

**Overview and Technical Data:** 

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

## **NOT DEFINED**



Multiple Makesor 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.
- o 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:		

### **Buyer Information:**

Condition:

**CNC** 

Very good condition Available: Sold Sold as: EXW (Ex Works - Incoterm)
VAT: 19 %
Buyers Premium:
18 %
Location:
Germany

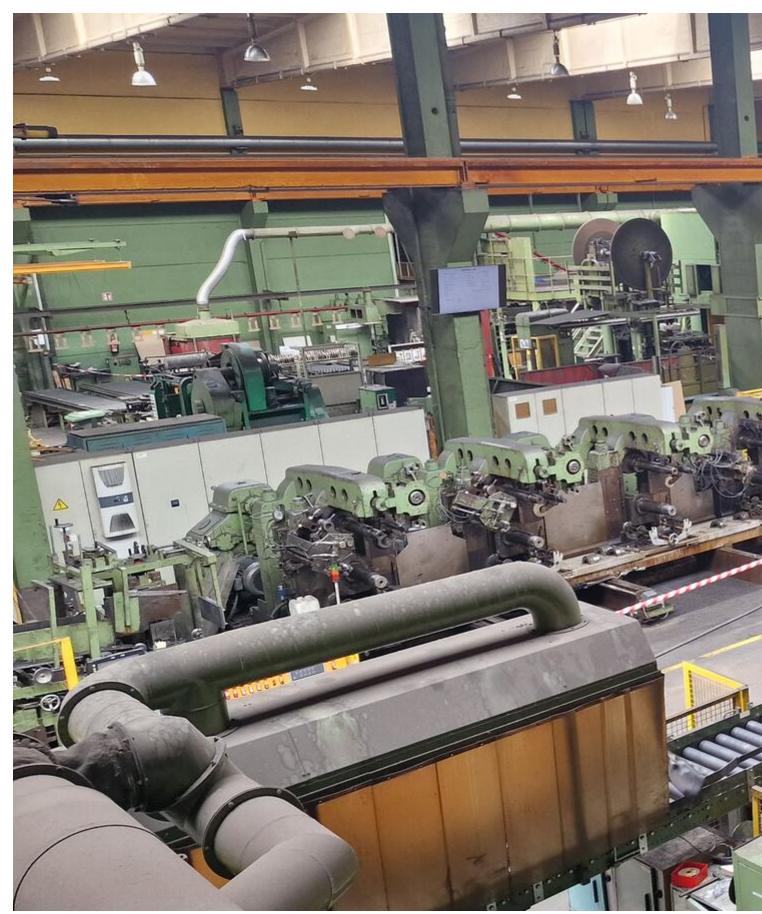
