Dura-Bar vs. Castings

- No typical casting defects
- Dense fine-grained microstructure
- Zero-Defect Guarantee
- No pattern or tooling costs
- Over 500 sizes available from inventory

Dura-Bar continuous cast iron is a high quality alternative to castings. The advantages of Dura-Bar over castings are many. With Dura-Bar, there are no defects like those typically found in castings – e.g., porosity, slag, hard spots, shrinkage, etc. In fact, Dura-Bar comes with a unique Zero Defect Guarantee that not only provides for the replacement of any defective material, but also for reimbursement of costs involved with machining it.

Dura-Bar's material consistency stems from the continuous casting process used to produce it. Continuous casting involves pulling bars through a graphite die at the bottom of a crucible filled with molten iron. Dross, slag, and other impurities float to the top of the crucible and never make it into the cast bars.

Besides eliminating defects, continuous casting also yields an especially fine-grained microstructure which permits faster machining and extended tool life. This boosts throughput and lowers a manufacturer's cost per part. It also permits better surface finishes.

If you have a part currently made from a casting, contact Dura-Bar today to learn more about improving material quality and costs savings options.

Above is an example of a pump nozzle fitting, made from Dura-Bar (left) and as a casting.