







HOLLAND KINGPINS MEET OR EXCEED INDUSTRY STANDARDS FOR QUALITY AND PRECISION













of a "safe"

The importance Your fifth wheel and kingpin are two of the most important components on your trucks. That connection is the heart of your connection operation, and you need to know that it will be safe, reliable and consistent every time you hit the road. Since the 1930s, HOLLAND couplings have been designed and manufactured to be the industry's most innovative, safe and high guality tractor-trailer connection components, utilizing a precisely integrated "systems" approach that ensures that every HOLLAND kingpin will perform the right way, every time. That is why we are the leading fifth wheel provider in North America



"Raising the bar" on kingpin performance standards

All HOLLAND kingpins must meet or exceed industry standards that define the boundries 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.

Precise metallurgy

HOLLAND kingpin performance is determined by carefully controlled metallurgical composition—as well as by shape and heat treatment—all tightly controlled throughout our 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. All HOLLAND kingpins contain relatively high nickel and low carbon composition to ensure the best balance of properties. Our metallurgy goes across both the kingpin and fifth wheel jaws to ensure maximum life for both.

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 specifications

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 macro-etch tests to make certain surface conditions and grain flow meet our specifications.

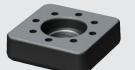
- Precision, quality manufacturing

All forgings are carefully inspected prior to machining and then again at several stages throughout the manufacturing process. All HOLLAND kingpins must meet rigid SPC requirements in the machining process to ensure tight 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	Chemistry,
at Steel Mill	Steel Cleanliness
Forged	Dimensional Shape,
Steel	Grain Flow
Receiving Inspection	Grain Flow, Surface Cleanliness, Dimensions, Metallurgy
Manufacture	Dimensional Tolerance,
of Kingpin	Heat Treatment
Testing	Brinell, Magnetic Particle, Ultrasonic, Dimensional

Replaceable Series





HOLLAND Replaceable Series

2" and 3.5" SAE Kingpin Installations

Applications

- Fast, economical kingpin replacement.
- Interchangeable 2" and 3.5" kingpin sizes.

Features

- Four weld-in housings for .25", .31", .38", and .50" bolster plate thicknesses.
- A single 2["] and a single 3.5["] kingpin are interchangeable between all housings.
- Secure kingpin installation featuring eight .75" Grade 8 bolts with safety lock wired bolt heads.

Quality

- Weld-in housings are manufactured from AISI 4130H alloy steel for strength and weldability.
- Kingpins are forged from AISI 8630H alloy steel and hardened to 302-363 BHN.
- Kingpins are 100% Brinell hardness tested, magnetic particle tested, and ultrasound tested.

For additional specification detail, refer to document number XL-KP104-01.

Replacement Parts

Kingpins

RK-0676	2" for all Housings, Includes RK-0882
RK-0677	3.5" for all Housings, Includes RK-0882

Fastener Kit

RK-0882	Bolts (8) and wire lock (1) kit
	(Bolts feature drilled heads and thread lock patch)





Routine inspection of kingpins is just as important as the inspection of its fifth wheel mating partner. The HOLLAND Kingpin Gauge is a simple and easy to use tool for indicating undersized 2" and 3-1/2" SAE kingpins in need of replacement because of wear. This multi-purpose gauge can be used to check the length and straightness of the kingpin, and check the flatness of the bolster plate. The economical HOLLAND kingpin gauge is readily available from your local dealer or distributor.







