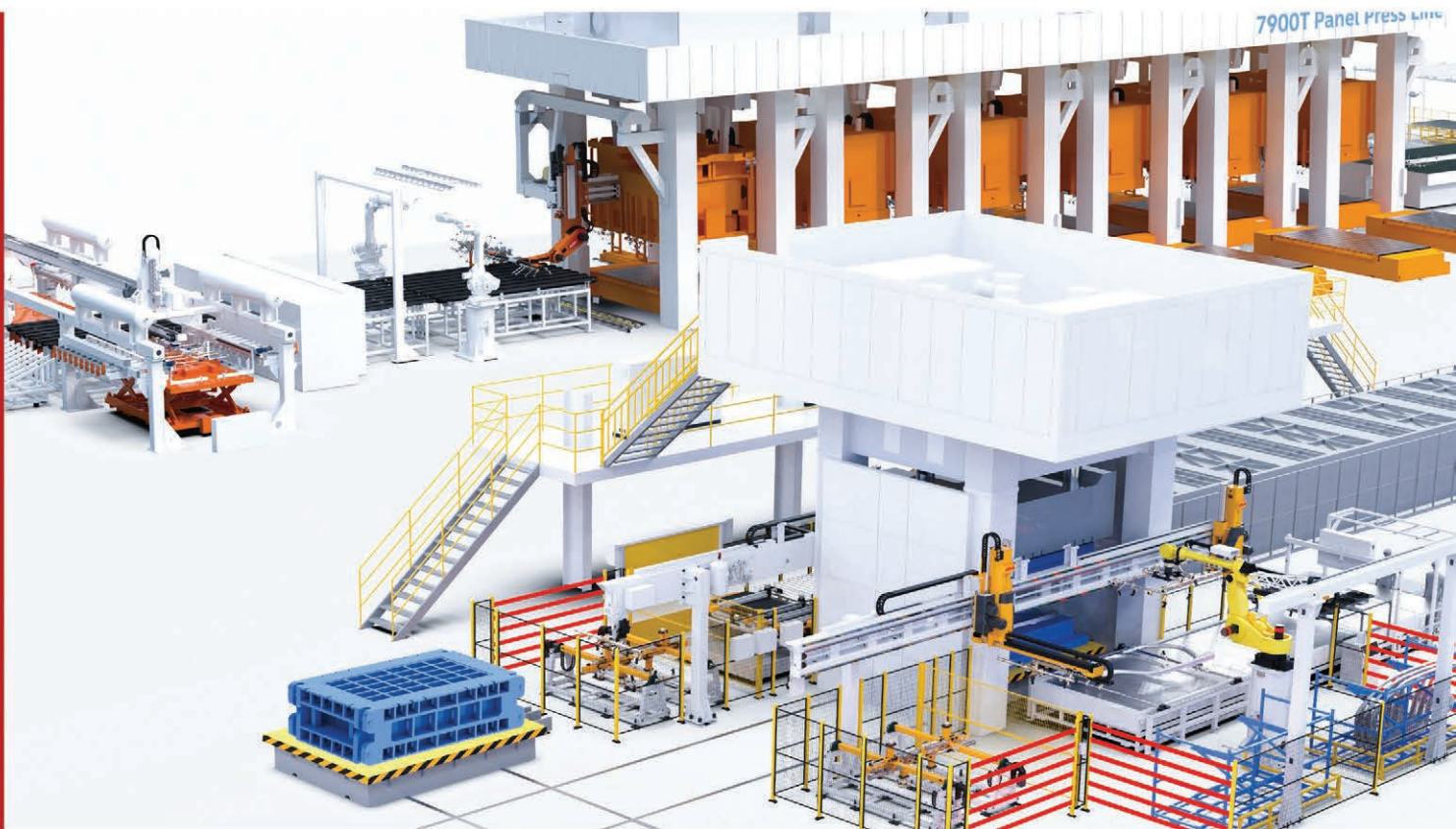


Aotto

SHEET METAL FORMING SOLUTIONS FOR AUTOMOTIVE INDUSTRY



Since **2000**

Jinan Aotto Automation Co., Ltd.



COMPANY PROFILE

Jinan Auto Automation Co., Ltd. was established in 2000, adhering to the principle of "dedicated to innovation and pursuit of excellence", adhere to the development strategy of "product leadership", providing high-quality automation equipment, services, and comprehensive solutions for the automotive, machinery, home appliances, light industry, and other industries.

