

- GH -

CRANES & COMPONENTS

LIFTING SOLUTIONS FOR **AUTOMOTIVE INDUSTRY**

· GH ·

CRANES & COMPONENTS



001

Certificate No. E199326



DESIGNED, ENGINEERED
& 100%
MADE IN EUROPE



LIFTING YOUR WORLD

ASSEMBLERS & TIER 1,2 & 3 SUPPLIERS WORLDWIDE
HIGHEST QUALITY STANDARDS
VANGUARD TECHNOLOGY
PROCESS EFFICIENCY
RELIABILITY
SAFETY

Excellent Equipment



GH GROUP

GH is one of the global leaders in the lifting sector, which has always followed the philosophy: "science and technology should serve to enhance the civilization". The company spares no efforts to promote high technology in the lifting sector. Over the course of more than half a century, GH has developed its knowledge in the lifting sector, step by step, each time more powerfully. It is recognized as the world leading supplier of the lifting equipment, spare parts and services.



GH is a family owned company, which from the beginning sees its business' basics in safety, efficiency, reliability and environmental protection. The company preserves the integrity of all these elements into every single aspect of its products' development and manufacturing, designing user-friendly and low-maintenance equipment.

GH MISSION is to PROMOTE CUSTOMERS' EFFICIENCY & PROFITABILITY by offering TAILOR-MADE SOLUTIONS and focusing on continuous R&D and innovation, minimizing customers' operating costs and easing the negative impact of the industrial production on environment.



GH choice is to design and manufacture its products entirely in-house. The company promotes commercial components to maximize parts replacement possibility in order to mitigate end-users risks. All of the above, carries a clear message: GH purpose is to provide high quality and high value added service to enhance users' experience by guaranteeing the lowest risks and best performance in the market.

EXPERIENCE

GH skilled team, owing to the global project experience, meets the requirements of assemblers and tier 1, 2 & 3 suppliers.

INTEGRAL SOLUTIONS

From the design stage GH offers its customers tailor-made solutions. The company is ABLE TO SUPPLY ALL THE CRANES WORKING IN THE TYPICAL INSTALLATIONS OF THE SECTOR. The solutions are integrated with the complete process required by customers.



