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Ref. No.:
1524-06172200

Overview and Technical Data:

Comprehensive Welding and Machining Line for Complete Wheels (Rims & Discs)

NOT DEFINED



Multiple Makes or Not Defined

Year of Build:
Jan 2008

Description:

For sale is a highly automated and exceptionally complete production line for the assembly, welding, machining, and final inspection of complete wheels. The line is consistently automated with a large number of Kuka robots (mostly from 2008) and features premium components from manufacturers such as Georg, SMG, Cloos, Danobat, and IEF Werner. From the initial assembly press, through a five-station welding system, to three CNC turning centers, measuring machines, and a shot blasting unit, this line covers the entire manufacturing process.

This facility represents a turnkey solution for the mass production of welded complete wheels, distinguished by its high degree of automation and the integration of state-of-the-art manufacturing and quality assurance technologies.

For sale: Complete wheel welding & machining line with Kuka robots, Georg presses, Cloos welding systems, Danobat CNC centers, and IEF measuring machines.

Highlights of the Line

- **Extremely High Automation:** Over a dozen **Kuka KR150-2 2000 robots** handle all parts handling.
- **Powerful Welding Section:** An automatic system with 5 welding stations, each equipped with a Kuka robot and **Cloos (Quinto) GLC603** welding units.
- **Precise CNC Machining:** Three **Danobat TV-650/SL turning centers** with Siemens Sinumerik 840D controls.
- **Integrated Press Technology:** Several hydraulic presses from **Georg** and **SMG** (up to 10,000 kN), partially refurbished.
- **Complete Quality Assurance:** **IEF Werner** wheel measuring machines and a **Konrad Rump** double shot blasting machine.
- **Modern Upgrades:** Includes a very recent valve protection welding cell from 2023.

Process Flow and Main Components

1. Assembly & Pressing:

- The line begins with an infeed station and an **SMG hydraulic press (1,600 kN)**, served by a **Kuka robot**. This press was rebuilt by Georg in 2008.
- A second, more powerful **Georg hydraulic press (10,000 kN)** joins the components, served by two **Kuka robots**.

2. Automatic Welding:

- The centerpiece is an automatic welding system with **5 identical welding stations**.
- Each station includes a **Kuka KR150-2 2000 robot**, two **Cloos (Quinto) GLC603 welding units** (YOM 2009), and a fume extraction system. A brushing device is used for deburring.

3. CNC Turning:

- Three **Danobat TV-650/SL turning centers** (YOM 2008) with **Siemens Sinumerik 840D Powerline** controls and integrated handling systems perform the machining of the wheels.

4. Further Pressing and Finishing Steps:

- The wheels undergo further pressing operations on a refurbished **Georg PHEH315 press (3,150 kN)** and another refurbished **SMG HZBU160 press (1,600 kN)**, which are also robot-fed.
- A **Konrad Rump double shot blasting machine** (YOM 2009) prepares the surfaces.
- A **valve protection welding system** (custom build, YOM 2023) completes the process.

5. Quality Control and Handling:

- A double and a single **IEF Werner wheel measuring machine** (YOM 2008/2000) ensure dimensional accuracy.
- Various **roller conveyors and lifting units from Blume** (YOM 2008) connect the stations.

Technical Data:

Technical Data:

Control:

[CNC](#)

Buyer Information:

Condition:

Very good condition

Available:

Sold

Sold as:

EXW (Ex Works - Incoterm)

VAT:

19 %

Buyers Premium:

18 %

Location:

Germany

Images:





