

# *“Market Overview Giga Casting and Giga Presses in the Automotive Industry”*

Information compiled by anp management consulting GmbH, Essen, Germany

Last update: Essen, 8<sup>th</sup> of January 2024




The global market for EV chassis integrated die-casting is projected to be worth \$2.6 billion by 2030, from \$751 million currently.

*Source: Minsheng Securities*

The global aluminium die casting market was worth almost \$73 billion last year and is projected to top \$126 billion by 2032, according to an AlixPartners analysis based on Apollo Reports data.

*Source: Apollo Reports*

## 2023 / 2024

- An OL 6.100 t Giga Press with the Ford brand printed on it, had been assembled and was being tested in IDRA's plant in Travalgiato, Italy.
  - LK Technology together with IDRA Group, held a signing ceremony with Nezha Motors, where both parties reached a deep strategic cooperation on the joint development of a 20.000 tons Giga Press. The goal is to produce the entire chassis in one shot.
  - LK Machinery before has unveiled their massive 16,000-ton Giga Press
- 
- Subaru has announced interest in Gigacasting technology. Nothing confirmed though so far.
  - The new Linamar facility in Welland, Ont., will be the first North American auto parts supplier-owned and operated gigacasting plant.
  - Works on Volvo's new Slovakian factory have begun. The plant will adopt Giga Press technology. In particular, two OL 9,000 made by IDRA will be installed at the plant to make Volvo's next. generation EVs.

## How much does a Giga Press cost in China?

- 6,000 ton ~ € 6,000,000 (DCC 6000 Impress Plus L.K.)
- 9,000 ton ~ €10,500,000 (estimation)
- 12,000 ton > €14,500,000
- 16,000 ton ~ € 20,000,000 (estimation)
- The die casting peripheral equipment costs are about € 8 mio.
- The logistic costs of a Giga Press from IDRA are approx. 10-15% of the value of the machine.
- The tooling costs are one of the largest contributors to the part price. Gigacastings rely on AlSi7CuMg for Tesla or AlSi7MnMg for OEMs like Volkswagen or Volvo.
- At the same time, the gross win rate of large die casting machines is 10-15 points higher than that of ordinary die casting machines, and the net win rate is between 15-20%.

*Sources: 6,000 ton: LK Machinery, 12,000 ton: Horizon Insights*

**For OEM Giga Presses it can be generally estimated an annual production of about 120,000 parts for these components, depending on the plant sizes.**

- This figure p.a. is variable:
  - The thickness of the components is crucial; thinner parts solidify faster than thicker ones.
  - The component's shape is also significant.
- Each part takes about two minutes to produce.
- Considering all the changeover times and full plant availability, this leads to the mentioned parts number.
- A vehicle manufacturer targeting an annual production of 500,000 BEVs - with a part for the rear – would require four to five Giga Presses.
- If they also want parts for the car's front, they'd need to double number of machines.
- Each press can of course produce various components by switching the moulds.

**Currently the market is dominated by Asian Supplies, considering that IDRA is owned by L.K. Holdings.**

- Bühler, Switzerland ([LINK](#))
- Chongqing Daijang Millison Die Casting Co. Ltd. ([LINK](#))
- Guangdong Hongtu Technology (Holdings) Co. Ltd. ([LINK](#))
- Haitian Die Casting ([LINK](#))
- IDRA (owned by Chinese L. K. Technology Holdings Ltd.), Italy ([LINK](#))  
IDRA has so far signed orders for 25 presses, 21 of which have already been produced and shipped, including to leading "Tier 1" parts makers.
- ItalPresseGauss ([LINK](#))
- L. K. Technology Holdings Ltd. ([LINK](#))
- Ningbo Haitian Precision Machinery Co., Ltd., China ([LINK](#))
- Shibaura Machine, Japan ([LINK](#))
- Ube Machinery Corporation Ltd., Japan ([LINK](#))
- Yizumi, China ([LINK](#))



# Japanese auto supplier Aisin said Sept. 2023 that it will start using "gigacasting to produce aluminum components for electric vehicles.

## Press research

- AISIN to invest \$3.4B over next three years in BEV and intelligence products; move to gigacasting.
- The supplier intends to revamp its product portfolio, and will establish BEV products, safe and comfortable entry, and braking systems as growth areas.

### Additional Information:

- Aisin aims to achieve sales in the order of US\$37.2-40.6 billion by 2030.
- Major initiatives in the BEV area will include: eAxles and braking systems.
- AISIN has been planning and conceptualizing functionally integrated body components using "Gigacasting" to reduce the number of components.





## Bühler announced the order of four Carat 610 extended megacasting solutions from one of the largest OEMs for their US operations.

### Press research

- **Handtmann**, the largest family-run light metal foundry in Europe, is the first Tier 1 that has invested a mid-double-digit million amount in Megacasting.
- The investments include both an optimized infrastructure and the acquisition of a Bühler Carat 610 extended at the technology site in Biberach.

### Additional Information:

- The acquisition of a Carat 610 extended with 61,000 kN clamping force and a shot weight of up to 128 kg of aluminium will enable the production of ever larger structural parts, such as large battery housings for EVs or megacastings, such as the complete rear or front underbody.
- The Carat 840 die-casting machines provide 8,400 tons locking force and are capable to inject over 200 kilograms of liquid aluminum into a mold, producing a new component for an automobile within less than two minutes. 120 trucks are necessary to transport the machine on the road to the client.