# **Images:**





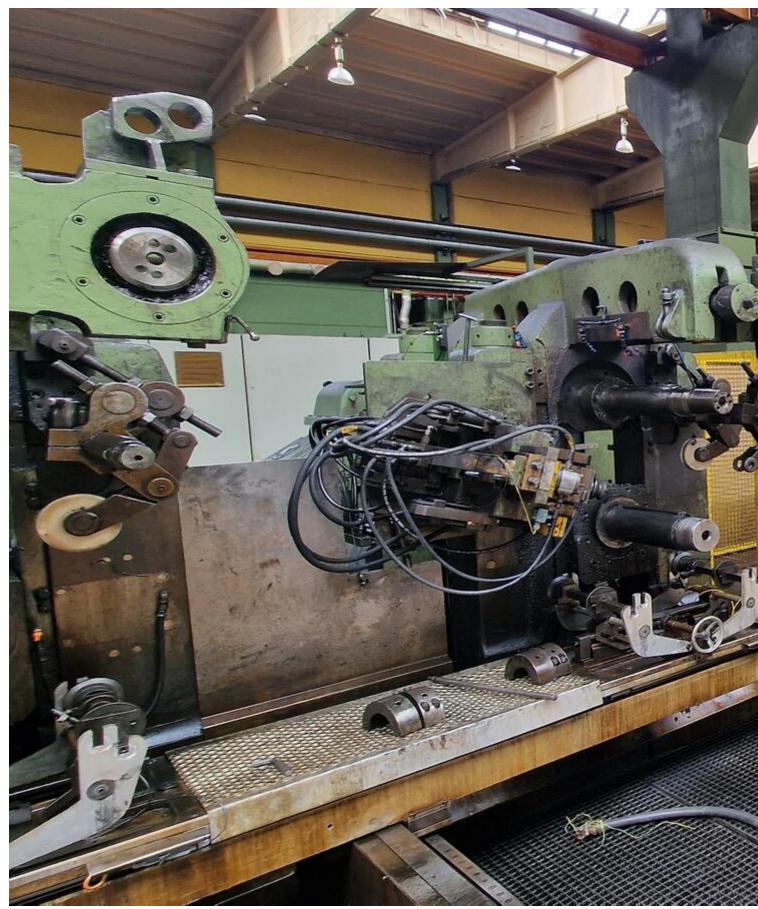






















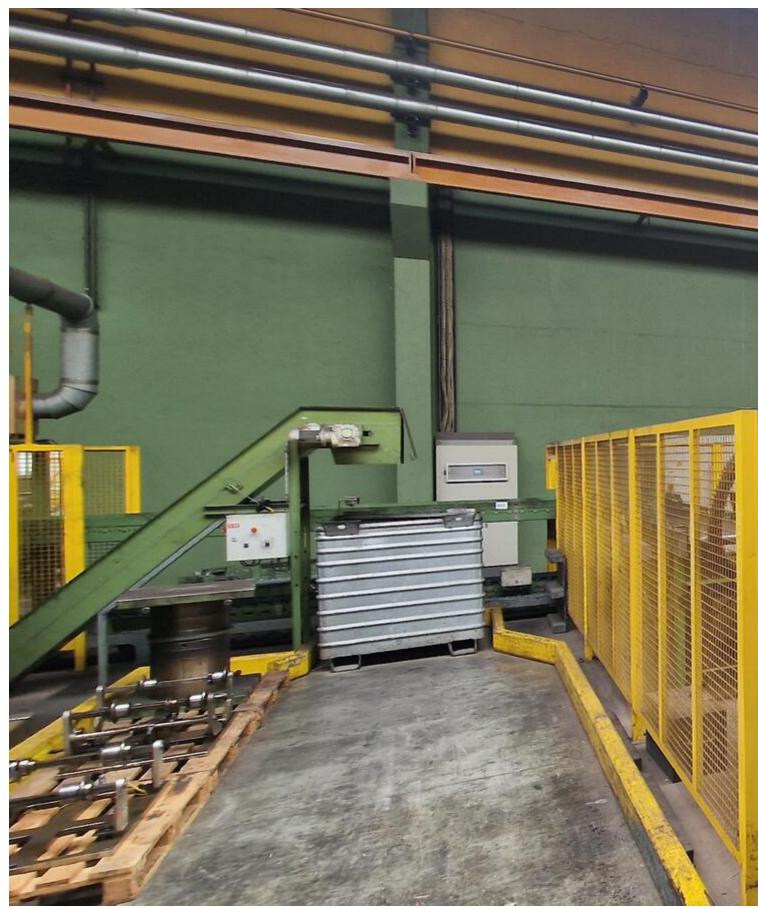








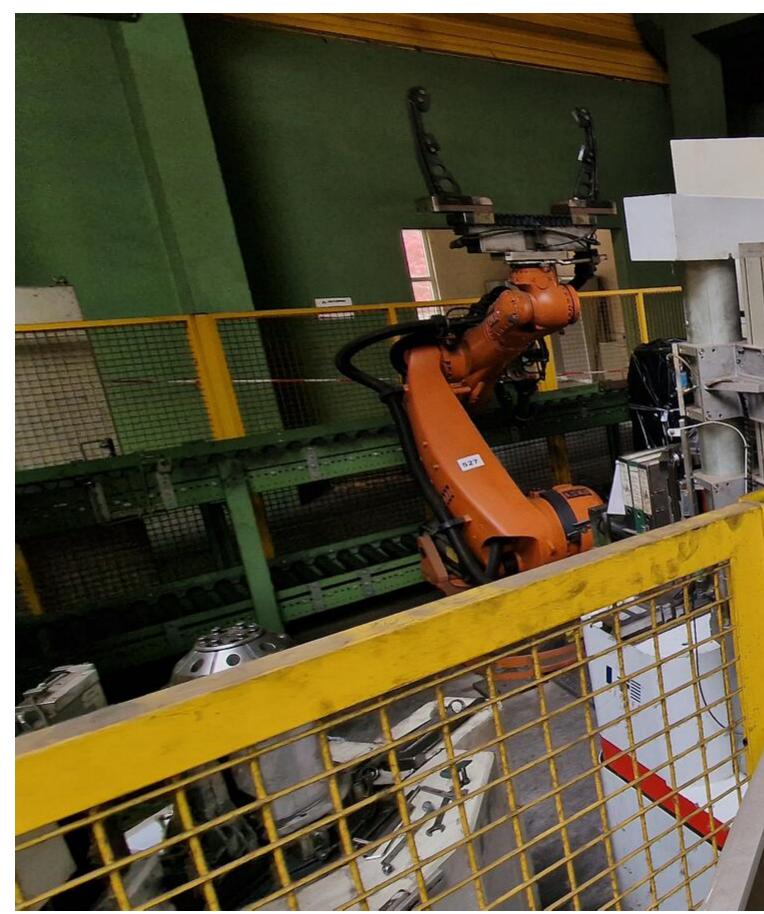














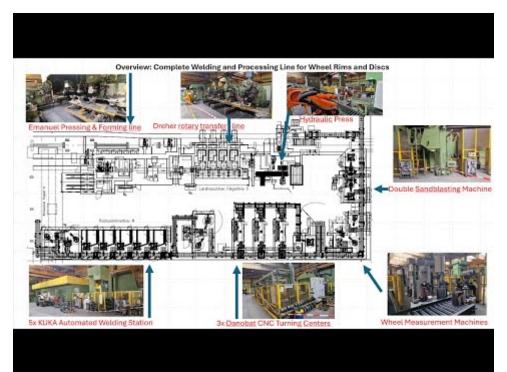