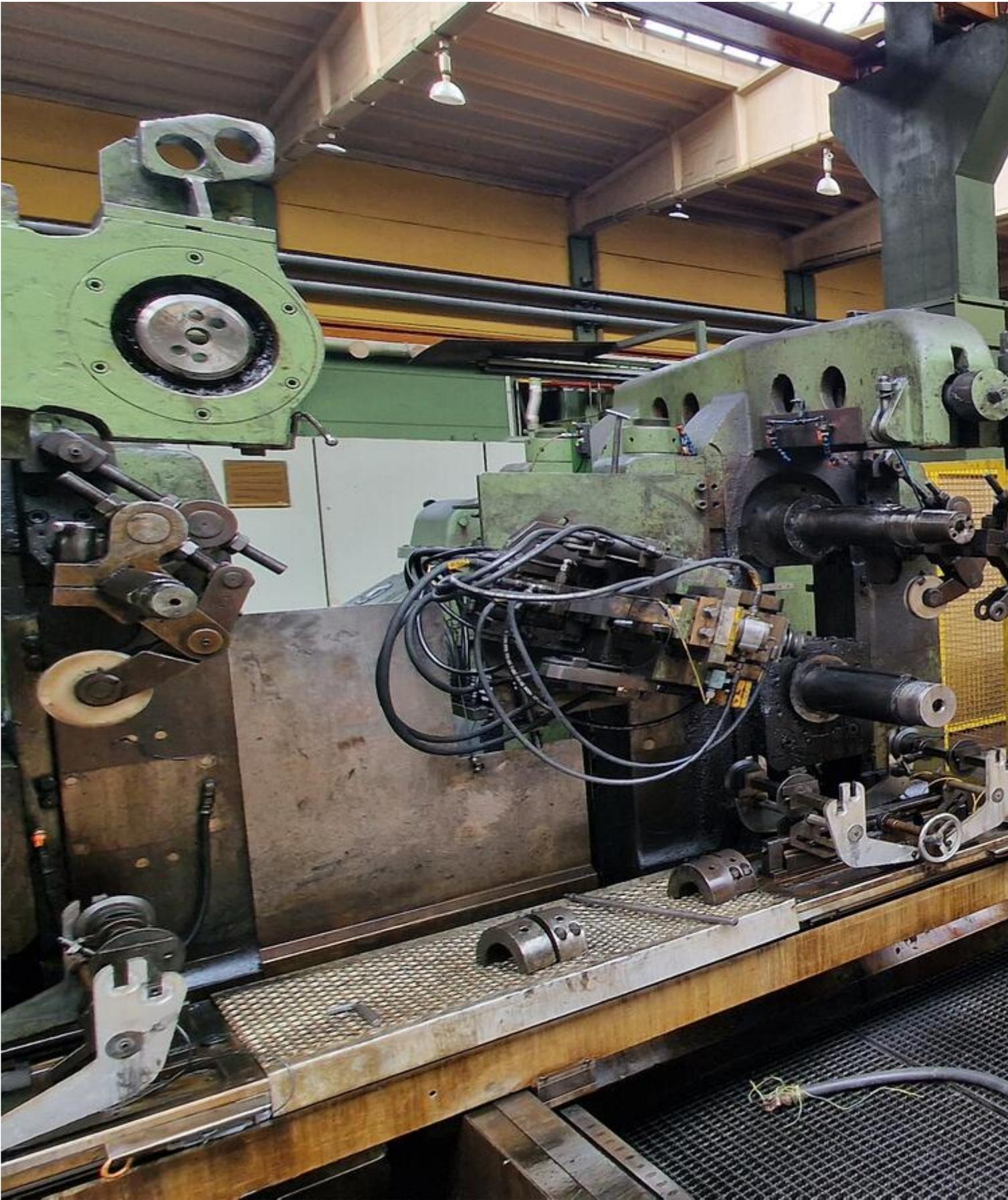














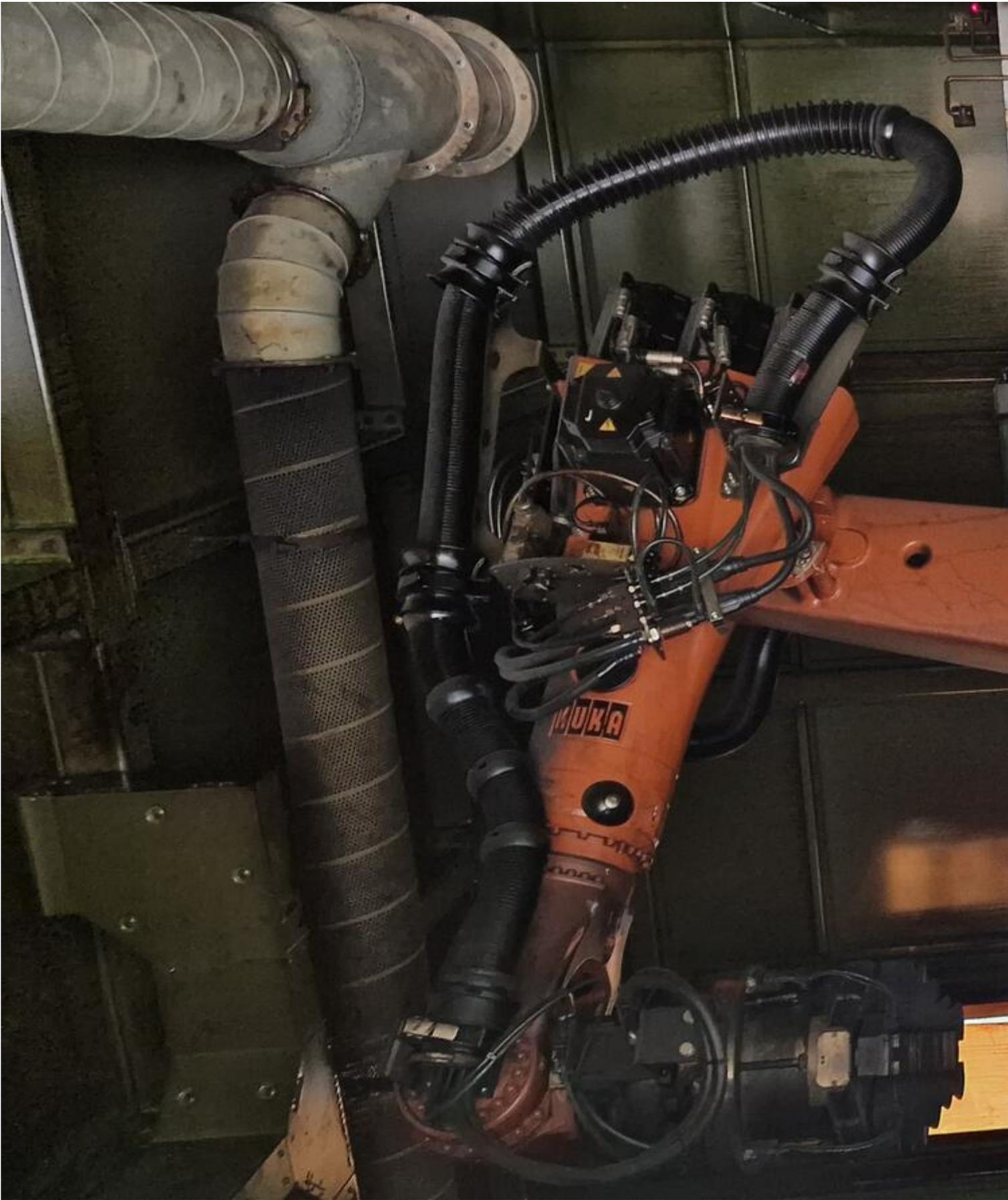