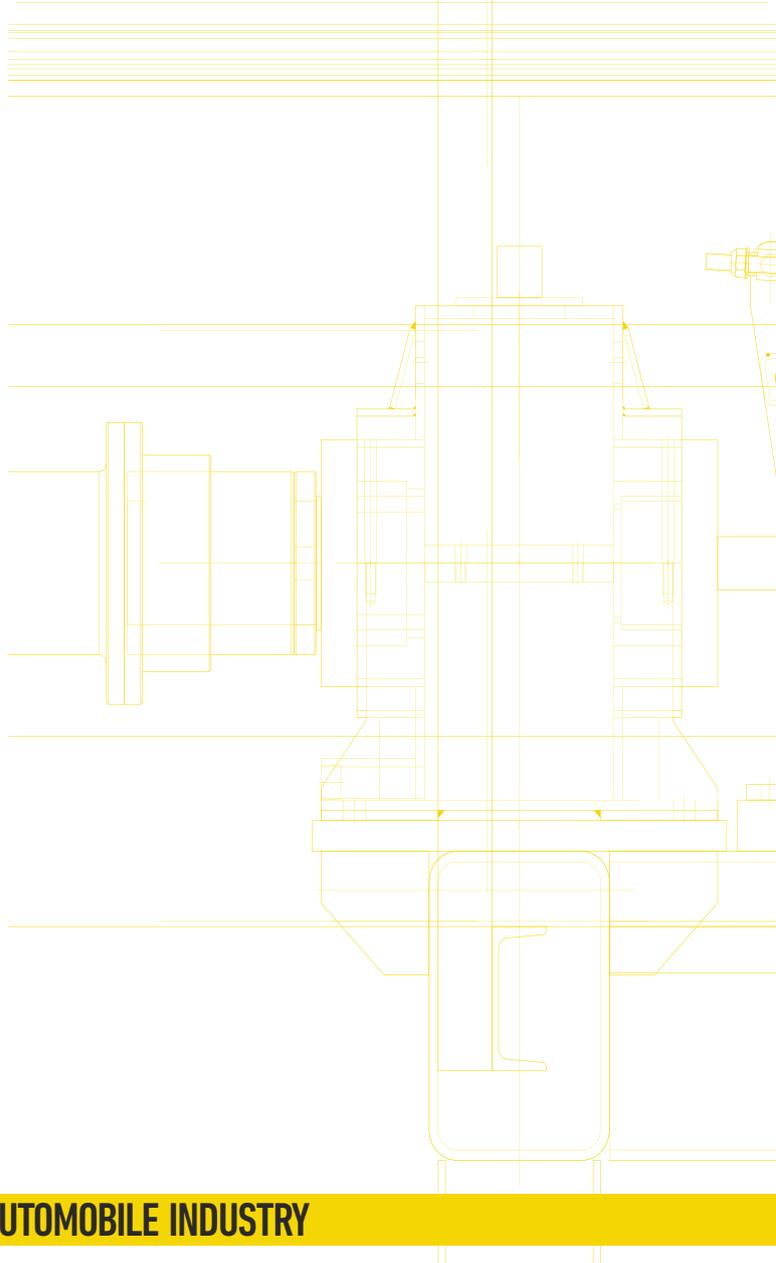
PROCESS EFFICIENCY

The automotive industry uses various processes as stamping and pressing car parts in order to assemble them later on. GH products and services ensure an optimal process. Customers in this demanding sector have one priority: EFFICIENCY. GH provides tailor-made solutions, specially prepared to fulfill customers' process needs. The use of GH complete key solutions prolongs the cranes' working period.

EFFICIENCY FOCUSED SOLUTIONS

The automotive industry has been one of the main industrial sectors in which GH solutions have met its demanding needs of customers effectively. Our experience in the sector allows us to offer our clients efficient improvement of all types of processes.

GH wide range of lifting solutions delivers big savings in construction costs (side approaches) permits our clients to work in separate work stations (wall running cranes, jib cranes, transfer carts etc.) and shorter working cycles (PLCs driven automatic and semi-automatic cranes).



MAIN ADVANTAGES OF AVAILABLE SOLUTIONS FOR AUTOMOBILE INDUSTRY

• **Semi-automatic and Fully automatic cranes:** PLC controlled cranes ensuring needed shortened working cycles, target positioning avoiding manual controlled inefficiencies and including electronic anti-sway system.

• **Wide range of speeds available:** high lifting speeds (up to 15m/min in STD hoists) and long travel speeds (up to 100-120 m/min) to cover long distances in warehouses. Micro speeds (incremental) for precise positioning

• **Zone restriction:** Protected areas kept safe, eliminating human errors and avoiding damages in your equipment or injuries to your staff.

• **Synchronization in hoisting:** Closed loop controlled (encoder) avoiding load slipping and ensuring a precise and safe loading when using 2 or more lifting points.

• **Load limit device as standard:**

- Black box - lifting device loading spectrum and overloads record
- Safety working period (SWP) control
- Alarm activation for preventive inspections
- Lifting motor over temperature control input/connection.
- Control of smooth start and stop of lifting movement, avoiding abrupt movements and increasing life of motor and brakes.

• Remote controls including informative display showing black box info and ergonomic design.



STAMPING PLANT CRANES SOLUTIONS VERSATILITY

HYUNDAI HYSCO (Russia) improved its efficiency and safety in managing its coils warehouse adopting the solution proposed by GH, in which the combination of semi-automatic cranes with rail running transfer carts the working cycle was improved around 20% comparing to manual operation.

At the same time the safety has extremely improved.

