Threadless Headsets
(1", 1-1/8", 1-1/4", 1.5")

Headset to Bicycle Fit Specifications

Generally components are dimensioned with "one sided" tolerances. That is to say there is a "target" or "preferred" dimension and all of the tolerance range is provided in one direction only (either bigger or smaller). These targets are generally focused on achieving the minimum desirable press fit, with allowances in the direction of tighter fits (one exception is fork steerers). The bold value is generally the target.

a. All dimensions are stated in millimeters unless stated otherwise.

b. Certain dimensions are highlighted in yellow. The recommended tolerances for these are unknown.

Steerer Tube OD (Stem-to-Headset, Fork-to-Crown Race)

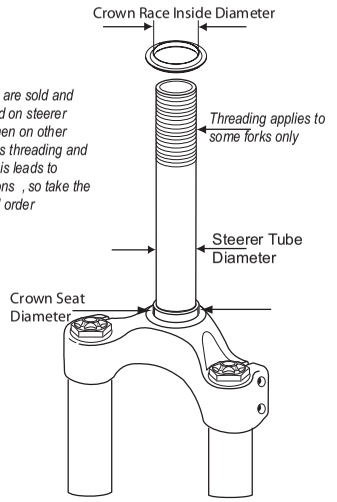
Standard	Nominal Steerer OD	Steerer OD Tolerance	Fork OD at Crown Seat	Headset Crown Race ID
1" (25.4) Professional	1" (25.4)	25.25 / **25.40***	**26.43**** / 26.49	26.35 / **26.40****
1" (25.4) JIS			**27.03**** / 27.09	26.95 / **27.00****
1-1/8" (28.6)	1-1/8" (28.6)	28.45 / **28.60***	**30.015**** / 30.075	29.93 / **29.98****
1-1/4" (31.8)	1-1/4" (31.8)	31.60 / **31.75***	**33.03**** / 33.09	32.95 / **33.00****
1-1/2" (38.1)	1-1/2" (38.1)	38.074 / **38.202***	**39.79**** / 39.85	39.71 / **39.76****

The above information is based on historic data collection from various fork & headset manufacturers.

* Bold values are target values with tolerance ranges falling in the direction of ***reduced*** interference.

** Bold values are target values with tolerance ranges falling in the direction of ***increased*** interference.

Note : Headsets are sold and distri bu ted b ased on steerer tub e diameter , then on other attri bu tes s uch as threading and head t ub e fit . This leads to many com b inations , so take the time to identify and order corre ctly .



Headset Cup-to-Head Tube Interface

	Threadless or Threaded* (Standard design)		Semi-Integrated			
			Cane Creek Standard		Chris King Perdido	
Standard	Head Tube ID	Cup Insertion OD	Head Tube ID	Cup Insertion OD	Head Tube ID	Cup Insertion OD
1" (25.4) Professional	30.05 / **30.10**	**30.20** / 30.30	41.35 / **41.40**	**41.45** / 41.50	-	-
1" (25.4) JIS	29.85 / **29.90**	**30.00** / 30.10	-	-	-	-
1-1/8" (28.6)	33.90 / **33.95**	**34.05** / 34.15	43.95 / **44.00**	**44.05** / 44.10	44.450 / 44.475	44.5
1-1/4" (31.8)	36.90 / **36.95**	**37.05** / 37.15	-	-	-	-
1-1/2" (38.1)*	49.57 / **49.61**	**49.70** / 49.75	-	-	-	-

1. The above dimensions are guidelines only. Certain situations may necessitate reduced interference (i.e. very thick steel head tube)

2. Bold values are target values with tolerance ranges falling in the direction of increased interference.

* Threaded not available in 1-1/2"

Head Tube ream dimensions of the most typical 1-1/8" designs for Standard, Semi-integrated, and Integrated threadless , based on Cane Creek™ standards . See charts (this page) for other typical standards. Atypical and rare standards may be listed on other pages pertaining to design types.

