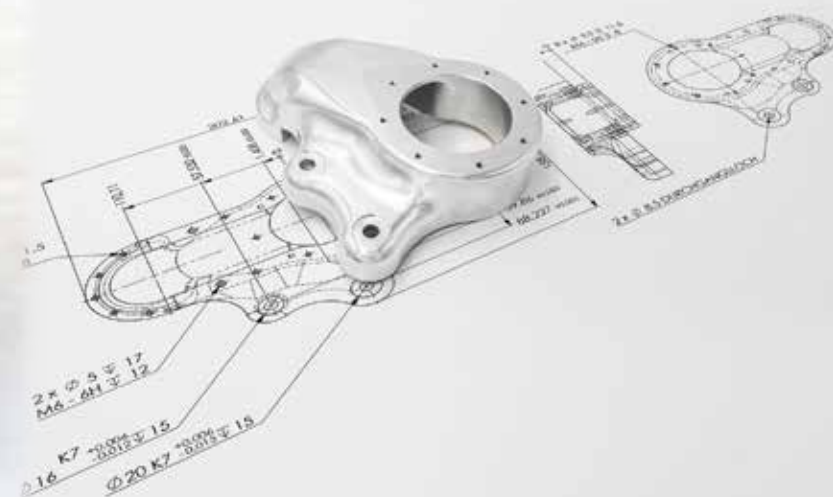
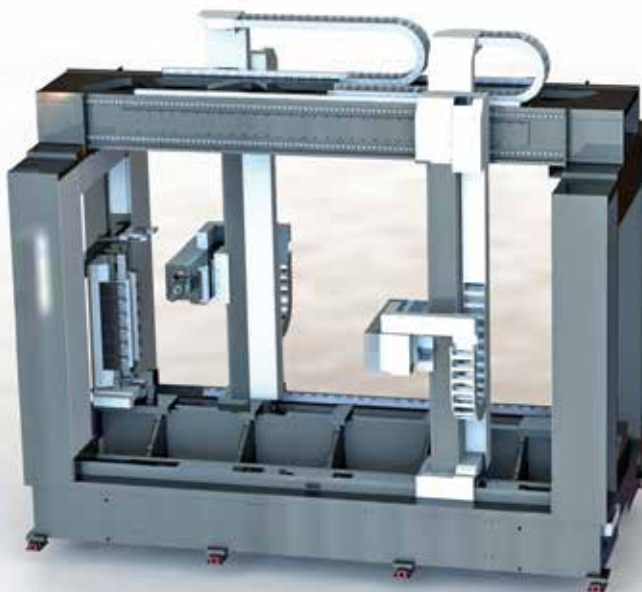
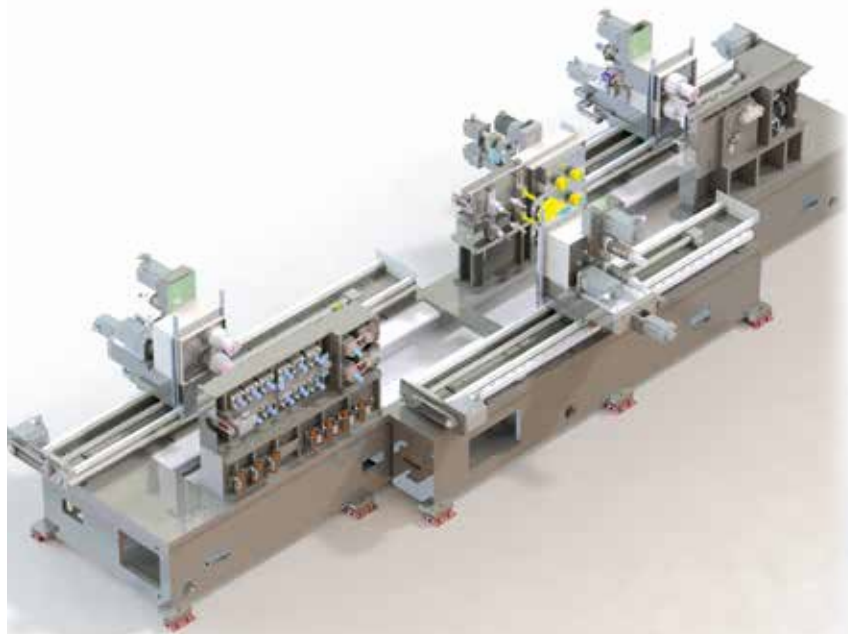
HK abbreviation of the owner
Hildebrandt and **K**raft

