Flexible Shaft Coupling

Industry	Pump & Compressor
Specification	Dura-Bar 65-45-12
Redesign	From gray iron sand castings
Design Advantage	Shortened lead times
Cost Savings	Part cost reduced by 10%

The customer converted to Dura-Bar for a number of reasons, including availability, consistent quality and machinability. Lengthy lead times were becoming the norm for the machine shop purchasing the material used in this flexible shaft coupling. It could take anywhere from 12 to 20 weeks for the shop to receive its material. When the customer finally obtained his order, he often ran into a notorious problem with sand castings: inconsistent quality.

By purchasing Dura-Bar through its extensive distributor network, the customer was able to schedule material when he needed it, even as quickly as the next day, reducing inventory costs, and headaches.

Dura-Bar's process virtually eliminated scrap costs from the shrinkage, porosity and tool-wearing inclusions that frequently occur in static iron castings. The result is improved machinability (the customer reduced his cycle times by 20 percent), extended tool life and reduced scrap. That translates into a direct cost savings in the production of the final part. In this application, Dura-Bar forms the hub, which is approximately 3" in diameter. This coupling is used in a wide variety of industries, including the pulp and paper, steel, petrochemical and pumps.

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