PARTNER



PART OF CUSTOMER



COLD STAMPING AUTOMATION SOLUTIONS

- High speed stamping line with Aotto press robot



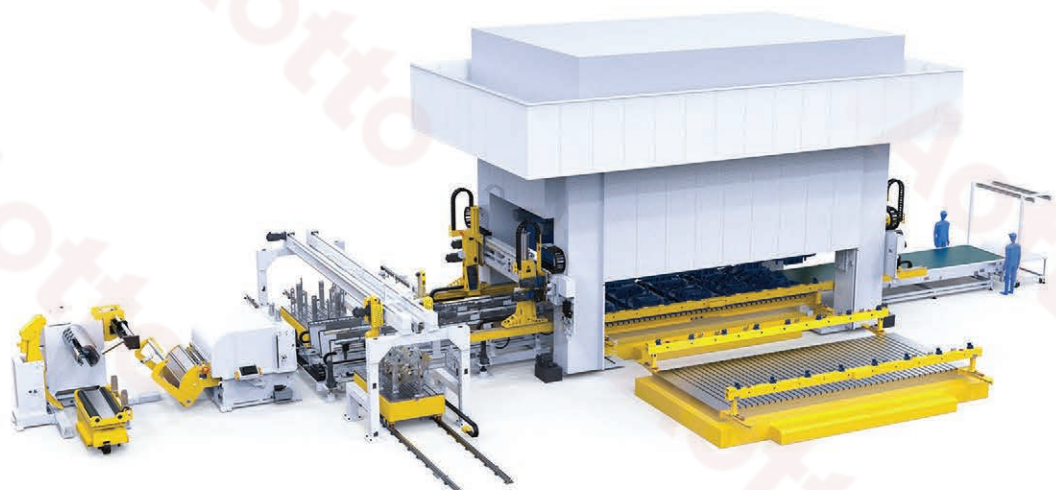
- Stamping line with 6-axis/ 7-axis robot



With embedded self-developed synchronization software and stamping speed up to 13 spm.

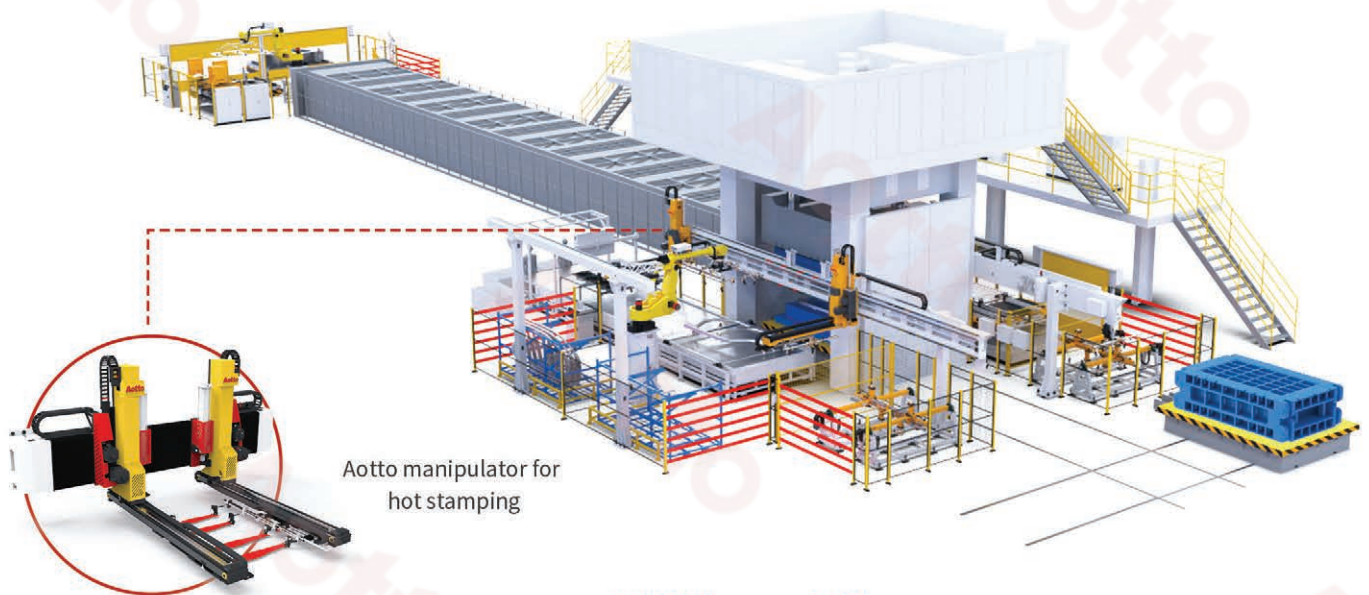
- Transfer Line

Max. 25spm.