CON for **con**struction

Foundation: 2002

Employees: 58





HK-CON core competencies

**Design of mechanical parts,
assemblies and systems,
production planning,
CAD, CAM**





HK-CON core competencies

Production of automation systems, conveyor systems and handling systems (industrial robots, grippers, linear and rotary axes)





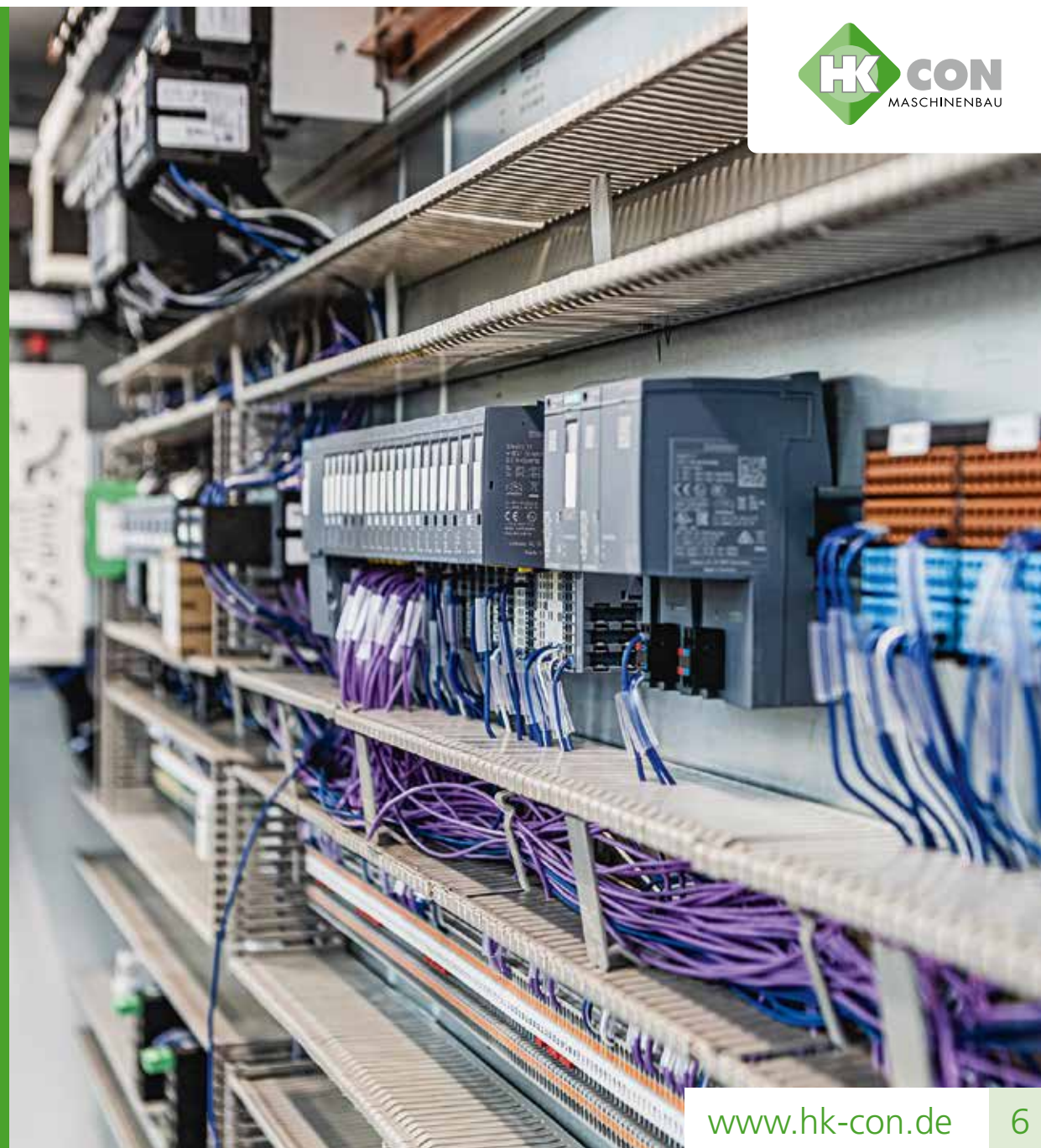
HK-CON core competencies

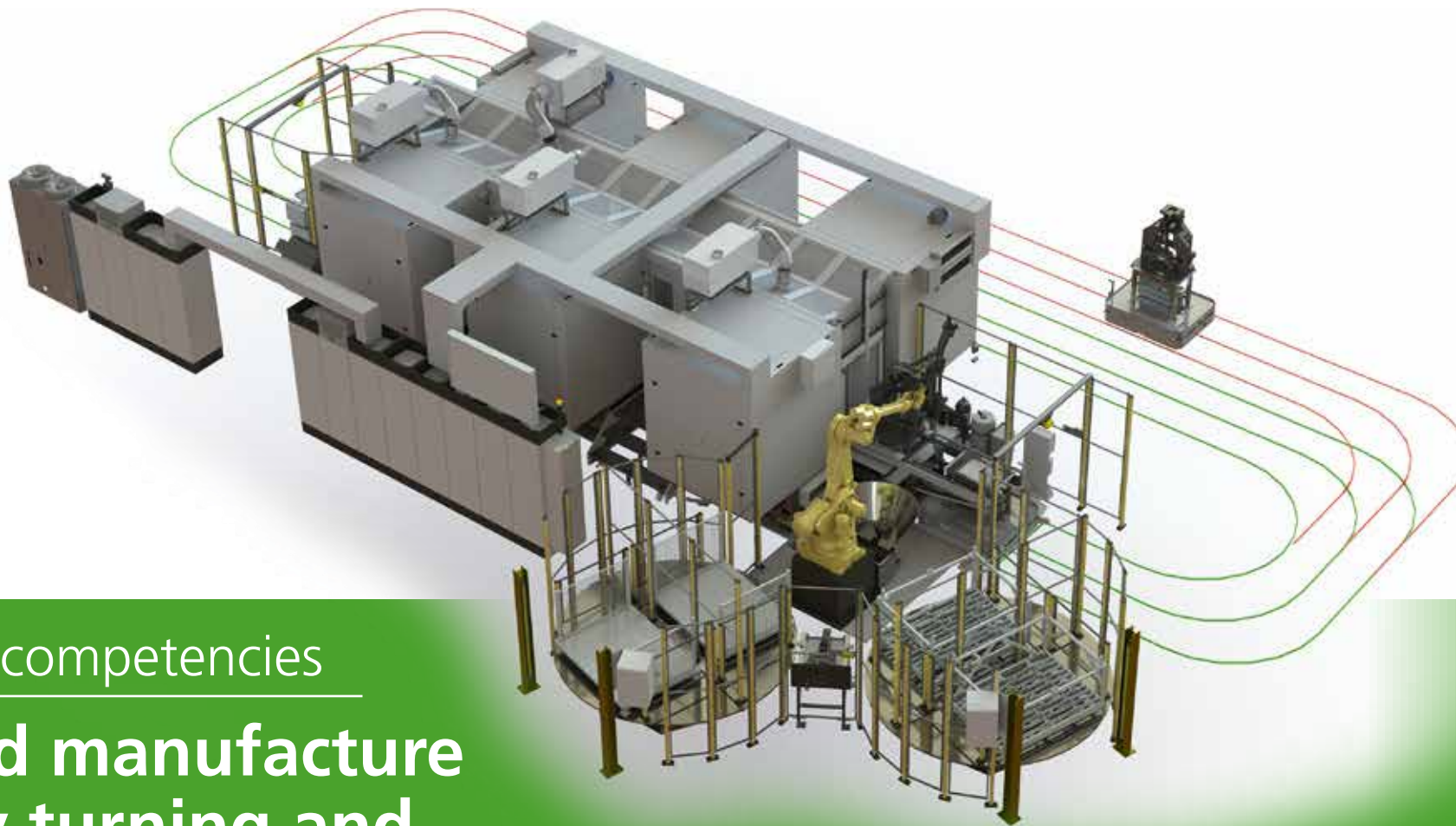
**Application programming
(controls, robot systems,
test and measurement
systems, MMI)**



HK-CON core competencies

Design, planning and manufacture of electrical control, regulation and power circuits, manufacture of control cabinets





HK-CON core competencies

Design and manufacture of turnkey turning and machining centres



HK-CON core competencies

**Parts production and
unit/assembly mounting**



HK-CON core competencies

**Service on production,
process and automation
systems, retrofit**





HK-CON core competencies

**Trainings,
production support,
quality inspections**



HK-CON: high cycle times



110,0 sec.

