

HOLLAND KINGPINS

THE ADVANTAGE OF
HOLLAND KINGPIN
TECHNOLOGY



THE IMPORTANCE OF A "SAFE" CONNECTION.

Your fifth wheel and kingpin are two of the most important components on your trucks. That connection is the heart of your operation, and you need to know that it will be safe, reliable and consistent every time you hit the road. Since 1910, Holland kingpins have been designed and manufactured to be the industry's most innovative, safe and reliable tractor-trailer connection components, utilizing a precisely integrated "systems" approach that ensures that every Holland kingpin will perform the right way, every time.

"RAISING THE BAR" ON KINGPIN PERFORMANCE STANDARDS.



All Holland kingpins must meet or exceed industry standards that define the boundaries of kingpin design, manufacture and use. The SAF-HOLLAND Performance Advantage continues to set the standard and "raise the bar," making Holland kingpins the first choice of OEMs and fleets that are serious about trucking.

THE VALUE OF HOLLAND KINGPIN TECHNOLOGY.

Trust takes years to earn, and minutes to lose. SAF-HOLLAND accepts the responsibility to engineer and manufacture kingpins that earn the trust of every customer.

The fact is, over three million Holland kingpins have been manufactured in over 60 years.

Simply, Holland kingpins perform day in, day out, because they are made only one way. The right way.

CAREFULLY-CONTROLLED MANUFACTURING.

At SAF-HOLLAND, we take quality control seriously. From the making of the steel to forging to delivery, SAF-HOLLAND tracks every aspect of manufacturing for every kingpin we make. All Holland kingpins are manufactured following our three-step process:

- **PRECISION STEEL SPECIFICATION.** Because the final forging can never be "cleaner" than the original steel, SAF-HOLLAND requires a specific level of cleanliness and chemical composition at the mill. The steel we use must consistently meet those standards, or we won't use it.
- **CAREFULLY MONITORED FORGING.** The forging process is carefully specified and continually monitored. Before each forging is released, we conduct demanding dimensional control, magnetic particle and micro etch tests to make certain surface conditions and grain flow meet our specifications.
- **PRECISION, QUALITY MANUFACTURING.** All forgings are carefully inspected at receiving inspection, and at several stages throughout the manufacturing process. All Holland kingpins must meet rigid SPC requirements in the machining process to ensure dimensional tolerance and consistency. All are carefully monitored in the heat treatment process to provide process uniformity and optimum structural integrity.

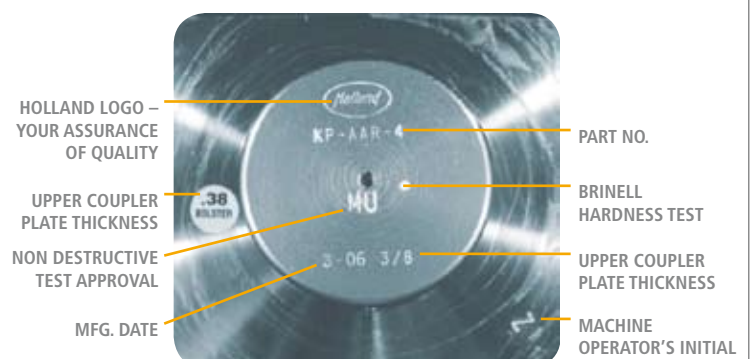
KINGPIN CONTROL PROCEDURE

PRODUCTION AT STEEL MILL	Chemistry and steel cleanliness
FORGED SHAPE	Dimensional shape/ Grain flow
RECEIVING INSPECTION	Grain flow, surface cleanliness, dimensions, metallurgy
MANUFACTURE OF KINGPIN	Dimensional tolerance, heat treatment
TESTING	Brinell, magnetic particle, ultrasonic, dimensional

DEMANDING TESTING.

Because our customers depend on Holland kingpins to keep their equipment on the road, our testing process is the most comprehensive and demanding in the world. Every Holland kingpin must pass three major non-destructive test inspections before it receives the SAF-HOLLAND stamp of approval.

- 100% Brinell Hardness Test. Verifies the hardness level to a required depth within a defined hardness range.
- 100% Magnetic Particle Test. Confirms surface cleanliness and freedom from surface defects.
- 100% Ultrasonic Tests. Ensures the integrity of the kingpin below the surface.





