JOST

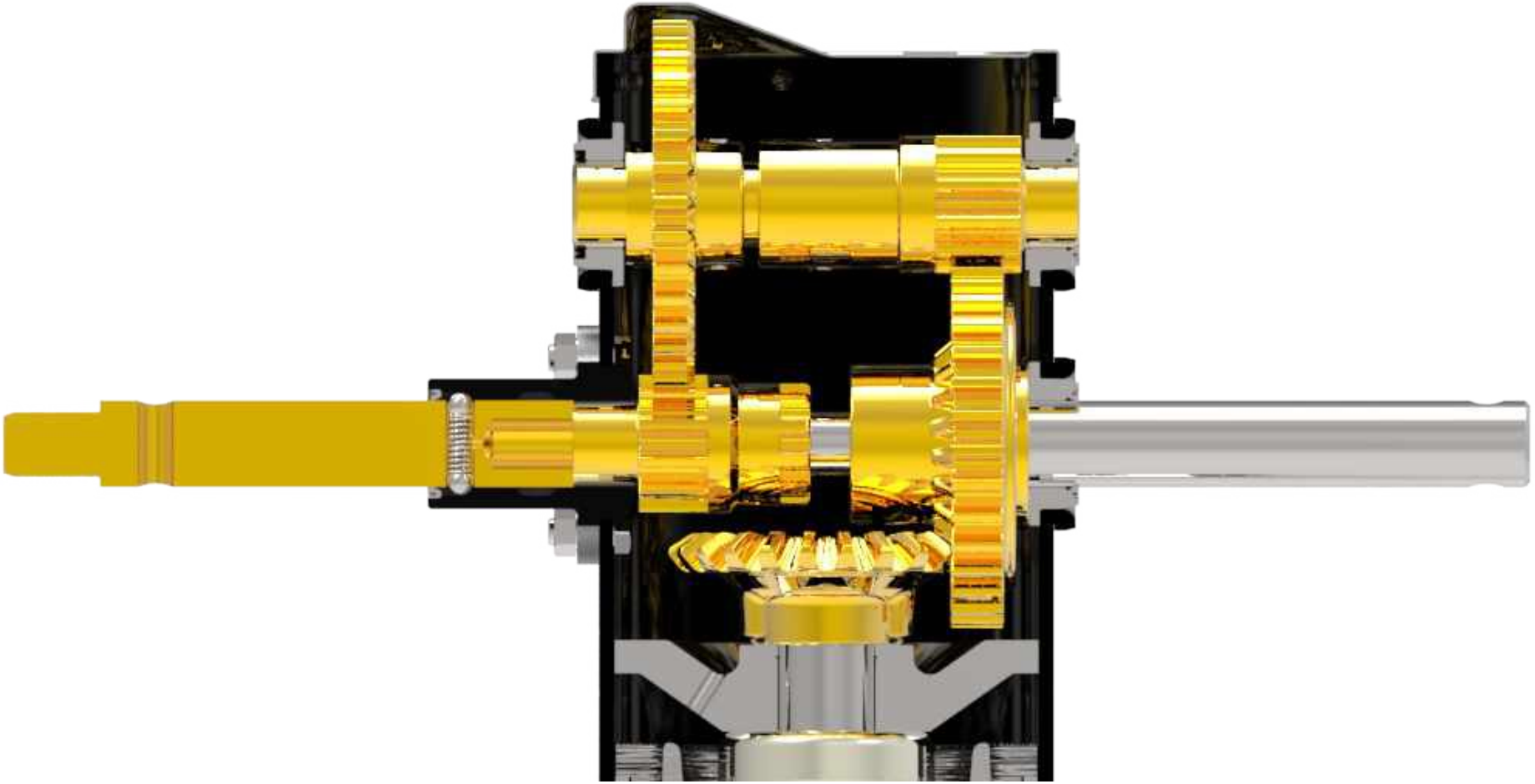
JOST ROCKINGER TRIDEC Edbro

Why I Should Buy A JOST Landing Gear

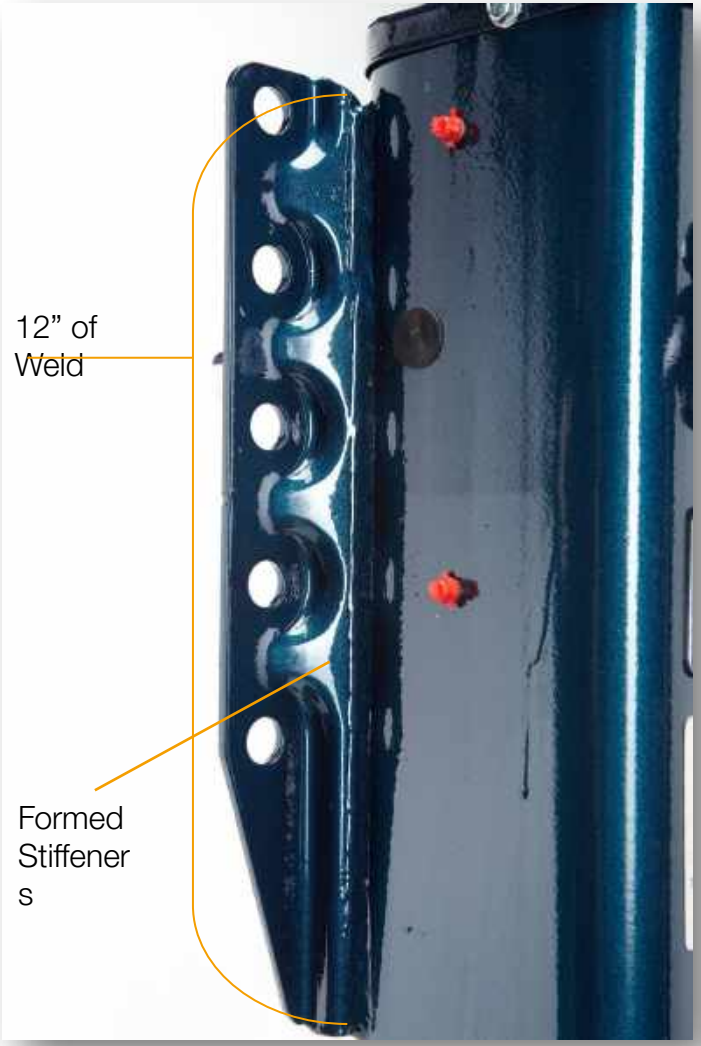
1. Durability
2. Ease of Operation
3. Reduced Maintenance