Integrated Headset Head Tube Dimensions

	Cane Creek Integrated Standard		Italian Integrated Standard	
Nominal Steerer OD	ID	Angle	ID	Angle
1" (25.4) Professional	**38.15** / 38.25	45°		
1-1/8" (28.6)	**41.1** 41.2	45°	41.95/42.05	45°

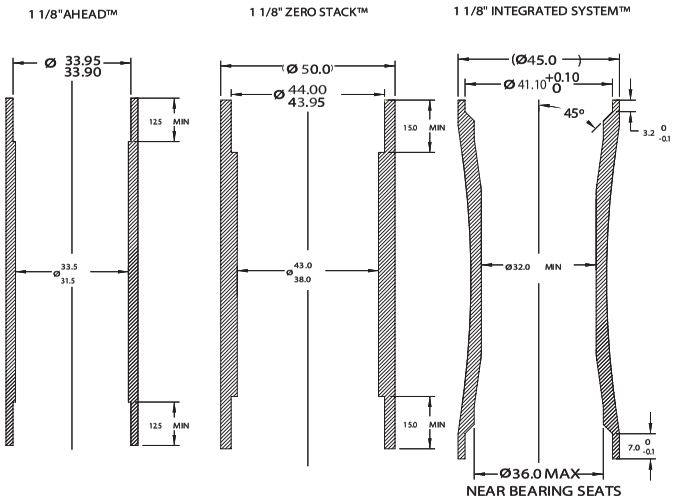
1. See detailled illustrations for all interface dimensions

2. Integrated headsets have no cups and their bearings interface the head tube directly

3. The Cane Creek Integrated System standard is the most common design standard with many other headset manufacturers also following the standard.

4. The Campagnolo Hiddenset standard is also popular with some other headset manufacturers offering compatible headsets.

5. There exist other, much less commonly used, integrated headset systems. These are too numerous and are used in such small quantities that they do not warrant listing.