MUSHROOM SERIES KINGPINS



50 mm (2") SAE KINGPINS

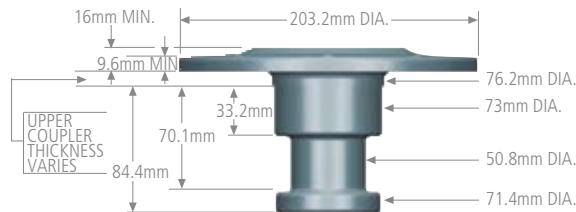
MODEL	STEEL ALLOY	BRINELL HARDNESS (BHN)	UPPER COUPLER THICKNESS	HOLES
KPT809F	8630H	302-363	10 mm (.38")	No
KPT809BF	8630H	302-363	12 mm (.50")	No

CAPACITY:

- 151 kN D-Value

WARRANTY:

- 12 Months Materials and Workmanship Warranty



REPLACEABLE SERIES KINGPINS



50 mm (2") AND 90 mm SAE KINGPINS

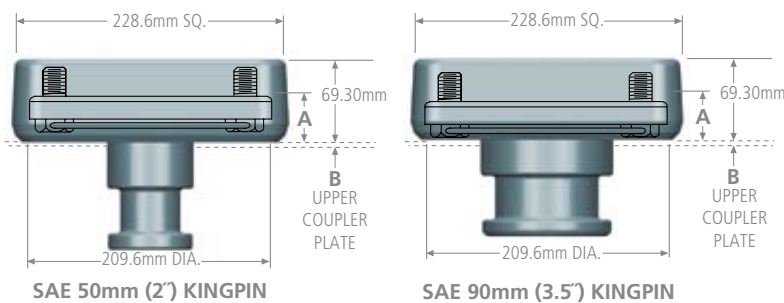
MODEL	KINGPIN DIAMETER	STEEL ALLOY		BRINELL HARDNESS (BHN)	UPPER COUPLER PLATE (B)	COUNTER BORE (A)
		KINGPIN	HOUSING			
KP0882	50 mm (2")	8630H	4130H	302-363	10 mm (.38")	1.44"
KP0883	50 mm (2")	8630H	4130H	302-363	12 mm (.50")	1.31"
KP0884	90 mm (3.5")	8630H	4130H	302-363	10 mm (.38")	1.44"
KP0885	90 mm (3.5")	8630H	4130H	302-363	12 mm (.50")	1.31"

CAPACITY:

- 200 kN D-Value

WARRANTY:

- 12 Months Materials and Workmanship Warranty



SAE 50mm (2") KINGPIN

SAE 90mm (3.5") KINGPIN

THE HOLLAND ADVANTAGE.

All Holland kingpins deliver:

HIGH IMPACT RESISTANCE.

Proper alloy selection and heat treatment provide the best balance of hardness and impact resistance without brittleness. Even at low temperatures.

MAXIMUM WEAR RESISTANCE.

Through proper alloy selection and a carefully controlled hardening process, Holland kingpins provide exceptional wear for years of dependable service.

OPTIMUM STRENGTH AND FATIGUE RESISTANCE.

Ultimate strength and yield characteristics meet all SAE and TTMA performance requirements.

EASE OF INSTALLATION.

The alloys SAF-HOLLAND uses offer excellent welding characteristics for easy installation or replacement.

APPLICATION-SPECIFIC MODELS.

