

Standardized Headset Identification System [S.H.I.S.]

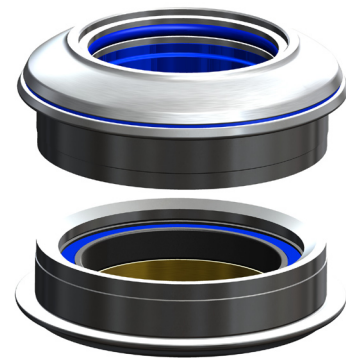
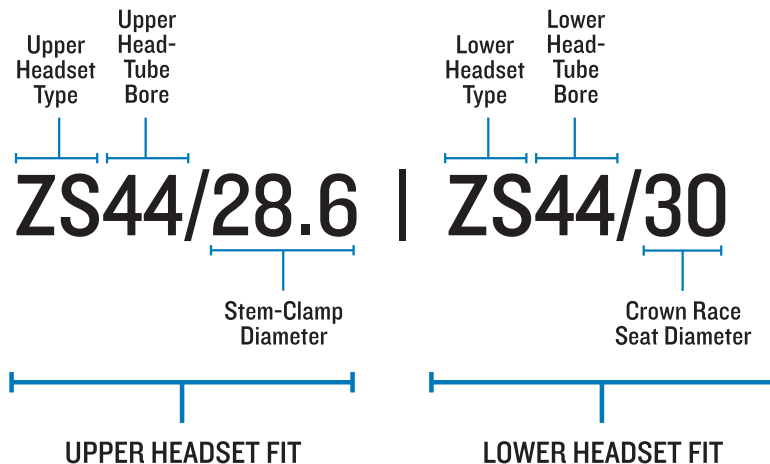
HEADSET MANUFACTURERS PARTNER IN DEVELOPMENT OF NEW FITMENT IDENTIFICATION SYSTEM

November 9, 2010 – To address the changing landscape of bicycle headsets, a group of leading headset manufacturers have collaborated to develop a standardized “language” for headset fitment. The new Standardized Headset Identification System (S.H.I.S.) creates a common language for describing modern bicycle headsets. The system provides comprehensive and scalable headset fitment information in a standard format; making it easier to communicate headset requirements based on frame and fork interfaces.

“As a bicycle manufacturer I have participated in many conversations with customers who are struggling to understand modern headset fitment,” says Michael Bonney of Orange Mountain Bikes. “During Eurobike and Interbike I suggested to a couple of headset makers that a universal system for talking about headsets was needed, and I’m excited to see it happening.”

The Standardized Headset Identification System (S.H.I.S.) incorporates the four critical interface dimensions required to fit a fork to a frame, as well as explicitly noting bearing location/cup type.

EXAMPLE: ZS44/28.6 | ZS44/30 (1-1/8" ZEROSTACK)



The group of companies leading the development of the new headset naming system include: Acros, Cane Creek, Hope, Race Face, Reset and Ritchey. Each of the participants has committed to integrate the Standardized Headset Identification System into their respective businesses over the course of the next year and encourage additional headset manufacturers to follow. Select bicycle parts distributors will have partial integration of the S.H.I.S. in their 2011 catalogs with further inclusion throughout the year. On the bicycle manufacturing level, several early adopters will begin using the system on their new model-year bikes.

“Headset standards were getting a bit out of control and the nomenclature to keep it all together was unraveling,” says Steve Domahidy, co-owner of Niner Bikes. “It was becoming difficult to talk to customers about headsets and help them understand, so this system takes out the guesswork and makes it as easy as it can be to insure that everybody’s speaking the same language.”

To learn more about system methodology and to view specific examples and illustrations, please refer to the documents attached to this press release or contact one of the participating headset manufacturers listed. BicycleHeadsets.com, a collaborative website has been developed that explains in detail the Standardized Headset Identification System complete with examples and drawings.

