



Machines, automation and robotics for the cutlery, tool, machine knife, surgical and foundry industries

Innovative plant concepts for fully automated, networked production

Japan, December 2025

Dr. Andreas Gross, CEO Berger Group, GERMANY



Berger Group Headquarter, Wuppertal, GERMANY

- **195 employees** (85 engineers)
- 250 types of CNC grinding and edge finishing machines
- 1.100 **robot integrations** for automatic loading and machining
- **Industries:** Cutlery, Surgical, Tool, Machine Knives, Foundry and Forging
- **new production hall** and offices finished in December 2024





Tool Industry



Cutlery Industry



Deburring Technology for Foundries



Manicure and Surgical Industry

- Machine builder with six specialized companies/brands: Berger, Hauschild, Nell, Julius, Peters, Laschet
- Building CNC grinding, polishing, edge finishing and profile generating machines
- Robot System Integrator from ABB, Fanuc and Kuka
- about 250 types of CNC grinding machines
- about 1.100 robot integrations of different makers
- 195 employees in Wuppertal, Germany
- 13 international representatives worldwide and Berger LLC in the USA



Machine Knife Industry





Berger Group Headquarter, Wuppertal, GERMANY





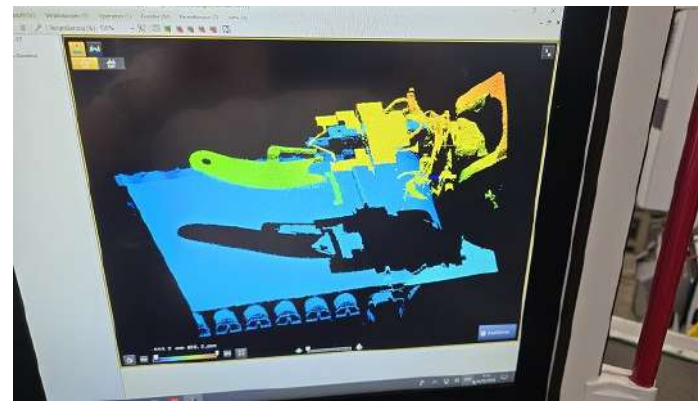
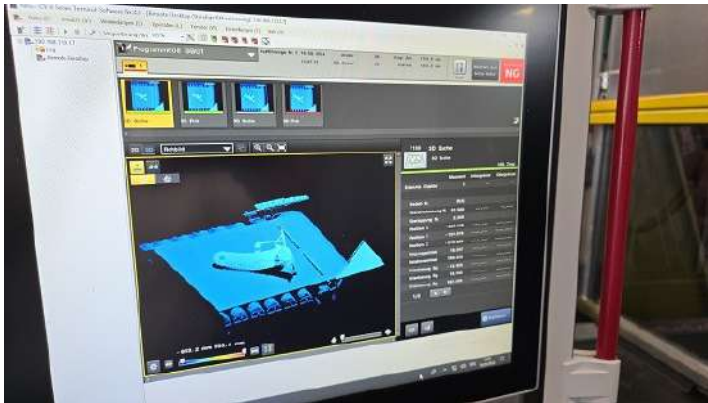
Universal, Cobot-Controlled Automation System

- easy programming, easy integration
- 8 slides for variable magazinising of workpieces
- usage of universal magazines and picking of non sorted workpieces with integrated AI-controlled camera
- no safety fence necessary,
- 2D safety distance sensor
- communication interface for Berger machines and universal ProfiNet/Digital I/O-interface for all other brands



Intelligent automation and process integration with AGVs

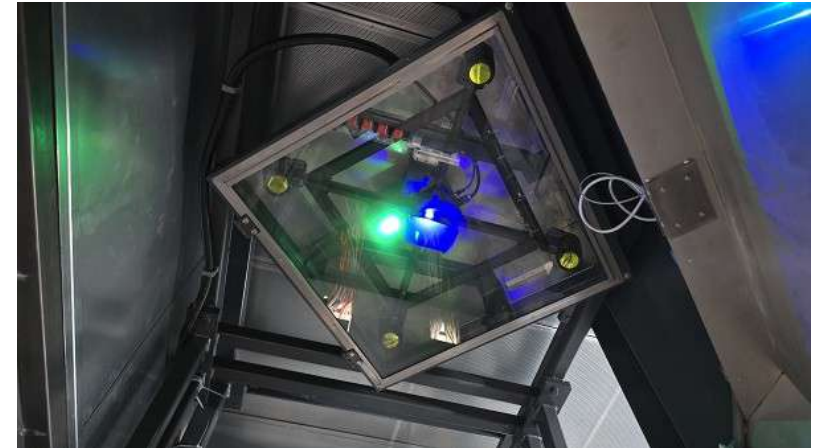
4 sequentially working robots and one loading/control robot for an automatic production of knives with AGV feeding, back grinding, quality control and magazine pallets for storage

