





Alteams’ history 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 Nordic industry, Alteams has expanded into a truly global enterprise with sales of over €100 million in 2017, global support services and six production facilities around the world, located in Finland, China, India and Poland. Alteams employs over 1,800 top professionals, and has regional customer support units in Sweden, Estonia, Japan, and the USA.

Alteams offers more than just aluminium casting. It has its own dedicated tool design and manufacturing facilities, and is able to utilize five different casting methods. This gives Alteams a broad capacity range, from single prototype units to mass production, and from 100 grams up to one tons.

Technological development has given Alteams a range of competences that goes beyond regular foundry operations, from initial R&D and prototyping, all the way to mass production.

Because Alteams has its own R&D operations and a lot of experience of producing innovations in aluminium casting and added-value processes, Alteams is an excellent partner and ideal choice for you at every stage of your product development and manufacturing.

Alteams combines its own competencies with its network of skilled partners allowing Alteams to work together with customers to solve their casting design, aluminium alloy, heat transfer, and shielding and sealing challenges.



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High quality and continuous improvement

The quality objectives at Alteams are to produce high-quality products, on time and at the cost-effective and competitive price level. This will lead to best customer satisfaction and ongoing improvements in process efficiency.

Alteams Quality Management System will meet the IATF16949 requirements in Poland and China by 2019. Alteams Finland Oy Laihia and Ashley

Alteams India Ltd are already certified according to ISO/TS 16949.

Operational Excellence is a part of the continuous improvement program. The target is to reduce non-value-added activities in daily operations and reduce quality costs. Best practices are shared systematically between the factories. The core of the effectiveness is to be a little bit better every day!



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

Aluminium alloys used at Alteams and approximate equivalences against common standards

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

S = Sand Casting, K = Permanent Die Casting (Gravity Casting, Low Pressure Casting), D = High Pressure Die Casting
* old national standard

Alloy types	Casting method	European	International	Finnish	Swedish	German	English	American	Italian	French	Japanese	Chinese
		EN	ISO	SFS*	SS*	DIN, WNr*	BS*	AA ASTM	UNI*	NF*	JIS	GB

Aluminium Alloys

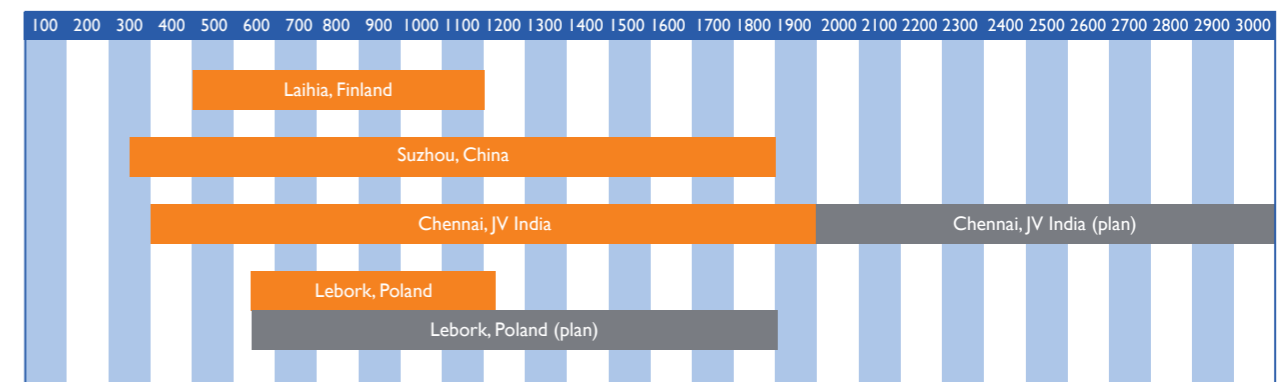
AlSi3	D	-	-	-	-	-	-	-	-	-	-	-
AlSi12	S / K	EN AC-44100	AlSi12	SFS 2566	SS 14 4261	3.3581	LM 6	B413.0	4514	A-S13	AC3A	ZL102
AlSi12	D	EN AC-44300	AlSi12(Fe)	SFS 2566	SS 14 4263	3.3582	LM 20	A413.0	5079	A-S12	ADC1	ZL102
AlSi10Mg	S / K	EN AC-43100	AlSi10Mg	SFS 2567	SS 14 4253	3.2381	LM 9	-	3049	A-S10G	AC4A	ZL104
AlSi10Mg	D	EN AC-43400	AlSi10(Fe)	SFS 2567	-	3.2382	-	A361.0	5074	A-S9	ADC3	ZL104
AlSi7Mg	S / K	EN AC-42100	AlSi7Mg0,3	SFS 2574	SS 14 4245	3.2371	LM 25	A356.0	3599	A-S7G	AC4CH	ZL101
AlSi7Mg	D	-	-	-	-	-	-	-	-	-	-	-
AlSi9Cu3	S	EN AC-46200	AlSi8Cu3	SFS 2568	SS 14 4251	3.2163.01	LM 24	A380.0	-	-	AC4B	ZL111
AlSi9Cu3	D	EN AC-46000	AlSi9Cu3(Fe)	SFS 2568	SS 14 4250	3.2163.05	LM 24	A380.0	5075	A-S9U3A	ADC10	-
AlSi11Cu2	D	EN AC-46100	AlSi11Cu2(Fe)	-	-	-	LM 2	A383.0	5076	A-S9U3	ADC12	-
AlSi7Cu2	S	EN AC-46600	AlSi7Cu2	-	-	-	LM 27	-	-	-	-	-
AlSi6Cu4Ni	S	EN AC-45000	AlSi6Cu4	SFS 2570	-	3.2151	LM 21	-	7369	A-S5U2	AC2B	ZL110

