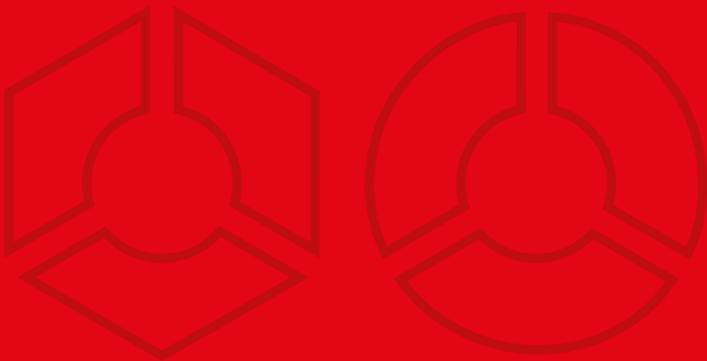


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WORKHOLDING and **AUTOMATION**



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Since 1951 family-
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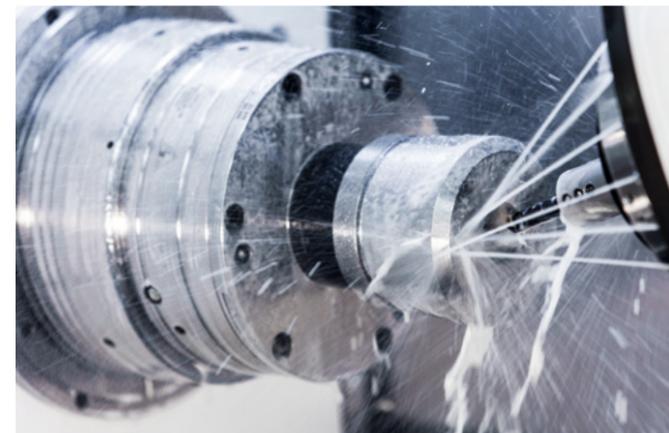


> 150 patents and
many awards



> 850 employees
worldwide

for all machining processes



TURNING



MILLING



GRINDING



GEAR CUTTING



HAINBUCH SYSTEM

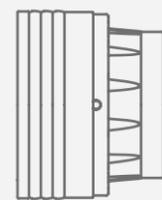
for an amazing flexibility



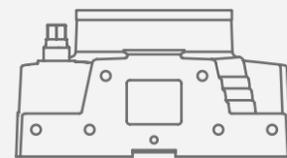
Change-over
< 2 minutes



Clamping devices



Chucks

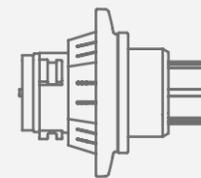


Stationary chucks

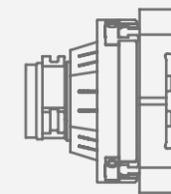
Clamping elements and adaptations



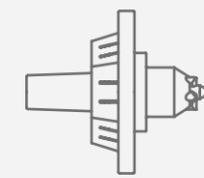
Clamping head
for O.D.
clamping



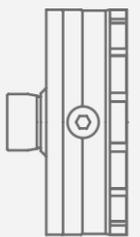
MANDO Adapt
Adaptation for
I.D. clamping



Jaw module
Adaptation for
jaw clamping



Face driver /
Morse taper
Adaptation for
center clamping



Magnet module
Adaptation for
magnetic clamping

MANDRELS

for strong I.D. clamping



- High run-out accuracy
- Extreme clamping forces at every clamping diameter
- Highly user friendly set-up
- Workpiece accessibility from 5 sides



QUICK CHANGE-OVER SYSTEMS

for set-up < 5 min



WITHOUT centrotex
≈ 35 minutes



WITH centrotex
< 5 minutes



Machine adapter
[remains on the
machine]



Clamping device adapter
with chuck



Clamping device adapter
with mandrel



Clamping device adapter
with jaw chuck

- Standardized quick change-over interfaces
- Repeatability $\leq 3 \mu\text{m}$ – without alignment
- Changing parts can be pre-setup outside the machine

