



**THREE METALS FOR ONE GOAL: YOUR SUCCESS –**  
DIE CASTINGS MADE OF ALUMINIUM, MAGNESIUM & ZINC  
LIGHTWEIGHT CONSTRUCTION & SYSTEM COMPONENTS

# 3 metals  
1 goal:  
your success





## ALUMINIUM, MAGNESIUM, ZINC – ALL FROM A SINGLE SOURCE

Die casting is an efficient industrial process for the mass production of parts. For this, alloys made of non-ferrous metals, such as aluminium, magnesium and zinc are used.

And this is, where POWER-CAST starts. At POWER-CAST you receive all of the ingredients for your success from a single source: We offer die castings in aluminium, magnesium and zinc. Our comprehensive range of services allows us to develop customised and flexible solutions together with you:

- |                            |                              |                      |
|----------------------------|------------------------------|----------------------|
| • Engineering              | • Die Casting                | • Surface treatment  |
| • Production of prototypes | • Deburring systems          | • Surface finishing  |
| • Mould-filling simulation | • Machining                  | • Component assembly |
| • Tooling technology       | • Plastic injection moulding | Logistics concepts   |

Fully automated, state-of-the-art casting cells guarantee consistent high quality. All companies are certified according to DIN EN ISO 9001 or IATF 16949 and have an environmental management system that is certified according to DIN EN ISO 14001.

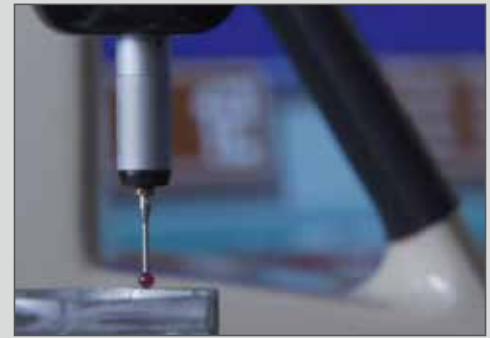
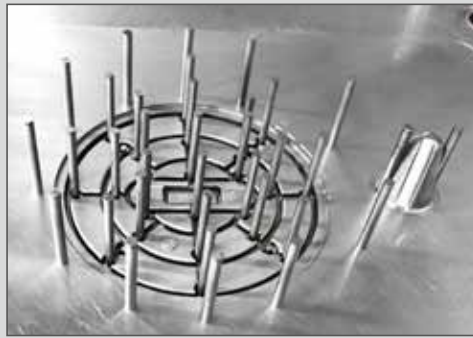
In order to improve resource-conserving use and efficiency of energy over the long term, we are successively introducing an energy management system according to DIN EN ISO 50001 at our locations.

DIN EN  
ISO 9001

IATF  
16949

DIN EN  
ISO 14001

DIN EN  
ISO 50001

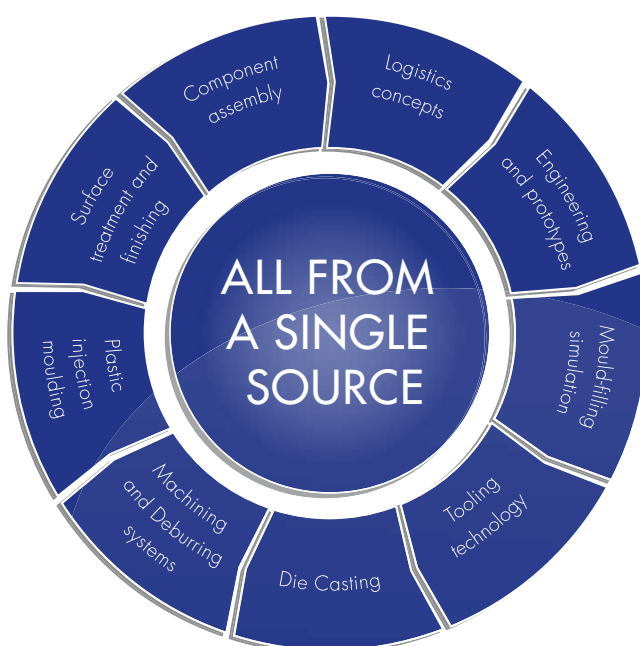


## FROM SPECIALISTS FOR SPECIALISTS

For perfect casting tools and results, we rely on real specialists within the POWER-CAST Group. Thanks to many years of experience, an eye on the market and in-depth know-how about the individual alloys and technologies, our locations ensure the fulfilment of your requirements for casted components made of aluminium, magnesium and zinc.