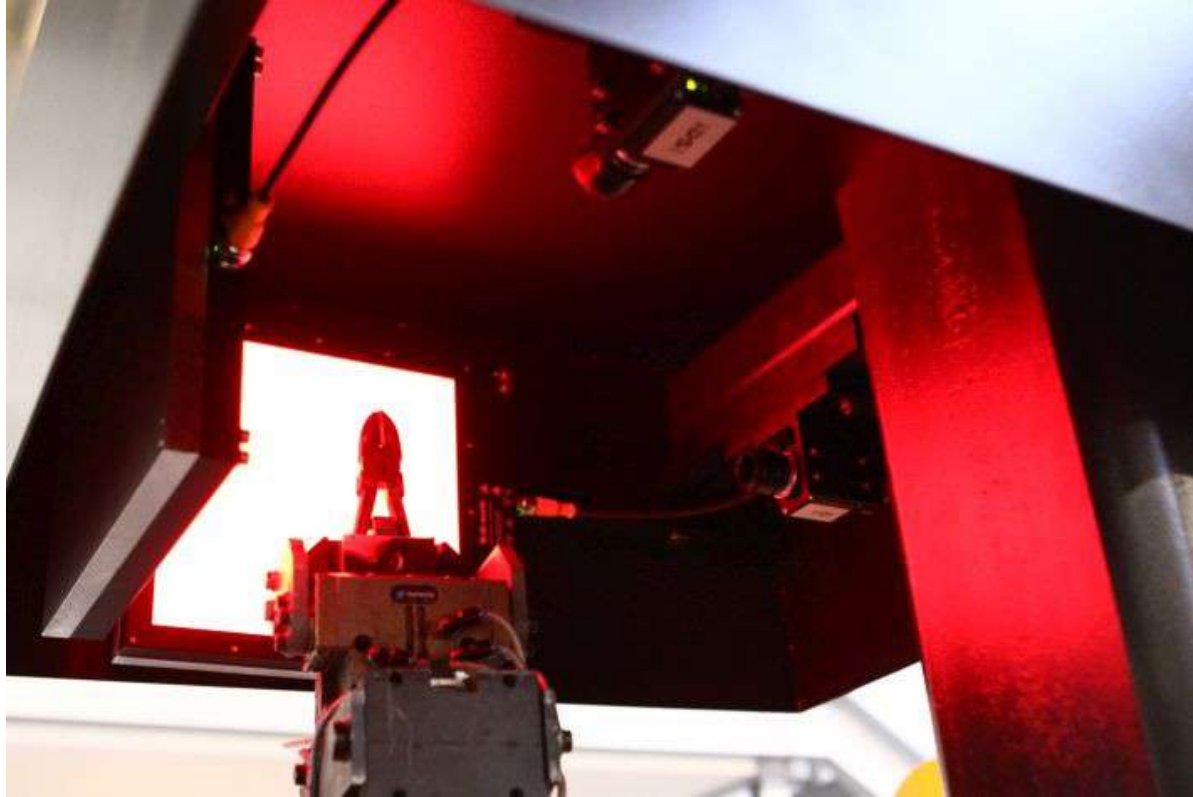


*3D-part Recognition and
Re-Measuring after Picking*



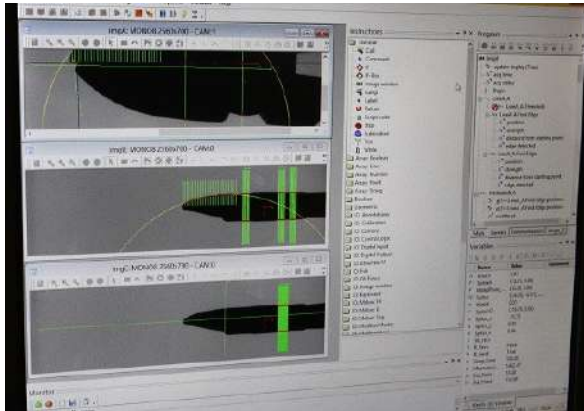
*Camera System for 3D-part Recognition and
Localization for Picking of unsorted Workpieces
for Machine Loading and Automation*



