

Shaft Material Selection (Temperature)

The temperatures listed below are guideline temperatures only.

Standard Shaft Material:

Material	Maximum Recommended Operating Temperature* (Degrees Centigrade)	Commonly Used Applications
Mid Range Carbon Steel (EN8)	180C	Due to high Standard tensile strength, EN8 is used in most of our industrial applications.

Stainless Steel Shaft Material:

Material	Maximum Recommended Operating Temperature* (Degrees Centigrade)	Commonly Used Applications
316	600C	Used mainly in chemical applications.
304	600C	Used mainly in food/hygiene processing applications.
321	650C	Mid/High Temperature applications.
310	1100C	High Temperature Applications.

**As operational stress', such as oxidisation rates, cyclonic heating, cooling rates, chemical/acidic exposure and flame exposure etc... Vary from job to job. We cannot guarantee these temperatures. All of the variants listed above affect the maximum operating temperature of each individual product. All "Maximum Recommended Operating Temperatures*" are guidelines based on components that we manufacture for current customers. For more Information, or if you are unsure please [contact us](#).*

Specialist Shaft Materials for use in temperatures exceeding 1100C:

We also manufacture shafts made from high performance alloys for operating temperatures above 1100C. For shafts that operate in temperatures in excess of 1100C please [Contact Us](#).