# Video:





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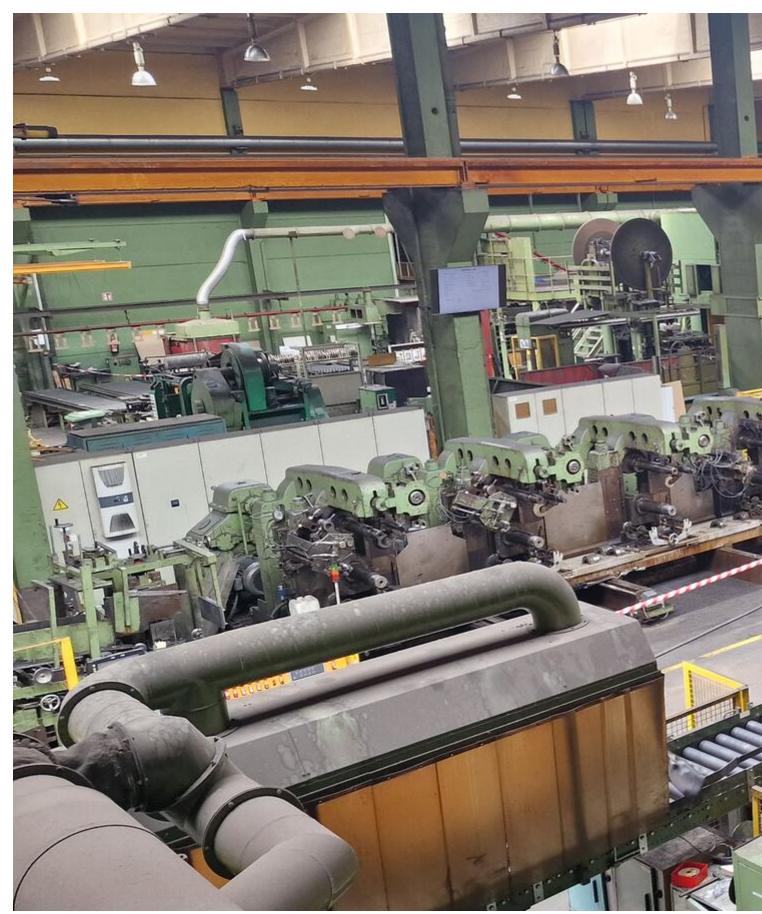
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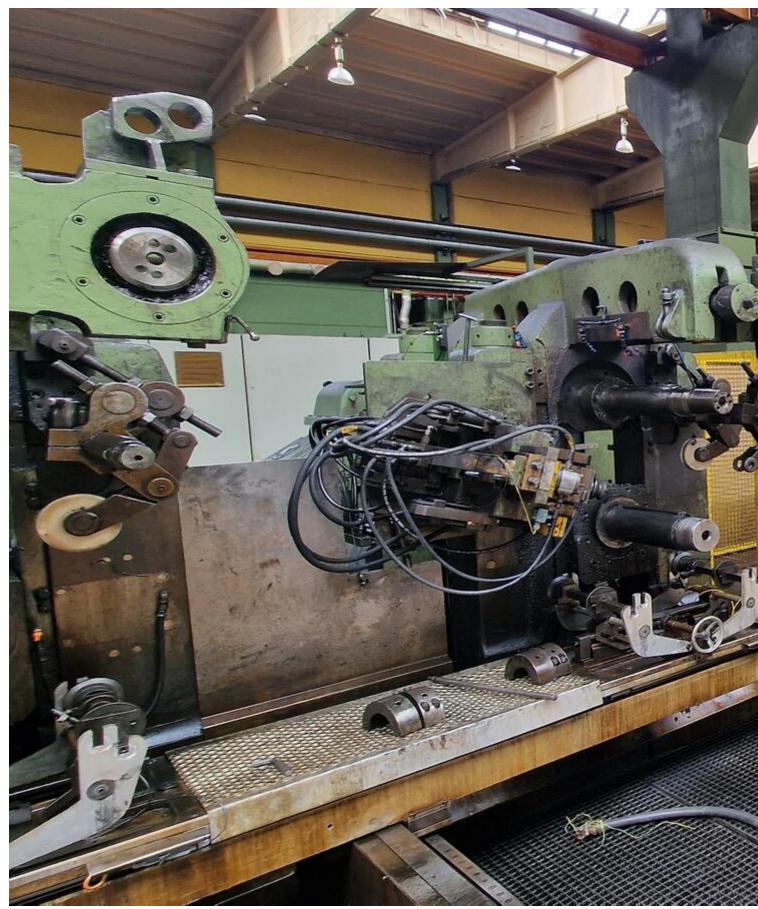






