BicycleHeadsets.com

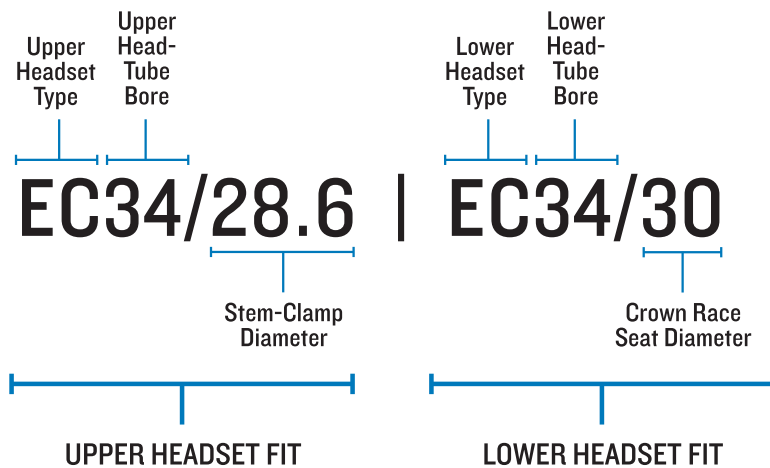


The Standardized Headset Identification System (S.H.I.S.) creates a common language for describing modern bicycle headsets. The system provides comprehensive and scalable headset fitment information in a standardized format; making it easy to communicate headset requirements based on frame and fork interfaces.

The system addresses the critical interface dimensions required to fit a fork to a frame, as well as bearing location/cup type. To determine fit, four dimensions are needed: (1) stem-clamp diameter of fork, (2) crown-race seat diameter of fork, (3) head-tube top inside diameter, and (4) head-tube bottom inside diameter. Bearing location and cup-type are identified as (a) external cup (EC), (b) semi-integrated or ZeroStack (ZS), or (c) integrated (IS).

For more information, visit BicycleHeadsets.com.

EXAMPLE: EC34/28.6 | EC34/30 (1-1/8" TRADITIONAL)



BEARING LOCATION / CUP TYPES

EC (External Cup)

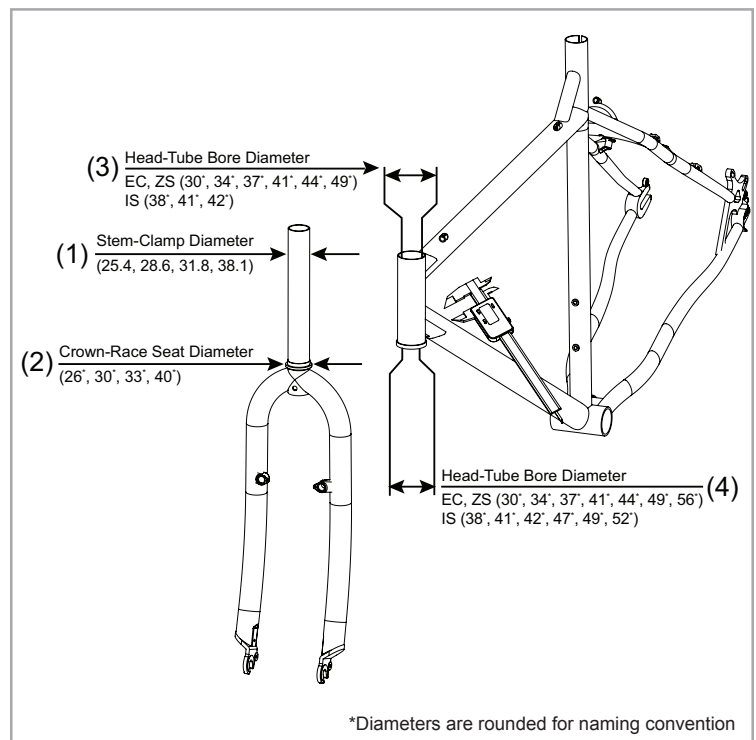
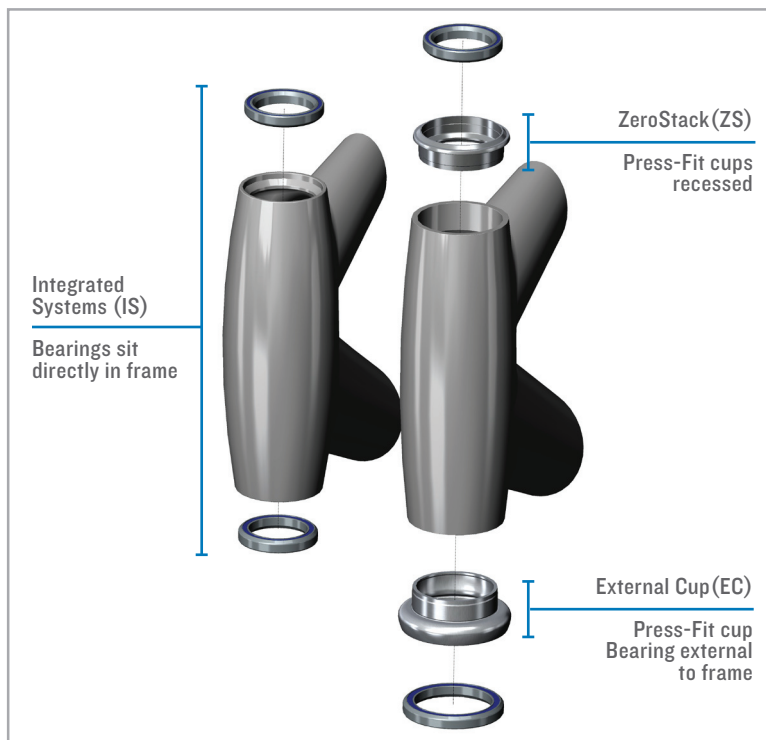
Bearings contained within cups that are located outside of the frame.