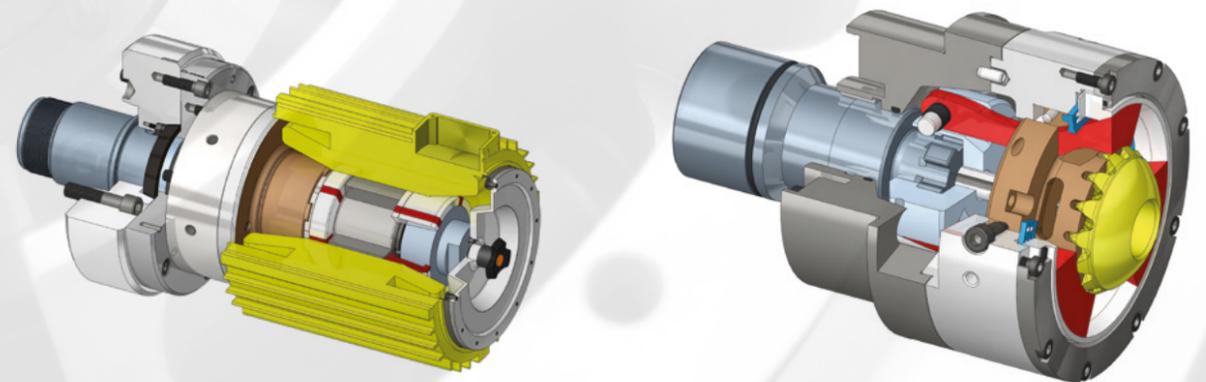


CUSTOMIZED SOLUTIONS

for every workholding challenge

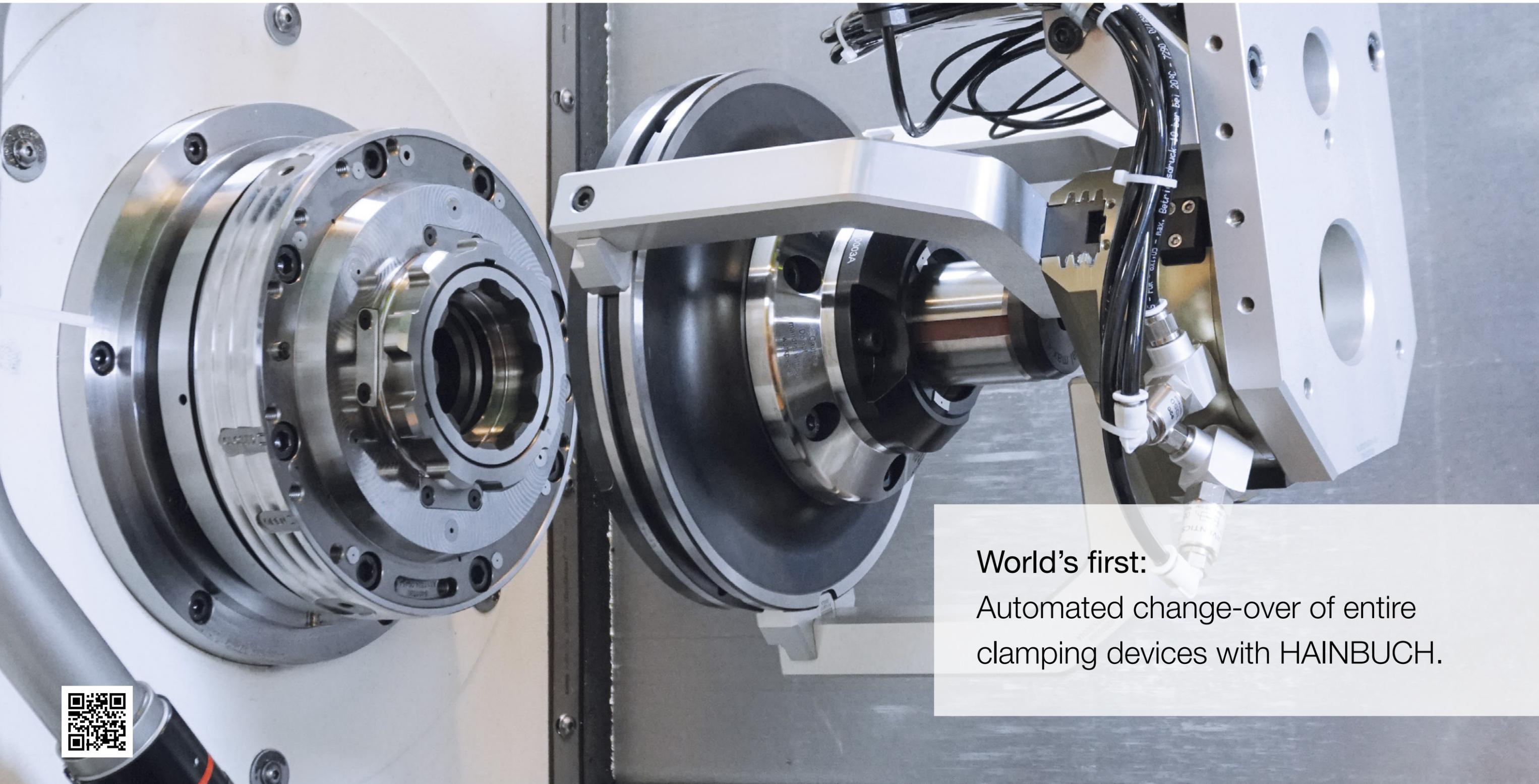


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- > 55 design engineers and our R&D team develop special solutions tailored to the most particular requirements
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AUTOMATION