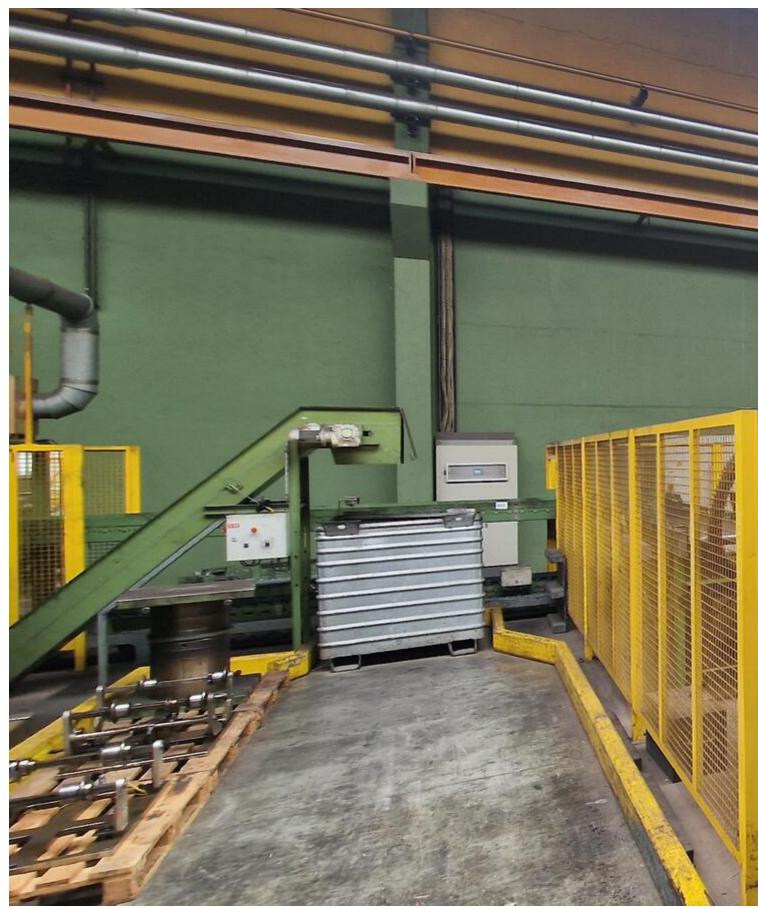








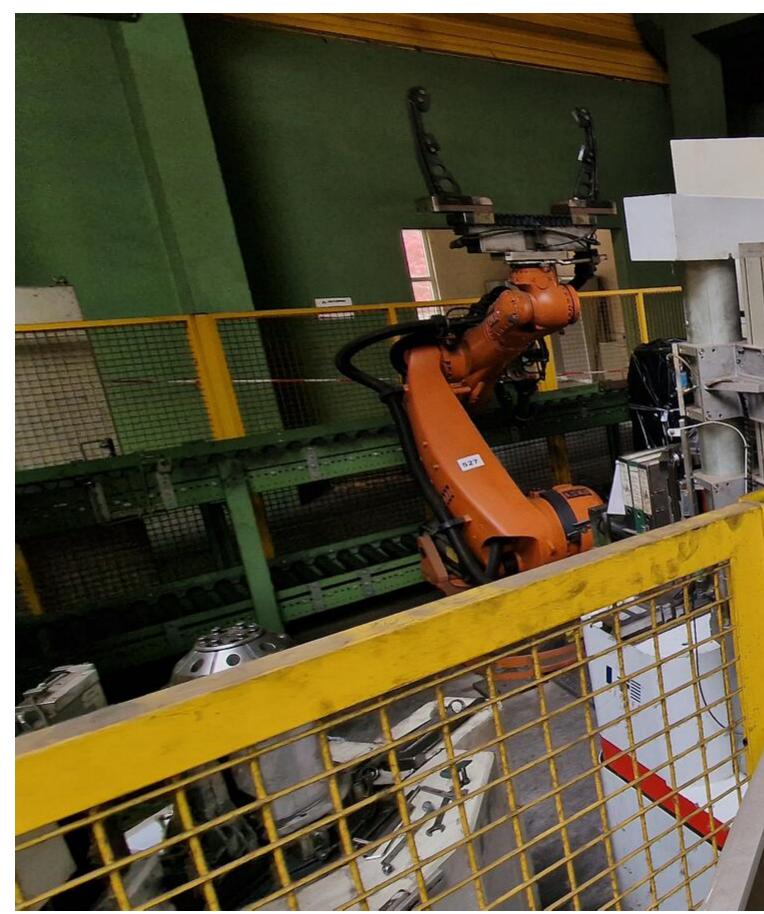














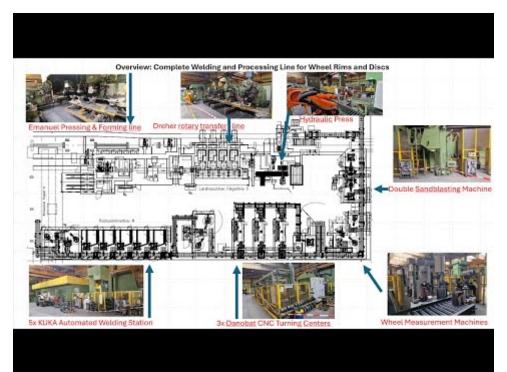








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