GAP

GRUPO ALUMINIOS DE PRECISIÓN

ALUMINIUM SAND CASTING FOUNDRY

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ABOUT US

GAP offers a full supplier service, from casting development to full machined, painted and tested aluminium casting pieces.
On our 42,000 sqm site with 12,000 sqm of indoor production facilities, we produce sand casting parts using green sand and no-bake sand processes.
Our new casting facilities established in 2008 with a capacity of ca. 10,000 tons/year are already suppliying to our customers worldwide.
Managing the whole casting process in our facilities from casting desing, tool making, casting, machining, testing, and surface treatment.
We supply light alloy castings weighting from 0.1 kg up to 1,000 kg.
Our goal is to provide technical high-integrity Aluminium casting to international industries.

9001
ISO 9001
Quality
management

14001
ISO 14001
Environmental
management systems

DNV
DNV-GL
Marine equipment
manufacturing

SVTI
ASIT
SVTI Vorschrift 704/501
gas-insulated high-voltage,
high-pressure equipment

BUREAU
VERITAS
Bureau Veritas
Marine & Offshore

Lloyd´s Register
MARINE

KR
KOREAN REGISTER
Korean Register

ABS
American Bureau
of Shipping

ClassNK
Nippon Kaiji Kyokai

MARKETS

Our portfolio shows our achievements in the light alloy casting arena. International customers in different industries regards GAP as high perfomance and reliable partner. Our customers worlwide are trusting and supporting our grow.

In addition to other markets, we also supply to following sectors; Medical, Energy, Mechanical Engineering, Trucks, Engine industry, Defence, Vacuum industry...

Our technology is suitable for many industry sectors therefore our portfolio is continuous increasing with new customers and applications for light ally castings.

DESIGN AND DEVELOPMENT

Our design office will make possible all your aluminium casting challenges developing the most suitable solution. Our engineers will support you on the best design to guarantee an optimal perfomance to fulfil your expectations. Both our capacity and experience will help you to apply to your technological field the advantages of the aluminium; high electrical and thermal conductivity, low weight, corrosion resistance, high thermal conductivity, machining and environmental friendly material.

PATTERN WORKSHOP

The tradition of some of the best technicians with a long career in the pattern making industry along with a young team and modern facilities available at GAP to make the perfect mix. Our own pattern capacity ensures the flexibility, accuracy and quick reaction time for the development of new projects on time.

CORE WORKSHOP

Our core shop is equiped with automatic sand shooters, from small to big size cores. The sand supply is also automatic. Cores can be coated with synthetic paint to get a smooth core surface, to guarantee a smooth aluminium part.

GREEN SAND CASTING

Green Sand Casting process offers an optimal balance between affordable tooling cost and high productivity by means of a fully automated moulding managing changes to cast a different reference in an easy way wich also makes the line suitable for small series. This line, combined with the lastest technology in automatic core production, automatic cutting and de-core devices, offers a good quality perfomance combined with optimal productivity.
The size of the box - 1000 x 750 x 500 mm - makes the line suitable for medium size pieces. Our engineers have been able to produce pieces up to 80 kg including complicated geometries and multiple sand cores.

NO-BAKE SAND CASTING

If your application requires bigger pieces or more complex geometries, with our two lines of no bake sand casting you will find the solution having a high flexibility at an affordable tooling cost.
On our atomated no bake sand casting line you would find a quick facility able to produce large and complex pieces.
And for even the most complex pieces you have at your disposal our second no bake sand line where almost everything is possible.
The size of the box is almost unlimited and up-to-date our engineers have been able to produce pieces up to 1,000 kg.

HEAT TREATMENT

Heat treatment accuary and productivity is ensured by our continuous oven where the sequence of heat treatment is carried out automatically, in order to guarantee the process stability. Monitoring is ensured on a digital recording system. Process data ensures a correct documentation and analysis of each load. Mechanical properties are properly checked after each load and our traceability system fits with the most reliable standars.

NON DESTRUCTIVE TESTS

In our well equipped test facilities, light alloy castings can be checked in our X-Ray facilities. The right soundness is guaranteed and checking results can be electronically recorded and later on checked. Thickness is also controlled with an ultrasonic testing device. Additionally, other NDT processes can be perfomed in accordance to either international standards or customer demands by certified entities, such ad dye penetrant test...

