

# Induction Hardened K1045 Bright Shaft

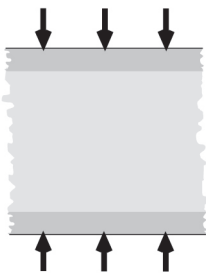


**Buy from us today...**

And machine your own long-wearing high tensile pins tomorrow!

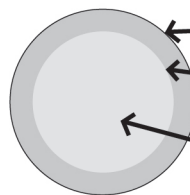
We have 6m lengths ex stock from 19mm dia. to 140mm Diameter.

For this improved engineering concept:



**HEAVY WALL  
CASE COMPRESSING  
DUCTILE CORE  
GIVES HI - TENSILE  
STRENGTH!**

DIMENSIONALLY  
STABLE TO  
h10 TOLERANCE



**HARDNESS 56 TO 60 ROCKWELL C**

**CASE DEPTH: 2.5 TO 4.0mm**

**DUCTILE CORE: UNAFFECTED BY HEAT TREATMENT  
STRAIGHTNESS OF ORIGINAL SHAFTING**

This *Pre-Hardened Shafting* is easily machined with Tungsten Carbides such as Mitsubishi VP15TF and Iscar IC907 Carbide, Whisker reinforced Ceramics etc.

#### **Part it off in the lathe!**

Using Iscar IC908, IC354 or IC328 Tungsten Tips, Tungaloy

#### **Machine circlip grooves!**

As narrow as 1.2mm with Iscar IC908

#### **Cross- Drill bolt holes!**

With masonry drills, solid carbide etc, or spot anneal with flame, then drill with High Speed Steel.

#### **Bore it!**

With conventional tools within 5mm of surface!

#### **Mill it!**

With Iscar IC908 & IC830 tungsten inserts.

#### **Weld it!**

With general purpose electrodes & MIG Welding.

#### **THE EARTHMOVING ENGINEER'S FIRST CHOICE:**

Most pins used in earthmoving equipment by original manufacturers are *Induction Hardened K1045*.

**Toughness** - the ability to resist breaking ~ is best produced by *Induction Hardening* resulting in much higher tensile shear and yield strength than *Hardened & Tempered 4140*.

**Surface hardness** - the ability to resist wear by abrasion ~ is produced to greater depths by *Induction Hardening* to an optimum 58 rockwell C (625 brinell) giving wear life up to 10 times longer than *Hardened & Tempered 4140*

#### **THE EARTHMOVING ENGINEER'S ULTIMATE PIN**

KSet Super Pin material is made by *Induction Hardening* the precision ground *Hardened & Tempered 4140* steel that is available from the steel stores to

Never use ordinary *Hardened & Tempered 4140* again!