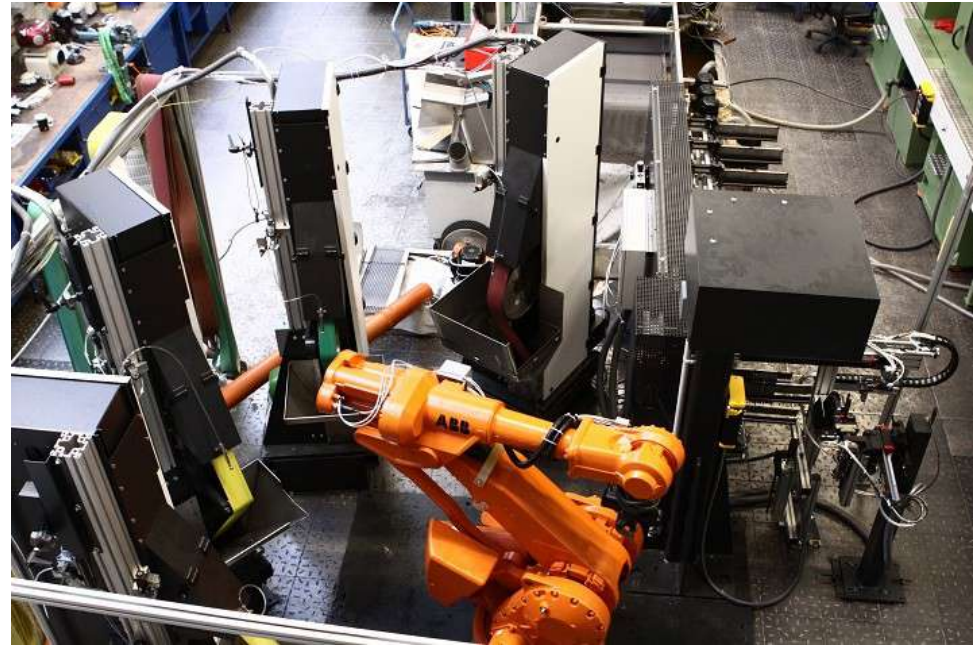




Robot plier grinding



*Camera recognition and measurement
compensating differences of forged raw parts*

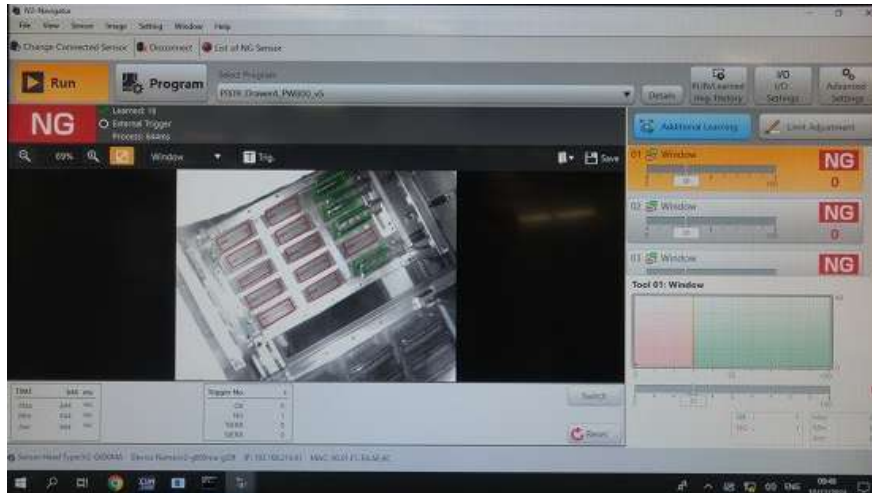


*Universal robot grinding and
polishing system for tool pliers
with four belt grinding stations*



CNC Bevel Grinding Machine Type BG0/RV

With 200 diameter Cup Wheel and AE-Measuring System for Pocket Knife and Tool Parts
Incl. Robot Loading System and Camera Controlled Feeding System with 2D AI-Controlled Pattern Training



