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Ref. No.:

1524-06131724

Overview and Technical Data:

Used Car Wheel Rim Production Line – Complete, Automated System by Fontijne, Kuka & Georg

NOT DEFINED



Multiple Makes or Not Defined

Year of Build:

Jan 2002

Rebuild year:

Jul 2023

Description:

Used Car Wheel Rim Production Line – Complete, Automated System by Fontijne, Kuka & Georg

Complete retrofit in 2023/24

16" diameter / 6.5" wide

Throughput time of 8 seconds (7.5 hour shift / 3-shift) approx. 4,500 units

For sale is a complete and highly automated production line for the manufacturing of passenger car steel wheel rims. This line, featuring high-quality components from renowned manufacturers such as Fontijne, Kuka, Georg, and Rexroth, covers the entire production process—from material infeed, welding, and roll-forming to testing and finishing. The high degree of automation, facilitated by six Kuka 6-axis robots, ensures an efficient and precise manufacturing workflow.

This used wheel rim production line is the ideal investment for automotive suppliers and metalworking companies looking to establish or expand their steel wheel manufacturing capabilities. The system includes a comprehensive safety enclosure and is offered complete with control units and other peripheral equipment.

For sale: A used, complete car wheel rim production line. Automated system featuring Fontijne presses, Kuka robots, and a Georg testing press. Ideal for steel wheel manufacturing.

Highlights of the RIM Production Line

- **Complete Process:** Covers all essential manufacturing steps for wheel rim production.
- **High Automation:** Six Kuka industrial robots provide reliable material handling between stations.
- **Renowned Manufacturers:** Core components from industry leaders: Fontijne (welding, forming), Georg (testing), and Rexroth (hydraulics).
- **Proven Technology:** A combination of robust, refurbished machines and modern robotics.
- **Immediate Capacity Expansion:** Opportunity to acquire a complete line that was formerly in production.

Manufacturing Process and Main Components

The production process is logically structured and automated by robots:

1. **Infeed Station & Straightening:** The raw material is placed on the refurbished **Fontijne Infeed Station**'s conveyor belt (L: 4.0 m) and fed into the **BTF Straightening Machine** (YOM 1989).
2. **Automated Welding Cell:** A **Kuka KR150-2 2000 robot** loads the **Fontijne Welding Station (Type FRW302, YOM 2002)**, which has a power of 3 x 200 kVA. Afterwards, the weld seam is treated in the **Fontijne Weld Seam Deburring and Rolling Unit (Type GWW-29, YOM 1989)**.
3. **Shaping & Roll-Forming:** Several **Kuka KR60-3 robots (YOM 2006 & 2011)** transport the rim shells through the subsequent forming processes:
 - **Expanding:** On a **Fontijne Expanding Press (Type 40/80H, YOM 1990)**.
 - **Roll-Forming:** In the downstream **Fontijne Roll-Forming Machine**.
4. **Testing, Finishing & Punching:**
 - The rims are fed to a **Georg Testing and Drawing Press (Type PKE200S, YOM 1971)** with 200 tons of pressing force. The machine was **completely refurbished by Groß & Schilling Hydraulik GmbH**.
 - Two additional **Kuka KR60-3 robots (YOM 2011)** service the press and the subsequent **double hydraulic punching device**.

Detailed Technical Specifications

Component	Manufacturer Type/Description	Year of Mfg. (YOM)	Technical Data/Notes
Infeed Station	Fontijne with conveyor belt	-	Refurbished, length approx. 4,000 mm

Straightening Machine	BTF	-	1989	Working width 300 mm
Industrial Robot 1	Kuka	KR150-2 2000	-	6-axis
Welding Station	Fontijne	FRW302	2002	Power 3 x 200 kVA, own weight 11,000 kg
Deburring/Rolling Unit	Fontijne	GWW-29	1989	Own weight 11,500 kg, incl. Rexroth hydraulic unit (570 L)
Industrial Robot 2	Kuka	KR60-3	2006	6-axis, S/N 763902
Industrial Robot 3	Kuka	KR60-3	-	6-axis
Rim Expanding Press	Fontijne	Aufrufpresse 40/80H	1990	Own weight 12,800 kg, S/N 097.81.183
Roll-Forming Machine	Fontijne	-	approx. 1995	-
Industrial Robot 4	Kuka	KR60-3	2011	S/N 766662
Testing & Drawing Press	Georg	PKE200S	1971	Completely refurbished , max. pressing force 200 t
Industrial Robot 5	Kuka	KR60-3	2011	6-axis, S/N 766964
Industrial Robot 6	Kuka	KR60-3	2011	6-axis, S/N 766983
Punching Device	-	Double hydraulic punching device	-	-
Additional Units	-	1x Hydraulic Power Unit 1,100 L, 1x Hydraulic Power Unit 5,000 L	-	-
Peripherals	-	Conveyor belts, safety fencing (approx. 15 linear meters), 2 workbenches, control units	-	-