HOT STAMPING AUTOMATION SOLUTIONS

■ Hot stamping Line with roller-hearth furnace



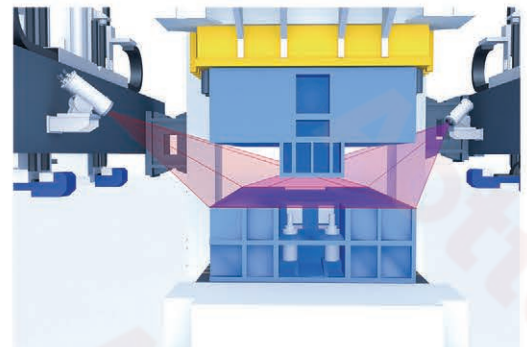
Stable annual punch times is 1,450,000 and over 110 lines supplied to customers all around the world.

■ Hot stamping line with chamber furnace



1. Each furnace cavity with independent temperature control.
2. Each furnace cavity with multi-temperature zone design.
3. The furnace cavity can be on and off according to the production capacity.
4. Easy to disassemble without affecting each other.
5. No need for circulating water to cool the oven rack.

■ Visual die protection and quality trace

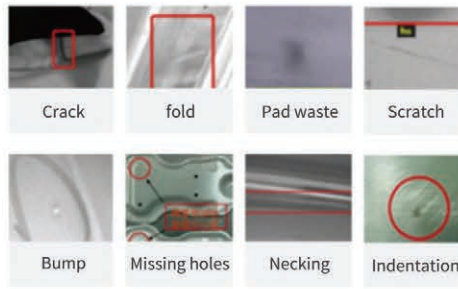


Track the temperature of blank for both pre-forming and post-forming, Monitor the forming process and raise alarm when:
1, misalignment of blanks, 2, double-blank, 3, formed parts not taken out, etc.

AUTOMATIC RACKING SOLUTION FOR STAMPING LINE

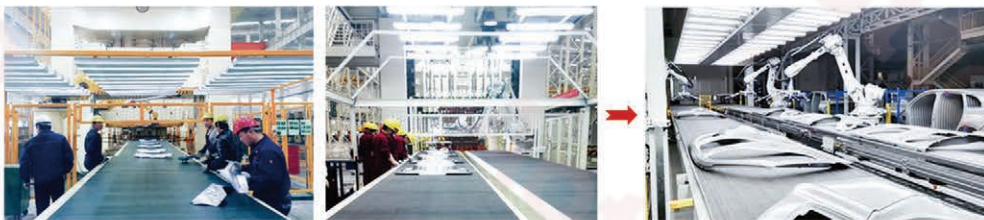


■ Quality Inspection System



- 1、Detection stability is improved by **50%**.
- 2、Probability of defective products outflow is reduced by **50%**.
- 3、Reduced personnel usage results in cost reduction.
- 4、Standardized detection improves vehicle quality.

■ Automatic racking system



Save **8 personnel** for racking,
Reduce pallet modification cost ,
product switchover within **3 min.**

■ AGV pallet handling



AGVs transport empty and full pallets for automatic racking system, replacing **4 forklift operators.**

SOLUTION FOR LASER BLANKING LINE

- Laser Blanking Line for Fine Surface Parts
- Laser Blanking Line for Hot Stamping Parts



Higher surface quality, suitable for automotive exterior parts.



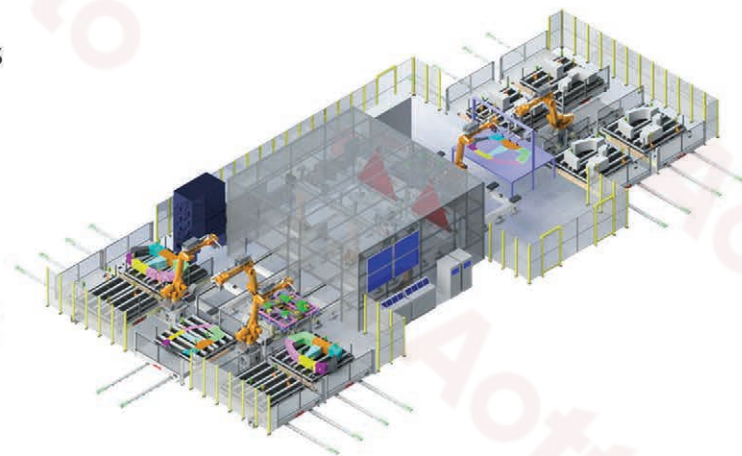
Lower investment, suitable for automotive inner parts.