We die cast your products. Furthermore, together with you, we design them, take over the assembly of individual parts to finished units and implement your logistics concepts. Speak with us.

**Two partners, one goal: Your success!**





## BOUNDLESS VARIETY

Numerous international customers from the non-automotive and automotive sector – from OEM to tier one and second tier suppliers – rely on the outstanding development expertise of the POWER-CAST Group.

- Automotive industry
- Mechanical engineering
- Window/door fittings
- Electrical engineering
- Fluid technology
- Sanitary and heating
- Telecommunication
- Electrical tools
- Medical equipment

However, depending on the material, the die cast parts differ with regard to their physical and mechanical properties. Components made from **aluminium or magnesium** die casting are characterised by high design scope, among other things. They offer engineers diverse approaches for solving ambitious design demands. Both materials achieve a high level of ductility and can be surface-finished in various processes. Magnesium also has the best preconditions for saving weight, due to its very low specific density.

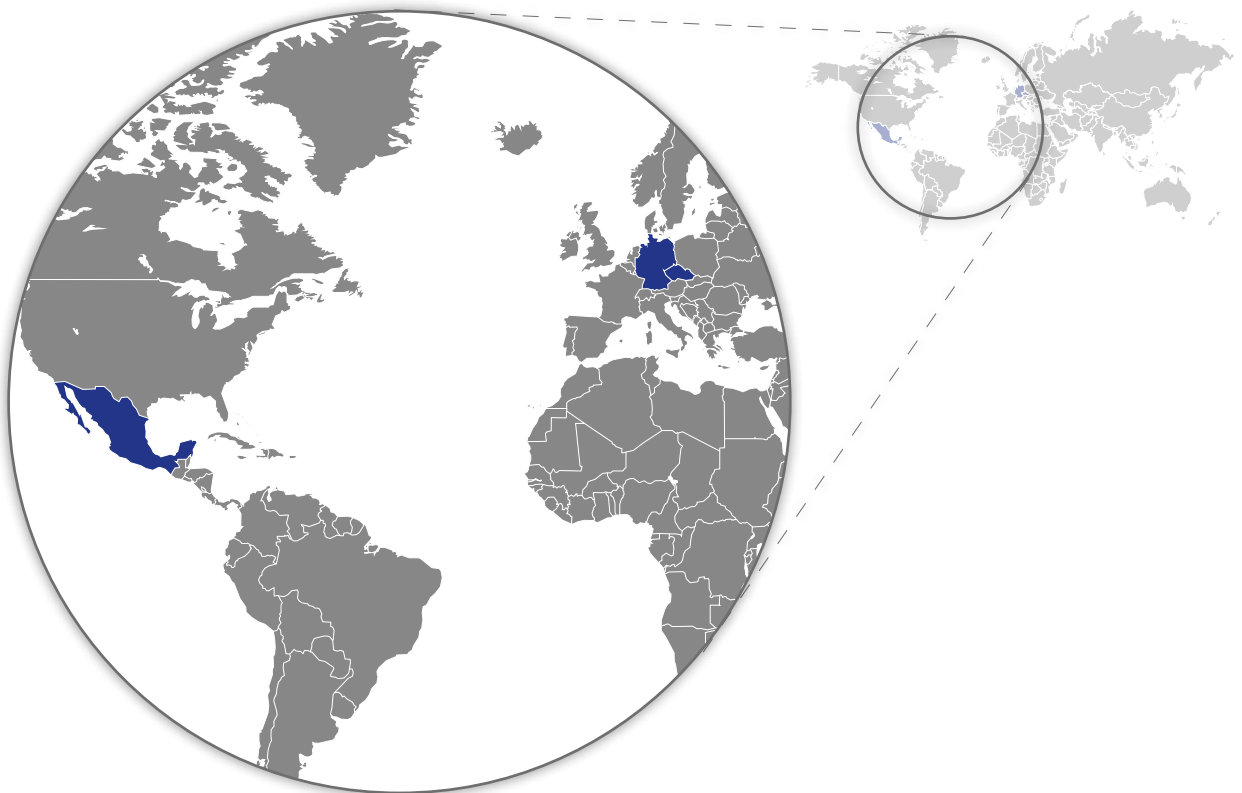
In contrast, **zinc** die casting is particularly suitable for thin-walled components, which must simultaneously stand up to high stresses. Extreme dimensional stability, a wide range of possible surface finishes and low rework characterise this process. The longevity of the casting tools also make zinc die casting an extremely interesting process in economic terms.