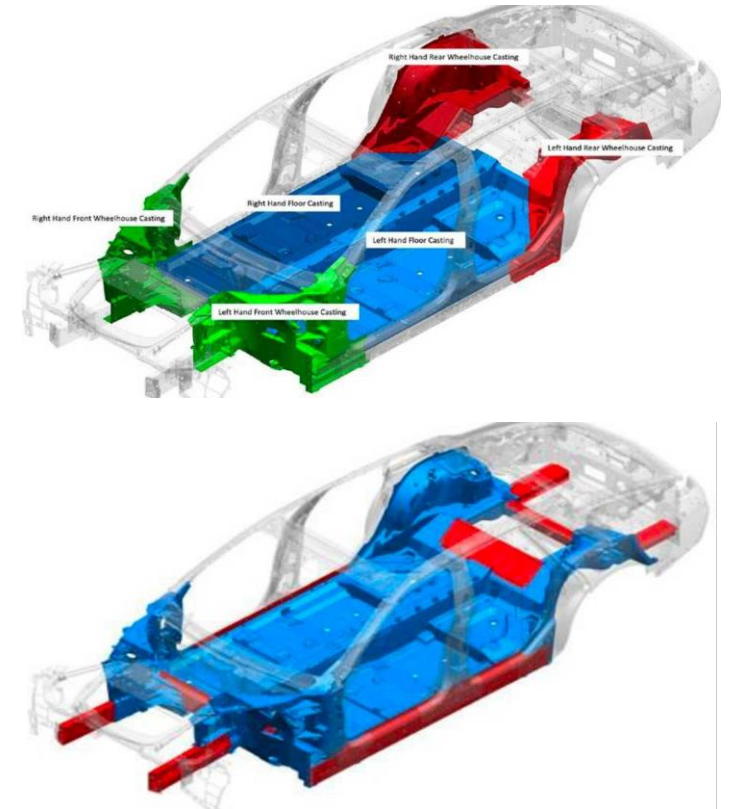
## Cadillac takes a page from Tesla's book, uses mega castings on Celestiq.

### Press research

- The ultra-luxury flagship's production processes also include the 3D printing of 115 parts and a procedure called Flex Fabrication.

#### Additional Information:

- In designing the Cadillac Celestiq's underbody frame, GM is using what it describes as "mega precision sand casting" technology, which has cost and design flexibility advantages in low-volume applications, GM officials said.
- The GM car's entire lower structure combines six fairly large castings including front and rear structures connected to two 8 ft long (2.5 m) castings, which are adhesively bonded and spot-welded into a single floor pan.
- The CELESTIQ underbody includes six large precision sand-cast aluminum components.
- Each casting reduces part count by 30 to 40 components, compared to typical stamped construction.
- The benefits being more efficient use of space, simplicity and improved structural rigidity.
- The CELESTIQ precision sand-casted content and processes are ideal for low volume, handcrafted, bespoke vehicles.



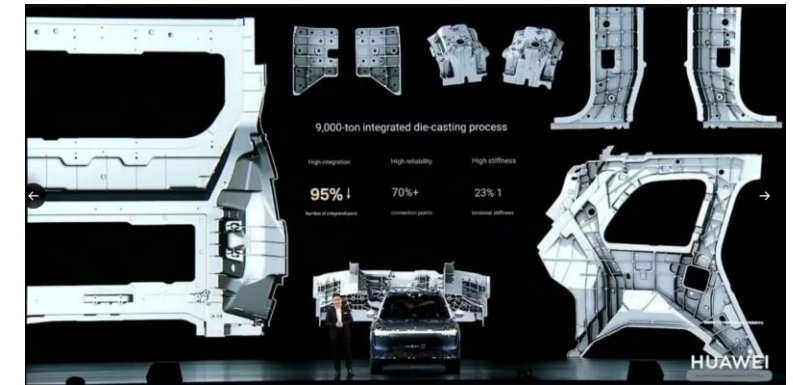
**Huawei and its manufacturing partner Seres made the rear underbody sections of the Aito M9 with the use of large, high-pressure casting machines that weigh up to 9,000 tonnes.**

## Press research

- This will greatly boost the vehicle's structural stiffness with the reduction of components from several hundred to only about 10 or so, Richard Yu, chief executive of Huawei's consumer business group, said during a press conference in Shenzhen.

### Additional Information:

- The vehicle uses several smaller die casted parts in its unibody, such as the Front Damper Housing, the lower A Pillar and the C Pillar.
- Huawei demonstrated the safety of its vehicle by showing a video in which the car gets crashed between two trucks.



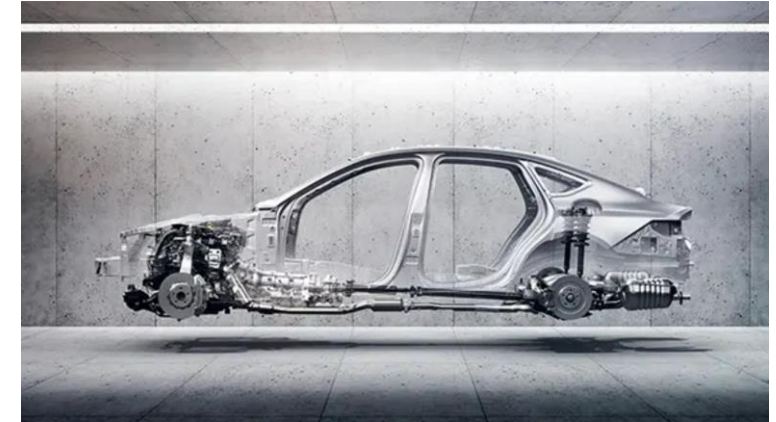
## Hyundai to introduce Tesla-style 'Hypercasting' in 2026.