Axle bearing block



12,6 sec.

Aluminium piston



57,0 sec.

Drive shaft



5,7 sec.

Balancing bevel gear



22,0 sec.

Fuel pump cover



22,0 sec.

Petrol pump housing



98,0 sec.

Differential gear housing



70,0 sec.

Double wheel



18,7 sec.

Three-arm flange



35,0 sec.

Electronics housing



30,0 sec.

Flange driver



6,0 sec.

Camera body



119,0 sec.

Piston



22,8 sec.

Piston rod



14,8 sec.

Universal joint star



19,0 sec.

Bearing shield



37,0 sec.

Steering box



16,8 sec.

Steering spindle



38,0 sec.

Truck steering tube



45,0 sec.

Motor housing



47,0 sec.

Rotor



22,5 sec.

Drive shaft



37,5 sec.

Door piston



58,0 sec.

Locking sleeve

HK-CON references



Electric mobility
made by ...

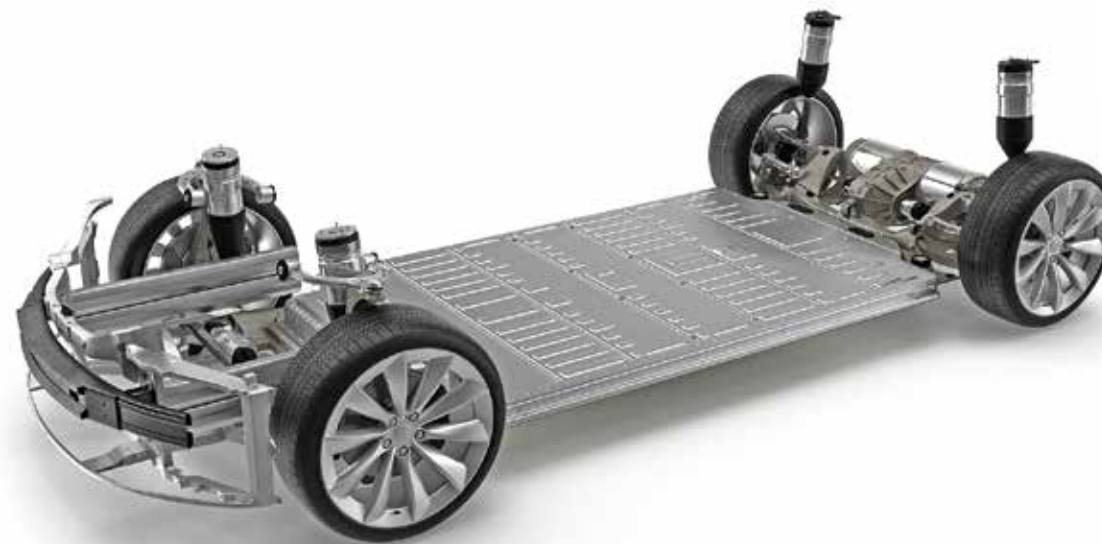
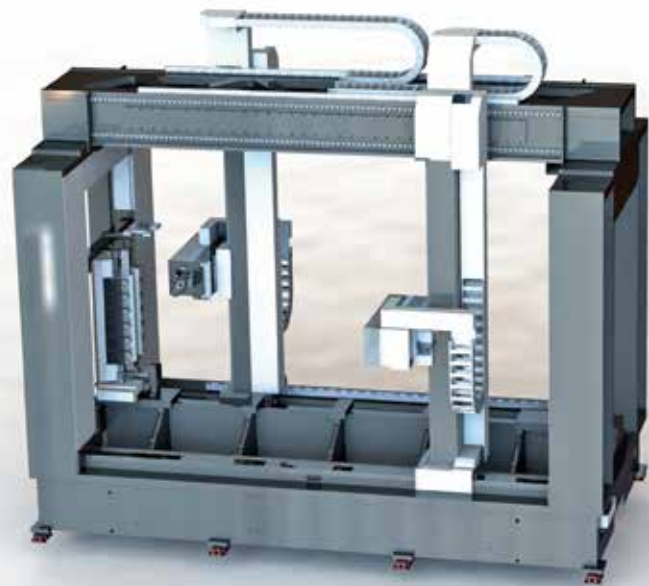
HK-CON