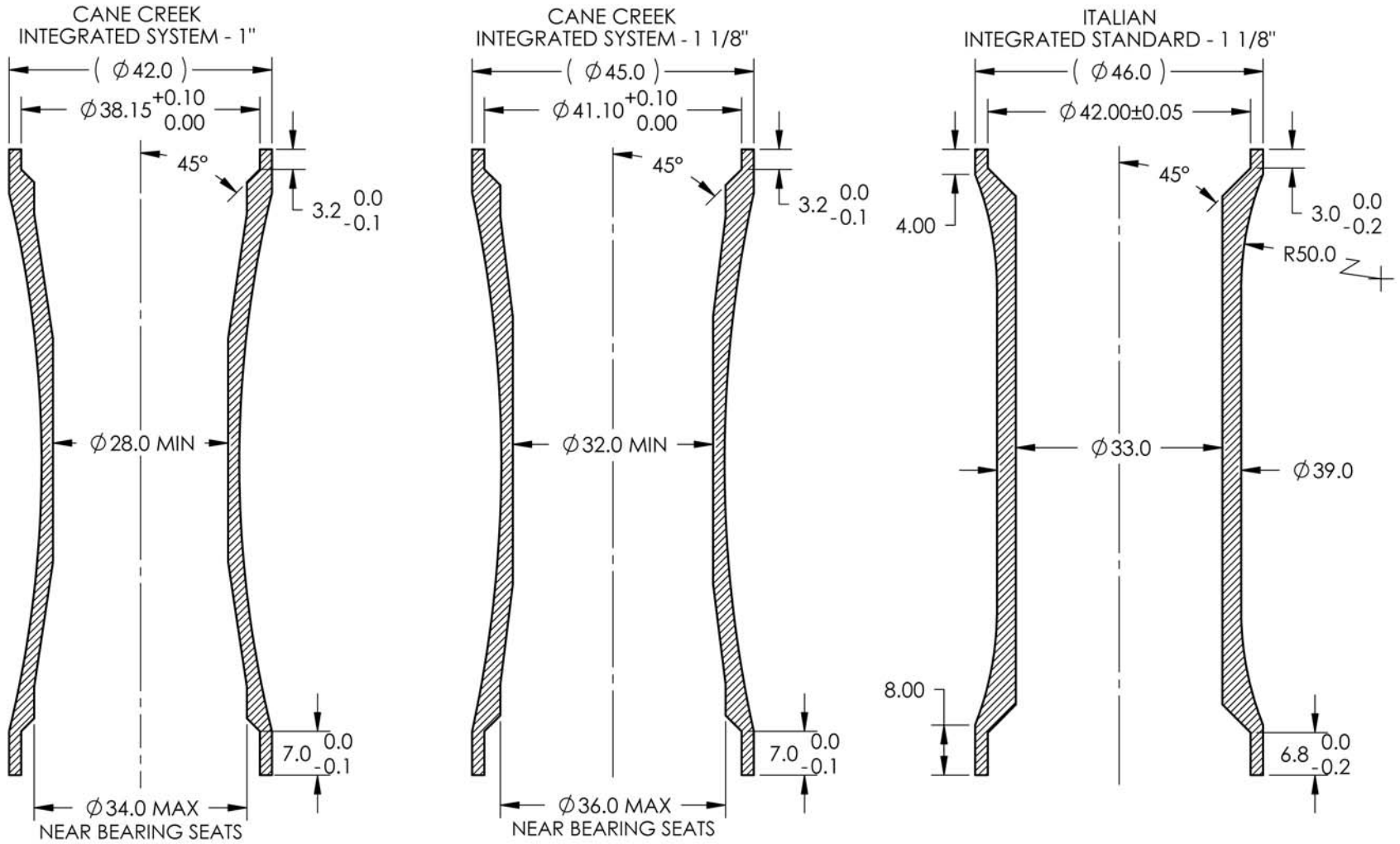


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Head Tube Details

Integrated (IS) Head Tube Specifications

INTEGRATED



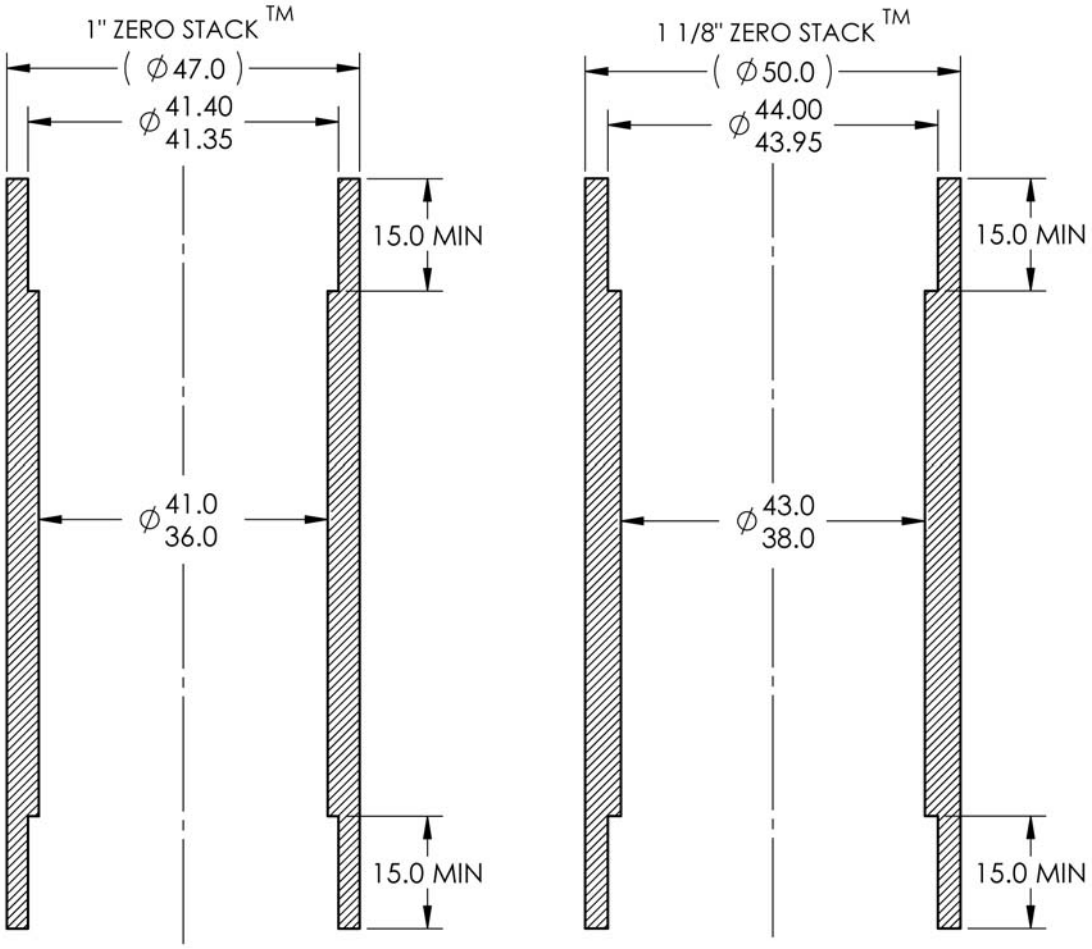
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Head Tube Details