### Press research

- Hyundai Motor will begin mass-producing cars in 2026 using 'hypercasting', a process inspired by Tesla's car production method. The process involves injecting molten aluminum alloy into casting molds that harden into the vehicle's frame.

#### Additional Information:

- Hyundai will build its own casting, machining and assembly production plant so that hypercasting can be applied to mass production. It plans to finalize a site this year and break ground 2024. Potential sites include an idle site in the existing powertrain division.
- The company already filed for the "hypercasting" trademark with the United States Patent and Trademark Office on August 21, 2023.



## Lexus shows first ‘gigacast’ electric vehicles with new-generation battery tech.

### Press research

- The electric Lexus LF-ZC and Lexus LF-ZL concepts have been revealed at the Japan Motor Show in Tokyo and will be the luxury brand’s first vehicles to use a Tesla-like ‘gigacasting’ production method on an autonomous assembly line.

#### Additional Information:

- That production method is now public with a pair of new generation EV vehicle concepts using a ‘gigacasting’ process for a new modular structure as part of that fundamental change.
- Lexus LF-ZC and LF-ZL will use gigacasting to create a new modular structure that is split into front, centre and rear sections. Lexus says gigacasting has enabled more flexibility in the component layout and therefore look of both concepts, which leads to better interior space – including a flat floor – and superior drivability. That includes a ‘prismatic’ battery pack that is positioned low and central in the vehicle.
- Toyota, parent company of Lexus, produced its first prototype gigacast vehicle earlier in 2023 at its Myochi, Japan plant after announcing in June 2023 that it would adopt the manufacturing technique.





## Mercedes is planning to use mega-casting for its EQXX concept car.

### Press research

- The EQXX was unveiled at the Consumer Electronics Show in January 2022 and is a technological showcase that aims to achieve a range of over 1,000 km on a single charge, using a battery pack of less than 100 kWh.
- Mercedes-Benz is reportedly working on megacastings for its EQS electric sedan, which will have a single-piece rear structure that weighs 50 kg and replaces 40 parts.

### Additional Information:

- The body structure employs a megacasting in the rear that, unlike the one in the Tesla Model Y, features "bionic design."
- The team utilized ZBrush "digital sculpting" software to shape this megacasting, as well as the cast front shock towers, die-cast rear shoulder-belt anchors, and the 3-D-printed aluminum windshield wiper motor support.
- Mercedes-Benz is also working on a new project called Bionicast, which applies bionic engineering principles to optimize the design and material usage of mega-castings.
- The project aims to create parts that are lighter, stronger, and more efficient than conventional castings.



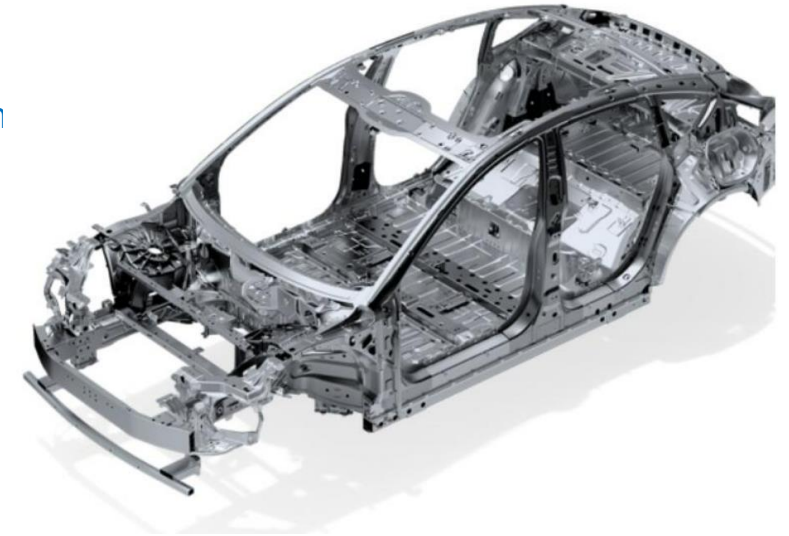
## NIO has ordered injection molding machines capable of 12,000 tons of force from IDRA.

### Insights of Giga Press

- Guangdong Hongtu Technology announced that it has signed an agreement with LK Technology, the parent company of Idra, to provide 6,800-ton die-casting machines to NIO.
- NIO aims to use mega-casting for the Nio ET5 rear sub-frame and possibly for the ET7 sedan

#### Additional Information:

- There is nothing official to outright prove that NIO may use the machines developed and produced by GHT and LK technology. However, GHT has made it clear that it is an official supplier, though it hasn't provided details about what it may be supplying this brand.
- NIO announced that it had successfully validated the development of a heat-treatment-free material that could be used to make large die castings.
- CnEVPost found, when checking the ET5's technical specifications, that the ET5's rear subframe uses a so-called integrated hollow cast aluminum process.
- The car does utilize an integrated hollow-cast aluminum rear sub-frame which reduces weight by 13 kilograms and permits 11 liters of storage in the trunk.



ET5's single-piece casting



## Latest rumors: NIO recently unveiled a new car and revealed details that may indicate the use of magnesium casting in the BIW of its new vehicle.

