

GR Shaft (Grain Refinement Shaft)

NEW
TECHNOLOGY

We have succeeded in refinement of surface texture of shafts by YSK technology of induction hardening treatment. At last high strengthened shaft is born by this texture refinement. It is 1.4 times of rotating strength and 10 times of abrasion resistance strength than conventional shafts. We have substantiated compacting and weight reduction of shafts for press machines and rolling rollers. The refinement shafts solve your problems and respond to a demand, Our technology can make shafts with further strength and further prolong it's life.

1.4 times of rotating strength

10 times of abrasion resistance strength

For example the strut of press machine

You can make shafts small size from 100 diameter to 75 diameter as well by the specification.

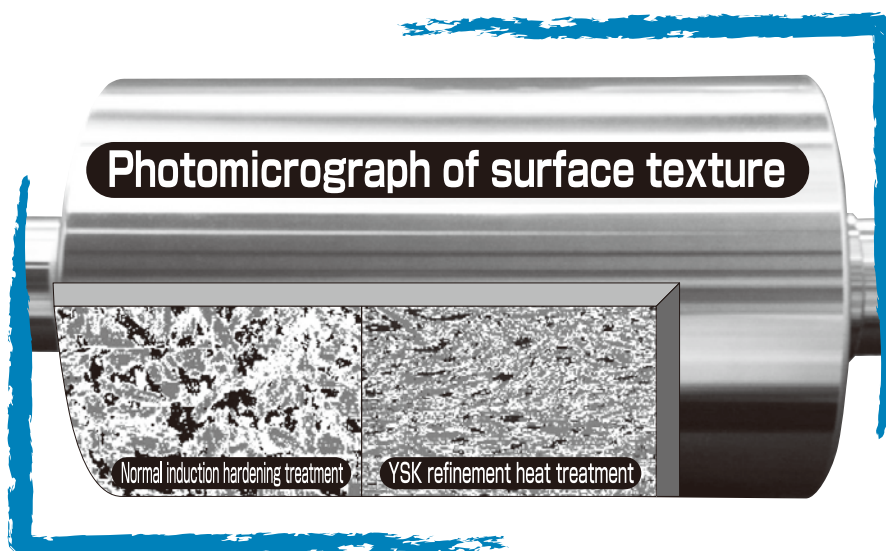
For these distress.

You want to prolong life of shafts.

You want to make shafts be excellent for abrasion resistance.

You want to let shafts have further strength.

You want to make equipment be compacting.

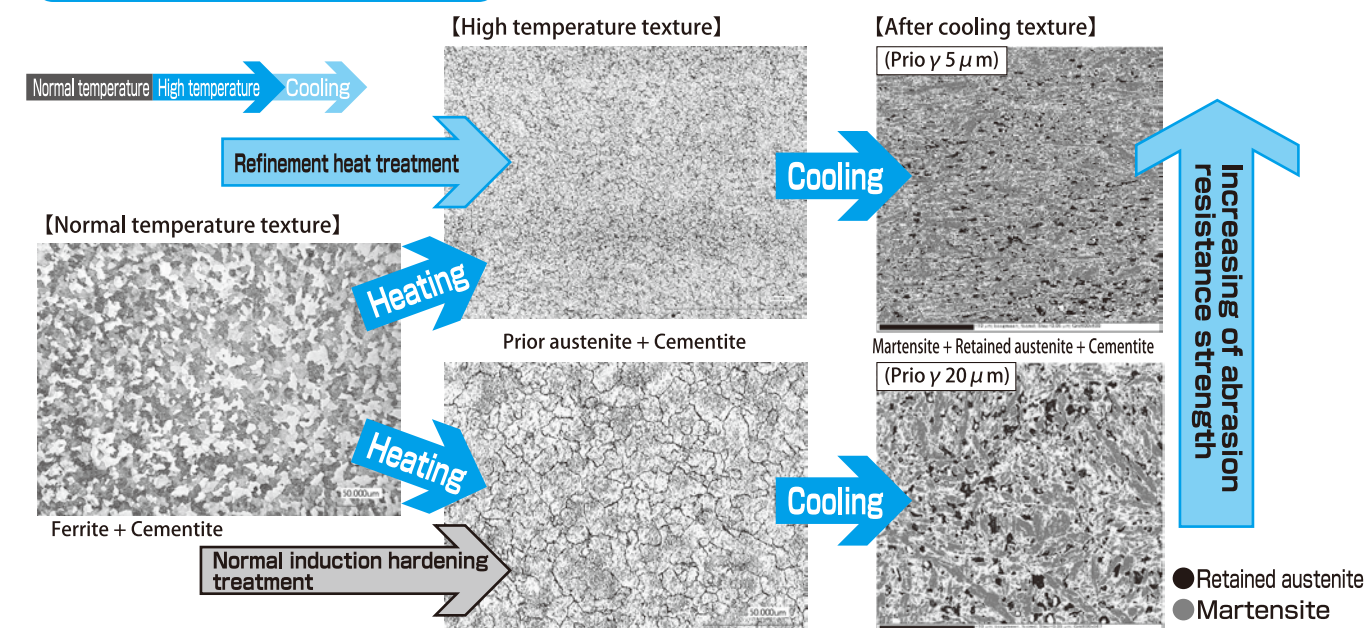


Why could YSK make high-strengthened shafts? Because we have made surface texture be refinement.

Instead of depending on adding alloy elements, we refine crystal grains by using our induction hardening technology and have succeeded increase the strength of steel.

Photomicrograph of surface steel texture

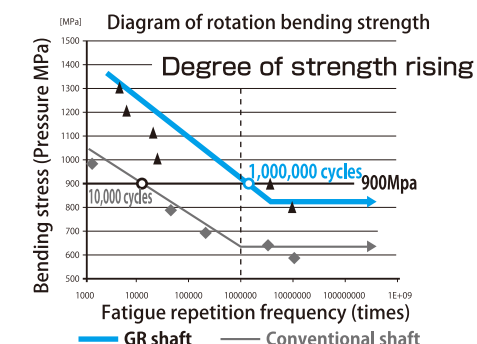
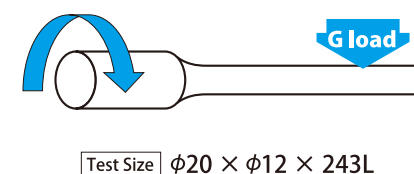
The process of quenching



Verified data of GR shaft

Please look at the ability of refinement high strength shafts by verified data.

Increasing of the rotary strength



Increasing of abrasion resistance strength