METALLURGY

Our foundry is fully equipped with a complete metallurgical laboratory used to determine the chemical characteristics of each batch and to control the molten metal conditions before pouring. We issue 3.1 certificates for each delivered part on customer request.

MEASURING EQUIPMENT

Our 3D coordinates measuring system, CNC controlled, is taking care of the accuracy of the casting pieces, moulds and CNC machined pieces. You can have complete and accurate measurements of all your products thanks to GAP´s 3D Laser Scanner. With this scanner we can super-impose the casted model to the original design and calculate and deviation with maximum accuaracy. Machines are located in a temperaturecontrolled room, isolated from foundry environment. Complete dimensional and characteristics reports are supplied, under request, to our customers.

MACHINING, PAINTING, PRESSURE AND TIGHTNESS TEST

Our company takes care of all the supply chain stages and processes.
This allows our customers to improve the quality they receive and only one contact partner for the whole process.
CNC Machining pressure & tightness test processes are between the most appreciated ones by our customers.
We choose the best suitable process from our portfolio and partners.
For finishing processes we offer a wide range of services, like painting, anodizing, platting, impregnation, etc.
or even tailor made processes for single units or to high volume series,
taking care of both the different sizes and perfomances.

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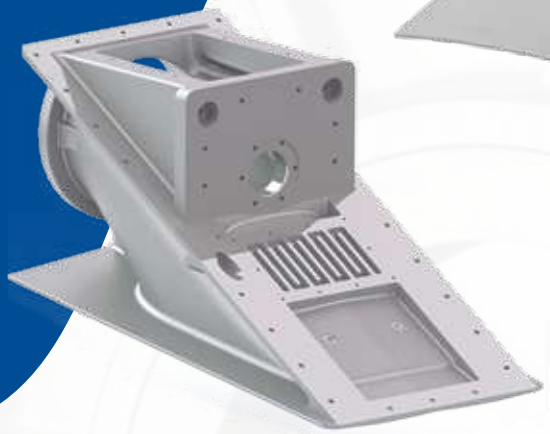
PRODUCTS



INDUSTRIAL

410 x 440 x 170 mm
16" x 18" x 7"

13 kg
29 lb

AlSi7Mg0,6

MARINE

810 x 390 x 360 mm
32" x 16" x 14"

29 kg
64 lb

AlSi7Mg0,3 T6

ENGINE

560 x 390 x 525 mm
22" x 16" x 21"

52 kg
114 lb

AlSi7Mg0,3 T6

ENERGY

890 x 320 x 280 mm
36" x 13" x 11"

18 kg
40 lb

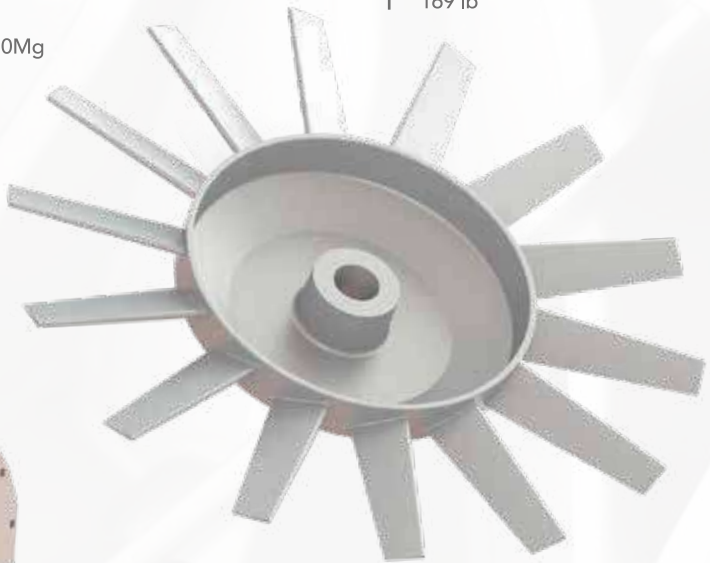
AlSi10Mg

ENERGY

650 x 555 x 450 mm
26" x 22" x 18"