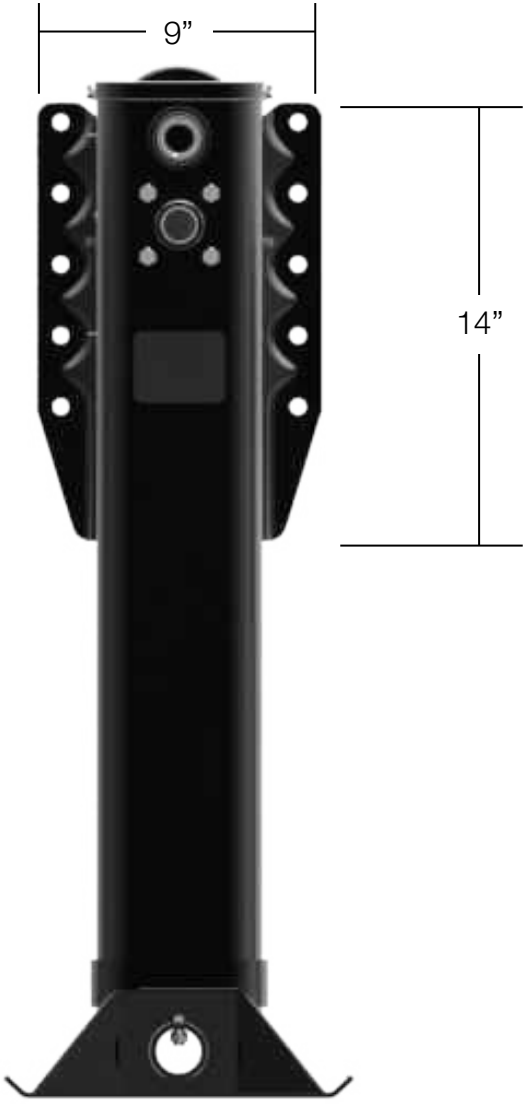
Durability

Patented Internal Gear Train

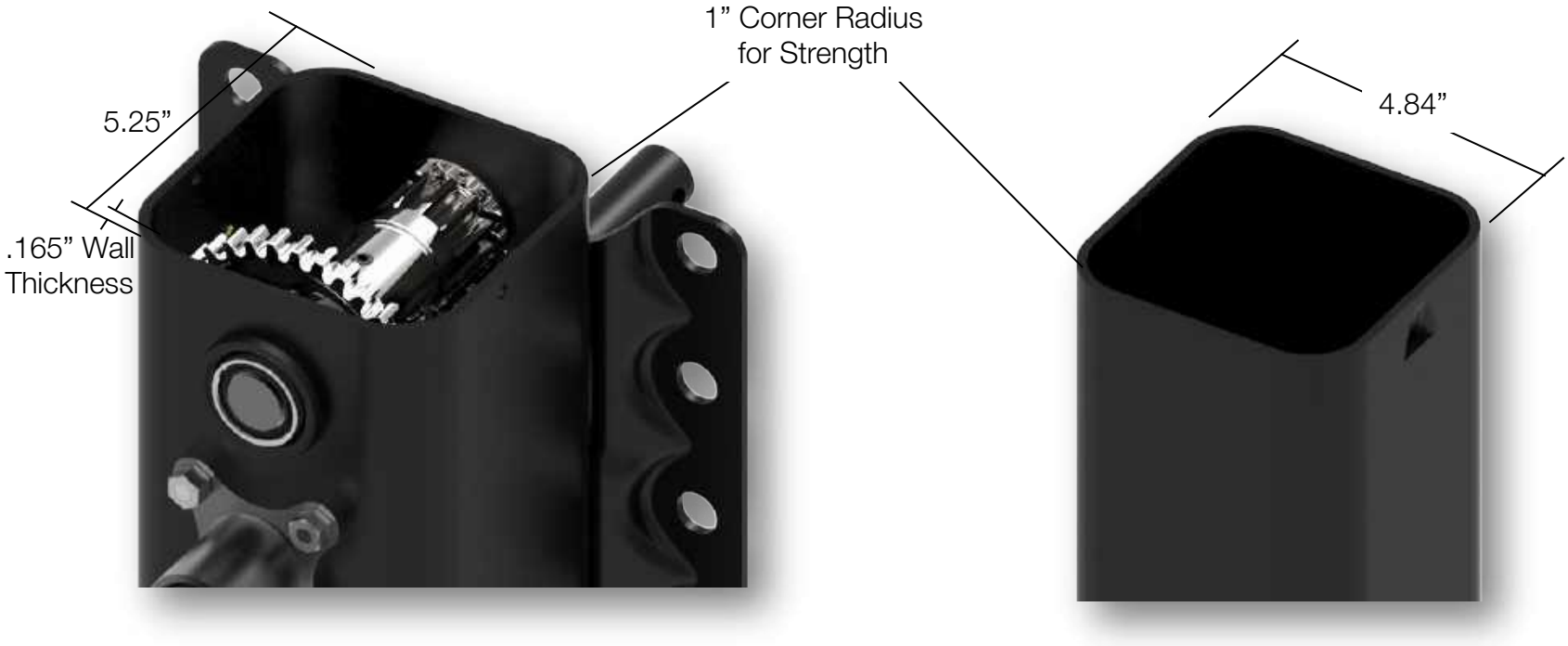


Durability





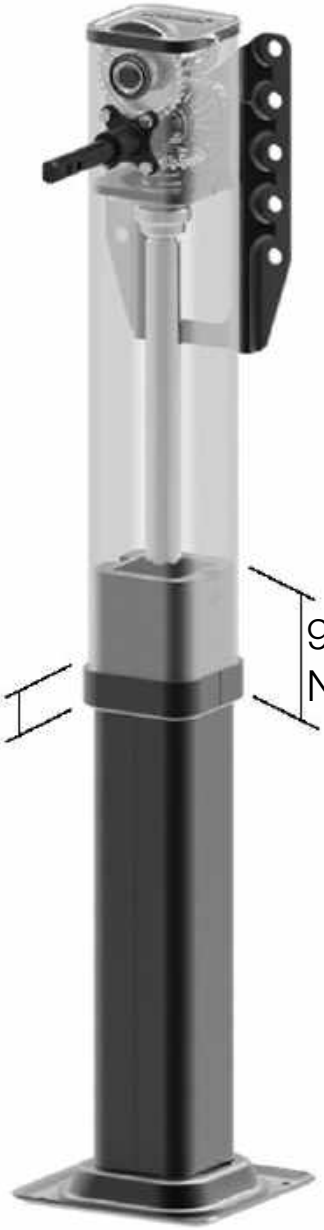
Durability



Upper Housing

Lower Housing

Durability



JOST Side Load Capacity
