

ALUMAG® GLOBAL FOUNDRY FORGING DATABASE

INTRODUCTION :

ALUMAG® as a provider of automotive forecasting, studies, research, and databases offers a new tool that provides market intelligence on aluminum and magnesium casting companies from all over the world. The Foundry Forging Database [FDB] was created in 2014, causally for aluminum casting entities in NA. This local nucleus quickly developed into a global approach and implementation. Today, this is the only global comprehensive FDB. Over the recent years, ferro & iron have been added, forging & mold / die marking.

DATABASE KEY FACTS :

1. Entire database listing actual 1,500 facilities, and growing.
1,360+ casting / 110+ forging / 170+ mold making entities
2. Format: Excel data sheet with multiple filtering options
3. Inhouse equipment, services & served markets.
4. Served automotive applications.
5. Multiple locations listed for each group incl. HQ and plants.
6. Group contact with direct email address [M&A module]

Province / State	Country	Continent / Sub-Continent	Minimum Share (%)	HPDC / Forging < 400 T	HPDC / Forging < 1000 T	HPDC / Forging < 2000 T	HPDC / Forging > 2000 T	All HPDC / Forging
Indiana	USA	North America	100	0	0	0	0	0
Ohio	USA	North America	100	0	400	1200	3	6
Ontario	CAN	North America	100	0	600	2000	0	12
Ontario	CAN	North America	100	0	600	2000	0	12
Ontario	CAN	North America	100	0	600	2000	0	12
New Jersey	USA	North America	50	0	30	1800	0	0
Chih	MEX	North America	100	0	250	1000	0	0
Cihuahua	MEX	North America	100	0	600	1200	0	0
Minnesota	USA	North America	100	0	250	900	3	8
Ill	USA	North America	100	0	600	1000	0	0
Arkansas	USA	North America	100	0	600	1800	0	0
PA	USA	North America	100	0	600	1600	0	0
Massachusetts	USA	North America	100	0	250	1200	0	0
Minnesota	USA	North America	0	0	250	250	0	0

GLOBAL FOUNDRY BENEFITS :

1. Casting supplier database incl. Mega-/ Giga-/ Hyper Castings
1. Research by individual & various filter settings
2. Search & validation for M&A targets [M&A module is optional]
3. Die / Tooling and Forging database user license is optional]
4. Daily actualization and extension of the database
5. One time buy, optional an individualized subscription.
6. Competitor equipment analysis incl. Mega- [>6,000 tons], Giga- [>9,000 tons], Hyper- [>12,000 tons] Presses

GLOBAL FOUNDRY DATABASE DESCRIPTION & CONTENT :

1. Full address with allocated filter for region, country and states
2. Kind of location [plant or HQ]
3. Year of incorporation, number of employees, shareholders, ..
4. Share of cast aluminum and magnesium [rough indication]
5. Clamping force range [HPDC] up-to 20NM / 20,000 tons

6. Number of casting cells [mainly HPDC]
7. Number of casting cells by clamping force [HPDC & not possible for all plants]
8. In-house cast processes [SC, GDC, LPDC, CPC, HPDC, HOLLOW SECTION etc.]
9. Pre & post cast processes [In-house engineering, die / tool shop [build or repair], vacuum, heat treatment, CNC, leakage test, impregnating [sealing], assembly, ...]
10. Industries served [Aeronautics, Automotive, Energy, General Engineering, Marine, Medical, Military]
11. Cast applications and products in production [22+ predefined product groups like ICE, E-Motor, BiW, Mega-/ Giga-/ Hyper Castings, ..]
12. Reference customers
13. Certifications [ISO 9001, ISO 14001, IATF16949]
14. Key figures [Number of employees, revenue [USD], capacity by units and/or tons]

GLOBAL FOUNDRY DATABASE PAGES/ VIEWS :

