



HUAYU AluTech



LIGHTWEIGHT

BUSINESS UNIT GLOBAL CASTINGS
WELCOME TO THE WORLD OF ALUMINUM
AND PREMIUM LIGHTWEIGHT SOLUTIONS.

OUR **HEART** BEATS FOR YOUR ENGINE.





BUSINESS UNIT GLOBAL CASTINGS AT A GLANCE



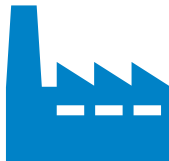
~ 961 MIO €
turnover



~ 4,300
workforce



9 LOCATIONS
on 2 continents



~ 190,000
t/a aluminum



~ 14,800,000
parts p. a.

ABOUT BUSINESS UNIT GLOBAL CASTINGS

The Business Unit Global Castings is a global Joint-Venture between Rheinmetall Automotive and HUAYU Automotive Systems Co., Ltd. (HASCO), a subsidiary of the Chinese SAIC Group. Global Castings is formed by the two major locations KS HUAYU AluTech GmbH in Europe and Kolbenschmidt Pierburg Shanghai Nonferrous Components Co., Ltd. (KPSNC) in China. Both partners each hold a 50 % stake in the joint ventures.

The Business Unit Global Castings is a leading manufacturer of aluminum lightweight components with production sites in Germany and China. Our product portfolio includes cylinder blocks, structural components, transmission parts and E-mobility components. We provide high pressure die casting, low pressure die casting, low pressure sand casting and gravity die casting technologies as well as value-adding services, such as finish-machining, surface coating and assembly.

OUR PRODUCT PORTFOLIO BASED ON HIGH AND LOW PRESSURE CASTING

The Business Unit Global Castings develops, produces and markets customer-specific solutions for aluminum lightweight components. Our products ensure reliability, the reduction of weight and the reduction of components in total due to the use of aluminum casting technologies.

The product portfolio contains the following components and systems in the area of drive trains and body-in-white parts:

- Cylinder blocks and Cylinder Heads, Bedplates
- Structural components
- Transmission parts
- E-mobility components

PASSENGER CAR PORTFOLIO



Light-weight engineering is of growing importance for commercial vehicles. Our expertise and production equipment makes us an ideal supplier for solutions of tomorrow.