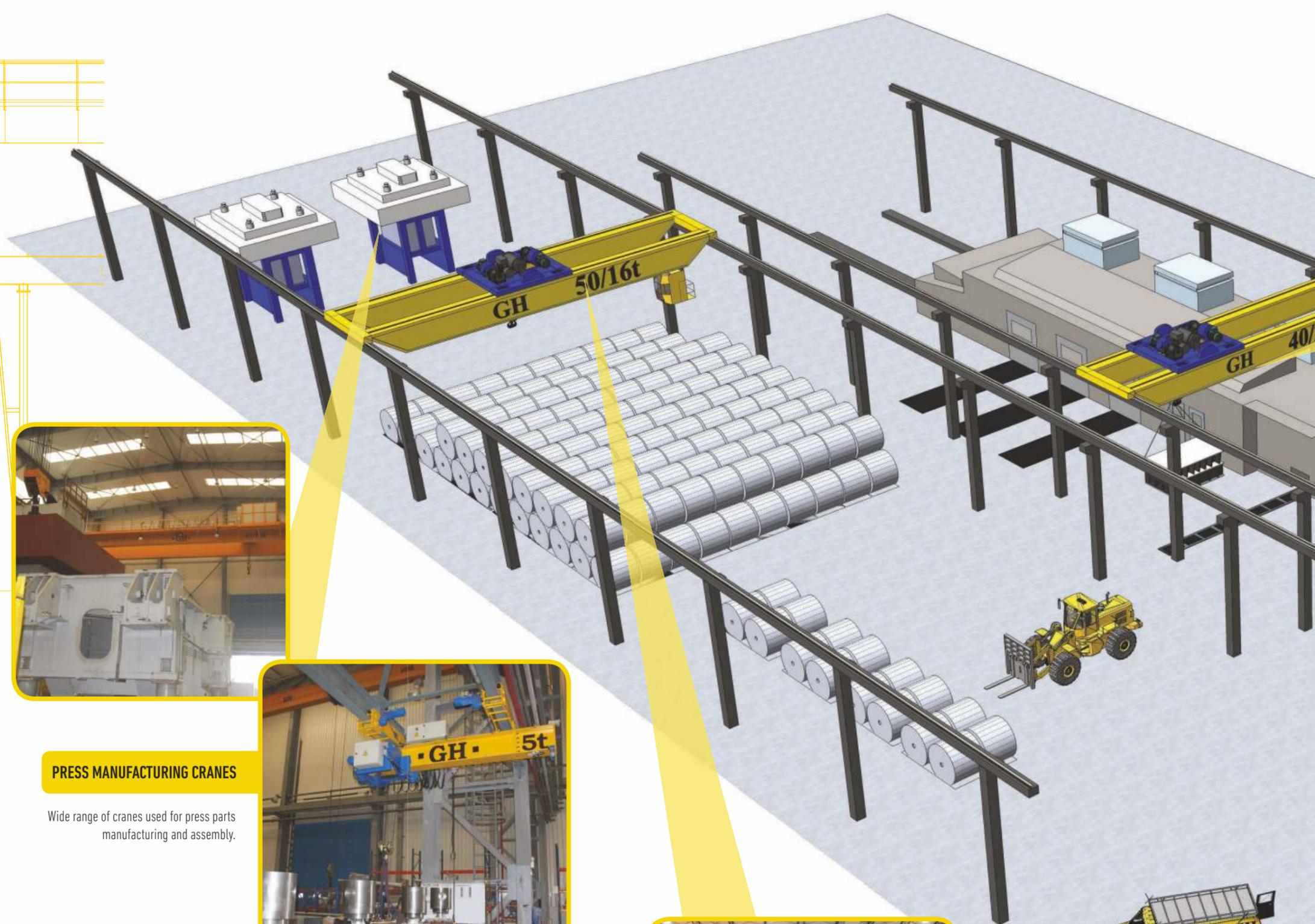
It is important to remark that GH can propose their own tooling or adapt to any tools existent or proposed by our clients, easing the collaboration with our clients.