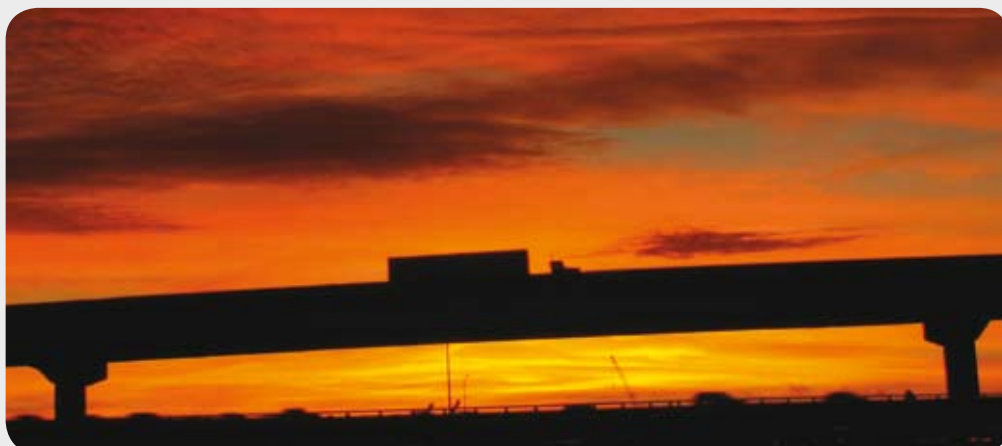
Holland kingpins are available:

- In mushroom, cruciform and double-spool configurations.
- For a variety of upper coupler thicknesses.
- As weld-on or replaceable designs.
- In SAE 2" and SAE 3.5" diameter models.
- For AAR applications: Made from AISI 4320H or 4718H alloy steel and hardened to 380-420 BHN. When properly installed, they meet all performance requirements of AAR M-931.
- For non-AAR applications: Made from AISI 8630H alloy steel and hardened to 302-363 BHN. When properly installed, they meet or exceed the following SAE and TTMA standards:

- SAE J133
- SAE J2228
- SAE J700
- SAE J848

IMMEDIATE AVAILABILITY.

Holland kingpins are available worldwide from all major OEM trailer dealer networks, OEM truck dealers and SAF-HOLLAND's independent warehouse distributor locations.





CAPACITY

- 210 kN D-Value (Type 65)
- 270 kN D-Value (Type 63)

WARRANTY:

- 12 Months Materials and Workmanship Warranty



TYPE 65 KINGPIN ASSEMBLY

50 mm (2") AND 90 mm (3.5") KINGPINS

MODEL	KINGPIN DIAMETER	SKID PLATE
KPB 62818	50 mm (2")	8 mm
KPB 62018	50 mm (2")	10 mm
KPB 62218	50 mm (2")	12 mm
KPB 50001	50 mm (2")	16 mm
KPB 62010	90 mm (3.5")	8 mm
KPB 62012	90 mm (3.5")	10 mm
KPB 62014	90 mm (3.5")	12 mm
KPB 50003	90 mm (3.5")	16 mm

Our biggest selling kingpin - standard bolt in, easily replaceable. This easily replaceable kingpin is fixed to a forged steel retention plate by means of 8 self-locking bolts (M14) grade 10.9.

PRECISE METALLURGY.

Kingpin performance is determined by carefully controlled metallurgical composition—as well as by shape and heat treatment—all tightly controlled throughout the manufacturing process. That is why SAF-HOLLAND specifies low alloy steels with balanced chemistry to provide the best combination of machinability, cost and heat-treatability with excellent strength, hardness, and impact resistant characteristics, even at somewhat, elevated hardness levels and low application temperatures. All Holland kingpins contain relatively high nickel and low carbon composition to ensure the best balance of properties.



TYPE 63 KINGPIN ASSEMBLY

50 mm (2") AND 90 mm (3.5") KINGPINS

MODEL	KINGPIN DIAMETER	SKID PLATE
KPB 62015	50 mm (2")	16 mm
KPB 62011	90 mm (3.5")	16 mm

Our heaviest duty kingpin for use in offroad and Heavy Duty combinations. This easily replaceable kingpin is fixed to a forged steel retention plate by means of 8 self-locking bolts (M20) grade 10.9.

CK22-01 Rev C 0408 Amendments and errors reserved. © SAF-HOLLAND (Aust.) Pty. Ltd.

SAF-HOLLAND (Aust.) Pty. Ltd. · PO Box 63 · 115 High St · Melton Vic 3337
Tel: (03) 9743 6799 Fax: (03) 9743 6763

Western Australia · Tel: (08) 9353 6122 Fax: (08) 9353 6144
Queensland · Tel: (07) 3375 7033 Fax: (07) 3375 7044
New South Wales · Tel: (02) 9672 1950 Fax: (02) 9672 1994
South Australia · Tel: (08) 8345 1546 Fax: (08) 8345 0985

www.safholland.com.au