1. Facility List: 1,360+ facilities incl. the mentioned criteria by plant above
2. Group Summary: 710+ group figures are summarized and calculated automatically based on the facility inputs for the 1,360+ facilities. Information available are :
 - 2.1. Group Key figures [revenue, employees and capacity] in M&A module
 - 2.2. Group number of foundries by region [NA, SA, EU, Asia, China]
 - 2.3. Group casting processes [SC, GDC, LPDC, CPC, HPDC, SEMI SOLID, HOLLOW SECTION]
 - 2.4. Listed "Large Presses" as: Mega-, Giga-, Hyper-Presses
 - 2.5. Group clamping force range & number of cells [HPDC] incl. dynamic graphics.
 - 2.6. Group Pre & post cast processes [In-house engineering, tool shop [build or repair], assembly, heat treatment, CNC]
 - 2.7. Group cast applications & products in production [22 predefined product groups]
3. Fact sheet: An overview of each inserted group showing all information available

GLOBAL FOUNDRY DATABASE - DATABASE FULFILLMENT RATE :

At this stage the foundry database including 1,360+ AL and/or MG facilities which equals 710+ foundry groups. The database is continuously being updated and expanded to include further facilities / companies and to increase the data fulfillment rate of the existing facilities. At present the fulfillment rate for the inserted 1,360+ facilities can be described as follows:

1. Low content [0 to 30%]: 50+ facilities [≈4%]
2. Moderate content: [30 to 70%] 390+ facilities [≈29%]
3. High content: [70 to 100%] 880+ facilities [≈66%]

CLAMPING FORCE RANGES BY REGIONS & OEM / TIER

Legend: 6,001 - 8,000T, 8,001 - 10,000T, 10,000T - 12,000T, >12,000T

Region	OEM / Tier	6,001 - 8,000T	8,001 - 10,000T	10,000T - 12,000T	>12,000T
W. Europe	OEMs	27	1	0	0
	Suppliers	2	1	0	0
South America	OEMs	0	0	0	0
	Suppliers	0	0	0	0
Other Europe	OEMs	0	2	0	0
	Suppliers	0	0	0	0
North America	OEMs	13	2	1	1
	Suppliers	2	0	1	0
China	OEMs	7	2	1	1
	Suppliers	38	22	3	2
Asia (Without China)	OEMs	1	0	0	0
	Suppliers	2	0	0	0
Africa	OEMs	0	0	0	0
	Suppliers	0	0	0	0

[illegible]

PRICING :

PRICING IN USD									
1-TIME BUY & 1-USER				5-YEARS SUBSCRIPTION & 1-USER / SUBSCRIBED REGION					
1-Time	FDB	CONTACTS	M&A	1 st YEAR	FDB	CONTACTS	2 nd - 5 th	FDB	CONTACTS
EU+	\$16.500	\$13.200	\$3.300	EU+	\$8.250	\$6.600	EU+	\$2.750	\$2.200
NA	\$16.500	\$13.200		NA	\$8.250	\$6.600	NA	\$2.750	\$2.200
EA	\$16.500	\$13.200		EA	\$8.250	\$6.600	EA	\$2.750	\$2.200
ROW	\$16.500	\$13.200		ROW	\$8.250	\$6.600	ROW	\$2.750	\$2.200
GLOBAL	\$49.500	\$39.600		GLOBAL	\$24.750	\$19.800	GLOBAL	\$8.250	\$6.600

FDB detailed "Foundry Database" incl Fact sheet, Group sheet, Plant sheet.

CONTACTS one management contact for each casting group

REGIONS EU+ [European Union plus the countries: CHE, GBR, SRB, TUR]

NA [CAN, MEX, USA]

EA [East Asia with CHN, JAP, KOR, MNG, TWN]

ROW [Rest of the World like, AUS, BRZ, IND, RUS, ..., ZAF]

M&A prepared but blanked/unloaded "M&A module" incl spider diagrams.

[gathered and typed-in data by ALUMAG® on individual quoted clients demand]

UPDATES 5-years subscribers will receive twice a year an update

CLIENT CONTACT DETAILS :

First name :

Family name :

Job title :

Company :

Address :

City/Zip/State:

Country :

Phone/e-mail:

Order content:

Amount in \$:

Signature :

User license fee agreed to ALUMAG® General Terms & Conditions. Client will receive an invoice by : ALUMAG® Automotive GmbH, Kohlkamp 42, 58708 Menden, Germany

Mr JOST GAERTNER, Managing Partner, j.gaertner@alumag.com, +49 172 6000569