### Insights of Giga Press

- Maybe the NIO ET9 BIW will use front and rear integrated die cast and magnesium alloy.
- Machinery supplier Chongqing Daijang Millison Die Casting Co. Ltd. who produces 8,800 tons Giga Castings for the Nio ES8, produced the world's largest Castings made with a Magnesium alloy back in June 2023.

### Additional Information:

- Magnesium Giga Castings are 34% less than aluminum ones.
- The Tesla Model Y rear Giga Casting weighs 65 kg. If it would have been made with magnesium instead of aluminium, the weight would be around 43 kg.
- Nio did not specify whether the integrated castings are REALLY made of magnesium.



## Japan's auto parts maker Ryobi to 'gigacast' EV body components.

### Press research

- Ryobi, a major Japanese supplier of aluminum auto parts, will produce large EV body parts using "gigacasting," in order to reduce the manufacturing cost of a car body by 20%.
- The UB6500iV2 Die Casting Machine is delivered by UBE Machinery Corporation, Ltd.

#### Additional Information:

- Ryobi will invest about 5 billion yen (\$35.2 million) to construct a building on the premises of its Kikugawa plant in Shizuoka Prefecture and introduce a molding machine with a 6,000-tonne clamping force.
- It expects to receive orders for parts mainly from domestic automakers from March 2025 following a trial run. In the future, the company intends to be responsible for the installation, operation and maintenance of molding machines at automaker plants.



#### UBE Machinery Profile

Name	UBE Machinery Corporation, Ltd.
Location	1980, Okinoyama, Kogushi, Ube City, Yamaguchi Prefecture
Representative	Hironori Miyauchi, Representative Director & President
Business Description	Manufacture, sale, service, and maintenance of die casting machines, extrusion presses, injection molding machines, kilns, chemical equipment, crushers, vertical mills, bulk handling machines, water screening equipment, bridges, floodgates, steel structures and other industrial machinery
Capital	6,700 million yen
Founded	January 1914
Established	September 1999
Shareholder	UBE Corporation (100%)
Number of Employees	1,200 (As of September 1, 2023)

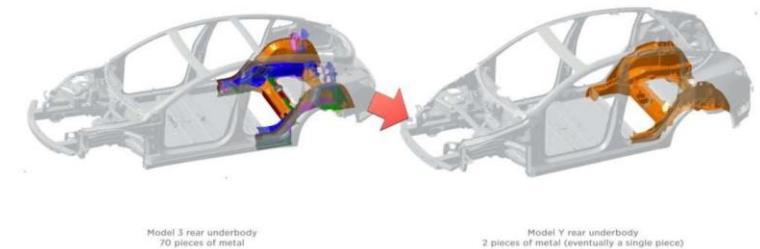
## Tesla is working on 'Gigacasting' tech to mould underbody in one piece.

### Press research

- Tesla is working on an upgrade of its "Gigacasting" technology to die cast almost all vehicle underbody parts in one piece, the Shanghai Securities News reported on Wednesday citing unnamed sources close to the automaker.
- The state-owned Chinese newspaper, which based its report after a recent visit to Tesla's Shanghai factory, did not say when and where the upgrade will happen.

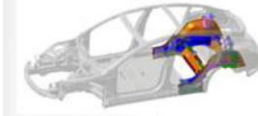
### Additional Information:

- Tesla has pioneered the use of presses with 6,000 to 9,000 tons of clamping pressure to mould the front and rear structures of Model Y in its "Gigacasting" process.
- For Tesla, the use of a single component in the rear of the Model Y allowed it to cut related costs by 40%. In the Model 3, by using a single piece from the front and rear of the vehicle, Tesla was able to remove 600 robots from assembly.
- IDRA has already shipped 14 presses to Tesla, including two 9,000 ones for Tesla's large cybertruck production at its Austin plant, Texas, according to sources and posts by Tesla on social media.

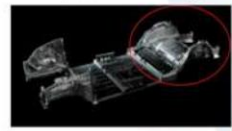


**Automotive Market Fundamentals**  
Innovation never rests.

**Tesla Model 3 Underbody**  
70-piece stampings, welded & sealed



**Tesla Model Y Underbody**  
1-piece aluminum casting



**Benefits:**

- Cost savings by avoiding heat treat process, & post-straightening
- Eliminated tedious process of sealing between welded stampings
- Eliminated 300 robots
- Reduced body shop size by 30%

**Tesla's efficiency in design enables the production of Cybertruck Front Castings using the same Giga Presses utilized for the Model Y. Only 6,500 t. are necessary, instead of 8,000 t. initially forecasted.**

## Press research

- Tesla's stated goal right now is 250,000 units for the Cybertruck. End of 2023 sources were told that Tesla ordered three 9,000 tons Giga Presses for the Cybertruck, which is in line with the stated goal of 250,000. Only 2 out of 3 have been delivered so far.

### Additional Information:

- Two 9,000 tons Giga Presses are related for the rear and 1 Giga Press for the front part.
- Tesla strategically incorporates inserts in the dies for high-heat zones. These metal elements are specifically placed in areas prone to higher corrosion, inserts serve a crucial purpose, they can be replaced individually, mitigating the need to discard an entire costly tool.
- The dies last hundreds of thousands of shots, while individual inserts may have a lifespan ranging between 30,000 and 80,000 shots.
- Tesla currently employs two sets of dies per machine. While one set is actively mounted on the Giga Press, the other undergoes routine maintenance. These sets are periodically rotated to ensure continuous and efficient production.



Get your copy of the Gigapress Tesla PDF document here [\(Press on LINK\)](#) containing more in-depth information about IDRA and L. K. Technology Holdings Ltd..