TRUCK PORTFOLIO



Structural Components



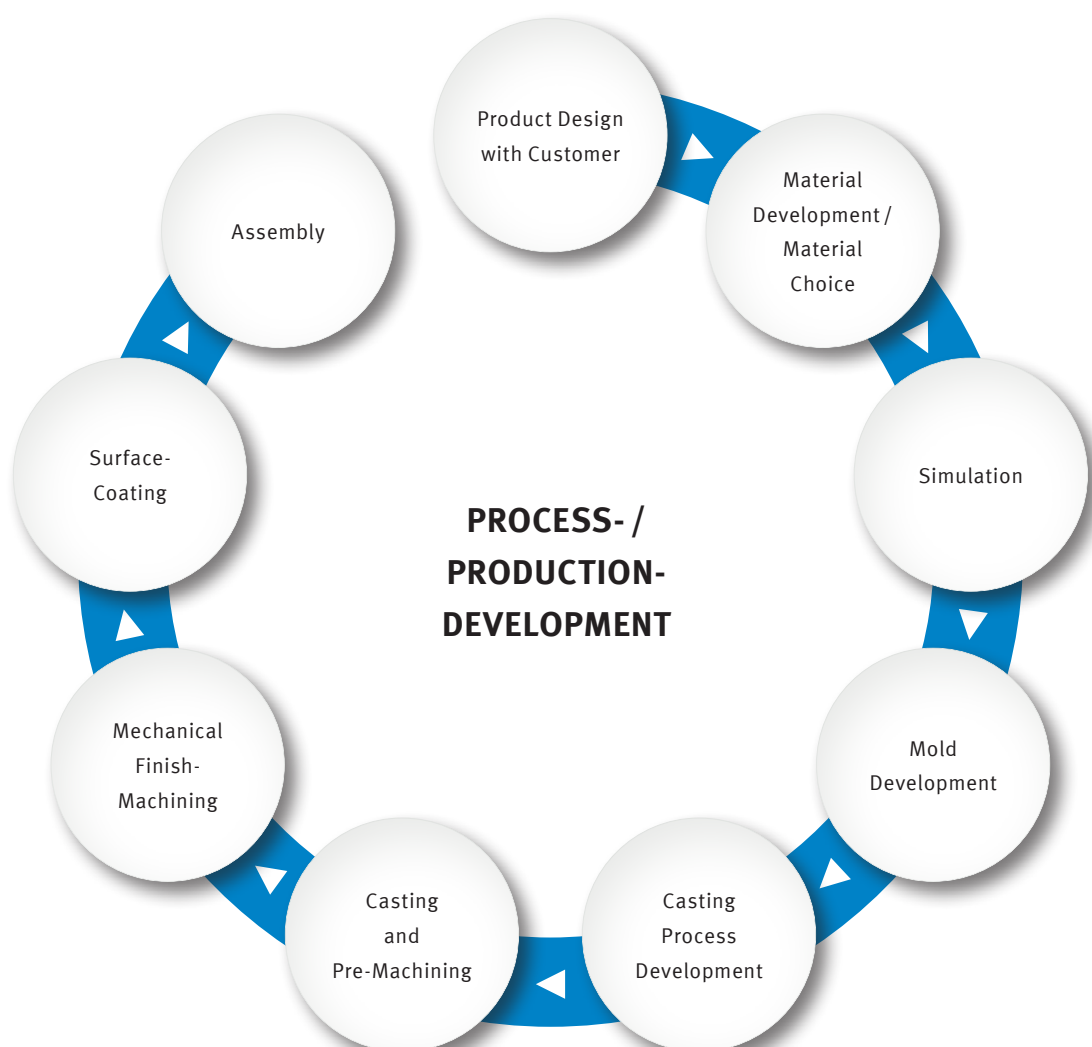
Transmission Parts



E-mobility Components

CORE COMPETENCIES IN HIGH AND LOW PRESSURE CASTING

As development partner of leading car manufacturers, we develop and produce lightweight components and systems from sketch to prototypes to finish-machined surface-coated and assembled casting parts or moduls.



OUR GLOBAL FOOTPRINT



GERMANY

- KS HUAYU AluTech GmbH, Neckarsulm
- KS HUAYU Bearbeitungs GmbH, Langenhagen
- Werkzeugbau Walldürn GmbH, Walldürn

CHINA

- KPSNC Co. Ltd., Loutang, Shanghai
- KPSNC (Kunshan) Co. Ltd., Kunshan
- KPSNC (Anting) Co. Ltd., Shanghai
- KPSNC (Yantai) Co. Ltd., Yantai
- KPSNC (Guangde) Co. Ltd., Guangde
- Fervent Co. Ltd., Shanghai

OUR SOLUTIONS FOR YOUR NEEDS



Cylinder Block, Bedplate,
Cylinder Head



Structural Components,
Suspension Parts & Transmission Parts



E-Mobility
Components



Casting, Finish Machining,
Surface-Coating & Assembly



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26 September 2023

Rheinmetall wins new lightweight automotive engineering orders in triple-digit million-euro range

The Castings business unit of Rheinmetall's Materials and Trade division has booked two new orders. The first order comes from one of the top ten global automakers, a company, headquartered in Shanghai, whose product portfolio includes vehicles powered by internal combustion engines, hybrid models and fully fledged e-vehicles. A joint venture of the same company placed the second order. The nominations are for cylinder heads and battery trays, respectively, including several million units of the former and nearly a million of the latter. The cylinder head order is worth a figure in the lower three-digit million-euro range, while the battery trays represent sales in the lower two-digit million-euro zone.

Both components will be produced in China. The battery trays will be used in the automaker's new battery box. Production starts in 2025 and is set to run for seven years. Rheinmetall's Castings unit has longstanding experience in producing highly complex, sophisticated aluminium cast parts; and the successful nomination of its industrialization and production services continues the expansion into components for e-mobility. Crash- and certification-relevant aluminium cast parts must meet the most stringent safety requirements, which in turn imposes high requirements for the casting process and subsequent processing. High strength, absolute imperviousness to moisture and grime coupled with narrow tolerances and strong resistance to corrosion must be guaranteed in order to assure long-term safety and functionality in a high-voltage operating environment.

Starting in 2023 and for a period of four years, the cylinder heads will be produced in a gravity casting process and installed in hybrid vehicles.

