

## INSTALLATION, MAINTENANCE & SERVICE BULLETIN

# KING PIN H/D Bolt-in

#### **INSTALLATION**

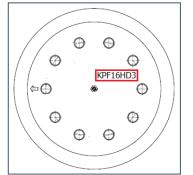
- **For All:** Installation and Maintenance procedure shall be strictly in accordance to AS/NZS 4968. 1, 2 and 3 (2003), VSP6 Section P and other statutory requirements by regulatory authorities.
- **Note:** All Welds shall be subject to process control. Preheat the welding areas to 200° to 300° Celsius. Use low Hydrogen Techniques and where necessary post weld treatment. Only qualified welders and trades people should perform the welding & assembly tasks.

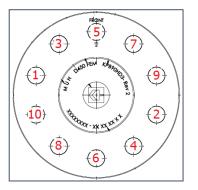
#### <u>Bolt-in</u>

Ensure retention plate corresponds with the skid plate thickness. This can be found on top of the retention plate.

KPF**16**HD Used with 16mm skid plate.

KPF**20**HD**3** Used with 20mm skid plate.





Only use genuine retaining bolts.

**KPB90HD** (Dry condition with Loctite 263)

Install 8 M20x2.5x50 Class 10.9 bolts and torque to **528Nm** after the welds are cool.

**KBP90HD3** (Dry condition with Loctite 263)

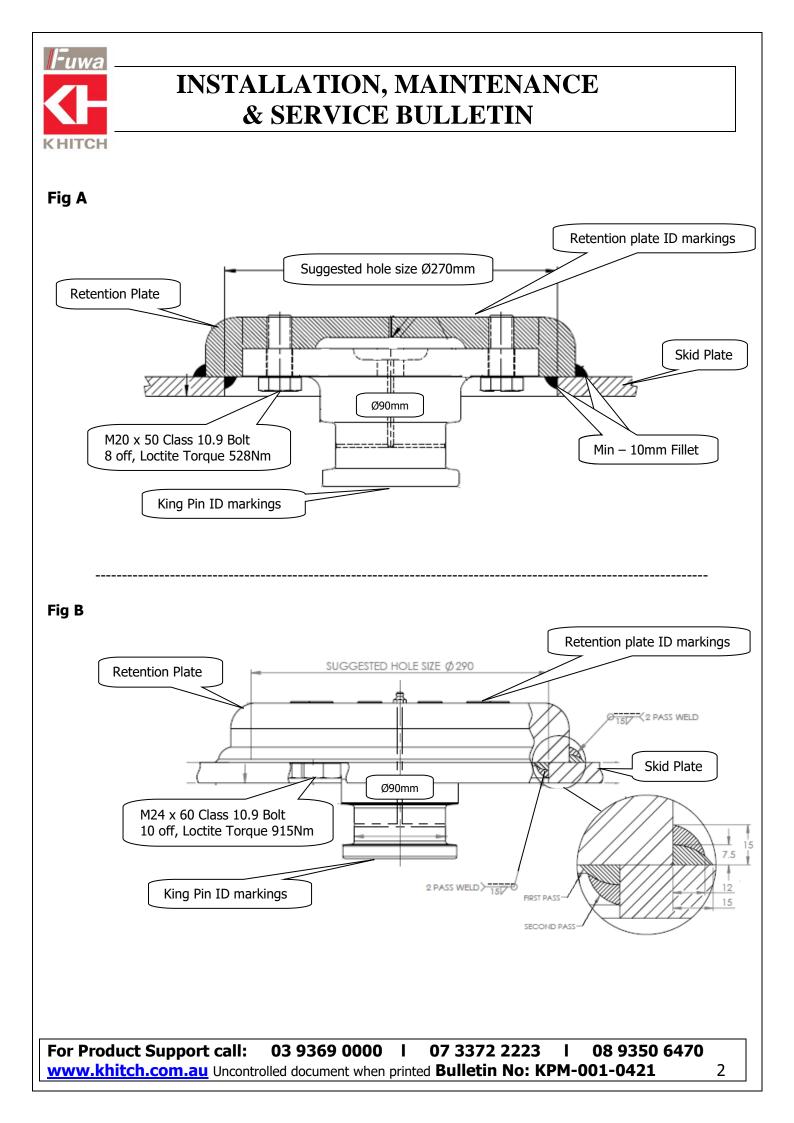
Install 10 M24x3x60 Class 10.9 bolts and torque to **915Nm** after the welds are cool.

Weld to inside and outside of the retention plate and please refer to

Fig A (HD 90mm) and B (HD3 90mm) for the details on PAGE 2.

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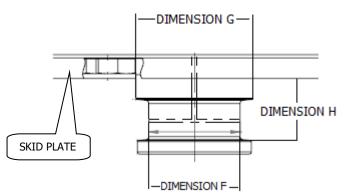


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#### WEAR LIMITS

King pin dimensions should be checked at regular intervals and should be replaced if wear limits are exceeded.

Use the FKH Wear Gauges for simple checking (see page 4 for more details).



KING PIN SIZE	DIMENSION	STANDARD	WEAR LIMITS
90mm	F	89.00 ± 0.1 mm	86 mm minimum
	G	114.00 ± 0.1 mm	112 mm minimum
	Н	59.5 ± 1.5 mm	62 mm maximum

#### **MAINTENANCE**

- Apply grease to kingpin daily, either via grease nipple at top of retention plate when coupled or to kingpin when uncoupled.
- Inspect king pin and skid plate Fortnightly (This is a guild only; frequency does depend on the application).
- Check for damage, wear and cracks (see page 4 for more details).
- After installing a new king pin, check retaining bolt torque again after 5,000km.
- Check retaining bolt torque every 50,000km (This is a guild only, frequency does depend on the application).

**Note:** If excessive wear is detected on the king pin (check wear limits) or the skid plate is scored it is probable that the turntable jaws and top plate on the turntable will bear corresponding wear/scoring. Repair or replace the items as necessary to maintain the integrity of the turntable connection and stay within the allowable wear limits.

**Note**: Re-machining of King Pins or 'building-up' of King Pins by welding to achieve or restore required dimensions is **NOT** an acceptable practice.

#### IMAGES ARE FOR ILLUSTRATION PURPOSES ONLY

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### Check the Kingpin!

Check your kingpin regularly.

Please consider the application, km's travelled, the number of coupling and un-coupling operations and how these actions are performed by various operators, any incidents which may have caused any excessive loads on the king pin?

Using the FKH Wear Gauge will make checking the kingpin for wear and tear easy.

NO-GO gauge: The kingpin MUST be replaced if indicated diameter enters the gauge slot.



Is the Kingpin still squarely installed?

Are there signs of damage to the kingpin?

Are there any impact signs?

Checked the mounting bolts?

Will this kingpin last to the next check?





### If there is the slightest doubt – replace the kingpin!

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