[LINK](#)



[ANP auf LinkedIn](#)

## Tesla Giga Press



Total cost of a giga press incl. equipment are around € 14 Mio. plus 10-15% costs for logistics.

### Insights of Giga Press

- IDRA delivered the OL 6100 CS to Tesla
- The costs of the Giga Press according to L.K. management are as follows:
  - The single equipment of the DCC 6000 Impress Plus die casting machine is about 6 million euros, the die casting peripheral equipment costs about 8 million euros.
  - Logistic costs of a Giga Press from IDRA are approx. 10-15% of the value of the machine.

#### Additional Information:

- Tesla's role in the development of the Giga Press was confirmed by Liu Siong Song, founder of LK Technology, which acquired IDRA in 2008.
- Being IDRA's parent company, LK knew the intimate details about Tesla's Giga Press concepts.
- And according to Liu, Tesla actually worked side by side with LK and IDRA for over a year to make the Giga Press. Liu even referenced revisions that Tesla would make on their concept, which resulted in LK and IDRA rolling out revisions on their end as well.



L.K. Technology Holdings, China is the parent company of IDRA S.r.l.

## Tesla Giga Press



### IDRA development team for the Giga Press and support activities

#### IDRA Team

- In total 12 team members are directly involved in the design of a Gigapress.
- 1 project manager for the entire project
- 2 mechanical engineers and 2 hydraulic engineers
- 1 person who follows the cell layout upgrades
- 1 hardware engineer and 2 software engineers and 2 human interface engineers
- 1 person who checks bill of materials and the variations Idra has to follow in agreement with the customers when the machine is customized

#### Additional Information:

- Idra supports all the people involved in the production flow after the engineering phase is complete.
- That means Idra supports purchasing, assembly, testing, shipment and commissioning on site of the customer.
- Because of different time zones it is often required to deliver 24 hours support availability to the teams of the customer.





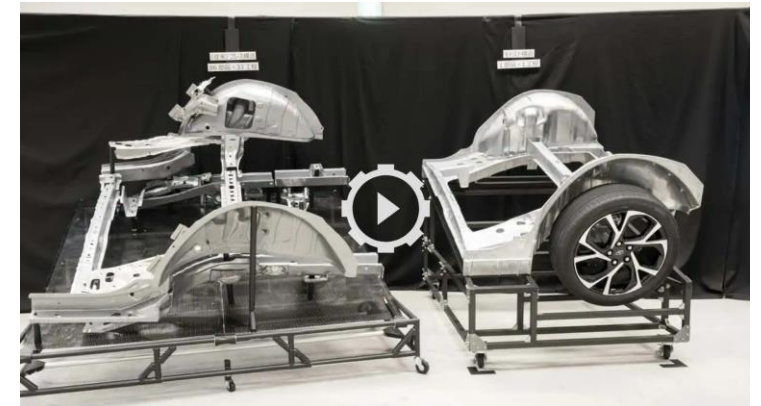
## Toyota plans to adopt the megacasting technology in electric vehicles (EVs) to be sold in 2026.

### Press research

- The car body is divided into three parts, and each part is made of large aluminum Molded in one piece using a die-casting machine.

#### Additional Information:

- Toyota envisions its EV bodies consisting of three segments: front, middle, and rear.
- Gigacasts will be used for the front and rear sections.
- A prototype of the rear section combined 86 individual sheet metal parts that normally would be assembled across 33 steps into a single large structure, and the automaker expects to do the same for 91 components in the front end.
- Toyota envisions a new process with gigacasting, along with a self-propelled production line that does away with conveyor belts entirely.
- The chassis is assembled up to the point where the motor and battery can be installed, after which the partly finished car can drive itself through the rest of the production process. This technology is partly in place at Toyota's Motomachi plant in central Japan, where new EVs are moved autonomously from assembly to inspection.



Toyota's gigacast components

## VW recently unveiled their first attempt at a megacast that will eventually underpin their Trinity electric vehicle.

### Press research

- Trinity will be based on an updated version of its modular electric platform (MEB) and should be up and running in 2026, by using techniques such as large die casting and cutting the number of components in its cars by several hundred.
- The megacast replaces 30 individual parts and saves about 10kg (22lbs) in weight compared to their typical manufacturing techniques. VW's machine uses 4,400 tons of compressive force, and was able to complete the megacast in 2 minutes.

### Additional Information:

- While VW can produce certain models such as the Tiguan or Polo in 18 and 14 hours in Germany and Spain respectively, its electric ID.3 - made in a factory juggling six models from three Volkswagen brands - still takes 30 hours to put together.
- At the Trinity plant, multiple work steps will be condensed into one through automation, shrinking the size of the body shop and reducing the number of jobs requiring uncomfortable physical labour.



VW will use the megacasting equipment at its factory in Kassel



**Volvo Car Corp has invested € 855 mio. into its Torslanda plant for megacasting technologies. Volvo will use around 100 kg of liquid aluminum per casting, the Carat 840 model can handle up to 200 kg at a time.**

## Press research

- The company has chosen Swiss supplier **Bühler** to provide two die-casting cells for the plant, which will be used to produce the floor structure of its electric vehicles by 2025.
- These giant presses can apply 8400 tons of pressure to press car parts and will significantly contribute to Volvo's production capabilities. The parts for each press weighed 1,000 tons

### Additional Information:

- "We have not revealed any launch date or which product will be first. What I can say is that we start with a floor for the rear of an upcoming car. It is about a new generation of electric cars that we are developing," says VP Javier Varela. The target is to replace 100 separate parts with a single one.
- Volvo will likely use megacastings for its XC90 electric SUV, which will have a single-piece front structure that weighs 45 kg, replaces 33 parts and expects to achieve a 15% weight reduction compared to steel solutions by using mega-casting.
- Volvo is also collaborating with **Gestamp**, a Spanish supplier of metal components, to develop new solutions for mega-casting.



