



STAINLESS STEEL CASTINGS

NICKEL STEEL ALLOYS

CENTRICAST AND MECHANICAL TUBES

CENTRICAST PIPES FOR HYDRAULIC CYLINDERS AND PRESSURE ACCUMULATORS

Centrifugally cast pipes are a viable solution for the production of hydraulic cylinders and pressure accumulators, when pipe and lengths are relevant. Main advantages of centricast execution are:

- The possibility to reach all possible diameters not only through machining, but also without necessity to increase too much mechanical allowances, minimizing pipe weight and cost
- Once a dedicated metallic mould is available, production cycle can be very rapid, for sure much shorter, than competitive technologies, so small lots can be produced in few weeks and relevant ones in short terms, compatibly with duration of machining process, because centrifugal casting and heat treatment are processes granting high productivity
- It's possible to receive from our productive structure pipes in all conditions: raw and simply heat treated, premachined, finish machined, inclusive of honing process, fully tested
- Wide range of special alloys are available, produced through licence from outstanding metallurgical world leaders, like Sandvik Steel AB, Outokumpu Oy, Haynes Intl.. Licences allow our Company to address the research Depts of such licensors, for all type of problems, where our experience or our R&D Dept. are not in condition to clarify issues, generally and mostly related to optimal alloy choice for specific environments
- Cost issue: as a general rule as higher in alloy content, as more competitive will be the centricast component in relation to alternative technologies.

Dimensional Range of production

Provided the mould availability or its practical creation, centricast pipes can cover for cylinders following dimensional range:

- OD between 90 and 700mm
- ID between 10 and 100mm (the most competitive range is normally located between 25 and 60mm wall thickness after machining, being welded plates a better solution in lower walls and heavy forgings or trepanned bars in thicker sizes)
- Lengths from 400/500mm up to 4700mm
- Finish weights per pipe once machined up to 4000 Kgs (5000Kgs as cast)

Alloys

All corrosion resistant stainless alloys (martensitic, ferritic, austenitic, duplex, superduplex, superaustenitic and nickel base alloys can be produced). High temperature materials are also available, but not often requested for such type of application. Low alloyed steels cannot be centricast, due to their very low mechanical strength just after solidification in full ferritic phase. For more details on alloys please visit website www.fondinox.com.

Machining

All types of machining operations can be performed in our Company and in a set of qualified machinists, specialized in the production of long products in special alloys, inclusive final honing.

Contacts

Our sales Dept. is available to provide suitable and rapid offers. Make reference to michele.morini@fondinox.com. Also visits to our premises or our machining Depts. are welcome, in order to discuss in deeper details, not only our capabilities, but also our strong involvement in production of long and heavy pipes for cylinders for a lot of world Leader Producers of such components.



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