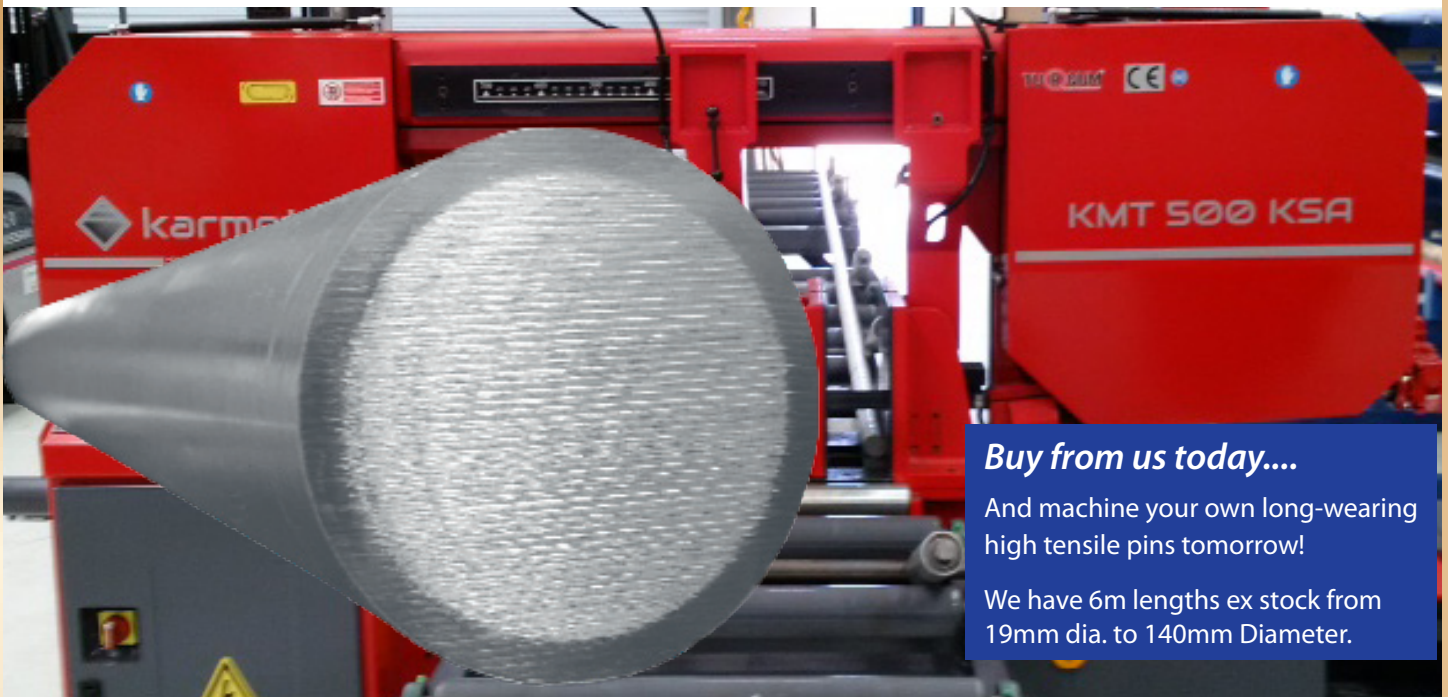


# Induction Hardened K1045 Bright Shaft

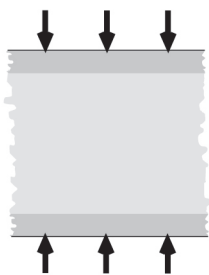


**Buy from us today...**

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

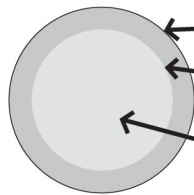
We have 6m lengths ex stock from 19mm dia. to 140mm Diameter.

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 (as available from steel stores) to 58 Rockwell C

Never use ordinary *Hardened & Tempered 4140* again!