20,000 lbs

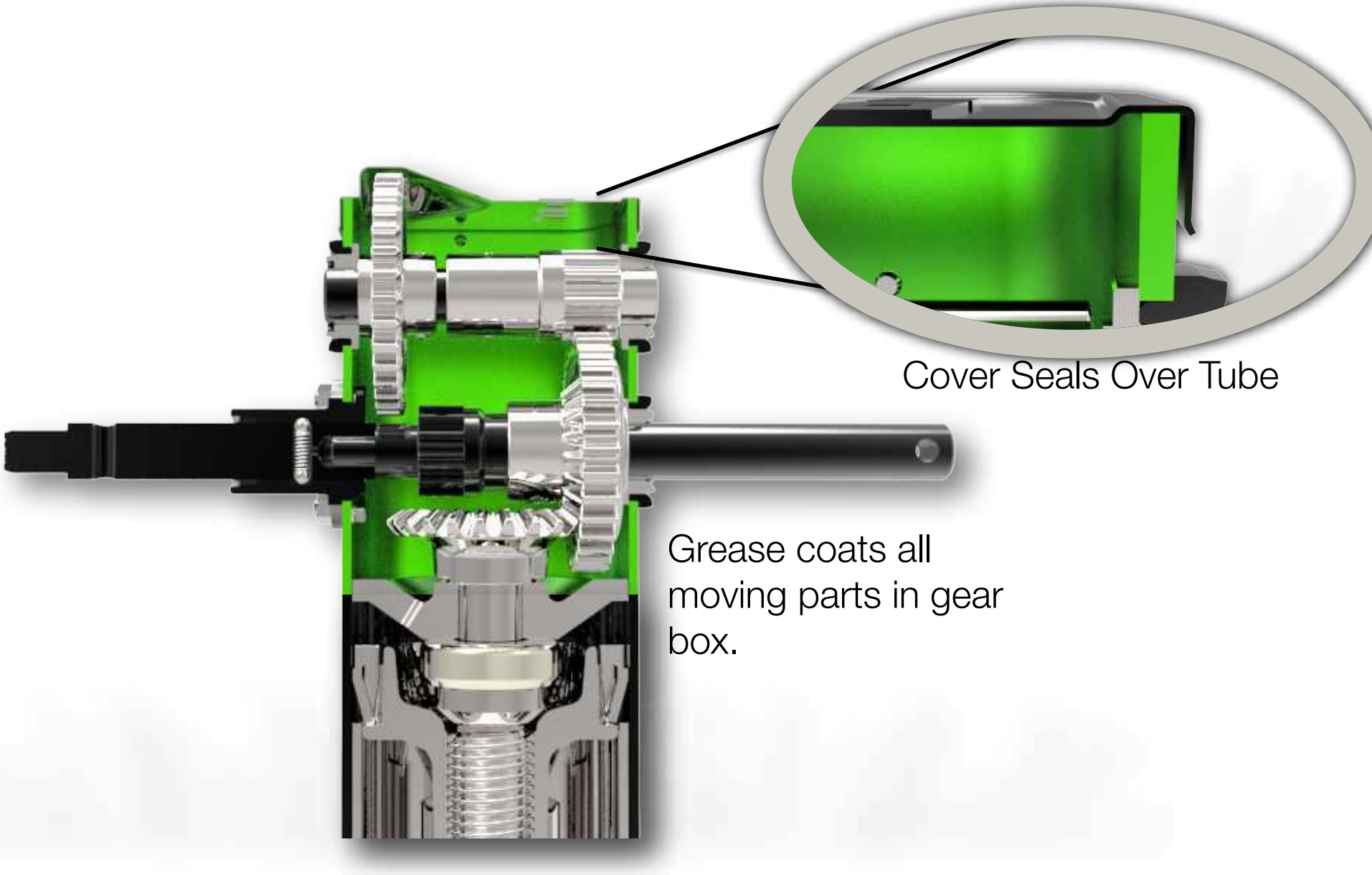
AAR Requirement
13,000 lbs

Durability

Grease Reservoir

Durability

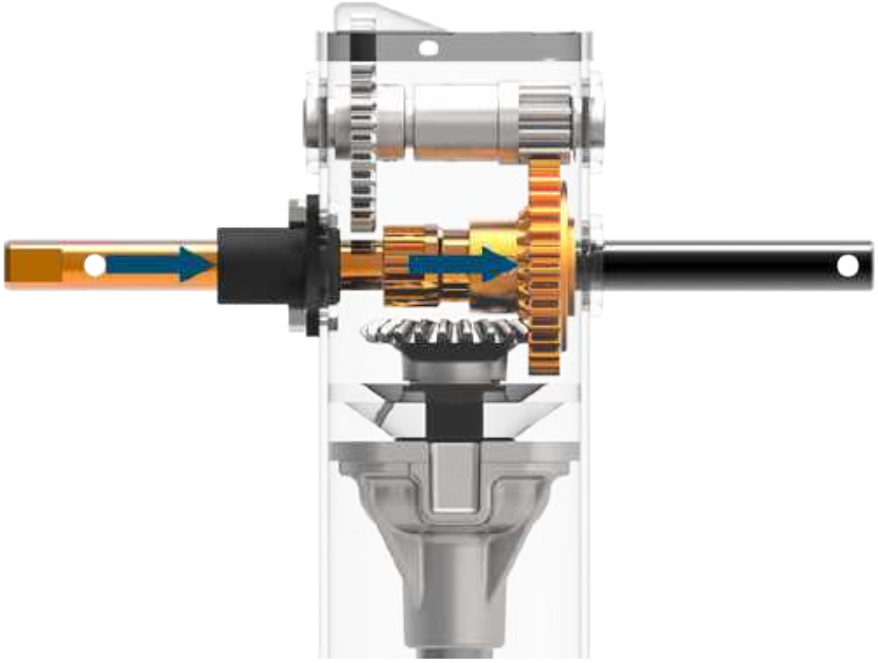
Ease of Operation



Cover Seals Over Tube

Grease coats all moving parts in gear box.