Volvo's Mega Casting process  
for aluminum body parts



**Xiaomi has officially presented its first EV, the SU7. The Chinese phone maker was inspired by the manufacturing trend started by Tesla in 2020 and decided to implement Giga Castings in its design.**

## Press research

- Xiaomi purchased two 9,100 tons Giga Presses, made by Haitian (acc. to unofficial sources). Xiaomi plans to produce 200,000 units/year.

### Additional Information:

- Xiaomi has unveiled its self-developed Xiaomi Die-Casting T9100 cluster and proprietary die-casting alloy material, Xiaomi Titans Metal, making it the only domestic automaker simultaneously self-researching both large die-casting and materials.
- Xiaomi Die-Casting T9100 covers an area of 840m<sup>2</sup>, with a total weight of 1050t and locking force reaching 9100t.
- The rear underbody integrates 72 components into one, reduces welded joints by 840, decreases overall car weight by 17%, and significantly reduces production hours by 45%.
- Xiaomi has developed Xiaomi Titans Metal, a high-strength, high-resilience, heat-treated die-casting material.



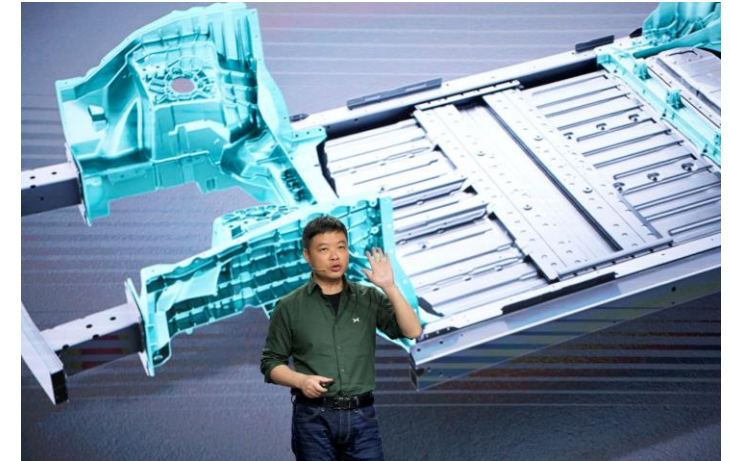
## XPENG has ordered injection molding machines from IDRA.

### Press research

- Xpeng unveiled a new platform it developed in-house for making vehicles, which it said will reduce the development and manufacturing costs for its company's upcoming models.
- The architecture includes front and rear integrated aluminum die casting technologies and integrating battery packs into the car body, which will improve the manufacturing efficiency and reduce the weight of the vehicles, the company added.

#### Additional Information:

- Guangdong Hongtu Technology announced that it has signed an agreement with LK Technology, the parent company of Idra, to provide 6,800-ton die-casting machines to XPENG aiming to use mega-casting for the P7 wing edition.
- There is nothing official to outright prove that Xpeng may use the machines developed and produced by GHT and LK technology. However, GHT has made it clear that it is an official supplier, though it hasn't provided details about what it may be supplying this brand.



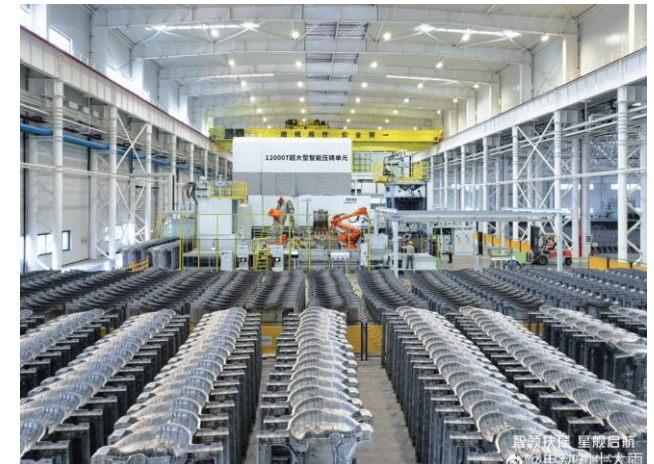
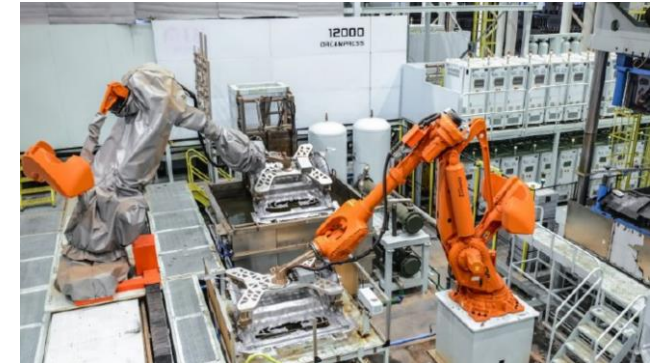
## People who visited XPENG's factory for the X9 launch event revealed some current information about XPENG's plans regarding Giga Castings.

