



## Press Information

### New design possibilities with cleaner steels

#### **Cleaner steels by Ovako are opening up new design opportunities and extending service life for high performance parts.**

Today, more than ever, high performance components are expected to withstand higher loads over longer periods of time. Ovako clean steels can facilitate significant opportunities to rethink design solutions for improved safety, time and cost savings in a range of applications.

IQ-Steel® has minimized the size of inclusions which dramatically increases its fatigue strength in all directions, while BQ-Steel® is the more traditional choice for improved fatigue strength in demanding applications. Both groups of materials can help customers in many other industries to achieve lighter, stronger, more efficient and compact component designs.

IQ-Steel (Isotropic Quality) is a family of isotropic, ultra clean steels designed so that inclusions remain below a critical size with properties that match remelted steel. The pure and highly consistent quality is achieved without complex remelting processes that add considerably towards energy consumption and material price. The resulting isotropic properties give two or three times the fatigue performance of conventional steel grades. IQ-Steel can upgrade the performance of gears, camshafts or safety-critical components that are subjected to high, complex and cyclic loading.

For high stresses in less complex load cases, well-proven high performance is available from the BQ-Steel family (Bearing Quality). Supplied for 100 years to high-quality bearing manufacturers, the steels have significantly smaller inclusions than conventional steels, which increases fatigue strength and creates new design possibilities in many high-stress applications.

Working closely with customers Ovako optimises the steel performance for applications, producing cost effective material solutions in the form of bars, tubes, rings and pre-components. The centrally located UK Service Centre satisfies the supply of one-off or multiple piece product orders and operates a dedicated cut-to-length and material distribution services.

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**On behalf of:**

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