AUTOMOTIVE INDUSTRY CRANES

GH

YOUR PARTNER

GH is aware of the importance of the operational functioning of cranes. Layout of handling areas, other cranes and complete working cycle are key elements taken into account by GH sales team and expert engineers. GH offer includes automated cranes equipped with high technology components to maximize the profit of customers.



PRESS MANUFACTURING CRANES

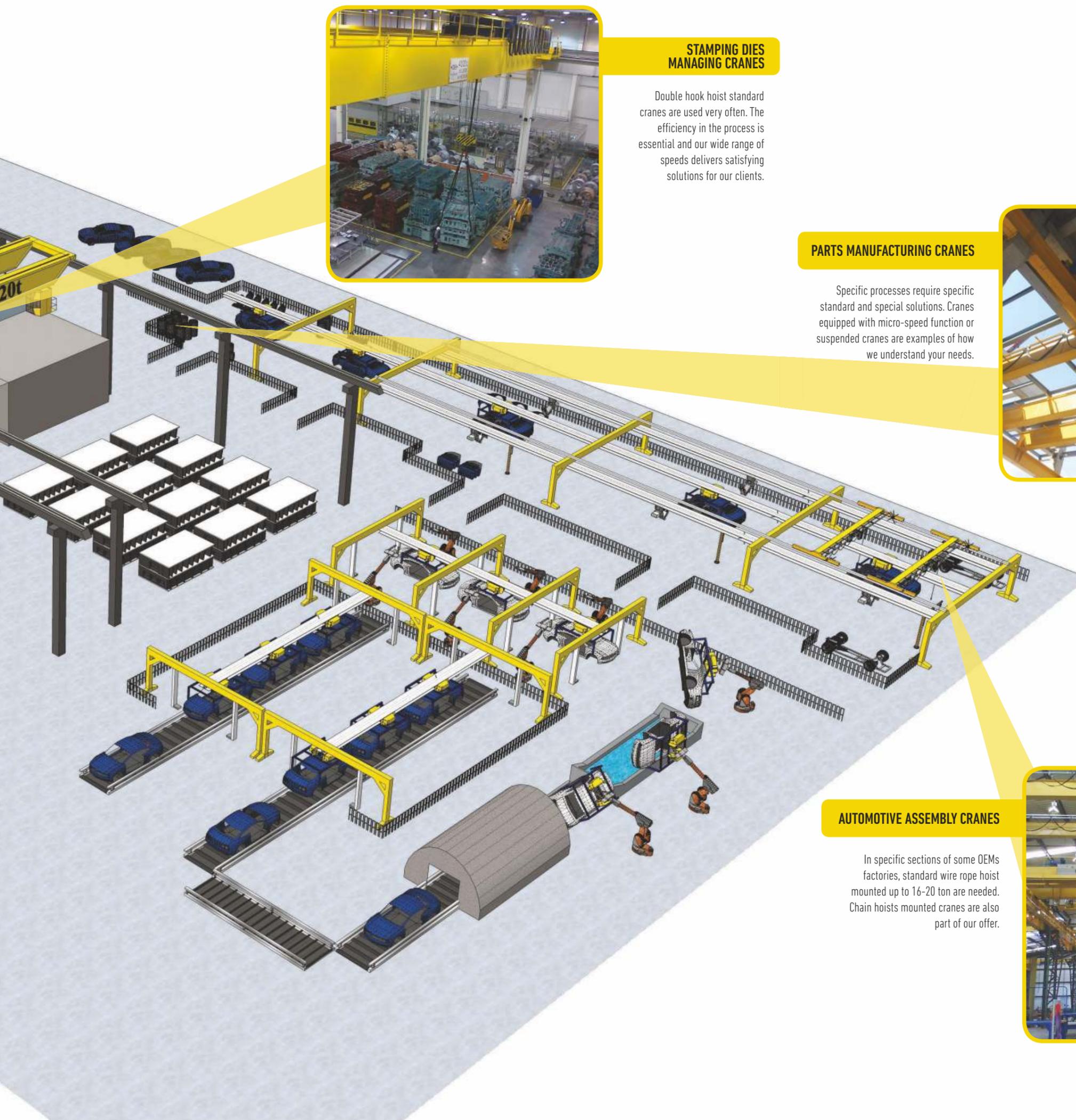
Wide range of cranes used for press parts manufacturing and assembly.