Compared with press blanking line, laser blanking line more suitable for processing small batches and complex-shaped parts, no mold-related costs, with higher OEE and 10% higher plate utilization rate.

PRODUCTION LINE FOR TAILOR WELDED BLANKS

- Production line for tailor welded blanks

- 1、Automatic blank gap detection.
- 2、High accuracy for blank gap control.
- 3、Modular tooling.



INDUSTRY 4.0 SOLUTIONS FOR PRESS SHOP



- Digital Products

- 1、Hot stamping autonomous monitoring System.
- 2、Quality Inspection System.
- 3、Mold Area Foreign Object Detection System.
- 4、2D/3D Machine Vision Positioning and Guidance System.
- 5、Restricted Area AI Personnel Safety Detection System.
- 6、MES System.
- 7、EOL Scheduling System.
- 8、Predictive Maintenance & Digital Twins.

STAND-ALONE PRODUCTS



Wet Blank washer



Roll washer



Blank oiler



Bundle turnover



Electric heavy-duty vehicle

PRODUCT FRAMEWORK

Aotto

INDUSTRY 4.0 SOLUTIONS
FOR PRESS SHOP

COMPANY PRODUCTS



Multi-head laser blanking line



Laser welding equipment



Transfer Line



Tandem stamping line



Hot stamping line



Automatic Racking System for Stamping line



AGV



Tooling



Flexible barrier



Steel safety fence



Heavy duty trackless vehicle



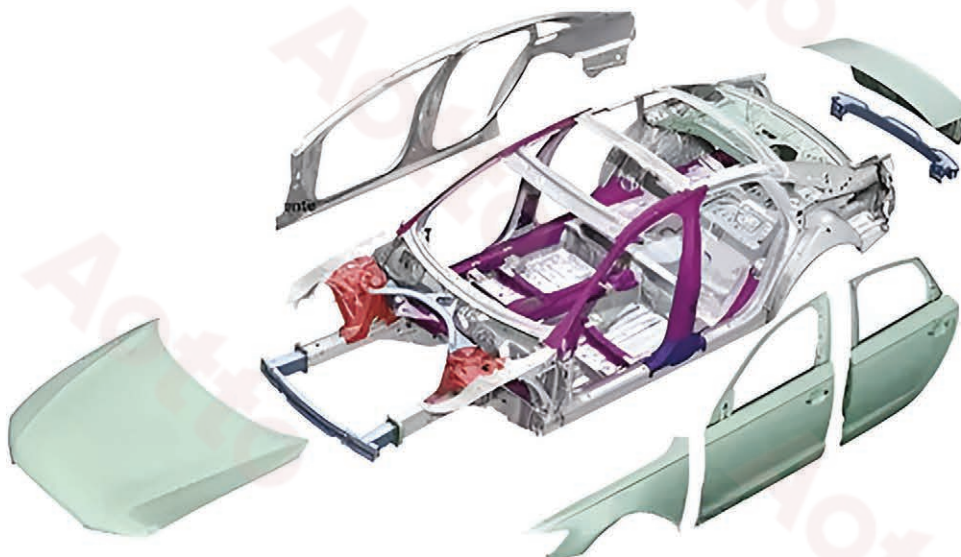
Products by tandem line



Products by Transfer line



Products by hot stamping line



SIX OVERALL SOLUTIONS FROM AOTTO

- ★ COLD STAMPING AUTOMATION SOLUTIONS
- ★ HOT STAMPING AUTOMATION SOLUTIONS
- ★ AUTOMATIC RACKING SOLUTION FOR STAMPING LINE
- ★ SOLUTION FOR LASER BLANKING LINE
- ★ PRODUCTION LINE FOR TAILOR WELDED BLANKS
- ★ INDUSTRY 4.0 SOLUTIONS FOR PRESS SHOP

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