# Induction Hardened K1045 Round Bar - Pin Steel

SHAFTS - Convenient ONE METRE Lengths				
Diameter		Length	Price EX GST	Weight
3/4"	19mm	1000mm	\$ 50	2.3kg
	20mm	1000mm	\$ 50	2.5kg
7/8"	22.2mm	1000mm	\$ 60	3.0kg
	25mm	1000mm	\$ 60	3.9kg
1"	25.4mm	1000mm	\$ 60	4.0kg
1 1/8"	28.5mm	1000mm	\$ 90	5.0kg
	30.0mm	1000mm	\$ 70	5.6kg
1 1/4"	31.7mm	1000mm	\$ 76	6.2kg
	35mm	1000mm	\$ 90	7.6kg
1 1/2"	38.1mm	1000mm	\$ 90	9.0kg
	40mm	1000mm	\$ 100	9.9kg
1 3/4"	44.4mm	1000mm	\$ 120	12.2kg
	45mm	1000mm	\$ 120	12.5kg
2"	50mm	1000mm	\$ 150	15.4kg
	50.8mm	1000mm	\$ 150	16.0kg
2 1/4"	55mm	1000mm	\$ 190	18.7kg
	57.1mm	1000mm	\$ 190	20.2kg
2 1/2"	60mm	1000mm	\$ 200	22.2kg
	63.5mm	1000mm	\$ 220	24.9kg
2 3/4"	65mm	1000mm	\$ 240	26.1kg
	69.8mm	1000mm	\$ 290	30.1kg
3"	70mm	1000mm	\$ 290	30.2kg
	75mm	1000mm	\$ 330	34.7kg
3 1/4"	76.2mm	1000mm	\$ 350	35.8kg
	80mm	1000mm	\$ 400	39.5kg
3 1/2"	82.5mm	1150mm	\$ 480	42.0kg
	85mm	1000mm	\$ 450	44.6kg
3 3/4"	88.8mm	1000mm	\$ 490	48.7kg
	90mm	1000mm	\$ 500	50.0kg
4"	95mm	1000mm	\$ 540	55.6kg
	100mm	1000mm	\$ 610	61.7kg
4 1/2"	101.6mm	1000mm	\$ 670	63.7kg
	110mm	1013mm	\$ 820	75.2kg
5"	115mm	1060mm	\$ 860	81.6kg
	120mm	1014mm	\$ 880	90.0kg
5 1/2"	125mm	1100mm	\$ 1060	96.4kg
	130mm	1030mm	\$ 1090	107.4kg
6"	135mm	1000mm	\$ 1200	115.8kg
	140mm	1014mm	\$ 1200	123.0kg

PINS - 50mm Mild one end - Easy Drilling				
Diameter		Length	Price EX GST	Weight
1 3/4"	40mm	600mm	\$ 70	6.0kg
	44.4mm	600mm	\$ 80	7.3kg
2"	45mm	600mm	\$ 80	6.3kg
	50mm	600mm	\$ 110	9.3kg
2 1/4"	50.8mm	600mm	\$ 110	9.6kg
	55mm	600mm	\$ 130	11.2kg
2 1/2"	57.1mm	600mm	\$ 140	12.1kg
	60mm	600mm	\$ 160	13.3kg
2 3/4"	63.5mm	600mm	\$ 170	15.0kg
	65mm	600mm	\$ 180	15.6kg
3"	69.8mm	600mm	\$ 190	18.0kg
	70mm	600mm	\$ 200	18.1kg
3 1/4"	71mm	850mm	\$ 496	26.7kg
	75mm	600mm	\$ 220	20.8kg
3 1/2"	76.2mm	600mm	\$ 230	21.5kg
	76.2mm	800mm	\$ 310	28.7kg
3 3/4"	80mm	500mm	\$ 230	19.8kg
	80mm	600mm	\$ 260	23.7kg
4"	80mm	800mm	\$ 350	31.6kg
	82.5mm	600mm	\$ 280	25.2kg
4 1/2"	85mm	600mm	\$ 280	25.2kg
	85mm	800mm	\$ 380	35.6kg
4 3/4"	88.8mm	600mm	\$ 320	29.2kg
	88.8mm	800mm	\$ 420	39.0kg
5"	90mm	600mm	\$ 330	30.0kg
	90mm	650mm	\$ 360	32.5kg
5 1/2"	90mm	800mm	\$ 430	40.0kg
	95mm	600mm	\$ 370	33.4kg
5 3/4"	95mm	800mm	\$ 490	44.5kg
	100mm	600mm	\$ 420	37.0kg
6"	100mm	800mm	\$ 480	49.4kg
	101.5mm	600mm	\$ 440	38.2kg
6 1/2"	110mm	650mm	\$ 550	44.8kg
	110mm	800mm	\$ 720	59.7kg
7"	120mm	650mm	\$ 670	57.7kg
	120mm	800mm	\$ 810	71.0kg

## BULK DISCOUNT SCHEDULE:

APPLIES ONLY TO SINGLE CONSIGNMENTS OF THE ABOVE BARS, WHETHER MIXED DIAMETERS OR THE SAME

1 Tonne Rate: 30% Discount (950kg to 1250kg.)

1/2 Tonne Rate: 22% Discount (450kg to 949kg)

Standard Manufacturing Tolerance for Bright Bar is h10.

h10 = Plus 0.0mm / Minus amount shown below:

Round Bar up to 30mm Ø: -0.084mm | 31 to 50 Ø: -0.1mm | 51 to 80 Ø: -0.12mm | 81 to 120 Ø: -0.14mm