

Aluminium Casting Solutions | Your Global Partner

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The history of Alteams stretches back over half a century, with roots in industrial foundry operations in Finland and Sweden in the 1940s. Alteams is today a privately owned Finnish company.

Building on this solid foundation in the northern industrial environment, Alteams has expanded into a truly global enterprise with annual sales level of one hundred million Euros, international support services, and five production facilities located in Finland, China, Poland, and India. Alteams employs over 1,700 real professionals. The company has regional customer support units in all manufacturing locations, as well as in Sweden and Japan.

Alteams offers more than aluminium casting using four different casting methods. The company has its own dedicated tool design and manufacturing facility in China. In cooperation with its long-term strategic partners, the company offers an even broader range of castings. This means that Alteams has a wide capacity range, from single prototype units to mass production and from one hundred grams up to one ton.

Technological development has given Alteams a range of competencies that goes beyond regular foundry operations, from initial R&D and prototyping all the way to mass production and deliveries. Alteams has its own R&D operations and a vast experience in producing innovations in aluminium casting and added value processes. This makes Alteams your excellent partner and ideal choice for you at every stage of your product development and manufacturing. Alteams works closely with customers to solve their casting design, aluminium alloy, heat transfer, shielding, and sealing challenges.



High quality and continuous improvement

The quality objectives at Alteams are to produce high-quality products on time and at a cost effective and competitive price level. It results in the best customer satisfaction and continuous improvements in process efficiency. Operational Excellence is a part of the continuous improvement program. The target is to minimize non-value-added activities in daily operations and minimize quality costs. Best practices are shared systematically between our factories.

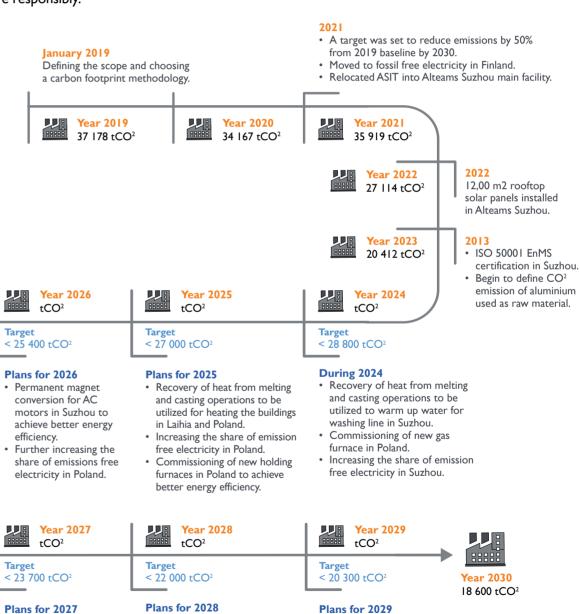
Alteams Quality Management System is certified according to the ISO 9001, I4001 and the automotive standard IATF 16949 requirements in Alteams factories in Poland, China, Finland, and India.

Alteams Sustainability Program - our commitment to the future

Strong focus on sustainability is an essential part of our operations. Alteams has created a Sustainability Program using the UN's Sustainable Development Goals as a framework. We not only strive to be a responsible operator, but also to inspire others to act more responsibly.

Alteams Carbon Reduction Roadmap

One of the most significant aims in Alteams Sustainability Program is to reduce our company's carbon footprint. Alteams Carbon Reduction Roadmap provides a structured approach to systematically reduce our carbon footprint while enhancing processes and continuous improvement.



Installation of

photovoltaics system in Alteams Poland.