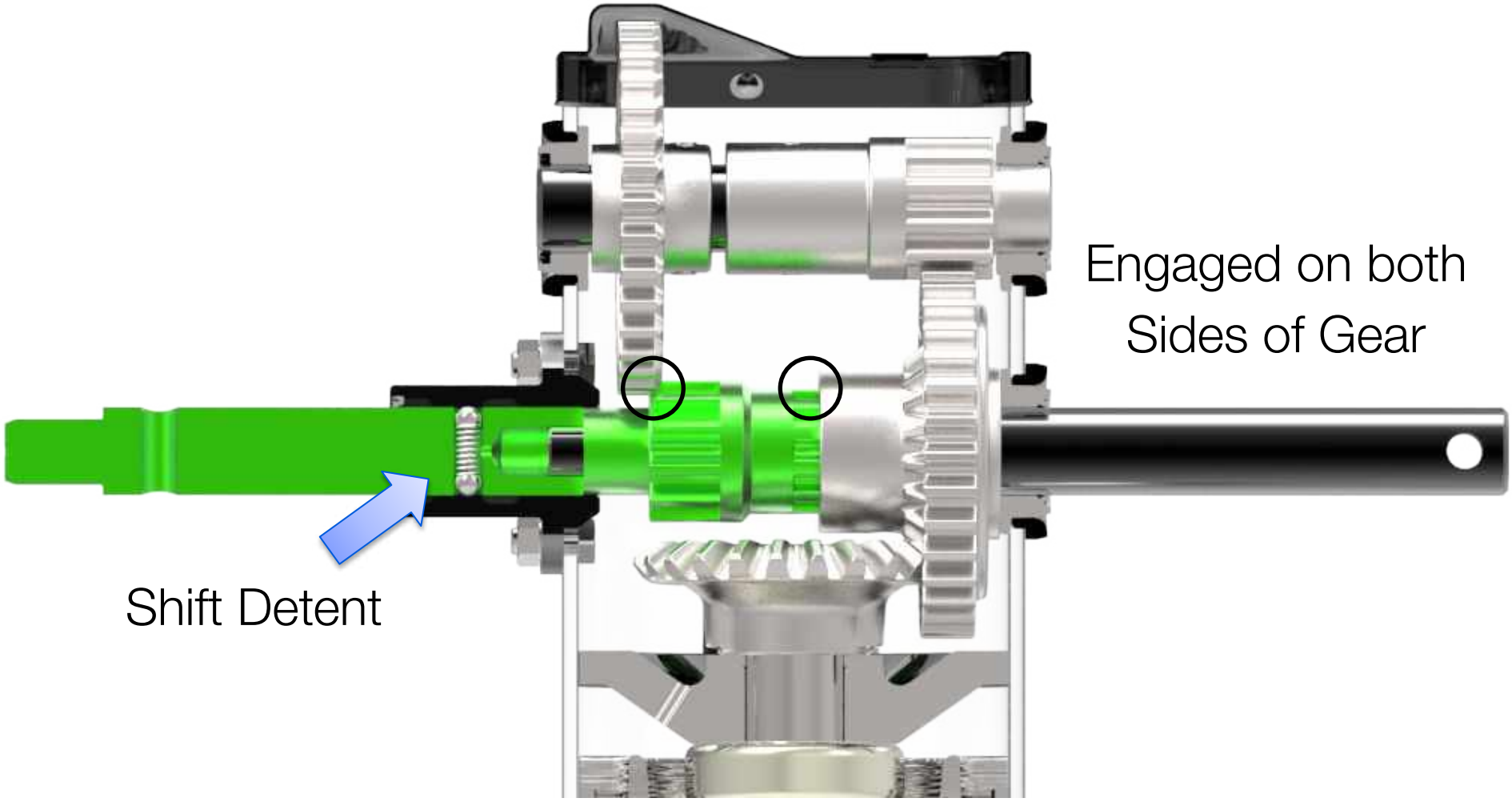
Ease of Operation



High Gear 3.5 Turns / Inch

Low Gear 32 Turns / Inch

Ease of Operation



No Neutral Gear

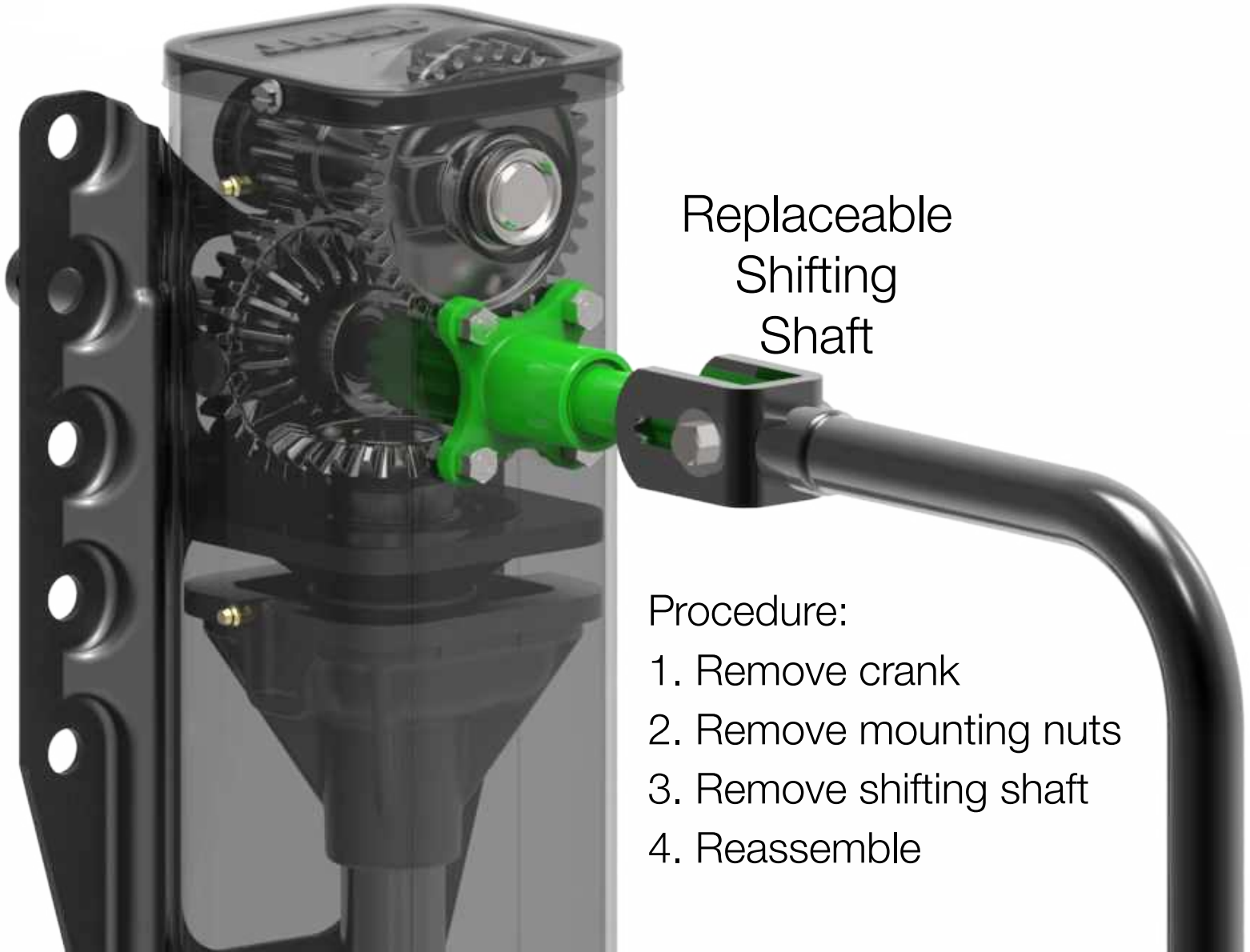
Ease of Operation

Double D On Shaft

Reduced Maintenance

No External Gear Box

Reduced Maintenance



Replaceable
Shifting
Shaft

Procedure:

1. Remove crank
2. Remove mounting nuts
3. Remove shifting shaft
4. Reassemble

Landing Gear Product Line

Standard
A400

Magnum 5 Year
A440

Magnum 10 Year
A450

Heavy Duty 10 Year
H450

Ultralight
UL500

Alumilight
AX100

	A400	A440	A450	H450	UL500	AX100
Static Load Capacity*	160,000 lbs	170,000 lbs	170,000 lbs	200,000 lbs	160,000 lbs	160,000 lbs
Lifting Capacity	55,000 lbs	62,500 lbs	62,500 lbs	70,000 lbs	50,000 lbs	55,000 lbs
Side Load Capacity*	29,000 lbs	33,000 lbs	33,000 lbs	33,000 lbs	26,000 lbs	29,000 lbs

*When properly braced on a trailer

Meets all TTMA & AAR Specifications

Landing Gear Product Line

A400 Series Landing Gear

Design Features

- Internal gearbox protects gears and prevents shaft misalignment.
- Cover and bushings sealed to keep moisture out.
- Double "D" style shaft allows crank force to go directly into the gearbox, not torquing the bolt.
- 10 bolt mounting pattern adds mounting rigidity.
- Reinforcing strap at the bottom of the upper housing for added strength.
- Austempered ductile iron gears will not wear out.

Capacities & Ratings

Maximum Static Load Rating*
160,000 lbs

Rated Lift Capacity**:
55,000

Side Load Capacity*:
29,000 per set

*When properly braced on a trailer.
**With 100ft-lbs input torque.

Gear Ratio
Low Gear: 32 Turns = 1" Travel
High Gear: 3.5 Turns = 1" Travel

Landing Gear Product Line

A440 Magnum Series Landing Gear

Design Features

- Elevating screw is fully encased in a grease tube.
- Legs are completely sealed and all shafts have seals to keep moisture out.
- Double "D" style shaft allows crank force to go directly into the gearbox, not torquing the bolt.
- Gearbox is completely filled with arctic grade, all weather white grease.
- Austempered ductile iron gears will not wear out.
- 10 bolt mounting pattern adds mounting rigidity.
- Reinforcing strap at the bottom of the upper housing for added strength.

Capacities & Ratings

Maximum Static Load Rating*
170,000 lbs

Rated Lift Capacity**:
62,500

Side Load Capacity*:
33,000 per set

*When properly braced on a trailer.
**With 100ft-lbs input torque.

Gear Ratio
Low Gear: 32 Turns = 1˝ Travel
High Gear: 3.5 Turns = 1˝ Travel

Landing Gear Product Line

A450 Magnum Series Landing Gear

Design Features

- Increased lift nut hardness to increase strength and reduce wear.
- Elevating screw is fully encased in a rechargeable grease tube.
- Legs are completely sealed and all shafts have seals to keep moisture out.
- Double "D" style shaft allows crank force to go directly into the gearbox, not torquing the bolt.
- Gearbox is completely filled with arctic grade, all weather white grease.
- Hole added to lower leg to access grease fitting in rechargeable grease tube. Replaceable cushion foot for easy repair when worn or damaged.
- Austempered ductile iron gears will not wear out.

10 Year Extended Warranty

5 Years Maintenance Free

Capacities & Ratings

Maximum Static Load Rating*
170,000 lbs

Rated Lift Capacity**:
62,500

Side Load Capacity*:
33,000 per set

*When properly braced on a trailer.
**With 100ft-lbs input torque.

Gear Ratio
Low Gear: 32 Turns = 1˝ Travel
High Gear: 3.5 Turns = 1˝ Travel

Landing Gear Product Line

H450 Ten Year Magnum Landing Gear

Design Features

- 10 Year Warranty
- Elevating screw is fully encased in a grease tube.
- Legs are completely sealed and all shafts have seals to keep moisture out.
- Double "D" style shaft allows crank force to go directly into the gearbox, not torquing the bolt.
- Gearbox is completely filled with arctic grade, all weather white grease.
- Austempered ductile iron gears will not wear out.
- Reinforcing strap at the bottom of the upper housing for added strength.
- Available in all shoe styles.

Capacities & Ratings

Maximum Static Load Rating*
200,000 lbs

Rated Lift Capacity:
70,000 lbs

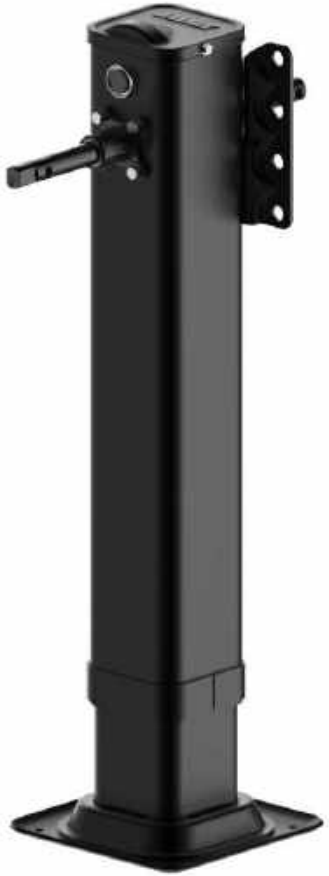
Side Load Capacity*:
33,000 lbs per set

*When properly braced on a trailer.

Gear Ratio
Low Gear: 32 Turns = 1˝ Travel
High Gear: 3.5 Turns = 1˝ Travel

Landing Gear Product Line

UL500 ULTRALIGHT Series Landing Gear



Weight Savings of at Least 27 lbs Per Set!

Same Trusted Design, New Lightweight Material

Design Features

- The same trusted gearbox.
- Legs are completely sealed to keep moisture out.
- HSLA flange material provides low weight and increased strength.
- Double "D" style shaft allows crank force to go directly into the gearbox, not torquing the bolt.
- Available with grease tube.
- HSLA material on both the upper and lower tube provides low weight and increased strength.

Capacities & Ratings

Maximum Static Load Rating*
160,000 lbs

Rated Lift Capacity**:
50,000

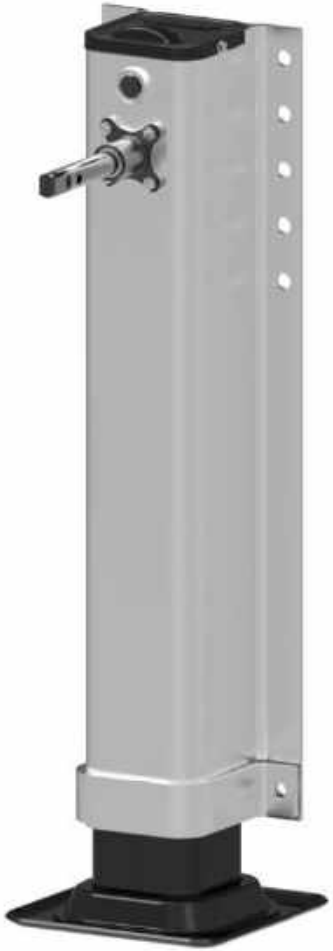
Side Load Capacity*:
26,000 per set

*When properly braced on a trailer.
**With 100ft-lbs input torque.