Semi-Integrated (ZS) Head Tube Specifications

SEMI-INTEGRATED



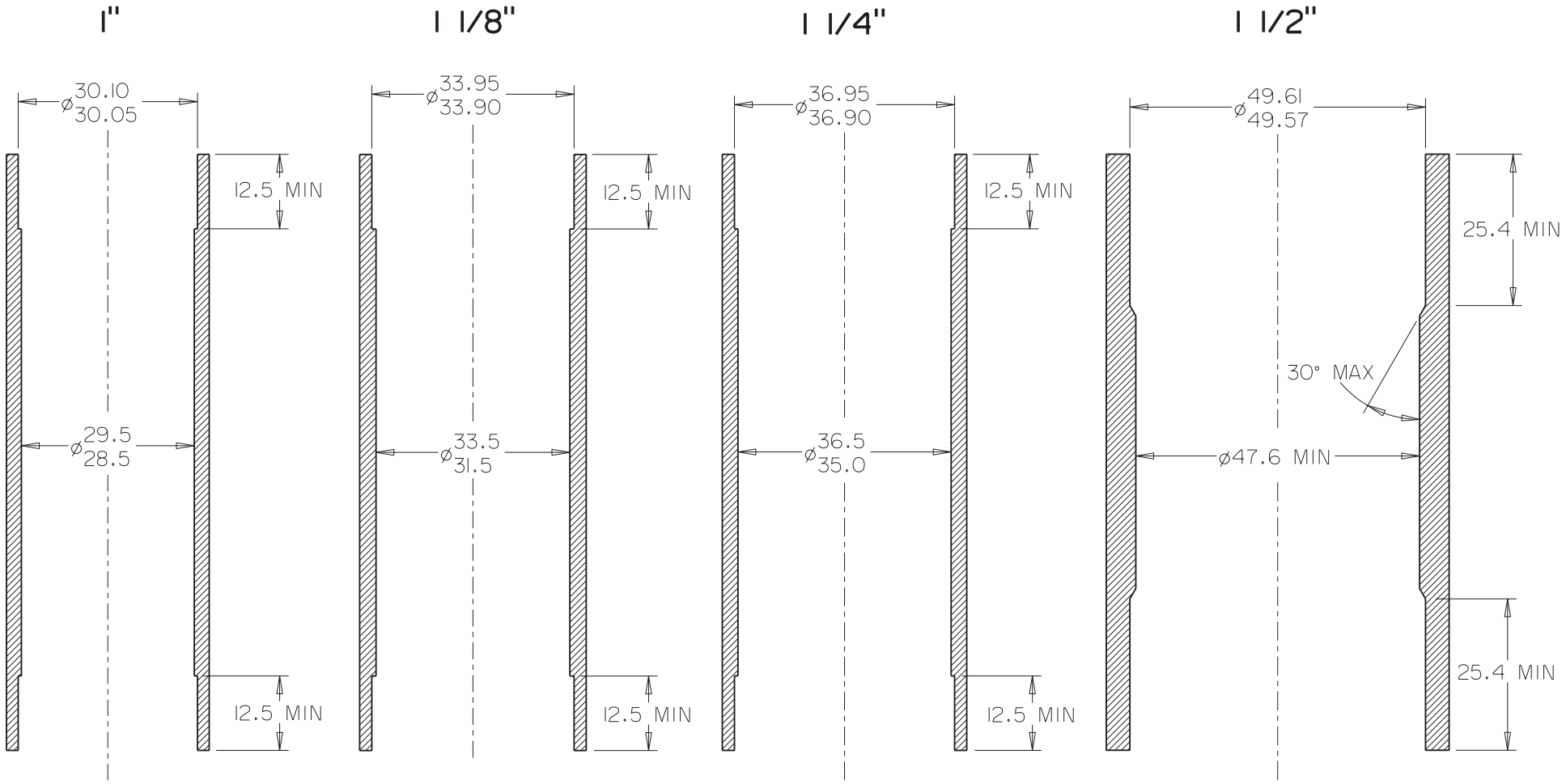
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Head Tube Details