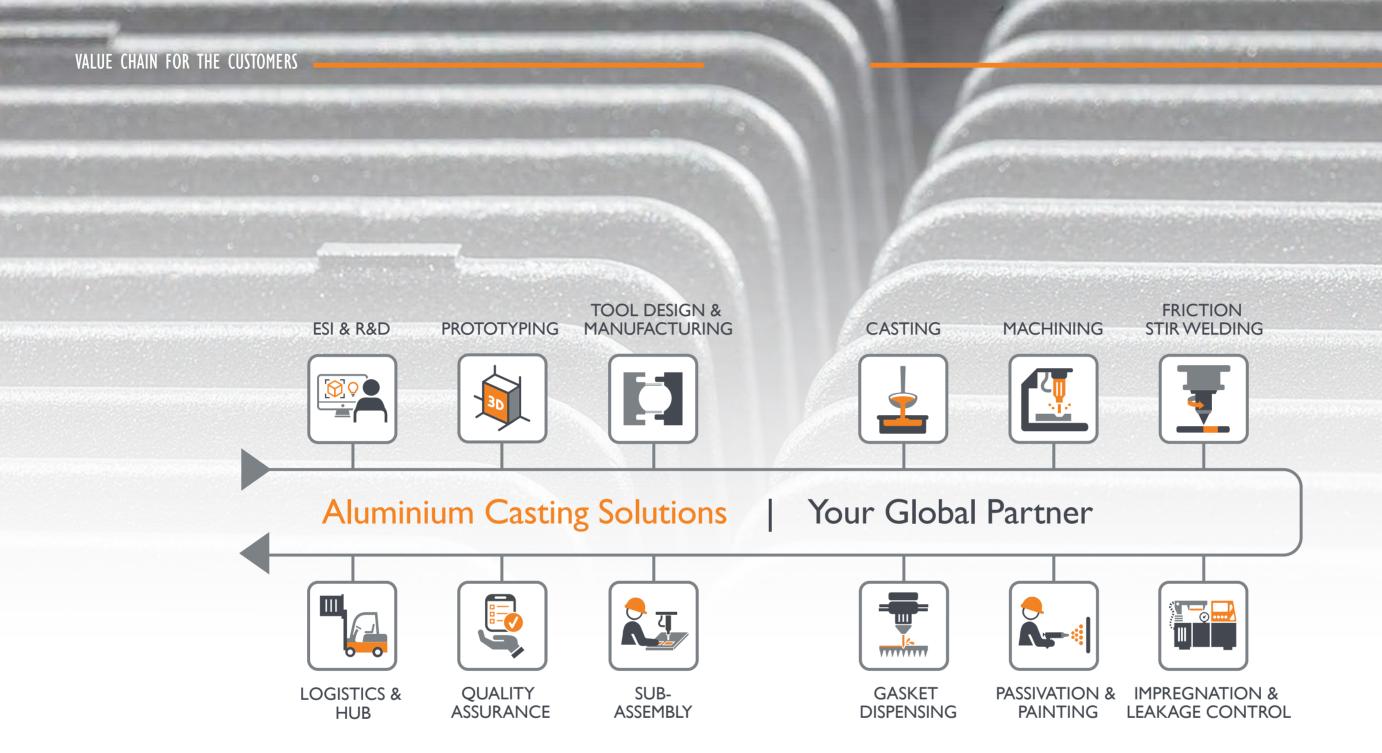
Plans for 2028

· Replacement of older die-casting machines to more energy efficient ones in Poland.

· Installations of energy management technology in Suzhou.

Plans for 2029

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Alteams - Your Partner from early development until delivery with full value chain.

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ALLOYS CASTING METHODS

Aluminium alloys used at Alteams and approximate equivalences against common standards

Note. Standards are not equal with each others. Specified alloy composition to be clarifed case by case.

S = Sand Casting, K = Permanent Die Casting (Low Pressure Casting), D = High Pressure Die Casting, HTC Alloy = High Thermal Conductivity * old national standard

Alloy types	ting method	European	International	Finnish	Swedish	German	German	English	American	Italian	French	Japanese
	Castii	EN 1706	ISO 3522	SFS*	SS*	DIN*	VDS	BS*	AA ASTM	UNI*	NF*	JIS