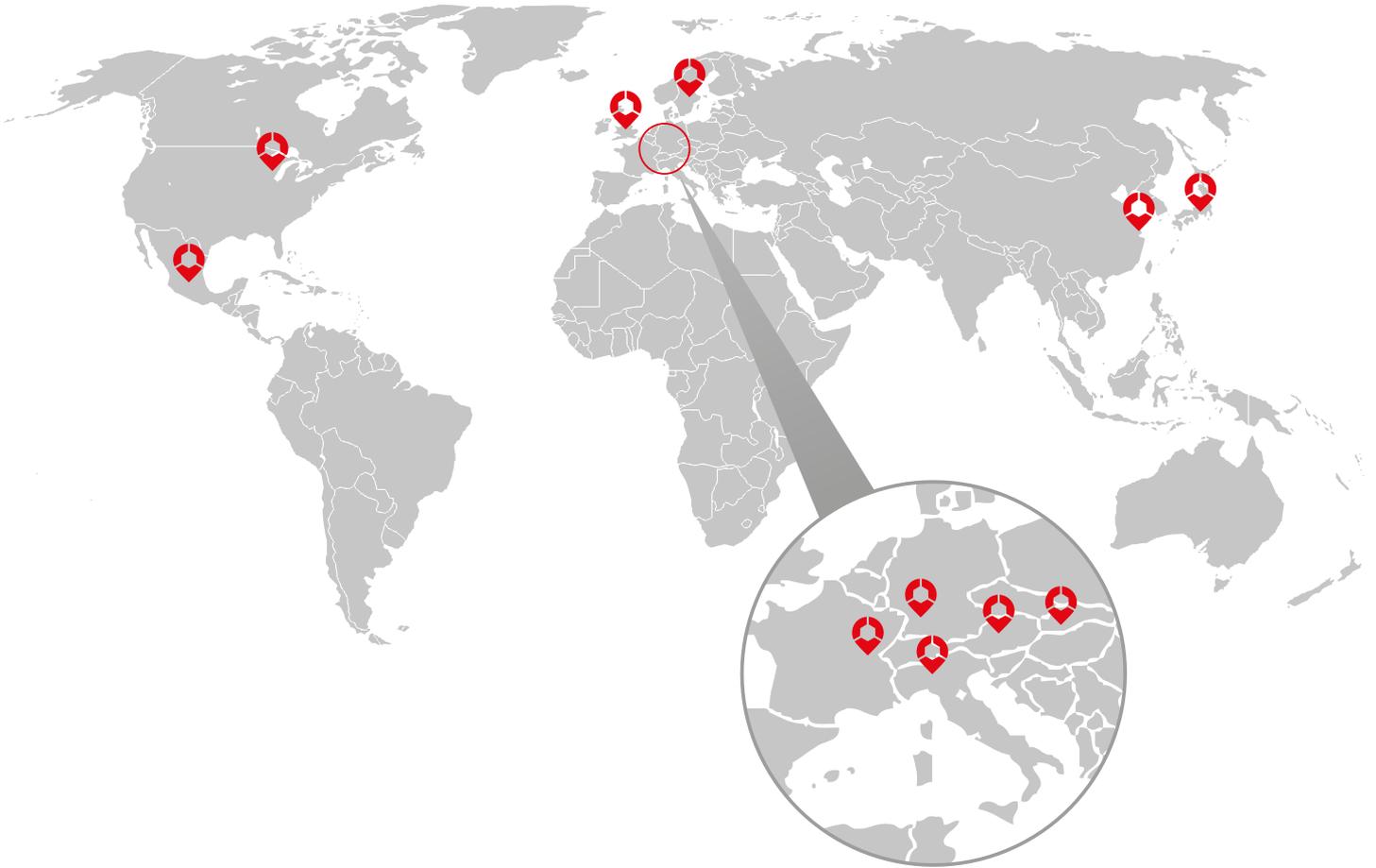
Automated Change [AC] Line



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