Gear Ratio
Low Gear: 32 Turns = 1˝ Travel
High Gear: 3.5 Turns = 1˝ Travel

Landing Gear Product Line

AX100 ALUMILIGHT Series Landing Gear



Aluminum Hybrid Landing Gear Series
Weight Savings of at Least 50 lbs Per Set!

Design Features

- Steel cover sealed with silicone to keep moisture out.
- Available in outside and inside mount.
- 6061-T6 extruded aluminum upper leg for durability.
- Standard JOST gear train allows easy interchangeability.
- A ⅜" x 2" reinforcing strap for superior side load strength.
- Polyester coated HSLA steel lower leg.
- All standard JOST ground members available.

Capacities & Ratings

Maximum Static Load Rating*
160,000 lbs

Rated Lift Capacity**:
55,000

Side Load Capacity*:
29,000 per set

*When properly braced on a trailer.
**With 100ft-lbs input torque.

Gear Ratio
Low Gear: 32 Turns = 1" Travel
High Gear: 3.5 Turns = 1" Travel

Kingpin Product Line

AAR Cruciform Style Kingpin

MADE IN U.S.A PRODUCT

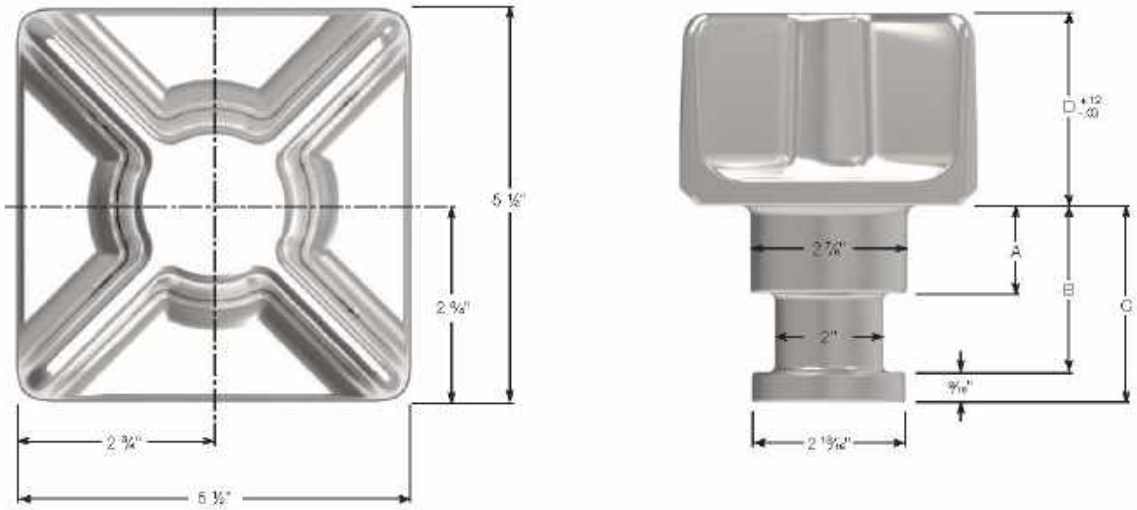
AAR kingpins are suitable for OEM and aftermarket replacement. They are intended to be installed by welding, using a procedure published by the American Welding Society or other technical organization. When properly installed they will meet or exceed the performance requirements of the American Association of Railroads (AAR) standard M-931 as well as the Society of Automotive Engineers (SAE) and the Truck and Trailer Manufacturers Association (TTMA).

Technical Specifications

- MATERIAL – AISI 4320H
- HEAT TREATMENT
  Through hardened using a quenched and temper process, which produces a surface hardness of 380-420 BHN.
- STRENGTH
  At the above hardness the material will have an approximate 190,000 p.s.i. ultimate strength and 145,000 p.s.i. yield strength.
- IMPACT AND WEAR RESISTANCE
  The high nickel alloy and heat treat process provides a good balance between hardness (wear resistance) and low brittleness (good impact resistance).
- QUALITY ASSURANCE
  Rigid metallurgical cleanliness and quality standards including:
  - 100% Brinell Hardness testing.
  - 100% magnetic particle inspection.
  - 100% ultrasonic testing (MS105, tightened C = 0).

Kingpin Product Line

Cruciform Style - 4320H Steel Forging



Part Number	Bolster Plate Thickness	Weight	A	B	C	D
KZ-AAR-X2-1.9	1/4"	13.5 lbs.	1.568"	3.012"	3.574"	1.94"
KZ-AAR-X2-2.4	1/4"	15 lbs.	1.568"	3.012"	3.574"	2.44"
KZ-AAR-X3-2.4	5/16"	15 lbs.	1.620"	3.074"	3.636"	2.44"
KZ-AAR-X4-2.4	3/8"	15 lbs.	1.683"	3.137"	3.699"	2.44"
KZ-AAR-X2-3.6	1/4"	18 lbs.	1.568"	3.012"	3.574"	3.62"
KZ-AAR-X4-3.6	3/8"	18 lbs.	1.683"	3.137"	3.699"	3.62"

Kingpin Product Line

SAE Mushroom Style Kingpin

MADE IN U.S.A PRODUCT

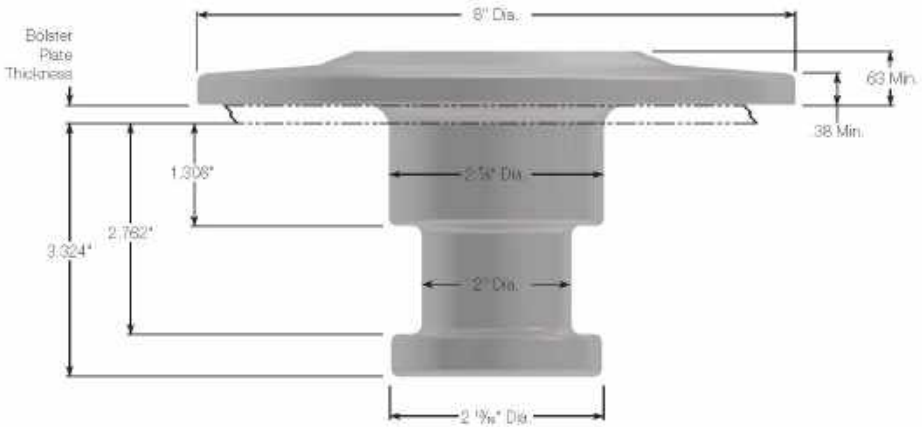
SAE kingpins are suitable for OEM and aftermarket replacement. They are intended to be installed by welding, using a procedure published by the American Welding Society or other technical organization. When properly installed they will meet or exceed the performance requirements of the Society of Automotive Engineers (SAE) and the Truck and Trailer Manufacturers Association (TTMA).