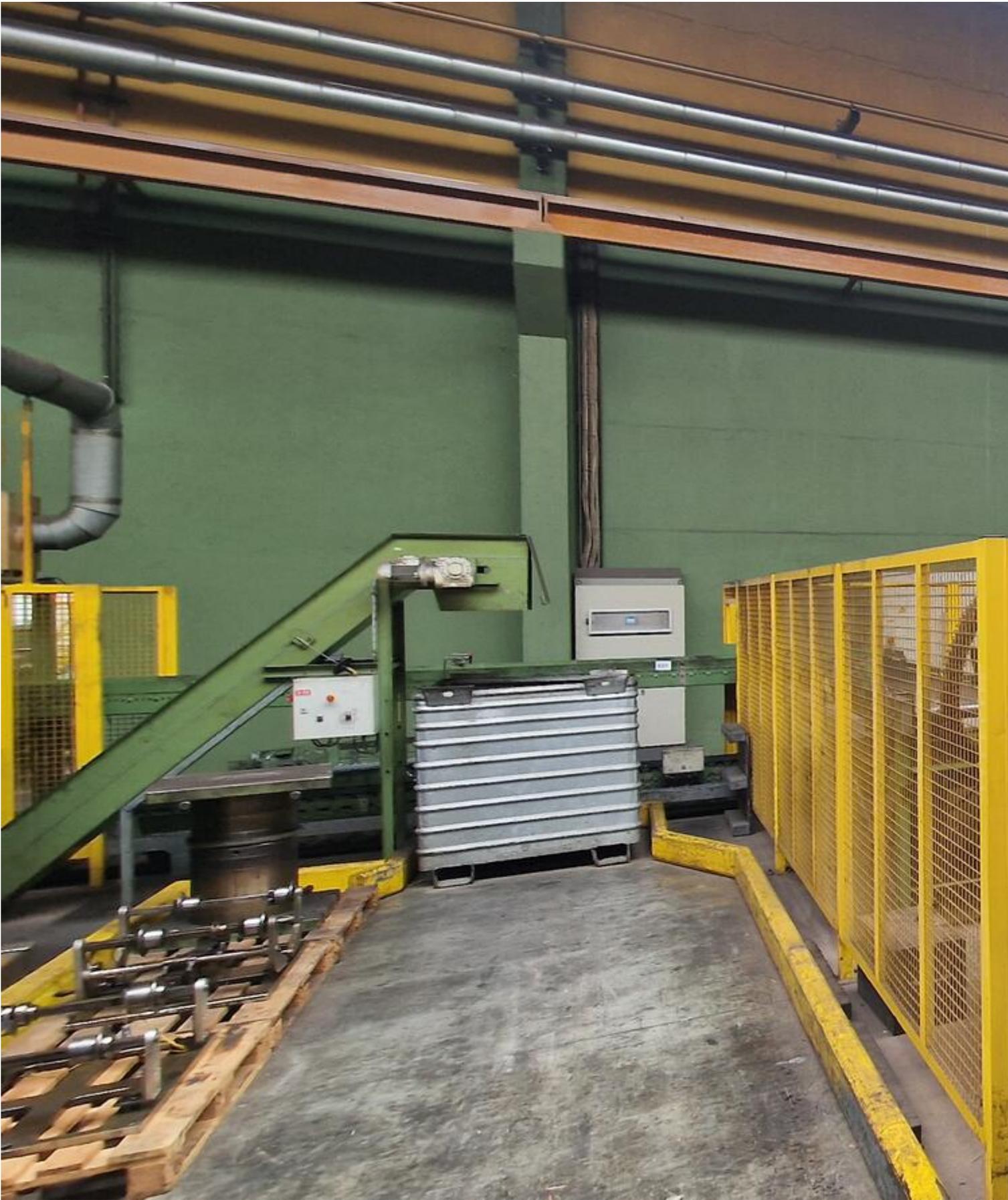
