Removable Series

KINGPIN KIT PART NO.* SIZE KP-0446 2" for 5" Sq. Bolster KP-0447 2" for 6" Sq. Bolster KP-0448 3.5" for 6" Sq. Bolster Krophin Steel Alloy 4140 38" Kingpin Kits KP-0441 Store Steel Alloy 4140 50" Kingpin Kits KP-0445 Store Steel Alloy 4140 KP-0438 Kingpin Kits KP-0445 Store Steel Alloy 4140 KP-0445 Kingpin Kits Store St	2" & 3.5" SAE KINGPINS KITS			SAE KINGI	PIN HOUSINGS	
Kr occo Kr occo Kr occo Kr occo KP-0447 2" for 6" Sq. Bolster KP-0448 3.5" for 6" Sq. Bolster * Kingpin Steel Alloy 4140 KP-0441 .50" 5" KP-0445 .50" 6" Kingpin Kits KP-0445 .50" 6" SLOTTED NUT (XA-0404*) KA-0404*) Kingpin Kits and housings are sold separately. Kingpin Kits of 5" Sq. HOUSING PLUG (XB-0351*, SHOWN) Kingpin Z* FOR 5" HOUSING (XA-0407*) FOR 5" HOUSING (XA-0407*) For 6" HOUSING (XA-0407*) For 6" HOUSING FOR KP-0438 (XA-0421*, SHOWN)		SIZE				
Kingpin Kits Kingpin Kits SLOTTED NUT (XA-0404*) WASHER (XA-0249 OR XA-0403*) Kingpin Zir FOR 5" HOUSING (XA-0407*) SCOTE MOUSING (XA-0407*) SCOTE MOU	KP-0446	2" for 5" Sq. Bolster		KP-0438	.25″	5″
It offer S.S. for of S.G. Bolskill * Kingpin Steel Alloy 4140 KP-0445 50" 6" Kingpin Kits Kingpin Kits Kingpin Kits Kingpin Kits Kingpin Kits and housings are sold separately. NOTE: Kingpin kits and housings are sold separately. Housing Plugs V Asher (XA-0404*) WASHER (XA-0249 OR XA-0403*) NOTE: Kingpin kits and housings are sold separately. Sold separately. Image: Sold separately. Image: Sold separately.	KP-0447	2" for 6" Sq. Bolster		KP-0440	.38″	5″
Kingpin Steel Alloy 1018 Kingpin Kits SAFETY PIN (XB-0437*) SLOTTED NUT (XA-0250*) NUT (XA-0404*) WASHER (XA-0249 OR XA-0403*) Kingpin X: Y FOR 5" HOUSING (XA-0407*) Y FOR 6" HOUSING (XA-0407*)	KP-0448	3.5" for 6" Sq. Bolster		KP-0441	.50″	5″
Kingpin Kits SAFETY PIN (XB-0437*) SLOTTED NUT (XA-0250*) OR WASHER (XA-0249 OR XA-0403*) WASHER (XA-0249 OR XA-0403*) C FOR 5" HOUSING (XA-0407*) 2" FOR 5" HOUSING (XA-0407*) 2" FOR 5" HOUSING (XA-0407*) 2" FOR 6" HOUSING (XA-0407*) 2" FOR 5" HOUSING (XA-0407*) 2" FOR 5" HOUSING (XA-0407*) 2" FOR 5" HOUSING (XA-0407*) 5" HOUSING FOR KP-0438 (XA-0421*, SHOWN) 5" HOUSING FOR KP-0438 (XA-0421*, SHOWN)	* Kingpin Steel Allo	y 4140		KP-0445	.50″	6″
		DTTED NUT (XA-0250*) IT (XA-0404*) ASHER (XA-0249 OR XA-0403*) IGPIN FOR 5" HOUSING (XA-0407*)	housings are	WING HOUS S" Sq. S" Sq. G" Sq. G" Sq. G" Sq. SPR STHO	ING COVER (XA-10031*) . HOUSING PLUG (XB-035 . HOUSING PLUG (XB-035 ING PIN (XB-0437*) USING FOR KP-0438 (XA- USING FOR KP-0440 (XA-	11*, SHOWN) 11 or XB-0360*) 0421*, SHOWN) 0408*)

HOLLAND Removable Series

2" and 3.5" SAE Kingpin Installations

Applications

- Repositionable Kingpins
 - Switch between 2-position kingpin settings on trailer to accommodate swing clearances.
- Interchangeable Kingpins
 - Switch between 2" and 3.5" kingpins with 6" housing to accommodate fifth wheels

Features

- 5" weld-in housing for 2" kingpin applications.
 - .25" / .38" / .50" bolster plate thicknesses are designed into the housing.
- 6" weld-in housing for interchangeable 2" and 3.5" kingpins.
 - .50" bolster plate thicknesses are designed into housing.
- Close tolerance, tapered engagement between housing and kingpin for a firm, secure installation.
- Dowel pin, mounted in housing, holds kingpin in place during installation and removal, and prevents kingpin rotation.
- When kingpin is removed, plugs are available to protect housing from dirt and debris.

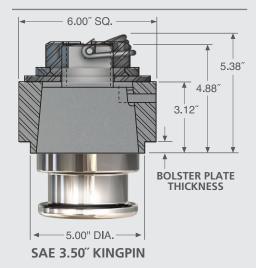
Quality

- Kingpins are manufactured from AISI 4140 alloy steel, quenched and tempered for wear resistance and strength, hardened to 269-302 BHN.
- _ Kingpins are 100% Brinell hardness tested, magnetic particle tested, and ultrasound tested.

For additional specification detail, refer to document XL-KP103.

DIMENSIONAL VIEWS 5.00" SQ. 4.88″ 5.38″ 3.12″ **BOLSTER PLATE** THICKNESS

-4.00″ DIA.--► SAE 2.00" KINGPIN



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 prior to final SAF-HOLLAND approval.