COIL WAREHOUSE CRANES

Standard hoist mounted cranes with the needed options such as semi-automatic operation. Suitable tools for coils handling.





**STAMPING DIES
MANAGING CRANES**



Double hook hoist standard cranes are used very often. The efficiency in the process is essential and our wide range of speeds delivers satisfying solutions for our clients.

PARTS MANUFACTURING CRANES

Specific processes require specific standard and special solutions. Cranes equipped with micro-speed function or suspended cranes are examples of how we understand your needs.



AUTOMOTIVE ASSEMBLY CRANES

In specific sections of some OEMs factories, standard wire rope hoist mounted up to 16-20 ton are needed. Chain hoists mounted cranes are also part of our offer.



**TYPICAL
INSTALLATIONS**

**PRESS MANUFACTURING
PLANTS' CRANES (TIER 2-3)**

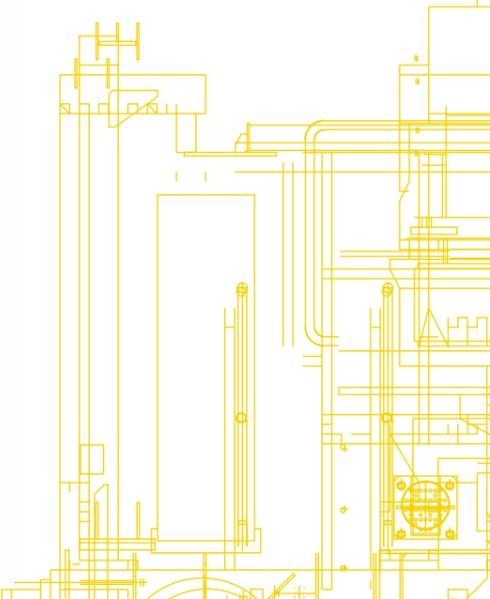
Press parts manufacturing cranes
Press assembly cranes

**PARTS MANUFACTURING
PLANTS' CRANES (TIER 1-2)**

Automatic hoist mounted cranes 'service hoists
Open winch mounted cranes

**AUTOMOTIVE ASSEMBLY
PLANTS' CRANES (OEMS)**

Coil warehouse managing cranes (also Tier 1)
Stamping dies managing cranes (also Tier 1)
Automotive assembly cranes





SHENYANG (CHINA)

GESTAMP



KUNSHAN (CHINA)

FAGOR ARRASATE



BARCELONA (SPAIN)

SEAT



INGOLSTADT (GERMANY)

AUDI



ST. PETERSBURG

HYUNDAI MOTOR

Experience



SAO PAULO (BRASIL)

HYUNDAI



SAO PAULO (BRASIL)

VOLVO



KIROV (RUSSIA)

PIRELLI



ST. PETERSBURG (RUSSIA)

HYUNDAI HYSKO



WRZESNIA (POLAND)

GESTAMP



RELIABILITY

GH cranes are known for their durability and reliability, which are the most important factors in any industry, especially when dealing with process cranes such as the ones installed in the automotive industry. The whole process depends mainly on those cranes and only the best performance can be acceptable.

SERVICE

Service and maintenance are very important issues in GH operational strategy. A crane should be inspected and maintained before any problem occurs in order to avoid downtimes and to reduce the impact of operating costs on customers' profits. GH creates the best designs and delivers products of the highest quality. GH requirements concerning additional options, reduction of maintenance cost and extension of working period of a crane are higher than those of competitors.

SAFETY

GH is not only concerned about safety of the lifting equipment and the load handled, but also committed to improve the safety performance of the entire production system.



INTERNATIONAL REFERENCES LOCATION



GH

CRANES & COMPONENTS

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