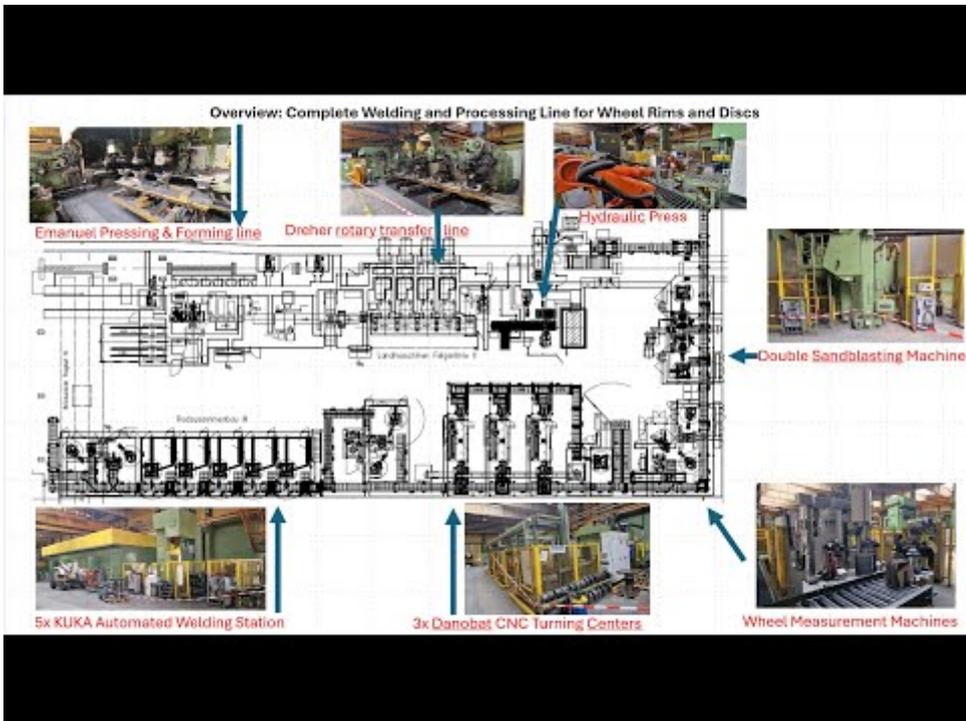






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Video:



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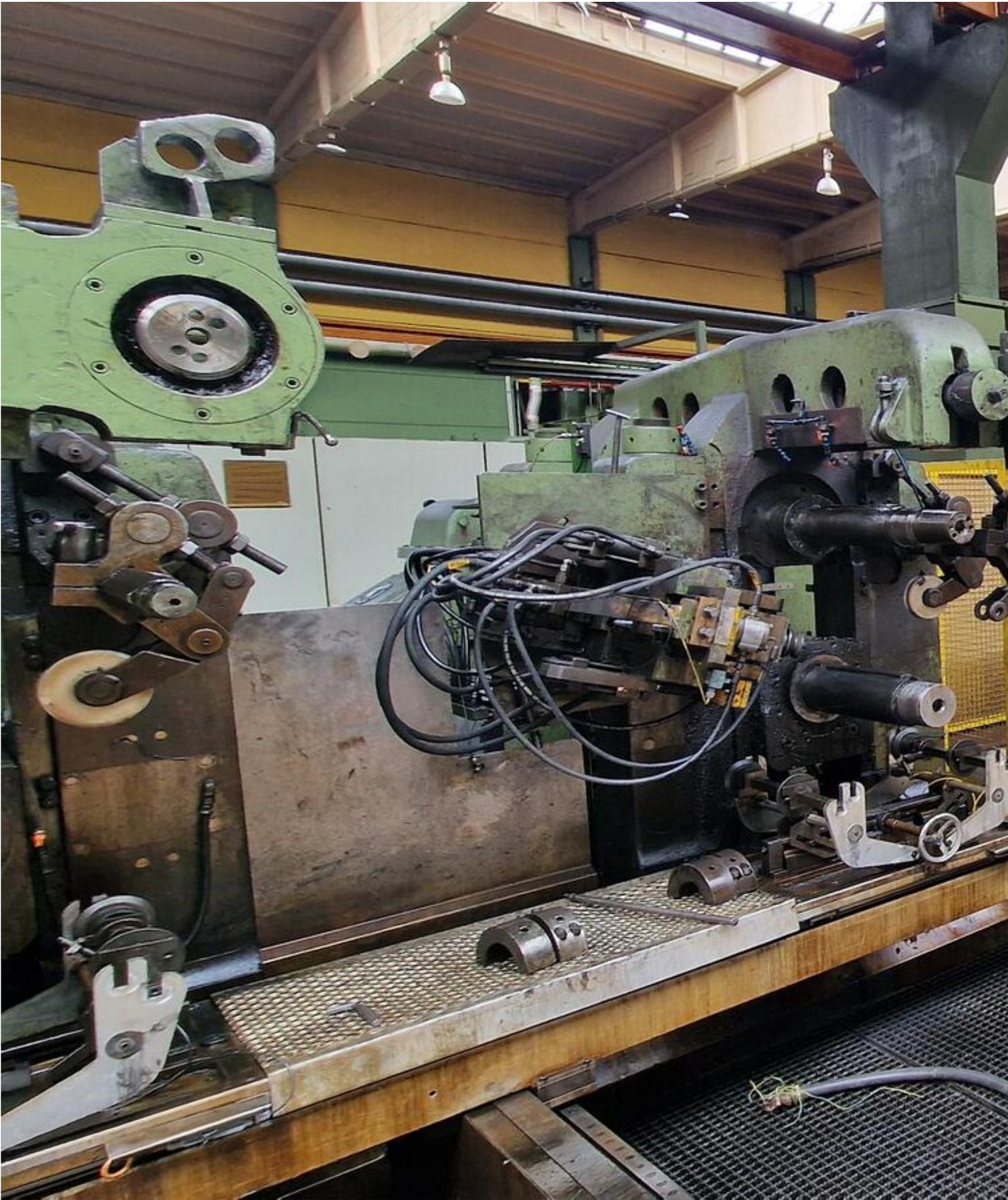