Bürsten/Entgraten von Turbinen- und Verdichterschaufeln mit

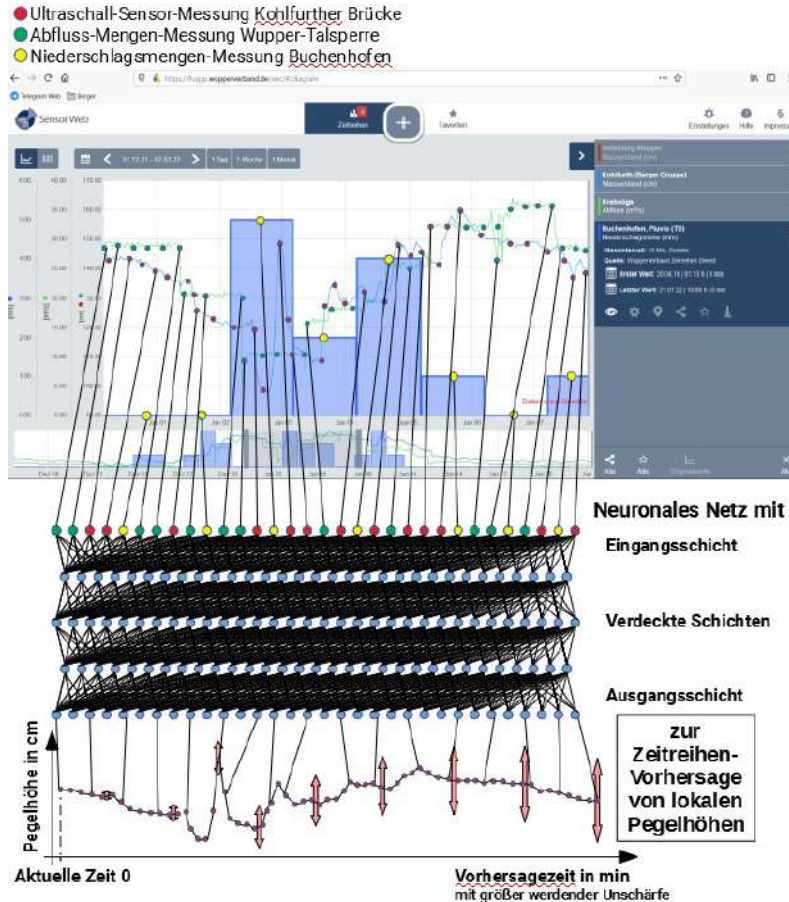
- Werkzeugwechselsystem
- Werkzeug-Spindelwechselsystem
- Werkstückwechselsystem
- Ultraschall und Laservermessung zur Verschleißkompensation
- **Kamera-gesteuerte Magazin-Füllstandüberwachung**



Berger Group in Wuppertal, GERMANY

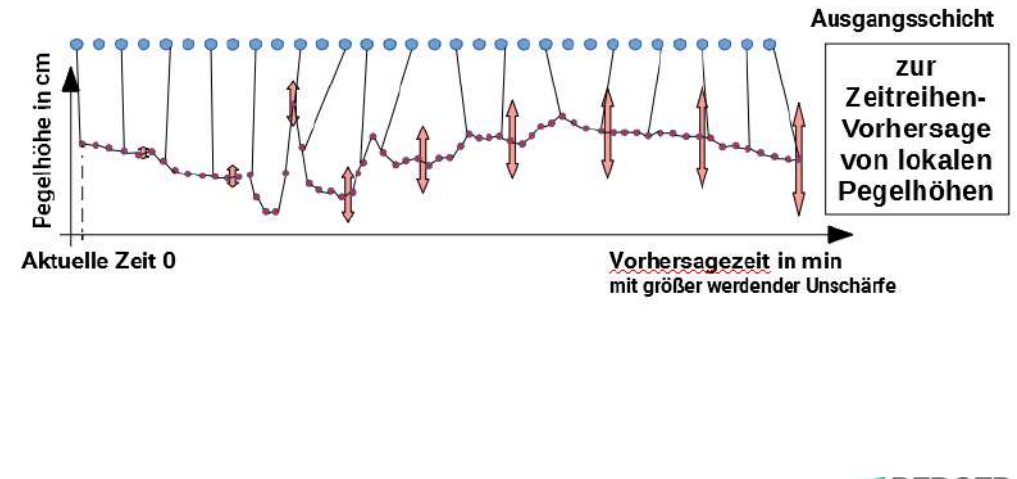
- *about 9.000 qm production area*
- *7.600 qm over-flooded on 14./15.7.2021*

Funktionsprinzip Bergisches Hochwasser-Warnsystem 4.0 (HWS4.0)



Functional Principle HWS4.0

with input data (Sensors),
 Neural Network for analysis and
 prediction of flood levels





THANK YOU FOR YOUR ATTENTION

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