Technical Specifications

- MATERIAL – AISI 8630H
- HEAT TREATMENT
  Through hardened using a quenched and temper process, which produces a surface hardness of 302-363 BHN.
- STRENGTH
  At the above hardness the material will have an approximate 150,000 p.s.i. ultimate strength and 115,000 p.s.i. yield strength.
- IMPACT AND WEAR RESISTANCE
  The high nickel alloy and heat treat process provides a good balance between hardness (wear resistance) and low brittleness (good impact resistance).
- QUALITY ASSURANCE
  Rigid metallurgical cleanliness and quality standards including:
  - 100% Brinell Hardness testing.
  - 100% magnetic particle inspection.
  - 100% ultrasonic testing (MS105, tightened C = 0).

Kingpin Product Line

Mushroom Style - 8630H Steel Forging



Part Number	Bolster Plate Thickness	Weight
KZ-T2	¼"	14 lbs.
KZ-T3	5/16"	14 lbs.
KZ-T4	⅜"	14 lbs.
KZ-T5	½"	14 lbs.

Kingpin Product Line

SAE Spool Style Kingpin

MADE IN U.S.A PRODUCT

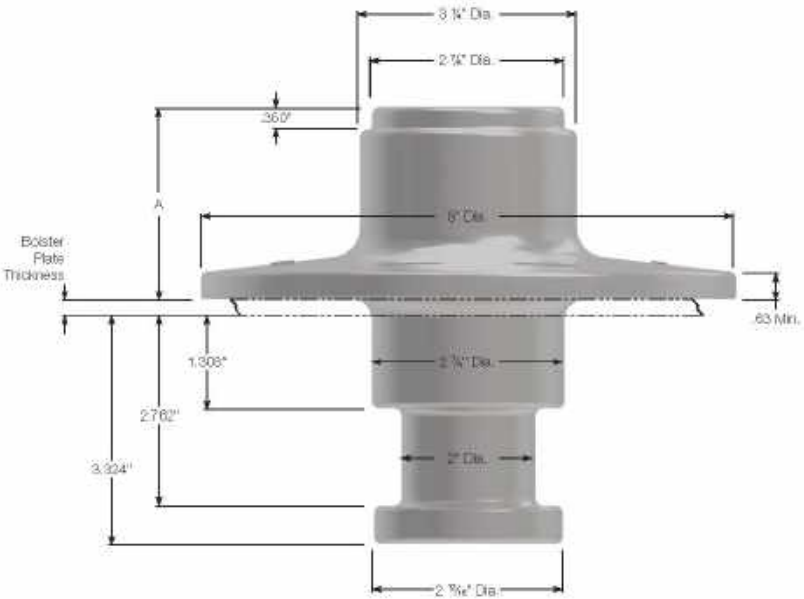
SAE kingpins are suitable for OEM and aftermarket replacement. They are intended to be installed by welding, using a procedure published by the American Welding Society or other technical organization. When properly installed they will meet or exceed the performance requirements of the Society of Automotive Engineers (SAE) and the Truck and Trailer Manufacturers Association (TTMA).

Technical Specifications

- MATERIAL – AISI 8630H
- HEAT TREATMENT
  Through hardened using a quenched and temper process, which produces a surface hardness of 302-363 BHN.
- STRENGTH
  At the above hardness the material will have an approximate 150,000 p.s.i. ultimate strength and 115,000 p.s.i. yield strength.
- IMPACT AND WEAR RESISTANCE
  The high nickel alloy and heat treat process provides a good balance between hardness (wear resistance) and low brittleness (good impact resistance).
- QUALITY ASSURANCE
  Rigid metallurgical cleanliness and quality standards including:
  - 100% Brinell Hardness testing.
  - 100% magnetic particle inspection.
  - 100% ultrasonic testing (MS105, tightened C = 0).

Kingpin Product Line

Spool Style - 8630H Steel Forging



Part Number	Bolster Plate Thickness	Dimension A	Weight
KZ S2-2.0	¼"	2"	16 lbs
KZ S2-2.9	¼"	2 ⅞"	18 lbs
KZ S3-2.0	5/16"	2"	16 lbs
KZ S3-2.9	5/16"	2 ⅞"	18 lbs
KZ S4-2.0	⅜"	2"	16 lbs
KZ S4-2.9	⅜"	2 ⅞"	18 lbs
KZ S5-2.0	½"	2"	16 lbs
KZ S5-2.9	½"	2 ⅞"	18 lbs

Kingpin Product Line

Bolt In Style Kingpin

JOST bolt in kingpins are suitable for OEM and aftermarket replacement. Once the retention plate is installed the kingpin can be easily replaced in minutes by just removing the mounting bolts. The retention plate is intended to be incorporated into the design of the upper coupler structure similar to that of an SAE mushroom style weld in kingpin. It must be welded using a procedure published by the American Welding Society, or other technical organization.

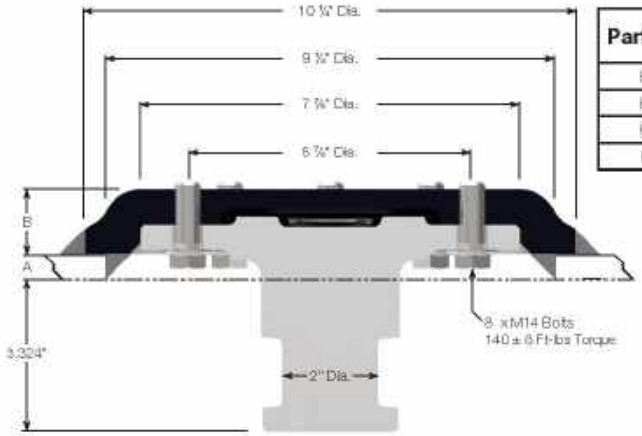
When properly installed bolt in kingpings will meet or exceed the performance requirements of the Federal Motor Carrier Safety Regulations (FMCSR), The Society of Automotive Engineers (SAE) and the Truck and Trailer Manufacturers Association (TTMA).

Design Features

- Bolt in kingpins allow for easy and fast replacement of the kingpin, and at much less cost than weld in kingpins.
- The kingpin flange and bolts are recessed in the retention plate reducing the possibility of center loading of the fifth wheel.
- JOST kingpins are manufactured and inspected using the most stringent safety requirements.
- The retention plate is manufactured from ST-52-3 Steel (similar to ASTM A572 Grade 50).

Kingpin Product Line

Bolt In Style Kingpin



Part Number	Dimension A Bolster Plate	Dimension B
KZ 1007	¼" (7 mm)	1 15/32" (37 mm)
KZ 1008	5/16" (8 mm)	1 15/32" (37 mm)
KZ 1010	3/8" (10 mm)	1 11/32" (34 mm)
KZ1012	½" (12 mm)	1 5/16" (33 mm)

Assembly Part Number	Retention Plate (A) Part Number	Kingpin (B) Part Number	Bolt (C) Part Number
KZ 1007	KZ 1007-02	KZ 1012-01	KZ 1012-03
KZ 1008	KZ 1008-02	KZ 1012-01	KZ 1012-03
KZ 1010	KZ 1010-02	KZ 1012-01	KZ 1012-03
KZ 1012	KZ 1012-02	KZ 1012-01	KZ 1012-03

The kingpin retention plate installation must conform to SAE and TTMA recommended practices.