### Press research

- Guangdong Hongtu Technology which operates the Dreampress 12,000 for Xpeng will install its 16,000 tons Gigapress at the same facility to produce large parts, such as battery packs.

### Additional Information:

- Xpeng's Huangpu factory in Guangzhou is equipped with two die-casting machines:
  - One with a capacity of 7000 tons made by LK Machinery for the front section of the X9
  - While the 12000 tons Dreampress made by Hongtu made a substantial part around the rear floor, producing a component every 100 seconds.
  - The starting price is estimated to be around USD 54,000.





## Geely's EV brand Zeekr jumps on the 'gigapress' bandwagon and launched its new vehicle built using a rear Gigacasting.

### Press research

- Zeekr uses a very large 7,200-ton press to shape parts of its cars. They have two of these big machines from LK Machinery to produce parts for the Zeekr 009 and Volvo M90 models. Since these cars are not made in large numbers, Zeekr has enough room to also make parts for their new model, the 007, until they are producing 300,000 vehicles p.a.
- Zeekr's manufacturing technology chief Jiang Kehong confirmed that ZEEKR had started using massive aluminium die casts to make a large rear underbody section of its Zeekr 009 six-seat, multi-purpose van (MPV).

### Additional Information:

- Zeekr's machines help pump out the 009's large underbody section, which is 1.4 m long and 1.6 m wide. The technique had helped Zeekr eliminate almost 800 welding points, cut defects, made the car lighter, and boosted its structural stiffness, in turn improving the ride of the MPV which went on sale in China this year.
- In the future, Zeekr will use giga-casting technology on more models.



**Gigacasting is viewed with mixed opinions. Below are some critical perspectives.**

## Press research

- **Magna** is skeptical about Tesla-driven move to megacasting. The supplier's new Europe boss, Uwe Geissinger, has concerns about the car-building technique pioneered by Tesla that Volvo, others also plan to adopt.
- Magna has been very cautious when it comes to moving into so-called megacasting, which combines multiple underbody parts in one.

## Additional Information:

- **Professor Wolfram Volk** from the Technical University of Munich raises concerns about the complexity of aluminium die casting and its impact on scrap rates. He also notes that gigacasting is not necessarily a lightweight solution compared to cold-forming processes or sheet-metal shells.
- The **French Automobile Distribution Federation (FEDA)** recently issued an alert about the risks of giga press technology. As per the federation, the growing practice of using giga castings in the vehicle production process carries risks for the auto industry.



*"Our customers are ripping these cars [made with megacastings] apart and really taking a look at them. Obviously, if the automakers want to go that way, we will look into it. But you have got to be careful," Magna Europe President Uwe Geissinger said.*

# Market Overview based on the following sources:

## Sources [1/2]

- China's Xpeng aims to cut costs with new vehicle manufacturing platform ([LINK](#))
- Get To Know Megacasting – Hype Or The Next Big Thing? ([LINK](#))
- Geely's EV brand Zeekr jumps on the 'gigapress' bandwagon ([LINK](#))
- Giga-casting : la FEDA lance l'alerte sur les risques pour l'environnement et le budget des ménages ([LINK](#))
- Giga-casting and robots: How Volkswagen's Trinity aims to catch up with Tesla ([LINK](#))
- Gigacasting: A Game-Changer for Automotive Manufacturing ([LINK](#))
- Gigacasting's Impact on Automotive Manufacturing ([LINK](#))
- Hyundai to introduce Tesla-style 'hypercasting' in 2026 ([LINK](#))
- Japan's auto parts maker Ryobi to 'gigacast' EV body components ([LINK](#))
- Lexus shows first 'gigacast' electric vehicles with new-generation battery tech ([LINK](#))
- NIO, Xpeng Supplier Planning Massive Giga Press W/ Tesla Supplier ([LINK](#))
- Tesla's latest disruption in carmaking draws followers in Japan ([LINK](#))
- Tesla's "toy car" technology is in the spotlight with Toyota following suit – Will it take root in Japan? ([LINK](#))
- Toyota Revolutionizes Car Assembly with 'Gigacasting' in Shift Towards Electric Vehicles ([LINK](#))
- Toyota gigacasting prototype cuts production from hours to minutes ([LINK](#))
- Toyota Wants To Use Tesla's Giga Press Technology ([LINK](#))



# Market Overview based on the following sources:

## Sources [2/2]

- VW shows off first megacast that will underpin Trinity EV ([LINK](#))
- Zeekr Is The Latest Carmaker Using 'Gigapress' Die-Casting To Slash Costs
- <https://twitter.com/lucagrecoita/status/1741522649971302611>
- <https://twitter.com/lucagrecoita/status/1739327915630694729>
- <https://twitter.com/lucagrecoita/status/1736447877986103703>
- <https://twitter.com/lucagrecoita/status/1733945289042477201>
- Magna skeptical about Tesla-driven move to megacasting ([LINK](#))
- Megacasting: a chance to rethink body manufacturing ([LINK](#))
- Linamar first Gigacasting plant in North America ([LINK](#))
- Huawei-backed carmaker Aito launches its most expensive EV ever ([LINK](#))
- Xiaomi Unveils Five Core Automotive Technologies and Debuts Xiaomi SU7, Completing the Human x Car x Home Smart Ecosystem ([LINK](#))
- anp management consulting: Tesla Gigapress Status 2022 ([LINK](#))

### LK Machinery 16,000 ton Giga Press unveiled!



Client: Guangdong Hongtu Technology (Holdings) Co. Ltd.