Traditional Head Tube Specifications

TRADITIONAL

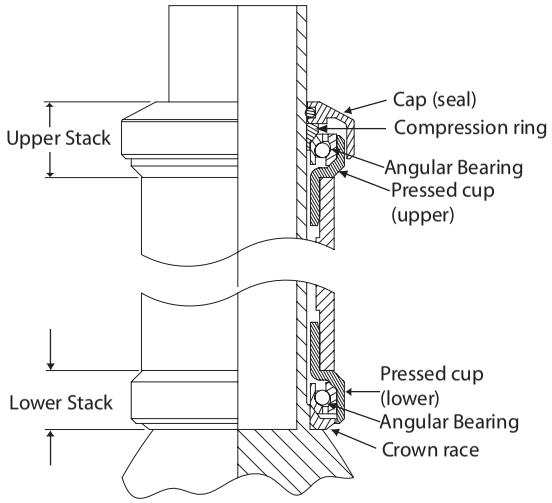


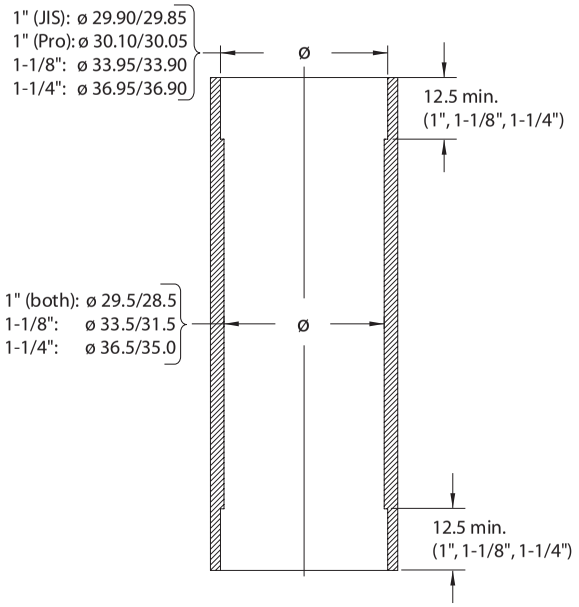
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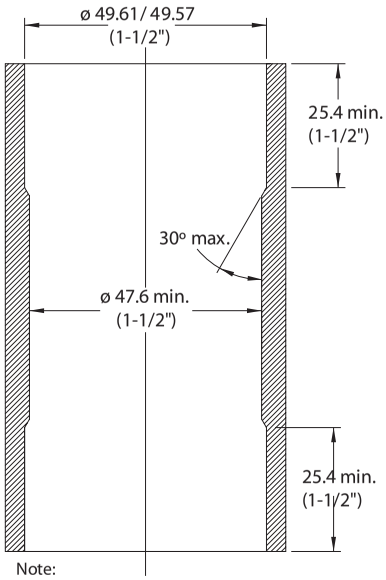
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Threadless Headsets
(Standard type)

Parts plus Head Tube and Fork Specifications

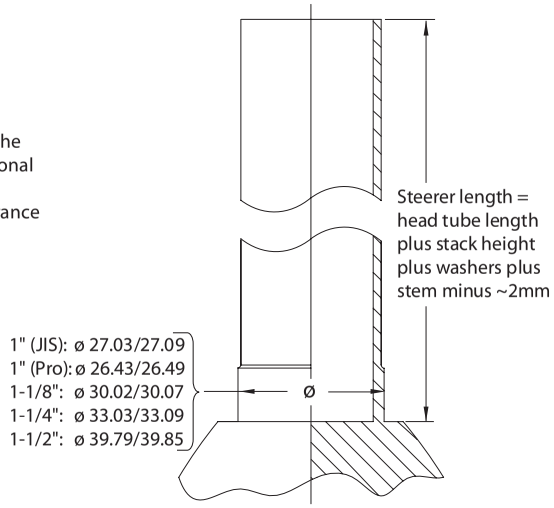






Note:
• Early Cannondales using 1-1/2" headset may have a ream depth of 11mm. Cane Creek® makes some models to fit. Alternatively, you may ream out head tube to 25.4 (minimum) to fit standard 1-1/2" headsets
• Cane Creek® also makes a model to adapt 1-1/2" to work with 1-1/8" forks in the event a customer wants to change from a Headshox to another fork brand

General Notes:
• The increasingly rare JIS 1" standard headset can be replaced by the more available Professional 1" by reaming the head tube and crown seat to Professional standard
• See page X-X for comments on tolerance and *target* dimensions



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