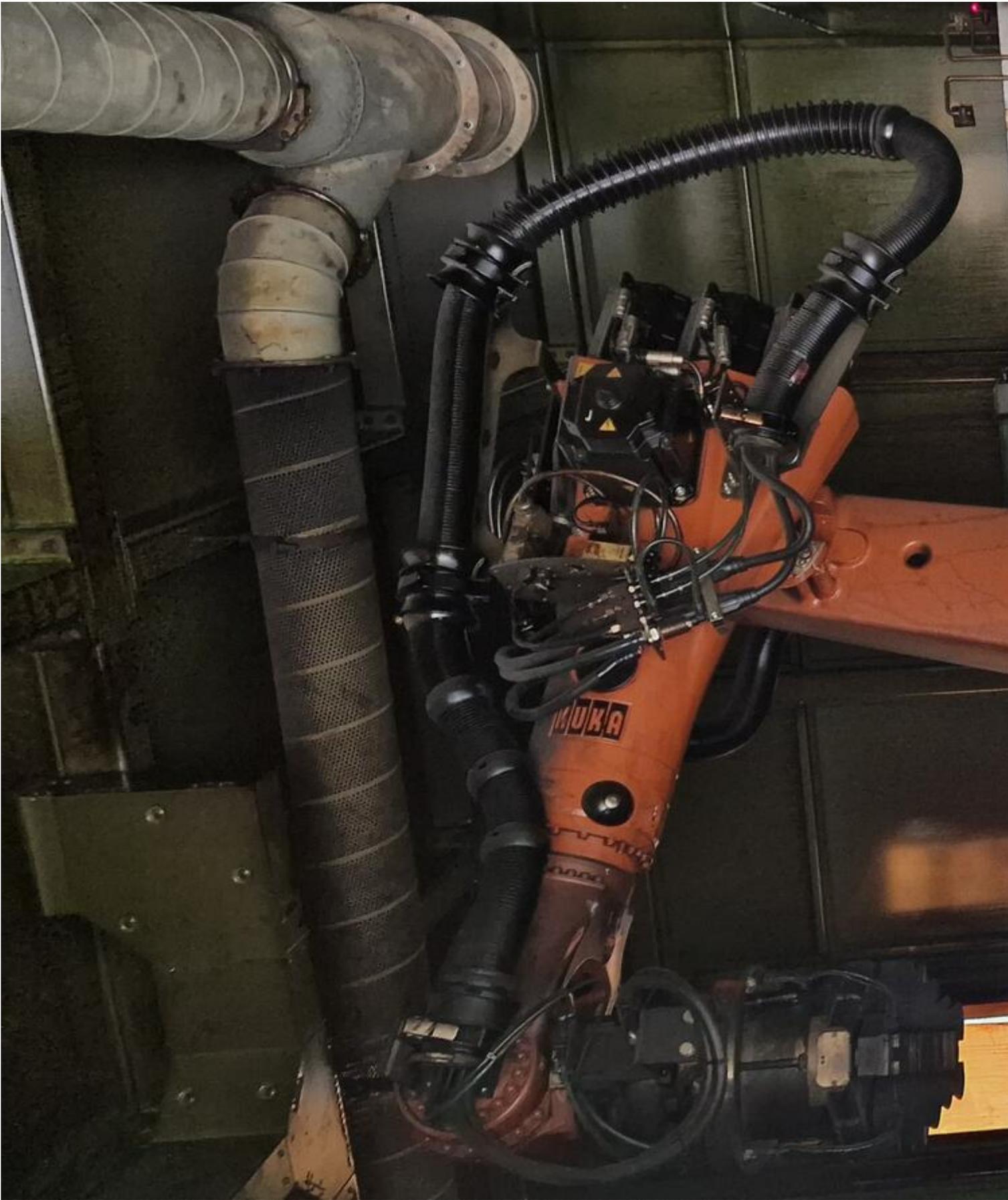




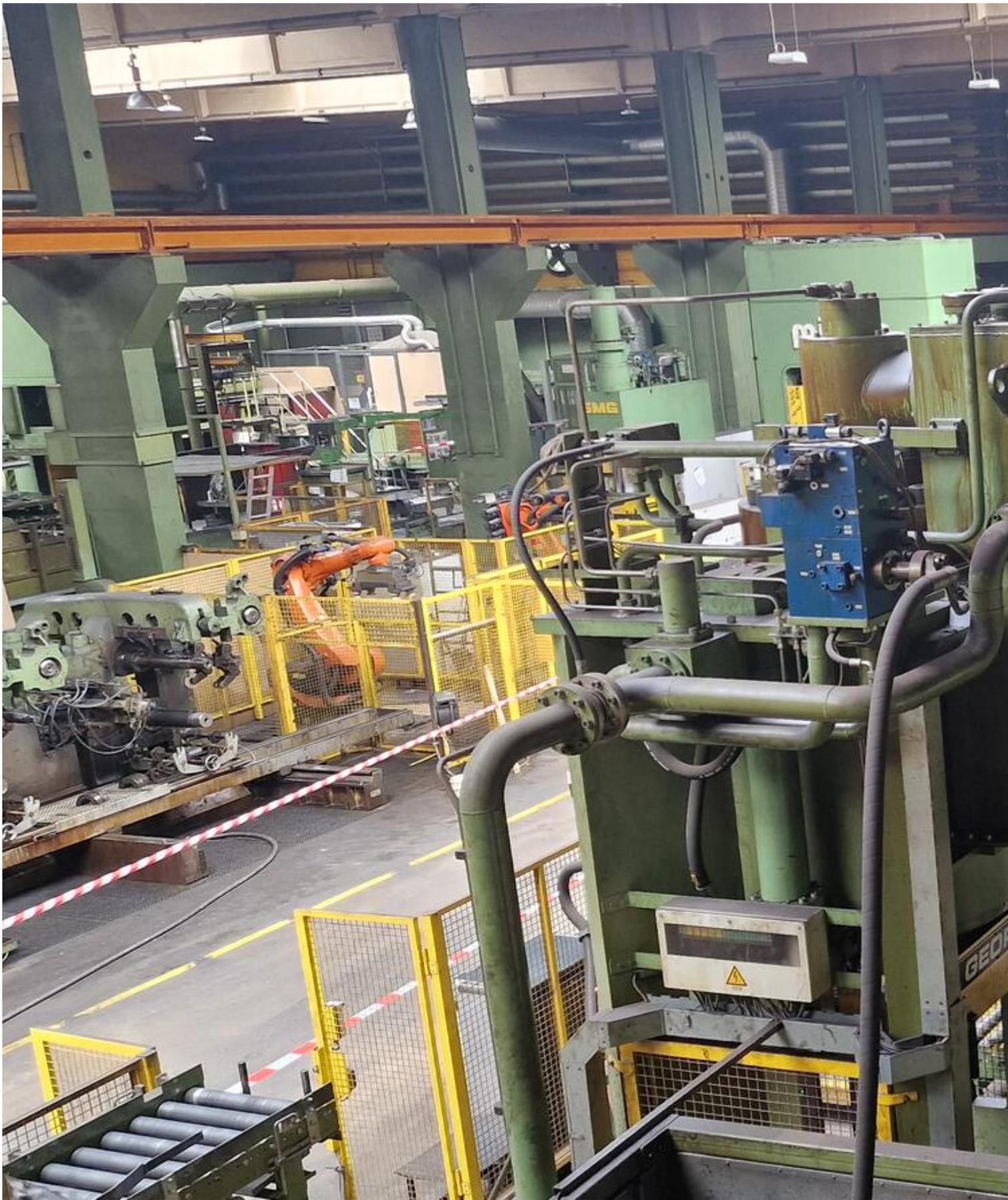














