H TRAILER AXLE K30 / A45 / A65 SERIES TRAILER AXLE SPECIFICATIONS

LIT NO: L1113 DATE: December 2008



WHERE

- AC Air chamber centerline to centerline
- BCL Brake centerline to brake centerline
- BS Inner bearing shoulder to shoulder
- BW Bearing width (cup and cone assembled)
- CL Cam under head length
- CO Distance from end of cam to slack centerline: 1.38" for 16.5" and 18" brakes, 1.62" for 20" brakes
- DT Wheel disc thickness
- **HF** Hub face to hub face = BS + 2(BW + B)
- ID Inside of brake drum to brake drum dimension
- **OW** Overall width (outside left tire to outside right tire)
- **RO** Rim offset (negative for single inset wheels)

- S0 Spider offset (centerline of anchor pin holes to face of cam boss): 1.17" for the 16.5" and 18" brakes, 1.42" for the 20" brakes
- **SP** Spider placement (determines position of brake shoes in drum)
- SW Spacer width (spoke wheels)
- **TR** Track (centerline of left-hand tires to centerline of right-hand tires)
- TW Tire width (loaded)
- W Tube wall thickness
- X End of S-cam to mounting face of S-cam bracket: 3.50" for 16.5" and 18" brakes, 4.12" for 20" brakes

WHEEL BEARINGS											
Model	Location	Industry Part No. Cone / Cup	BW								
1/00	Inner	759/752	1.875"								
K30	Outer	740/742	1.750"								
A45	Inner	787/772	1.875"								
A40	Outer	6580/6535	2.125"								
	Inner	896/892	2.250"								
A65	Outer	6580/6535	2.125"								





Axle	Maximum	Tube Size	STD		Air Brake			Air Chamber CL/CL			
Model	Rating ¹	and W	TR ²	BS ³	Size	SP	BCL ³	AC ³ CL		Wheels	Hubs
K30	30,000 lbs.	5.75 x .625	70.5"	62.75	16.5 x 7	4.62	55.85	21.02	17.625	N/A	10 stud-11 1/4" B.C.
					18 x 7						10 stud (HD)-11 1/4" B.C.
											10 stud-13 3/16" B.C.
											10 stud (HD)-13 3/16" B.C.
					16.5 x 7	5.75	53.59	18.76	17.625	20" - 6 spk.	N/A
					18 x 7					24" - 6 spk.	
A45	45,000 lbs.	5.75	86.0"	76.38	16.5 x 7	4.25	70.22	35.39	17.625	N/A	10 stud-11 1/4" B.C.
		SOLID			18 x 7						10 stud (HD)-11 1/4" B.C.
					20 x 8						10 stud-13 3/16" B.C.
											10 stud (HD)-13 3/16" B.C.
					16.5 x 7	5.00	68.72	33.89	17.625	24" - 6 spk.	
					18 x 7						
A65	65,000 lbs.	6.00	88.0"	79.25	20 x 8	7.00	65.10	24.39		24" - 6 spk.	N/A
		SOLID			20 x 8	7.56	66.85	26.12	20.625	N/A	10 stud (HD)-13 3/16" B.C.

NOTES (all dimension in inches):

 Maximum rating is for on-highway use with standard spring suspensions and spring centers 33 inches less than track on K30 models and 38 inches less than track on A45 and A65 models combined with the maximum brake size. For ratings at other spring centers or smaller brake sizes, contact Hendrickson Application Engineering.

2. Other track lengths available up to 120 inches.

3. The dimensions are based on the standard track length. For tracks other than standard add or subtract the corresponding track difference to the stated dimension.