Winning these orders highlights once again Rheinmetall's status as a competent partner of the global automotive industry, whose comprehensive expertise extends beyond modern electric vehicles to hybrid models as well.

HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) will carry out both orders in China. The company is a global joint venture co-owned by Rheinmetall and HUAYU Automotive Systems Co., Ltd. (HASCO), a subsidiary of China's SAIC Motor group. Rheinmetall AG's Castings business unit consists of two large companies: KS HUAYU AluTech GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and HASCO each hold a 50 percent stake in the joint ventures.

► Key facts

- Rheinmetall wins new lightweight automotive engineering orders
- Aggregate order value in the three-digit million-euro range
- Battery trays and cylinder heads for e-vehicles and hybrid models ordered
- Orders underscore the high-tech enterprise's expertise in producing sophisticated, highly complex aluminium cast parts

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23 August 2023

Rheinmetall wins another new order for engine blocks: “last man standing” strategy in internal combustion engine sector pays off

The technology enterprise Rheinmetall has won a new order in the internal combustion engine sector, vindicating its “last man standing” strategy. Placed by an alliance of two globally active, well-known automakers, the order encompasses several hundred thousand engines blocks worth a figure in the mid-double-digit million-euro range.

The part ordered is a 4-cylinder engine block produced in a high pressure die casting process. Starting in autumn of this year, the cast parts will be produced and pre-machined at Rheinmetall’s plant in Neckarsulm for a period of four years. The customer will be responsible for final processing and assembly. The companies here have a long-established working relationship in the high pressure die casting engine block domain, meaning that follow-up orders can be expected in future.

Rheinmetall’s “last man standing” strategy, in which the Group continues to take advantage of existing sales potential in the internal combustion engine sector, proved to be a competitive advantage in the tender. In winning the order, Rheinmetall will be able to make optimum use of existing production capacity. Moreover, the order underscores the Group’s expertise as a competent partner of the global auto industry – and not just for modern electric vehicles but also for hybrid models, which, especially for short distance trips, reduce petrol consumption and therefore CO₂ emissions, reducing pressure on the environment and climate.

In parallel, Rheinmetall has recorded a growing number of orders for components and systems for modern, environmentally friendly e-mobility. These orders highlight the Group’s important role in the automotive industry’s ongoing transformation to complete e-mobility.

KS HUAYU AluTech GmbH will carry out the project in Neckarsulm, Germany. The company is a joint venture co-owned by Rheinmetall and HUAYU Automotive Systems Co., Ltd. (HASCO), a subsidiary of China’s SAIC Group. Castings business unit Rheinmetall AG’s division Materials and Trade consists of two large companies: KS HUAYU AluTech GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and HASCO each hold a 50 percent stake in the joint venture.

► Key facts



- Rheinmetall wins another new order for engine blocks
- Order worth a figure in the mid-double-digit million-euro range
- Group’s “last man standing” strategy a competitive advantage
- Long-established working relationship with globally operating customers

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04 April 2023

Rheinmetall's e-mobility business continues to grow – over €100 million in new orders

Rheinmetall's Materials and Trade division has won three new orders for structural parts destined for e-mobility vehicles. Each new incoming order marks a further milestone in the Group's transformation toward future-proof, environmentally friendly forms of mobility and away from the internal combustion engine.

The orders, booked by the division's Castings unit, are each worth a figure in the double-digit million-euro range. Production of the components is set to begin in 2024. Rheinmetall will be producing left- and righthand shock absorber mounting sets for Geely, as well as front shock absorber mountings in sets for Jidu Auto, a new automaker. Awarded by a well-known carmaker, the third and largest of the three orders encompasses sets consisting of two front shock absorber mountings and two side members for the right- and lefthand side of the vehicles.

Rheinmetall will be supplying nearly 200,000 of the sets consisting of front shock absorber mountings and the two side members. The two side members are large casting parts with a casting weight of over 50 kilos. The sets are earmarked for the customer's first fully electric minivan. Prior to the current order, the customer had already contracted with the division to supply the associated subframes, which are produced using the low-pressure casting method. This shows how Rheinmetall products are able to win over automakers, resulting in important follow-up orders.

The second-largest order for shock absorber mountings comes from a new e-vehicle maker called Jidu, a joint venture of the Chinese search engine operator Baidu and Geely, a major Chinese automobile and motorcycle maker. Jidu's development portfolio includes not just electrically powered vehicles, but also vehicles that operate autonomously. It is the Rheinmetall division's first order from this manufacturer.