Bolts must be tightened and properly torqued as described in the product information details. For safety reasons the bolts should only be tightened and torqued once. If removed they should be replaced.

Kingpin Product Line

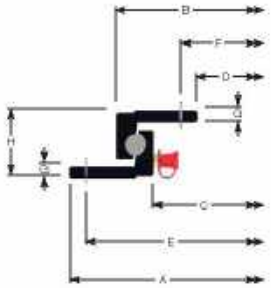
Single Row Ball Bearing Turntables

Single row ball bearing turntables are for trailers and agricultural vehicles, connecting the A-frame to the trailer chassis. The turntable allows the axle to turn relative to the trailer frame transferring both the axial, and radial forces. The lower (outer) ring is bolted to the A-frame and the upper ring (inner) ring is bolted to the chassis.

Double Row Ball Bearing Turntables

Double row ball turntables guarantee optimum distribution of the axial and radial forces. This design has proven through years of different applications. Double row ball turntables are used in particular when the vehicle application requires both precision and strength in design and material.

Kingpin Product Line



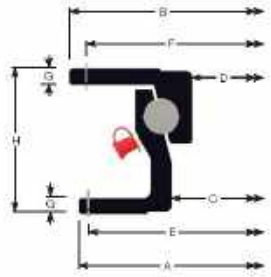
L and N Style Turntables

Application:

L Series: Farm vehicles and trailers up to 15 mph.
N Series: Farm vehicles and trailers over 15 mph.
All load data for L and N series applies to use on paved roads in steering systems.

Specifications: Standard Lubrication, Undrilled

Type	A	B	C	D	E	F	G	H	Weight (lbs)	Axial Load Ton (Short)
400L	15 3/4"	13 7/16"	11 1/2"	9 1/16"	14 3/4"	10 1/4"	3/16"	1 3/4"	23	0.64
500L	19 11/16"	17 3/8"	15 7/16"	13"	18 11/16"	14 5/16"	5/16"	1 3/4"	31	1.01
650L	25 5/16"	23 5/16"	21 5/16"	18 7/8"	24 5/8"	20 1/16"	5/16"	1 3/4"	41	1.69
750L	29 1/2"	27 1/4"	25 1/4"	22 15/16"	28 9/16"	24"	5/16"	1 3/4"	47	2.02
850L	33 7/16"	31 3/16"	29 3/16"	26 3/4"	32 1/8"	27 9/16"	3/16"	1 3/4"	55	2.81
500N	19 11/16"	17 3/8"	15 1/4"	12 3/8"	18 11/16"	13 3/8"	5/16"	2 1/16"	47	2.02
650N	25 5/16"	23 1/8"	21"	18 5/16"	24 5/8"	19 1/16"	5/16"	2 1/16"	57	2.81
750N	29 1/2"	27 1/16"	24 13/16"	22 1/8"	28 5/16"	23 1/4"	5/16"	2 1/16"	65	3.37
850N	33 7/16"	31"	28 7/8"	26 5/16"	32 1/8"	27 1/16"	5/16"	2 1/16"	74	3.93
950N	37 3/8"	34 15/16"	32 15/16"	30 1/8"	36 7/16"	31 1/8"	5/16"	2 1/16"	82	4.5



HE Style Turntables

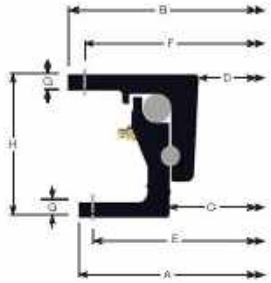
Application:

The specified axle load relates to use where the turntable is mounted on the front axle of a trailer with three axles travelling at speeds of up to 65 mph.

On dual-axle trailers, the specified axle loads can be exceeded by 10% (20% at speeds below 18 mph).

Specifications: Standard Lubrication, Drilled, Primed

Type	A	B	C	D	E	F	G	H	Weight (lbs)	Axial Load Ton (Short)
HE1000-22	39 3/8"	39 13/16"	34 7/8"	33 15/16"	37 13/16"	38 3/8"	3/8"	3 9/16"	138	11.24



DK Style Turntables

Application:

The specified axial load applies to vehicles travelling up to 65 mph. A 25% higher axial load is permitted for vehicles with speeds below 18 mph. Please contact JOST if the application will have off-center loads or in applications where there is more than a 360 rotation.

Specifications: Standard Lubrication, Drilled, Primed

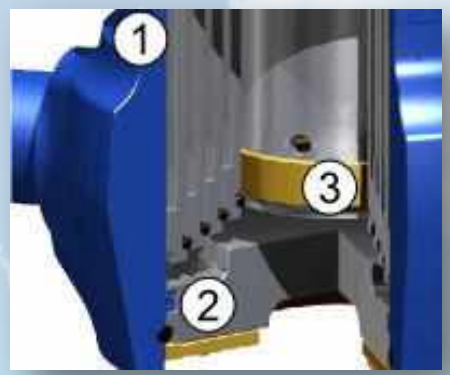
Type	A	B	C	D	E	F	G	H	Weight (lbs)	Axial Load Ton (Short)
DK 90/12	38 3/8"	39 3/8"	34 5/16"	32 13/16"	37 1/16"	38 1/16"	3/8"	3 9/16"	156	13.22
DK 90/16	43 1/8"	43 1/8"	38 9/16"	37 3/8"	41 3/4"	42 5/16"	1/2"	3 9/16"	180	17.63

Tridec Steering Systems

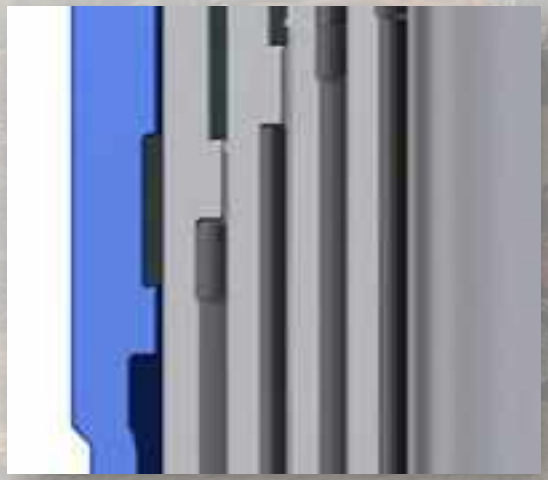
Edbro Hydraulic Cylinders

A

C



B



JOST