Zinc die casting parts can be **coated with hard or soft plastics**. Therefore, depending on the field of application, either the sliding properties are increased or sealing properties are created.

## POWER-CAST – THE COMPANY

The POWER-CAST Group combines innovative and longstanding foundries under one roof. The nearness to our customers plays a very crucial role in this. We offer you our extensive range of services at eight locations in Germany, the Czech Republic and Mexico – from the development partnership right up to ready-assembled components.

Individual POWER-CAST locations form pairs that are strategically coordinated with one another and specialised in the same types of alloys.



MEXICO		GERMANY		CZECH REPUBLIC
Monterrey	Al Zn Plastic	Vobra	Al	Ortmann Zn Plastic
		Zitzmann	Mg	
		Magnetech	Mg	
		Ortmann	Zn	
		Drumeta	Zn	
		Light Metal Solutions	System components	

### Globally active – locally networked

For us, the satisfaction of our customers forms the basis of success – and for further growth. Therefore all activities in the areas of quality, service and reliability take place in the interest of our customers – exactly where we are needed. Globally active and locally networked, we speak your language.

### Independent

We are an innovative family-run company. Our employees, their qualifications and motivation, as well as the group network, make us strong. We use existing synergies to reliably fulfil the wishes of our customers to a high standard, regardless of their complexity. In order to also meet the ever-rising expectations of the market in the future, we invest intensively in the training and advanced training of our workforce. Pride in our work, teamwork and flexibility secure our long-term success.

### Uniquely responsible

Sustainable business practices combined with high quality standards and environmental awareness have always formed the basis of our actions, long before these terms became buzzwords of modern industrial production. Therefore, all of the locations of the POWER-CAST Group produce according to standardised structures that are an integral component of our policies. The same applies to a qualified energy management system, which is being successively introduced in all companies in the Group.

POWER-CAST Vobra  
GmbH & Co. KG

Auf der Bülte 79  
D-32130 Enger  
Germany

Phone + 49 (0) 52 24/98 07-0  
Fax + 49 (0) 52 24/98 07-40  
vobra@powercast.com



## LOCATIONS

### POWER-CAST VOBRA GMBH & CO. KG, D-ENGER

Al



Tested for conformity with  
the POWER-CAST Group  
environmental standards



In Enger, components are produced from aluminium. Around 1,300 tons of die castings leave the factory each year. The company focuses on small to medium-sized series with parts weighing between 50 and 5,000 grams.

#### Locking forces

1.600 – 8.400 kN

#### Alloys

Al 226, Al 230, Al 231,  
Al 239, AlSi10MnMg,  
AlMg5Si2Mn

# ALUMINIUM DIE CASTING

# the all-rounder  
among metals





POWER-CAST Sales S.A. de C.V.

Monterrey Technology Park  
Av. del Parque No. 2120-A  
65550 Ciénega de Flores,  
N.L. Mexico

Phone + 52 (0) 81/89 01 40 81  
Fax + 52 (0) 81/89 01 40 94  
monterrey@power.cast.com

## POWER-CAST MONTERREY, MEX-CIENEGA DE FLORES

The Mexican plant was opened in 2007 and provides aluminium and zinc die casting. The weights of the aluminium parts vary between 200 and 3,000 gramme, while the weights of the zinc parts ranges from 5 to 1,500 grammes. Modern CNC machinery is available for further machining.

As an additional specialty the company also provides plastic injection moulding for zinc parts.

**Al Zn Plastic**

### Locking forces

(Al) 6.500 kN

(Zn) 680 – 2.200 kN

### Alloys

Al380, Zn2, Zn5, Zn8



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POWER-CAST Zitzmann  
GmbH & Co. KG

Industriestraße 2  
96342 Stockheim  
Germany

Phone + 49 (0) 92 65/809-0  
Fax + 49 (0) 92 65/809-10  
zitzmann@power-cast.com



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## POWER-CAST ZITZMANN GMBH & CO. KG, D-STOCKHEIM

The company is known as a pioneer in the field of magnesium die casting. Since 1992 parts with an individual weight of up to 5,000 g are being casted. Today the company is the competence center for magnesium die casting made through cold-chamber processing.