Geely, which among other companies owns Volvo, has ordered just under 200,000 shock absorber mountings. The automaker is pursuing a rapid transition to electric mobility.

Rheinmetall is an expert in the world of lightweight engineering, producing, among other things, structural parts for chassis and frames for established and innovative new carmakers alike. Each new order documents the Düsseldorf-based tech enterprise's successful transition into a source of modern, environmentally sustainable drive technologies for the automotive industry.

The Castings business unit is a globe-spanning joint venture of Rheinmetall and HUAYU Automotive Systems Co. Ltd. (HASCO), a subsidiary of China's SAIC group. Castings consists of two large companies: KS HUAYU AluTech GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and SAIC each hold a 50 percent stake in the joint venture.

► Key facts



- Rheinmetall wins new orders worth over €100 million in the e-mobility sector
- Customers include established manufacturers as well as a new player
- Fresh progress in the transformation to modern, environmentally friendly drive technologies

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12 April 2023

Rheinmetall books double-digit million-euro order for hybrid vehicle engine blocks

The Materials and Trade division of the tech enterprise Rheinmetall has booked a new order to produce engine blocks for a hybrid vehicle. The order, worth a figure in the mid-double-digit million-euro range, encompasses over 500,000 units.

To win the order, the division's Castings business unit had to overcome rival bids from global competitors. Production is set to begin in China in 2024, where the order will result in optimum utilization of existing capacity. The parts will be produced using gravity casting. The customer is Shanghai Automotive Industry Corporation (SAIC), China's largest maker of automobiles, motorcycles and car parts. SAIC covers the complete spectrum of drive technology, including vehicles with internal combustion engines, hybrid models and vehicles that are powered entirely by electricity.

A leading producer of lightweight aluminium parts, the Castings business unit has production facilities in both Germany and China. Its product portfolio encompasses engine blocks and cylinder heads, structural parts, transmission and chassis components, as well as special e-mobility solutions.

This important order underscores once again Rheinmetall's expertise as a highly competent partner of the global automotive industry, not only for modern e-vehicles, but also for hybrid systems that result in lower petrol consumption especially when traveling short distances, leading in turn to lower CO₂ emissions and thus benefitting the environment.

Rheinmetall is now booking a growing number of orders for components and systems for modern, environmentally friendly mobility. Each new order marks another milestone on the Group's path to successfully tackling the challenges facing the industry as it moves to complete e-mobility.

The Castings business unit is a globe-spanning joint venture of Rheinmetall and HUAYU Automotive Systems Co. Ltd. (HASCO), a subsidiary of China's SAIC group. Castings consists of two large companies: KS HUAYU AluTech GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and SAIC each hold a 50 percent stake in the joint venture.

► Key facts



- Rheinmetall books new order for over 500,000 engine blocks for hybrid vehicles
- Order is worth a figure in the mid-double-digit million-euro range
- The customer is SAIC, China's largest automaker
- Production begins in China in 2024, with optimum utilization of existing manufacturing capacity

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09 March 2023

Rheinmetall extends international cooperation agreement for an advanced engine block; first production order in hand

Rheinmetall is supplying its expertise in the world of mobility to provide initial support for producing a state-of-the-art engine block in Uzbekistan for a globally active American original equipment manufacturer. Under a cooperation agreement, the first 100,000 units of this three-cylinder engine block will be manufactured by the Group's Castings business unit in Neckarsulm, Germany, and shipped to Uzbekistan. The order is worth a figure in the lower two-digit million-euro range. Once the phase of providing initial support is complete, serial production of the engine blocks will start in Uzbekistan.

For the first time, the Düsseldorf-based technology group is cooperating with a company from Uzbekistan. The project is slated to get underway this year. Serial production of the engine blocks in Uzbekistan will use a cutting-edge pressure casting technique. Afterwards, the engines will be assembled on location in Uzbekistan.

Recently signed, the agreement came in the wake of intensive talks between the two cooperation partners as well as reciprocal site visits. Rheinmetall's partner in Uzbekistan is specialized in the production of key engine components, such as crank shafts, engine blocks and cylinder heads. The company already operates an aluminium cylinder head foundry in Central Asia. By taking part in this project, Rheinmetall's Castings business unit, which belongs to the Group's Materials and Trade division, is not only contributing to Uzbekistan's economic development, but also helping to cut global emissions of greenhouse gases harmful to the climate.