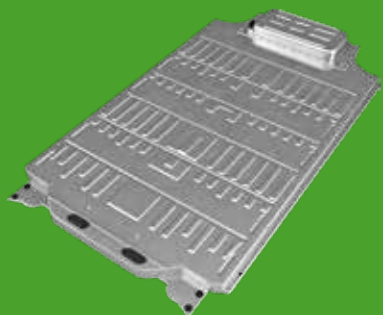
e-mobility

- Machining centre for battery frames
- Machining plant for stator cooling jacket, electric drive motor (e-motor)

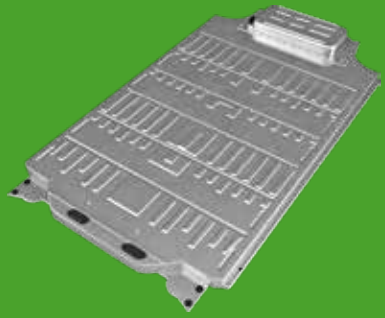




Flexibility and speed:
4 independently working spindles,
2 for the front machining and 2 for back machining



Machining center for battery frames



Machining center for battery frames

Highlights

- Simultaneous machining by four independent milling spindles
- Large workspace 2500 x 1550 x 520 mm
- Maximum flexibility through tool storage
- Shortest machining times due to high axis feed speeds and powerful milling spindles
- Dry, wet machining
- Chip-free finished part due to integrated extraction system
- Displacement sensor on spindles for optimising component tolerances
- High process reliability through laser control of the tools
- Automated loading, unloading via robot
- Accuracy 5 μm





Inside, outside and bearing shield
machining on one machine bed



**Machining plant for stator cooling jacket,
electric drive motor (e-motor)**

Complete machining –
26 operations in three set-ups

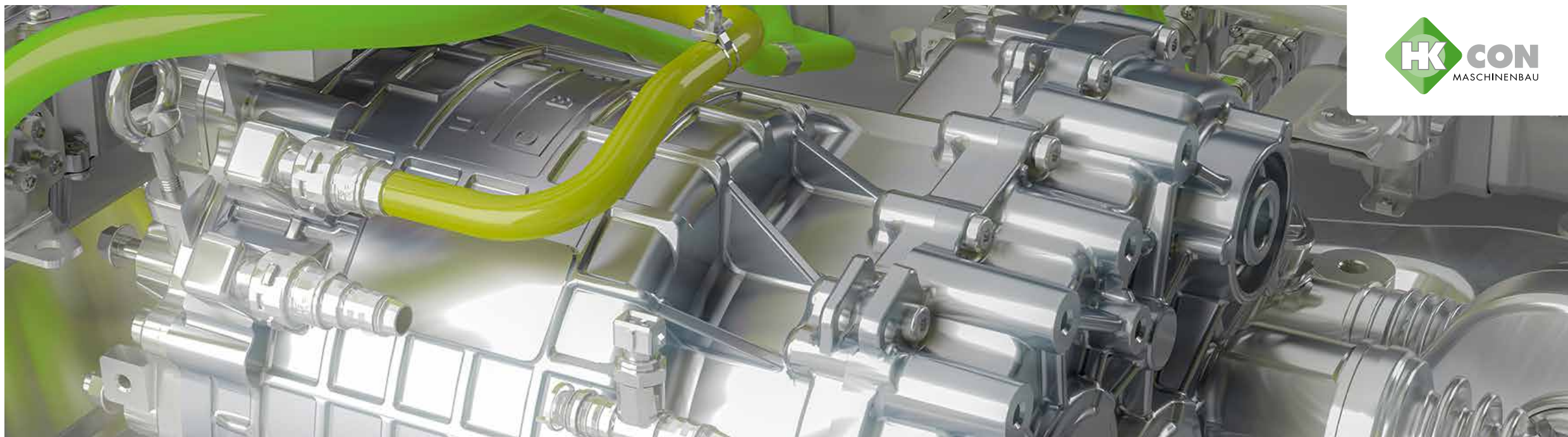


Machining plant for stator cooling jacket, electric drive motor (e-motor)

Highlights

- Automatic feeding incl. alignment
- Centric clamping
- Complete machining in 3 operations
- Direct transfer from spindle to spindle
- 100 % measurement incl. downstream automatic tool correction and incl. laser station
- Simultaneous machining of the inner and outer contour
- Simultaneous machining of 3 stator cooling jackets
- All-round carefree package: turnkey from one source
- Accuracy 5 μm





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