For further technical details, documentation, or to schedule an inspection, please do not hesitate to contact us.

This wheel rim production line represents an excellent opportunity to acquire a proven and comprehensive manufacturing capacity.

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:

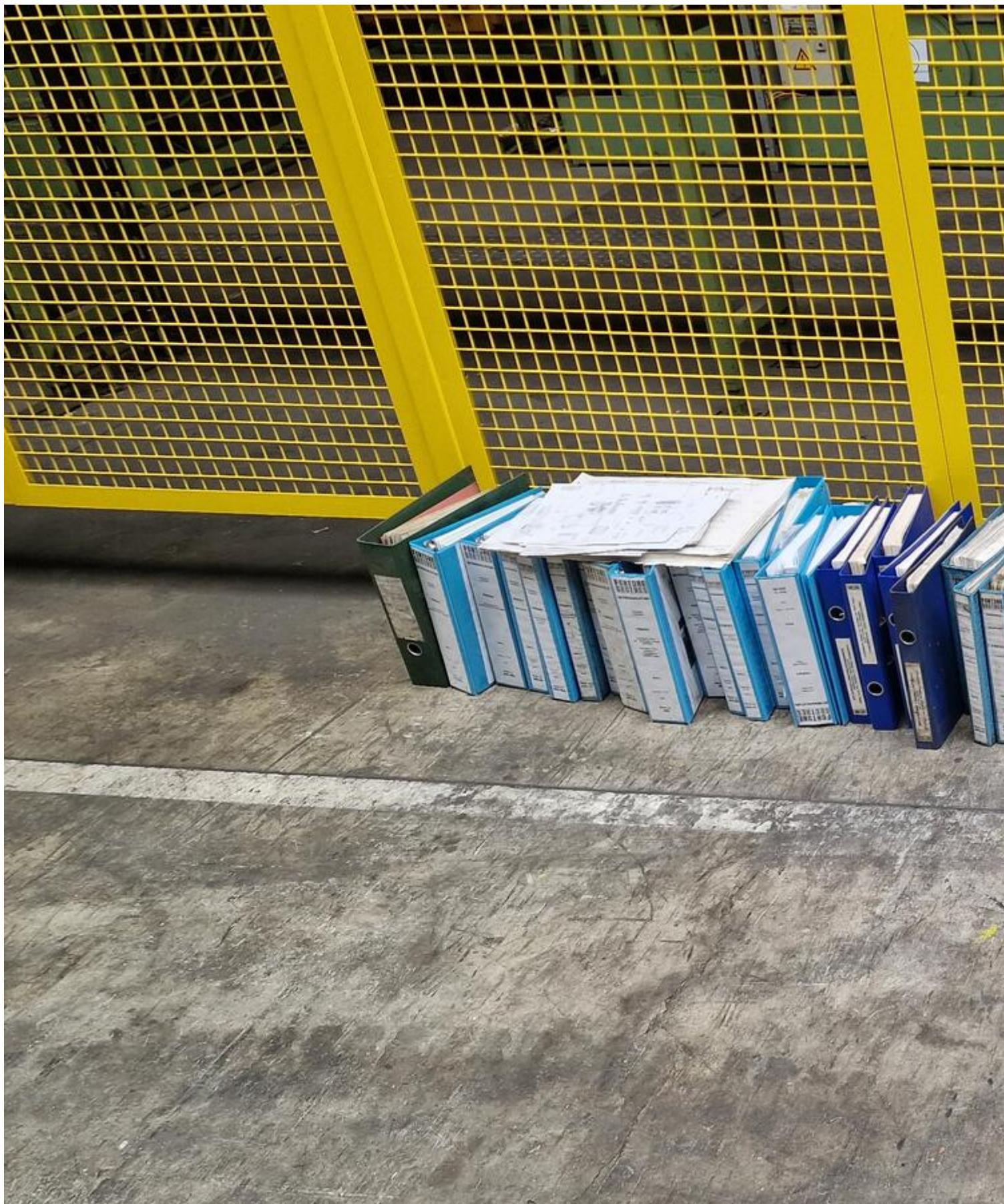
Germany

Images:



