- 100% Brinell hardness test

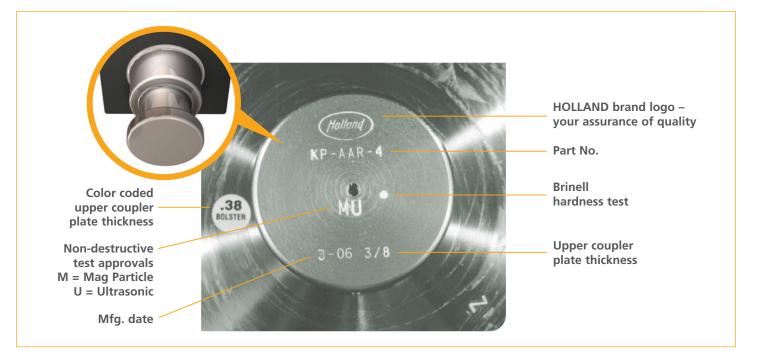
Verifies the hardness level to a required depth within a defined hardness range.

- 100% magnetic particle test

Confirms surface cleanliness and freedom from surface defects.

- 100% ultrasonic tests

Ensures the integrity of the kingpin below the surface.





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 3.5 million HOLLAND kingpins have been manufactured in over 70 years.

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

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.

Mushroo	m Series				
2" SAE KING	SPINS		e		
MODEL	STEEL ALLOY	BRINELL HARDNESS	UPPER COUPLER THICKNESS	HOLES	
KP-T-809-CF			.25″		
KP-T-809-EF		302-363	.31″	No	
KP-T-809-F	8630H		.38″		
KP-T-809-BF				.50″	
KP-T-809-GF			.75″		
KP-T-809-C			.25″	8 equally	
KP-T-809-E*		302-363	.31″	spaced	
KP-T-809	8630H		.38″	.53" holes on 6.75"	
KP-T-809-B	00300		.50″	diameter	
KP-T-809-A			.63″	for plug	
KP-T-809-G*			.75″	welding	



*Special - available for quote.

'L' Series

2" SAE KI	NGPINS				U	
MODEL	STEEL ALLOY	BRINELL HARDNESS	UPPER COUPLER THICKNESS	DII A	MENSIO B	NS C
KP-AAR-L-H*			.19″	1.496″	2.950″	3.512″
KP-AAR-L-C	4320H or 4718H	380-420	.25″	1.558″	3.012″	3.574″
KP-AAR-L-E			.31″	1.620″	3.074″	3.636″
KP-AAR-L*			.38″	1.683″	3.137″	3.699″



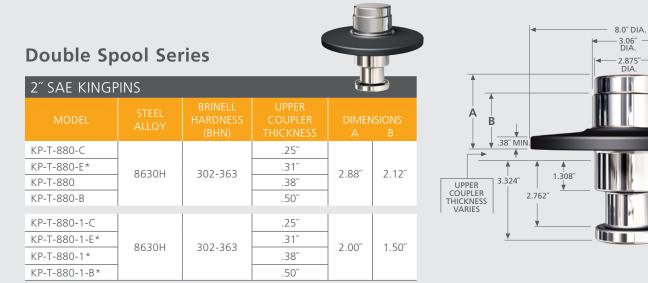
*Special - available for quote.



-2.875″ DIA.

2.000″ DIA.

-2.812″ DIA.



*Special - available for quote.

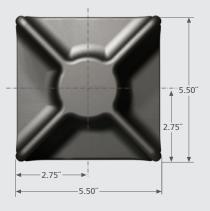


Cruciform Series

2" SAE KINGP	INS			4	H		
MODEL	STEEL ALLOY	BRINELL HARDNESS (BHN)	UPPER COUPLER THICKNESS	A	DIMEN B	ISIONS C	
KP-AAR-3-C	4320H		.25″	1.558″	3.012″	3.574″	
KP-AAR-3-E	or	380-420	.31″	1.620″	3.074″	3.636″	1.937″
KP-AAR-3	4718H		.38″	1.683″	3.137″	3.699″	
KP-AAR-4-C	4320H		.25″	1.558″	3.012″	3.574″	
KP-AAR-4-E*	or	380-420	.31″	1.620″	3.074″	3.636″	3.625″
KP-AAR-4	4718H		.38″	1.683″	3.137″	3.699″	
KP-AAR-5-C	4320H		.25″	1.558″	3.012″	3.574″	
KP-AAR-5-E	or	380-420	.31″	1.620″	3.074″	3.636″	2.437″
KP-AAR-5	4718H		.38″	1.683″	3.137″	3.699″	

*Special - Available for quote.











COUPLING AND LIFTING SYSTEMS



NEWAY

SUSPENSIONS FOR TRUCKS AND BUSES



TRAILER AXLES/SUSPENSIONS, COUPLING AND LIFTING SYSTEMS

safholland.com

SAF-HOLLAND, Inc. 800.876.3929

SAF-HOLLAND Canada Limited 519.537.3494 Western Canada 604.574.7491

SAF-HOLLAND Mexico 52.55.5456.8641