ZS (ZeroStack)

Bearings contained within pressed-in cups where the cup and bearings rest inside the frame.

IS (Integrated)

Bearings that fit directly into a bonded or machined interface that is integrated into the frame.





EC (External Cup)



ZS (ZeroStack)



IS (Integrated)

HEAD-TUBES FOR PRESS-FIT CUPS

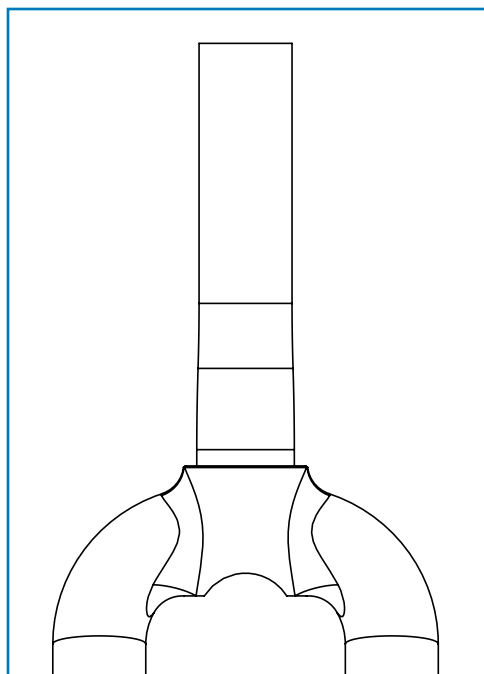
Head-Tube Bore	S.H.I.S. Name
30.10 - 30.05	30
33.95 - 33.90	34
36.95 - 36.90	37
41.40 - 41.35	41
44.00 - 43.95	44
49.61 - 49.57	49
55.95 - 55.90	56