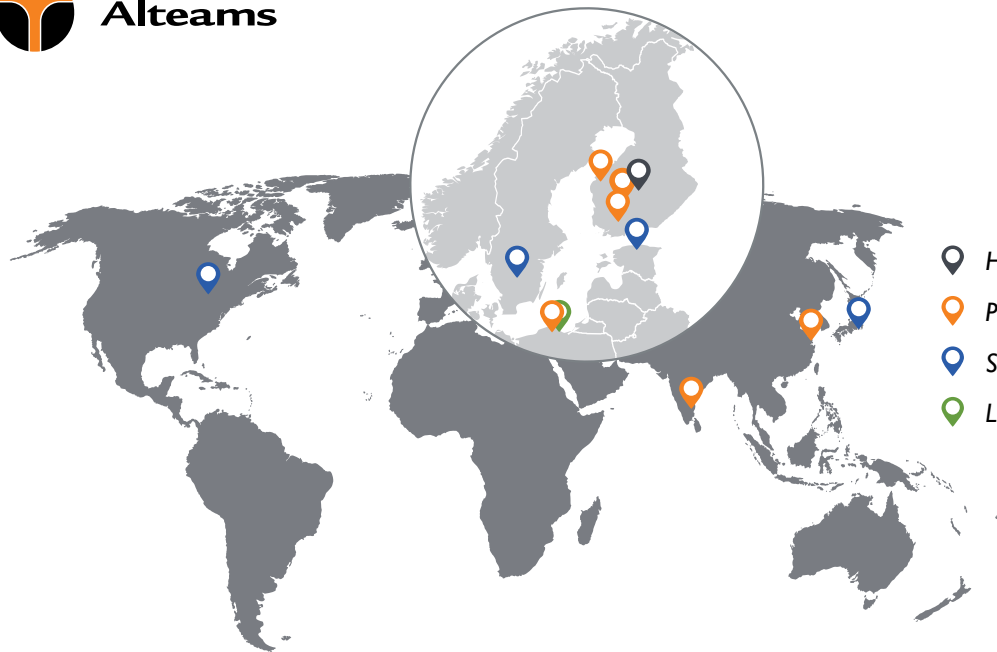






Comparison of Alteams casting methods

	Sand casting	Shell mould casting	Gravity casting	Low pressure die casting	Pressure die casting
Weight of the casting, kg	0.1...800	0.1...15	0.01...50	1...70	0.01...30
Annual volume	1...5000	50...10 000	100...50 000	100...10 000	5000...1 000 000
Pattern / tooling cost	Relatively low	Relat. low/moderate	Moderate	Moderate	Relatively high
Cost of changes	Low	Relat. low/moderate	Moderate	Moderate	Relatively high
Flexibility of design	Very high	High	High	Relatively high	Relatively high
Minimum wall thickness, mm	4...6	2...4	3...4	3...4	0.8...1.5
Dimension accuracy	Fairly good	Good	Good	Good	Very good
Possible surface roughness, Ra	≥6.3 (12.3)	≥6.3	≥3.2 (2.5)	≥3.2	≥1.6 (0.8)
Casting alloys	AlSi10Mg AlSi7Mg AlSi9Cu2 AlSi7Cu2	AlSi10Mg AlSi7Mg AlSi12 AlMg3	AlSi12 AlSi10Mg AlSi7Mg	AlSi12Mg AlSi10Mg	AlSi9Cu3Fe AlSi12 AlSi10Mg AlSi11Cu2(Fe)
Delivery time for samples, weeks	3...6	2...4	5...12	8...15	8...20
Special features	Also heat-treated	Also with sand cores and heat-treated	Also with sand cores and heat-treated	Also heat-treated	Also heat-treatable (in special conditions)
Alteams factory	Loppi Ruovesi	Loppi	Laihia Loppi	Laihia Loppi	Laihia Poland Suzhou Chennai

Range of Alteams high pressure die casting machines (tons)





-  *Head Office*
-  *Production Site*
-  *Sales and Support Office*
-  *Logistics Center*

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Our global team and engineering serving you!