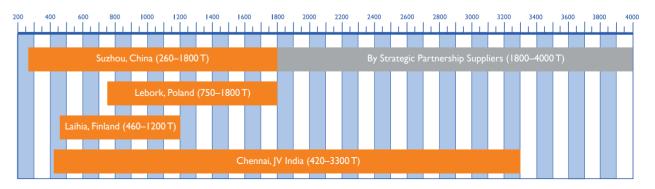
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AlSi3 AlSi12 AlSi12	D S/K D	- EN AC-44100 EN AC-44300	- AlSi12 AlSi12(Fe)	- SFS 2566 SFS 2566	- SS 14 4261 SS 14 4263	- 3.2581 3.2582	- 230A 230	- LM 6 LM 20	- B413.0 A413.0	- 4514 5079	- A-S13 A-S12	- AC3A ADC1
AlSi10Mg AlSi10Mg AlSi7Mg	S/K D S/K	EN AC-43400	AlSi I 0Mg AlSi I 0(Fe) AlSi 7Mg0,3	SFS 2567 SFS 2567 SFS 2574	SS 14 4253 SS 14 4245	3.2381 3.2382 3.2371	239A 239	LM 9 LM 25	A361.0 A356.0	3049 5074 3599	A-S10G A-S9 A-S7G	AC4A ADC3 AC4CH
AlSi9Cu3 AlSi9Cu3 AlSi10Cu2 AlSi7Cu2 AlSi6Cu4Ni HTC Alloy	S D D S S	EN AC-46200 EN AC-46000 EN AC-46100 EN AC-46600 EN AC-45000	AlSi8Cu3 AlSi9Cu3(Fe) AlSi10Cu2(Fe) AlSi7Cu2 AlSi6Cu4	SFS 2568 SFS 2568 SFS 2570	SS 14 4251 SS 14 4250	3.2163.01 3.2163.05 3.2151		LM 24 LM 24 LM 2 LM 27 LM 21	A380.0 A380.0 A383.0	5075 5076 7369	A-S9U3A A-S9U3 A-S5U2	AC4B ADC10 ADC12 AC2B



Comparison of Alteams casting methods

	Sand casting	Shell mould casting	Low pressure die casting	High pressure die casting	
Weight of the casting, kg	0.1 - 800	0.1 - 15	I - 70	0.05-30	
Annual volume, pcs	I - 5 000	50 - 10 000	100 - 10 000	5 000 - 500 000	
Pattern/mould cost	Relatively low	Relatively low/ moderate	Moderate	Relatively high	
Cost of changes	Low	Relatively low/ moderate	Moderate	Relatively high	
Flexibility of design	Very high	High	Relatively high	Relatively high	
Minimun wall thickness, mm	4 - 6	2 - 4	3 - 4	0.8 - 1.5	
Dimension accuracy	Fairly good	Good	Good	Very good	
Possible surface roughness, Ra	≥6.3 (12.3)	≥6.3	≥3.2	≥1.6 (0.8)	
Casting alloys	AISi10Mg AISi7Mg AISi9Cu2 AISi7Cu2	AISi10Mg AISi7Mg AIMg3	AlSi10Mg AlSi12	AlSi9Cu3Fe AlSi12 AlSi10Mg AlSi10Cu2(Fe) HTC	
Delivery time for samples, weeks	3 - 6	2 - 4	8 - 15	8 - 20	
Special features	Heat-treatable Friction stir- weldable	With sand cores Heat-treatable Friction stir- weldable	Heat-treatable Friction stir- weldable	Heat-treatable Friction stir- weldable HTC	
Alteams factory	Loppi (Finland)	Loppi (Finland)	Laihia (Finland)	Laihia (Finland) Lebork (Poland) Suzhou (China) Chennai (India)	

Range of Alteams high pressure die casting machines (tons)







HEAD OFFICE

Länsitie 61 66400 Laihia, Finland Tel. +358 201 339 500 info@alteams.com www.alteams.com

FINLAND

Alteams Finland Oy, Laihia Länsitie 61 66400 Laihia, Finland Tel. +358 201 339 500

Alteams Finland Oy, Loppi Valutie 2 12700 Loppi, Finland Tel. +358 201 339 500

CHINA

Alteams (Suzhou) Co. Ltd. No.388, Chao Hong Road 215129 Suzhou New District, China Tel. +86 512 6665 8400

POLAND

Alteams Poland Sp. z.o.o. ul. Abrahama 10 84-300 Lebork, Poland Tel. +48 887 460 003

INDIA

Ashley Alteams India Ltd.
No.8, SIPCOT Industrial park
Chellaperumpulimedu Village
Sozhavaram Post
Akkur (Via), Vembakkam Taluk
Tamilnadu – 631 701, India
Tel. +91 404182 675616
reachus@ashleyalteams.com

SWEDEN

Alteams Stilexo AB Gjuterigatan 9 55318 Jönköping, Sweden Tel. +46 703 550 576

JAPAN

Alteams Japan K.K. japansales@alteams.com www.alteams.co.jp