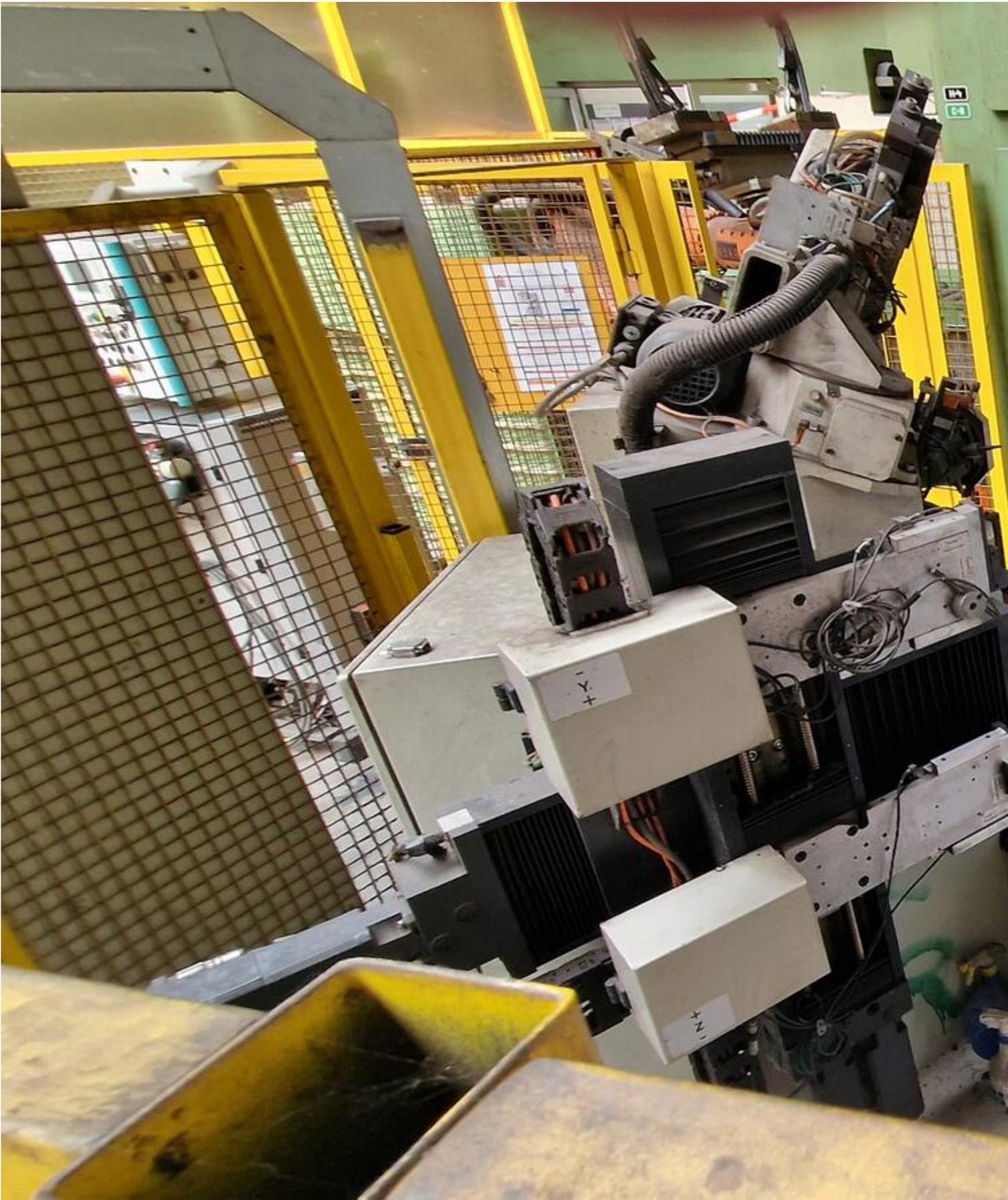














