

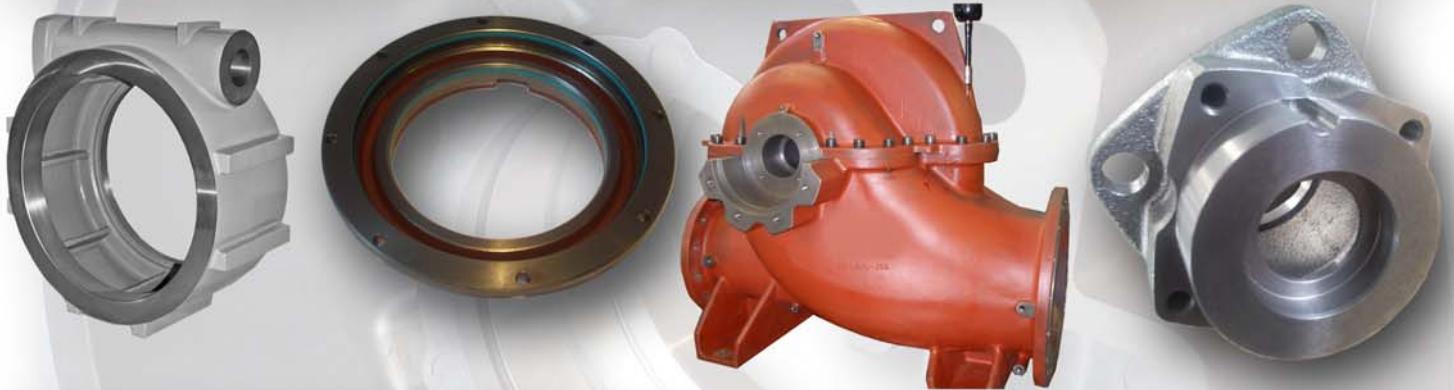


We are a partner of a large foundry association . Each foundry is certified and has his special casting opportunities and competences. Thus we are able to meet the demands of our customers in every way and always have the perfect raw part ready for further machining processes. Our casting parts will be manufactured and machined by us completely and will be delivered usually ready to install, on request also with coating. We machine and deliver all common gray-, ductile- and steel cast alloys. ALFORM products have proven themselves and are already installed in various machines, plants, vehicles and also drive systems and shipbuilding all over the world, . Piece weights from ca.0,5 kg up to 8.000 kg are possible.

Gray cast iron alloys which we use:

GG 15, GG 20, GG 26, GG 30, GG 35, GG 40

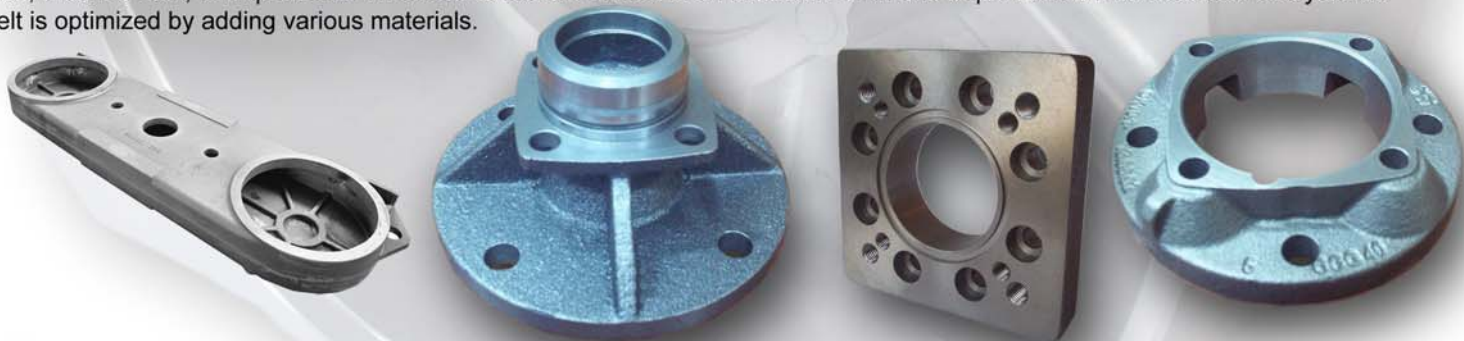
Technically respectively metalurgically cast iron is a mixture from graphite, (lamellar graphite, spheroidal graphite,vermicular graphite and tempered coal) and matrix (ferrite, perlite). The material-properties of the various varieties of castiron determine by the form of the graphite, size, distribution and quantity predominantlly the mechanical resistance of the material.



Spheroid ductile cast iron alloys which we use:

GGG 40, GGG 40.3, GGG 50, GGG 60, GGG 70, GGG 80, GGG 90.

The basic substance can consist of Ferrit or Perlit. As raw material are used raw iron, scrap iron, ferrosilicon and addtives like lime, coke, crushed rock, and quarz etc. These additives are melted in an induction-oven and dependent on the results of analysis the melt is optimized by adding various materials.



Steel cast alloys

All common sorts of steel can be used, also stainless steel. Cast steel consists of iron-carbon alloys with a maximum of 0,6% silicon and up to 1% of manganese. It's share of carbon of up to 0,5% determines significantly it's strength. It contains differently high shares of alloy - components like chrome, molybdenum, nickel, tungsten, vanadium and others. All usual sorts of steel can be applied, also stainless steel.

Because of the many different sorts of steel, cast steel can be used manifold. It is suited especially when high structural strength, toughness, high thermal exposure or chemical properties are required. Cast steel is suitable for small as well as for large parts (for example housings of steam turbines)