HEAD-TUBES FOR INTEGRATED SYSTEMS

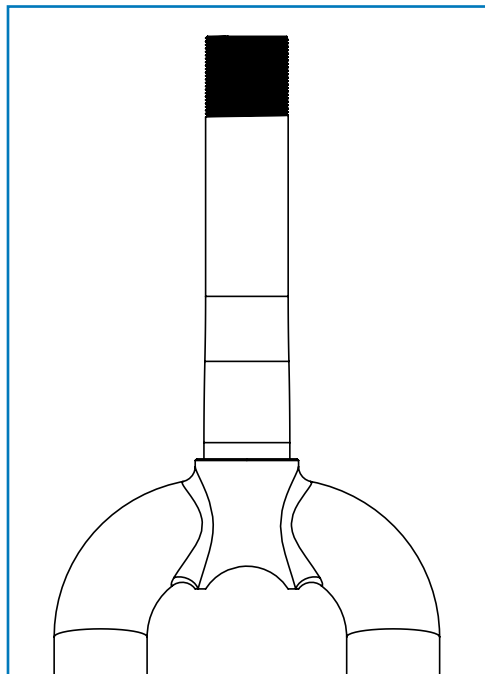
Head-Tube Bore	S.H.I.S. Name
38.15 - 38.25	IS38
41.1 - 41.2	IS41
41.95 - 42.05	IS42
47.00 - 47.10	IS47
49.10 - 49.20	IS49
52.05 - 52.15	IS52

Examples:

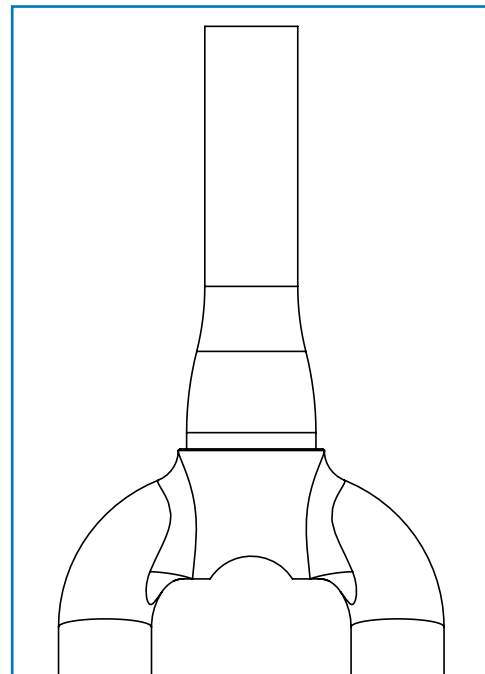
LEGACY NAME	HEADSET STYLE	BEARING LOCATION		HEAD-TUBE BORE (MM)	S.H.I.S. NAME
COMPLETE		LEGACY	S.H.I.S.		
1" Professional	Press Fit - External Cup	External	EC	30.10 -30.05	EC30
1" JIS	Press Fit - External Cup	External	EC	29.9 -29.85	EC29
1-1/8" Traditional	Press Fit - External Cup	External	EC	33.95 -33.90	EC34
1-1/4" Traditional	Press Fit - External Cup	External	EC	36.95 -36.90	EC37
1-1/2" Traditional	Press Fit - External Cup	External	EC	49.61 -49.57	EC49
1" ZeroStack	Press Fit - Internal Cup	Inside Head-Tube	ZS	41.40 -41.35	ZS41
1-1/8" ZeroStack	Press Fit - Internal Cup	Inside Head-Tube	ZS	44.00 -43.95	ZS44
1-1/2" ZeroStack	Press Fit - Internal Cup	Inside Head-Tube	ZS	55.95 -55.90	ZS56
TOP					
1" IS - Cane Creek	Integrated - Top	Integrated - Top	IS	38.15 -38.25	IS38
1-1/8" IS - Cane Creek	Integrated - Top	Integrated - Top	IS	41.10 -41.20	IS41
1-1/8" ISi - Italian	Integrated - Top	Integrated - Top	IS	41.95 -42.05	IS42
BOTTOM					
1" IS - Cane Creek	Integrated - Bottom	Integrated - Bottom	IS	38.15 -38.25	IS38
1-1/8" IS - Cane Creek	Integrated - Bottom	Integrated - Bottom	IS	41.10 -41.20	IS41
1-1/8" ISi - Italian	Integrated - Bottom	Integrated - Bottom	IS	41.95 -42.05	IS42
1-1/4" IS	Integrated - Bottom	Integrated - Bottom	IS	47.00 -47.10	IS47
1-3/8" IS - Cane Creek	Integrated - Bottom	Integrated - Bottom	IS	49.10 -49.20	IS49
1-1/2" IS	Integrated - Bottom	Integrated - Bottom	IS	52.05 -52.15	IS52