### Haitian 8,800 tons GIGA PRESS at Haitian Open Day





## Order table IDRA

5,000	6,000	7,000	8,000	9,000	12,000	16,000
IDRA						
OL 5500 CS	OL 6100 CS	OL 8000 CS		OL 9000 CS		
1x Unknown	12x Tesla			3x Tesla		
	3x Linamar			1x Asia client (Hyundai?)		
	1x Ford			1x Hyundai		
				2x Volvo		
1	16			7		
Bühler						
Carat 560	Carat 610	Carat 840		Carat 920		
	1x Anhui Unique		2x Volvo	2x Anhui Unique		
	2x IKD		2x IKD			
	2x Seojin System					
	1x Dongguan Eontec					
	1x Handtmann					
	7		4	2		

Source: <https://twitter.com/lucagrecoita/status/1732100610701361441/photo/1> - The table includes both machinery already installed and orders officially placed (no rumors)

## Order table LK Machinery

5,000	6,000	7,000	8,000	9,000	12,000	16,000
LK Machinery						
DCC 5000	DCC 6000+	DCC 7000+	DCC 8000	Dreampress 9000	Dreampress 12000	Dreampress 16000
1x Junling Mould	6x Guangdong Hongtu	2x Xpeng	1x Ruili Group	1x Ruili Group	2x Guangdong Hongtu	1x Guangdong Hongtu
SPHT	1x Ruili Group	2x Wencan		3x Wencan	SPHT	
	5x Tesla	6x Tuopu		SPHT		
	1x Glovitech	2x Zeekr				
	6x Asiaway					
	2x Wencan					
	SPHT					
	2x Yunhai Metals					
>1	>23	12	1	>4	>2	1

Source: <https://twitter.com/lucagrecoita/status/1732100610701361441/photo/2> - The table includes both machinery already installed and orders officially placed (no rumors)

## Order table Haitian, Yizumi, Ube & Gauss

5,000	6,000	7,000	8,000	9,000	11,000
Haitian					
HDC 5000		HDC 7000	HDC 8800		
Anhui Yongtai		Anhui Yongtai	4x Millison		
			2x BAIC group (Xiaomi)		
>1		>1	6		
Yizumi					
	Leap 6000	Leap 7000	Leap 8000	Leap 9000	
		2x Changan Auto			
		2x Yunhai Metals			
		4			
Ube Machinery					
	UB 6500 iv2				
	1x Ryobi				
ItalPresse-Gauss					
TFs 5700	TFs 6100	TFs 7100	TFs 8100	TFs 9000	TFs 11000
3x Nantong Jiangzhong					
1x BMW					
4					

Source: <https://twitter.com/lucagrecoita/status/1732100610701361441/photo/3> - The table includes both machinery already installed and orders officially placed (no rumors)

## Who supplies whom?

OEM & Model	GIGA PRESS Supplier	Giga Casting Supplier	Integrated Parts	Clamping Force (Ton)
Tesla Model Y	IDRA & LK Machinery (China)	Tesla	Rear	6,100
Tesla MY RWD Berlin	IDRA	Tesla	Front & Rear	6,100
Tesla Cybertruck	IDRA	Tesla	Front & Rear	9,200
Xpeng G6	LK Machinery	Xpeng	Front & Rear	7,000
Xpeng X9	LK Machinery	Guangdong HongTu	Front Rear	Unknown 12,000
Zeekr 009 Volvo M90	LK Machinery	Zeekr	Rear	7,200
Nio ET5 - ES6	LK Machinery*	Wencan*	Rear	>6,000*
Nio ES8	Haitian*	Millison*	Rear	8,800
Huawei AITO M9	?	?	Front & Rear	9,000
Xiaomi SU7	Haitian*	Xiaomi (BAIC Group)	Rear	9,100*



Expertise that inspires: We deliver outstanding insights that make the difference.

**ANP specializes in conducting professional and in-depth research and analysis of markets, products, suppliers, competitors and customers. We combine commercial and technical know-how and offer our clients the entire portfolio of strategic marketing.**



### Market Research

“ANP B2B Market Research” provides fact-based, relevant global data and information with primary and secondary market research, which very often serve as a basis for further analysis.



### Market Intelligence

“ANP Market Intelligence” identifies growth opportunities and helps you to secure future investments and decisions with transparent analysis of the market environment.



### Competitive Intelligence

“ANP Competitive Intelligence” actively and proactively increases your competitiveness. We create company profiles in over 90 regions and 20 industries.

Expertise that inspires: We deliver outstanding insights that make the difference.

Since 2004, ANP has been setting standards in consulting for “Market- and Competitive Intelligence and Benchmarking”.



## Benchmarking

“ANP Benchmarking” analyses competitors and Best-in-class companies in terms of performance, functionality and cost.



## M&A Due Diligence

“ANP M&A Due Diligence” supports you in the search, profiling and evaluation of suitable targets through to the first contact and company evaluation.



## Strategie & Foresight

“ANP Strategy & Foresight” provides pragmatic, implementable strategy scenarios and gives you a quantitative and qualitative outlook with regard to markets, countries and technologies.





Do you have any questions or would you like to discuss your project with us?

## Contact

**anp management consulting GmbH**

Alexanderpark

Max-Keith-Str. 66

D-45136 Essen

Germany

Phone: +49 (0)201-24 266 226

Email: [info@anp-consulting.com](mailto:info@anp-consulting.com)

Web: [www.anp-consulting.com](http://www.anp-consulting.com)