**Mg**

### Locking forces

Hot-chamber:

3.150 – 5.600 kN

Cold-chamber:

3.200 – 13.500 kN

### Alloys

AZ91, AM60, AM50, AMZ40

# MAGNESIUM DIE CASTING

**# extremely  
light and highly  
resilient**



POWER-CAST Magnetech  
GmbH & Co. KG

Bönnigheimer Ring 14  
01904 Neukirch / Lausitz  
Germany

Phone +49 (0) 35 951/1828-0  
Fax +49 (0) 35 951/1828-28  
magnetech@power-cast.com

## POWER-CAST MAGNETECH GMBH & CO. KG, D-NEUKIRCH/LAUSITZ

Our group's competence center for magnesium die casting through hot-chamber processing is POWER-CAST Magnetech. In Neukirch/Lausitz (Germany) the company is casting parts with a weight of between 10 and 1,200 g. The company has been founded in 2001 and has become a member of our group in October 2015.



Locking forces  
1.250 – 4.000 kN  
Alloys  
AZ91



POWER-CAST Ortmann  
GmbH & Co. KG

Industriestraße 68  
42551 Velbert  
Germany

Phone + 49 (0) 20 51/20 85-0  
Fax + 49 (0) 20 51/20 85-50  
ortmann@power-cast.com



[InitiativeZink|Zn]

## POWER-CAST ORTMANN GMBH & CO. KG, D-VELBERT

Through the acquisition of the company in 2000, the foundation was laid for the POWER-CAST Group. This company works around the clock to die cast components from zinc alloys that may also be subsequently machined on its modern CNC systems.

Zn

Locking force

200 – 2,000 kN

Alloys

ZP 0410, ZP 0430

# ZINC DIE CASTING

## # cast and finished





POWER-CAST Drumeta  
GmbH & Co. KG

Siemensstraße 7  
42551 Velbert  
Germany

Phone +49 (0) 20 51/91 3-0  
Fax +49 (0) 20 51/91 3-160  
drumeta@power-cast.com

## POWER-CAST DRUMETA GMBH & CO. KG, D-VELBERT

This company has been part of our Group since July 2016. A single goal has always remained unchanged throughout the 50-year history of the company: to provide optimum die cast solutions in zinc, tailored specifically to customer requirements, developed and produced on state-of-the-art machinery.

**Zn**

Locking force  
200 – 2.000 kN  
Alloys  
ZP 0410, ZP 0430



POWER-CAST Ortmann s.r.o.

Krokova 794  
40501 Děčín 1,  
Czech Republic

Phone + 420/412 709 195  
Fax + 420/412 709 196  
ortmann.decin@power-cast.com



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## POWER-CAST ORTMANN S.R.O., CZ-DĚČÍN

POWER-CAST Ortmann was established in Děčín in the Czech Republic in 2001. It produces zinc die cast parts from all common alloys.

A special feature of this plant is that it is also capable of providing plastic injection moulding of zinc die castings and metal parts and also incorporates Techmire high-speed machines for the production of extremely small or lightweight die cast parts.

**Zn** **Plastic**

Locking force  
(Zn) 200 – 2,000 kN  
(Techmire) 73 kN

Alloys  
Zp 0400, Zp 0410,  
Zp 0430, Zn 360

## ZINC DIE CASTING

# cast and  
finished





POWER-CAST Light Metal Solutions  
GmbH & Co. KG

Dieselstrasse 4  
73278 Schlierbach  
Germany

Phone +49 7021/485520  
Fax +49 7021/4855299  
LMS@power-cast.com

## POWER-CAST LIGHT METAL SOLUTIONS GMBH & CO. KG, D-SCHLIERBACH

POWER-CAST Light Metal Solutions is an international leader in the development and production of system components made of die cast aluminium and magnesium. We specialise in kinematic lightweight construction systems for vehicle interiors. We regard ourselves as your partner in the development of a product - from production to logistics. In 2010, the company was awarded the Porsche Supplier Award as a TOP 10 supplier for outstanding services in quality, logistics and cost optimisation.

### System components

#### Products

Development, construction  
and assembly of  
system components



Tested for conformity with  
the POWER-CAST Group  
environmental standards

## SYSTEM COMPONENTS MADE OF ALUMINUM AND MAGNESIUM DIE CASTING

Our established network guarantees efficient processes in all areas and along the entire value creation chain.

Depending on requirements, we deliver components just-in-time or just-in-sequence. We guarantee our customers efficient processes with the minimum possible investment through assured quality prototypes, as well as state-of-the-art production principles, including "One Piece Flow" and "Poka Yoke", which we use in the development of assembly facilities.



## POWER-CAST

We are part of the Kopf Group, with more than 2,800 employees, working in a total of 53 companies in twelve countries on four continents. The service range of the Kopf Group is divided into the two divisions of die casting and hot-dip-galvanizing, which are active on the market under the POWER-CAST and ZINKPOWER® brands.