Straight Fork



Threaded Fork



Tapered Fork

FORK SIZE (IN.)	S.H.I.S. NAME-TOP	S.H.I.S. NAME-BOTTOM
1"	25.4	26
1-1/8"	28.6	30
1-1/4"	31.8	33
1.5"	38.1	40

FORK SIZE (IN.)	S.H.I.S. NAME-TOP	S.H.I.S. NAME-BOTTOM
1" Threaded	25.4-24tpi	26
1-1/8" Threaded	28.6-26tpi	30
1-1/4" Threaded	31.8-26tpi	33

FORK SIZE (IN.)	S.H.I.S. NAME-UPPER	S.H.I.S. NAME-LOWER
1-1/8" - 1-1/4"	28.6	33
1-1/8" - 1.5"	28.6	40

FORK STEERER INFO

STEM-CLAMP DIAMETER (MM)	RANGE	THREADED/THREADLESS	S.H.I.S. NAME
25.4 (1")	25.4-25.25	Threadless	25.4
28.6 (1-1/8")	28.6-28.45	Threadless	28.6
31.74 (1-1/4")	31.75-31.60	Threadless	31.8
38.2 (1-1/2")	38.202-37.074	Threadless	38.1
25.4 (1")	N/A	Threaded	25.4-24tpi
28.6 (1-1/8")	N/A	Threaded	28.6-26tpi
31.74 (1-1/4")	N/A	Threaded	31.8-26tpi

CROWN-RACE SEAT DIAMETER (MM)	RANGE	S.H.I.S. NAME
26.49	26.43-26.49	26
27.09	27.03-27.09	27
30.075	30.015-30.075	30
33.09	33.03-33.09	33
39.85	39.79-39.85	40

EXAMPLES	HEAD-TUBE BORE- TOP	HEAD-TUBE BORE- BOTTOM	STEM- CLAMP DIAMETER	CROWN- RACE SEAT DIAMETER	NOTES
EC34/28.6	External Cup 33.95mm		28.6mm		External Cup 1-1/8" top headset
EC34/28.6-26tpi	External Cup 33.95mm		28.6mm threaded		External Cup Threaded 1-1/8" top headset
EC34/30		External Cup 33.95mm		30.015mm	External Cup 1-1/8" bottom headset
ZS44/28.6	Semi-Integrated 44mm		28.6mm		Semi-Integrated (44mm) top headset with 1-1/8" steerer
ZS44/30		Semi-Integrated 44mm		30.015mm	Semi-Integrated (44mm) bottom headset with 1-1/8" steerer
EC44/40		Semi-Integrated 44mm		39.79mm	External Cup bottom headset for using a tapered steerer fork in a 44mm bore head-tube
ZS49/30	Semi-Integrated 49.61mm		28.6mm		1.5" Flush reducer top headset
EC49/38.1	External Cup 49.61mm		38.2mm		External Cup 1.5" top headset for use with 1.5" steerer fork
ZS49/30		Semi-Integrated 49.61mm		30.015mm	1.5" Semi-Integrated reducer bottom headset
EC49/30		External Cup 49.61mm		30.015mm	1.5" External Cup reducer bottom headset
EC49/40		External Cup 49.61mm		39.79mm	1.5" External Cup bottom headset - for use with tapered or 1.5" fork

FOR A COMPLETE HEADSET DEFINITION, THE TOP HEADSET IS LISTED FIRST AND THE LOWER IS LISTED SECOND, WITH A VERTICAL BAR (PIPE) SEPARATING THEM:

EC34/28.6 | EC34/30

EC34/28.6-26tpi | EC34/30

ZS44/28.6 | ZS44/30

ZS44/28.6 | EC44/40

ZS49/28.6 | ZS49/30

ZS49/28.6 | EC49/30

ZS49/28.6 | EC49/40