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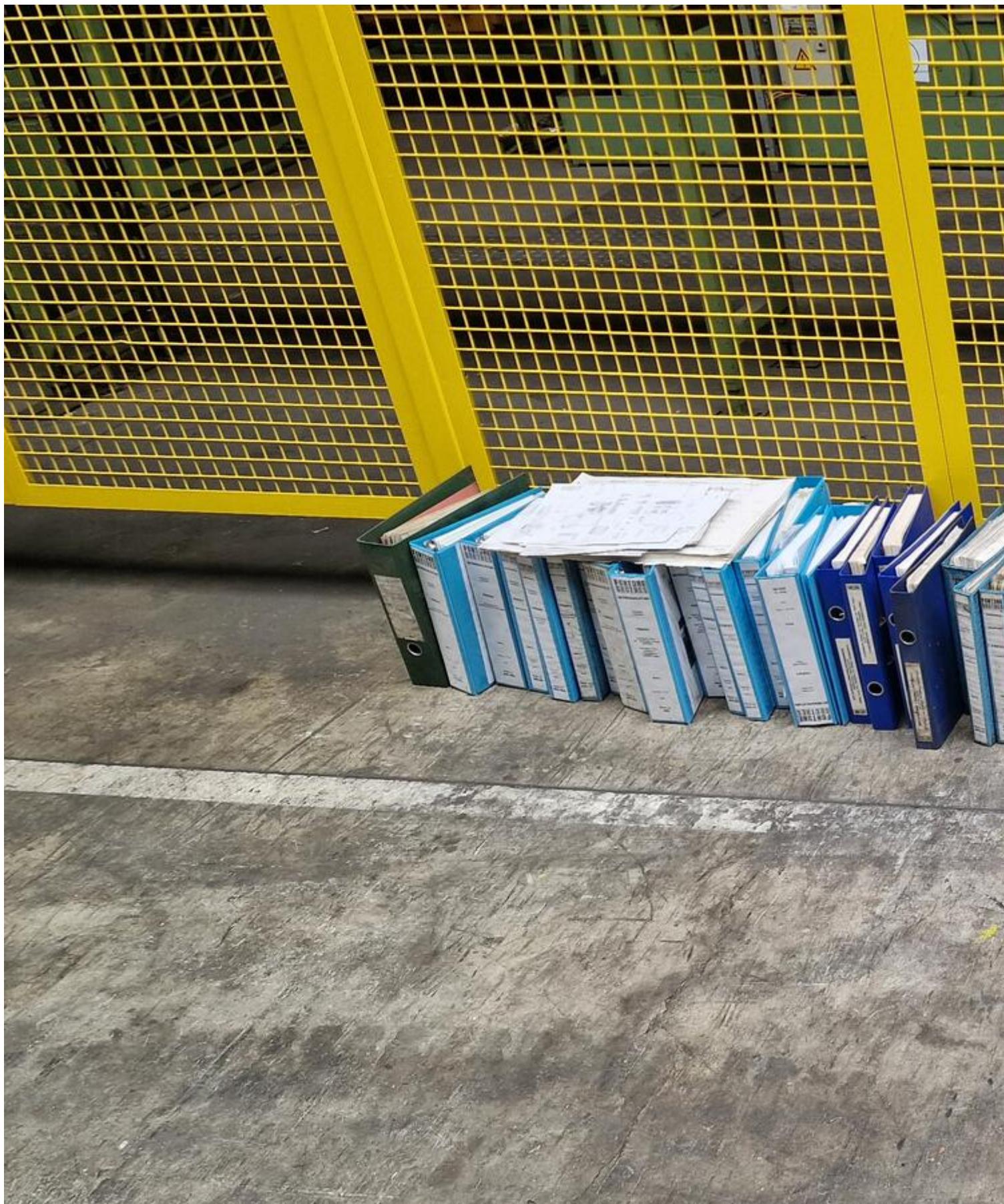
Germany

Images:

















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Video:



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