Among other things, the prime motors for which the 3-cylinder engine blocks were developed feature low fuel consumption. Having a new customer in Uzbekistan not only adds to Rheinmetall's list of clients. It also offers the chance for expanded cooperation in the manufacture of advanced engine blocks in future.

Both cooperation partners attach great importance to sustainability. Rheinmetall aims to be climate-neutral by 2035 and is increasingly booking orders in emission reduction realm, while the Group's ISO-certified Uzbek partner has installed a wastewater treatment facility that enables it to process wastewater on its own to a significant extent.

The Castings business unit is an international joint venture co-owned by Rheinmetall and HUAYU Automotive Systems Co., Ltd. (HASCO), a subsidiary of China's SAIC group. Castings consists of two major companies: KS HUAYU AluTech

► Key facts

- International cooperation leads to first production order
- Rheinmetall's partner is a manufacturer of engine components in Uzbekistan with unique selling points
- First order for engine blocks awarded through an American OEM
- Order opens the door to expanded production in future

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GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and SAIC each hold a 50 percent stake in the joint venture.

Rheinmetall's new partner is one of the leading companies of Uzbekistan, a country whose economy has been developing along very positive lines in recent years. Although it ranks among the world's top emitters due to its fossil fuel-intensive energy mix, Uzbekistan has demonstrated its commitment to sustainability by signing the Paris Climate Agreement and has introduced a series of important reforms aimed improving the climate for domestic and foreign investment.

03 March 2023

Rheinmetall announces first order for e-truck parts: new contract in the lower double-digit million-euro range

Rheinmetall's Castings business unit recently booked a new order from a well-known truck manufacturer for gearboxes. The order is worth a figure in the lower-two-digit million-euro range. Production will begin in the first quarter of 2026 and will initially run for five years. However, Rheinmetall and the truck manufacturer have agreed to a total project lifetime of over 15 years, so that future follow-up orders are expected. In winning the order, Rheinmetall successfully overcame rival bids from two competitors in the low-pressure casting sector.

The gearboxes will be supplied as fully machined components. This will result in synergies for the Group, since casting will take place at its plant in Neckarsulm and final machining at its Langenhagen facility. This solution assures optimum utilization of capacity at both production sites. The gearboxes are highly sophisticated casting products specifically designed for use in e-trucks.

For Rheinmetall, winning its first order for e-truck parts is highly significant. The e-truck is still at an early stage of development, with the ongoing transformation to advanced, more environmentally friendly drive technologies offering serious potential for growth. The order gives Rheinmetall the chance to apply and expand its expertise in the field of e-mobility and to take part in this growth market practically right from the outset. In cooperating with a longstanding truck producer, the Group aims to jointly develop and introduce the component Europe-wide, increasing the likelihood of additional orders.

Winning this contract underscores Rheinmetall's reputation as a reliable partner of the global automotive industry, both in established and new, high-growth domains.

One of the world's foremost makers and development partners for basic engine system components, the Castings business unit belongs to the Group's Materials and Trade division. Its product portfolio encompasses engine blocks, structural components, transmission parts, and e-mobility components. The unit offers low- and high-pressure as well as sand and permanent mould casting. Its range of services also includes final machining and processing, surface coating and assembly.

In securing this order for components and systems for modern, environmentally friendly mobility, Rheinmetall is helping to speed the industry's successful transformation to total e-mobility—and not just for cars but also for trucks.

The Castings business unit is jointly owned by Rheinmetall and HUAYU Automotive Systems Co., Ltd. (HASCO), a subsidiary of China's SAIC group. Castings consists of two major companies: KS HUAYU AluTech GmbH in Europe and HASCO KSPG Nonferrous Components (Shanghai) Co., Ltd. (KPSNC) in China. Rheinmetall and SAIC each hold 50 percent stake in the joint venture.

► Key facts



- Rheinmetall announces first order in the emerging market for e-truck parts
- Order worth a figure in the lower-two-digit million-euro range
- Production to take place at Group plants in Neckarsulm and Langenhagen
- Good prospects for follow-up orders
- Market segment at the beginning of the growth cycle

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