WHEEL-END ARRANGEMENTS

Drawing Reference A			В	D	F	G	Н	I	J	К	
_			Cup	Cup	Brake	Brake Size		Drum	Stud	Stud	
				to MTG.	to end of	Diameter	Brake	Overall	Pilot	Circle	Quantity
	_			Face	Drum		Drum	Depth	Depth		(DIA.)
	Part	-	Brake				Surface				
	Number	Туре	Size				Width				
Drum	K30HU173 (stud pilot)	10 stud 11.25 B.C.	16.5 x 7	1.68	8.94	16.50	7.62	10.62	8.78	11.25	10 (.750)
Outboard Dri	K30HU170 (hub pilot)	10 stud 11.25 B.C.	16.5 x 7	1.68	8.94	16.50	7.62	10.62	8.78	11.25	10 (22mm)
Outb	K30HU174 (hub pilot)	10 stud 335mm B.C.	16.5 x 7	1.68	8.91	16.50	7.38	10.59	11.25	335mm	10 (22mm)
E	A45HU105X	10 stud (HD) 11.25 B.C.	16.5 x 7	2.31	8.69	16.50	7.62	9.50	9.44	11.25	10 (.938)
Drum	A45HU125X		16.5 x 7	2.31	8.69	16.50	7.38	9.50	11.00	13.19	
	A45HU107X	10 stud (HD)	18 x 7	2.31	8.94	18.00	7.69	9.75	9.44	13.19	- 10
Inboard	A45HU113X	13.19 B.C.	20 x 8	2.31	11.81	20.00	8.50	12.62	9.44	13.19	(.938)
<u> </u>	A65HU105X	10 stud (HD) 13.19 B.C.	20 x 8	1.00	13.12	20.00	8.50	12.62	11.00	13.19	10 (.938)

NOTES (all dimension in inches):

- **B** Bearing cup shoulder to hub mounting face (see hub and drum manufacturers' specifications)
- C Bearing cup shoulder to centerline of track (see hub and drum manufacturers' specifications)
- Bearing cup shoulder to end of brake drum (see hub and drum manufacturers' specifications)
- **G** Brake drum surface width (see hub and drum manufacturers' specifications)



(shows inboard drum)

Drawing Reference B			С	D	F	G	н	I	J	К	L
-			Cup	Cup	Brake Size		Drum	Drum	Drum	Bolt	Rim
Part Number	Туре	Brake Size	to Center Line of Track	to end of Drum	Diameter	Brake Surface	Overall Depth	Pilot Diameter	Bolt Circle (DIA.)	Quantity (DIA.)	Spacer Width
K30HU1581	20" - 6 spk.	16.5 x 7	2.00	10.25	16.50	7.44	9.00	11.25	12.75	6 (.656)	4.00
K30HU145 ²	20" - 6 spk.	16.5 x 7	2.00	10.25	16.50	7.56	9.00	11.25	12.75	6 (.656)	4.00
K30HU1631	24" - 6 spk.	16.5 x 7	2.00	10.25	16.50	7.56	9.00	11.25	12.75	6 (.656)	4.00
K30HU161 ²	24" - 6 spk.	16.5 x 7	2.00	10.25	16.50	7.31	9.00	11.25	12.75	6 (.656)	4.00
K30HU151	24" - 6 spk.	18 x 7	2.00	10.25	18.50	8.00	9.25	11.25	12.75	6 (.656)	4.00
A45HU131	24" - 6 spk.	20 x 8	3.03	11.88	20.00	9.00	11.25	9.50	11.25	6 (.781)	5.62

NOTES (all dimension in inches):

1. Maximum rim size is 8.00 in.

- 2. Maximum Rim size is 8.50 in.
- **B** Bearing cup shoulder to hub mounting face (see hub and drum manufacturers' specifications)
- C Bearing cup shoulder to centerline of track (see hub and drum manufacturers' specifications)
- Bearing cup shoulder to end of brake drum (see hub and drum manufacturers' specifications)
- **G** Brake drum surface width (see hub and drum manufacturers' specifications)



MOST COMMONLY USED WHEEL-END ARRANGEMENTS

Other options are available. (Contact Hendrickson Application Engineering for additional options and dimensions.)

SPECIAL APPLICATIONS

Approval for special Trailer Axle applications must be obtained from Hendrickson. Axle and brake capacity ratings will vary with specific applications and category of service.

THE FOLLOWING OPTIONS ARE AVAILABLE ON ALL K30 / A45 / A65 MODELS:

Air chambers, automatic or manual slack adjusters*, variable cam lengths and track widths, grease or oil seals, cast spoke wheels, ductile iron hubs, standard or centrifuse drums, and extended service brake linings.

*As of October 20, 1994, all on-highway trailers are required by federal law to have automatic slack adjusters.

Five-year warranty: When installed on original equipment trailer applications, Hendrickson Trailer Axles are guaranteed against any defects in material or workmanship for a period of time of five (5) years from date of delivery.

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