

Impeller

Industry	Pump and Compressor
Dura-Bar Grade	65-45-12 Ductile Iron
Original Material	Iron Sand Castings
Problems Solved	Material Quality, Machinability, Reduced Scrap



Shown is a piece of Dura-Bar in the near-net shape of the impeller, prior to machining.

A manufacturer of impellers had problems with both inconsistent material quality and long lead times. The iron sand castings they were using had porosity, so Dura-Bar was a natural alternative due to no sand in the process. Because the impeller is made in multiple lengths, a custom near-net shape from Dura-Bar meant no more pattern costs or long lead times. Superior machinability was an additional benefit, with faster cycle times and ultimately significant cost savings.

The conversion to Dura-Bar made a dramatic difference for this customer, with improvement in cost, consistent quality, machinability as well as availability.