77 kg
169 lb

AlSi7Mg0,3 T6



DEFENSE

490 x 820 x 210 mm
20" x 33" x 8"

29 kg
64 lb

AlSi7Mg0,3 T6
(piece with iron inserts)

ENERGY

630 x 525 x 420 mm
25" x 21" x 17"

37 kg
81 lb

AlSi7Mg0,3 T6

INDUSTRIAL

1200 x 1200 x 160 mm
48" x 48" x 6"

36 kg
79 lb

AlSi7Mg0,3 T6

ENERGY

585 x 340 x 250 mm
23″ x 14″ x 10″

38 kg
84 lb

AlSi7Mg0,3 T6

MARINE

1250 x 140 x 735 mm
50″ x 6″ x 29″

240 kg
528 lb

AlSi7Mg0,3 T64

MARINE

2680 x 930 x 670 mm
107″ x 37″ x 27″

315 kg
693 lb

AlSi7Mg0,3

AGRICULTURE

320 x 680 x 645 mm
13″ x 27″ x 26″

43 kg
95 lb

AlSi7Mg0,3 T6

INDUSTRIAL

300 x 270 x 270 mm
12″ x 11″ x 11″

12 kg
26 lb

AlSi7Mg0,3 T6

DEFENSE

700 x 580 x 270 mm
28″ x 23″ x 11″

43 kg
95 lb

AlSi7Mg0,3 T6
(piece with iron inserts)

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PRODUCTS

OIL & GAS

350 x 265 x 270 mm
14" x 11" x 11"

21 kg
46 lb

AlSi7Mg0,6 T6

ENERGY

965 x 765 x 670 mm
39" x 31" x 27"

112 kg
246 lb

AlSi7Mg0,3 T6

ENGINE-TRUCK

550 x 535 x 185 mm
22" x 21" x 7"

20 kg
44 lb

AlSi7Mg0,3 T6

AGRICULTURE

920 x 425 x 955 mm
37" x 17" x 38"

78 kg
172 lb

AlSi7Mg0,3 T6

AGRICULTURE

905 x 385 x 555 mm
36" x 15" x 22"

44 kg
97 lb

AlSi7Mg0,3 T6

ENERGY

850 x 775 x 300 mm
34" x 31" x 12"

80 kg
176 lb

AlSi7Mg0,3 T6

INDUSTRIAL

630 x 405 x 255 mm
25" x 16" x 10"

28 kg
62 lb

AlSi10Mg

AUTOMOTIVE

250 x 290 x 330 mm
10″ x 12″ x 13″

10 kg
22 lb

AlSi7Mg0,6 T6

AUTOMOTIVE

240 x 255 x 175 mm
10″ x 10″ x 7″

4 kg
9 lb

AlSi7Mg0,6 T6

RAILWAY

375 x 350 x 360 mm
15″ x 14″ x 14″

15 kg
33 lb

AlSi7Mg0,3 T6

INDUSTRIAL

810 x 600 x 540 mm
32″ x 24″ x 22″

70 kg
154 lb

AlSi7Mg0,3

ENGINE

715 x 675 x 255 mm
29″ x 27″ x 10″

63 kg
139 lb

AlSi7Mg0,3 T5

ENGINE-TRUCK

585 x 420 x 355 mm
23″ x 17″ x 14″

23 kg
51 lb

AlSi7Mg0,3 T6

ENERGY

545 x 315 x 315 mm
22″ x 13″ x 13″

13 kg
29 lb

AlSi10Mg

RAILWAY

355 x 190 x 365 mm
14″ x 8″ x 15″

13 kg
29 lb

AlSi7Mg0,3 T6

ENGINE

480 x 420 x 250 mm
19″ x 17″ x 10″

18 kg
40 lb

AlSi7Mg0,3 T6

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GRUPO ALUMINIOS DE PRECISIÓN

GRUPO ALUMINIOS
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MAD
Madrid International airport
2 hours

BIO
Bilbao European airport
1,5 hours

RGS
Burgos Regional airport
15 minutes

TIR
French border, Irún
2 hours