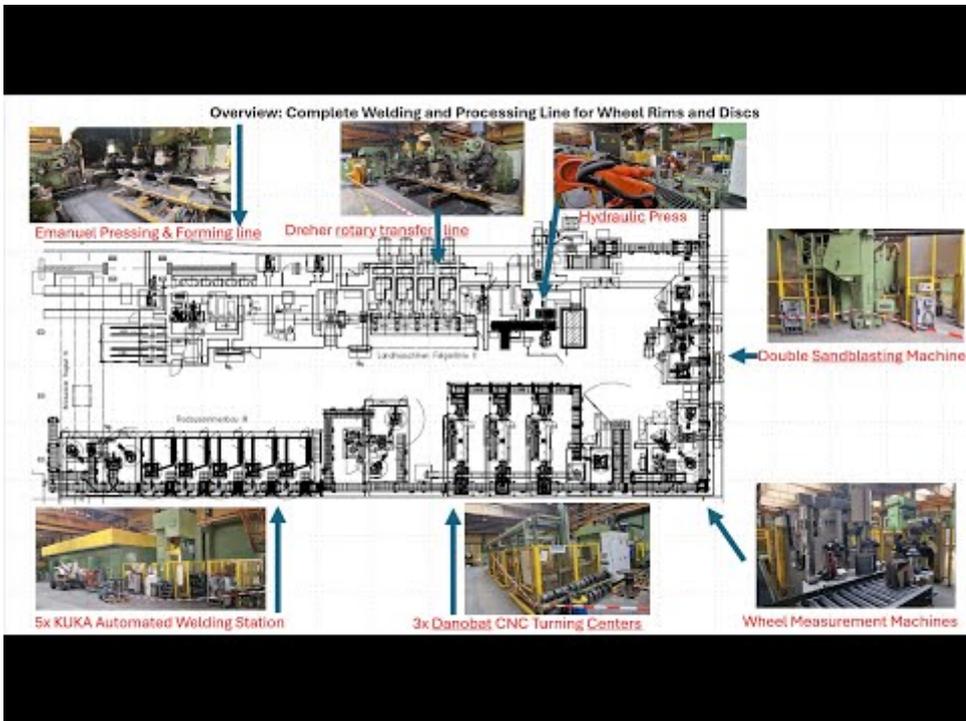






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