

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

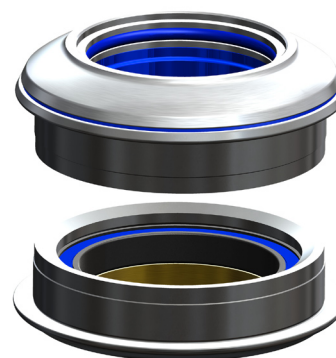
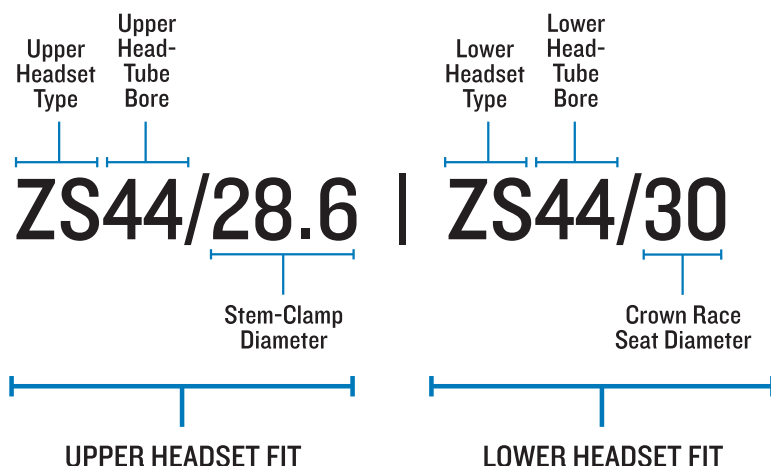
## HEADSET MANUFACTURERS PARTNER IN DEVELOPMENT OF NEW FITMENT IDENTIFICATION SYSTEM

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](http://BicycleHeadsets.com)

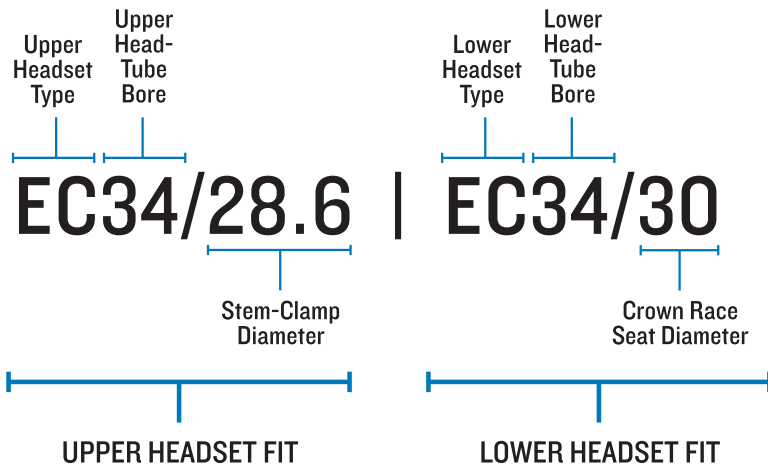


The Standardized Headset Identification System (S.H.I.S.) creates a common language for describing modern bicycle headsets. The system provides comprehensive and scalable headset fitment information in a standardized format; making it easy to communicate headset requirements based on frame and fork interfaces.

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](http://BicycleHeadsets.com).

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



### BEARING LOCATION / CUP TYPES

#### EC (External Cup)

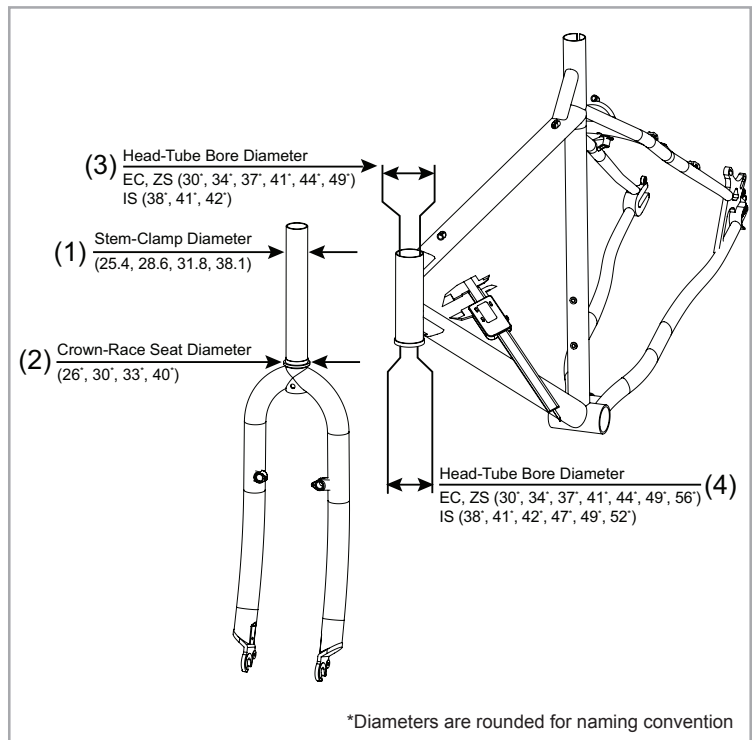
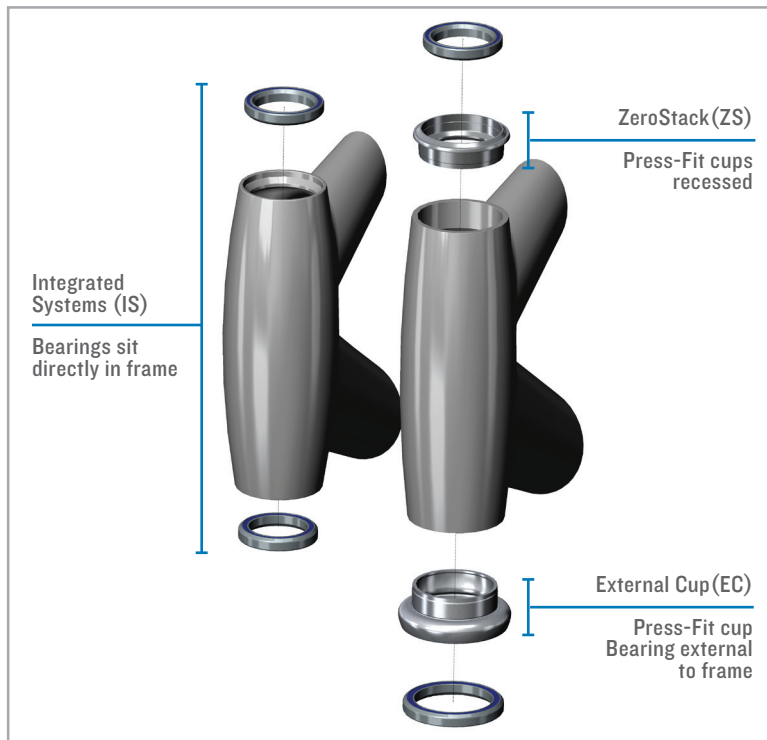
Bearings contained within cups that are located outside of the frame.

#### 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 |
|----------------------|---------------|
| <b>30.10 - 30.05</b> | 30            |
| <b>33.95 - 33.90</b> | 34            |
| <b>36.95 - 36.90</b> | 37            |
| <b>41.40 - 41.35</b> | 41            |
| <b>44.00 - 43.95</b> | 44            |
| <b>49.61 - 49.57</b> | 49            |
| <b>55.95 - 55.90</b> | 56            |

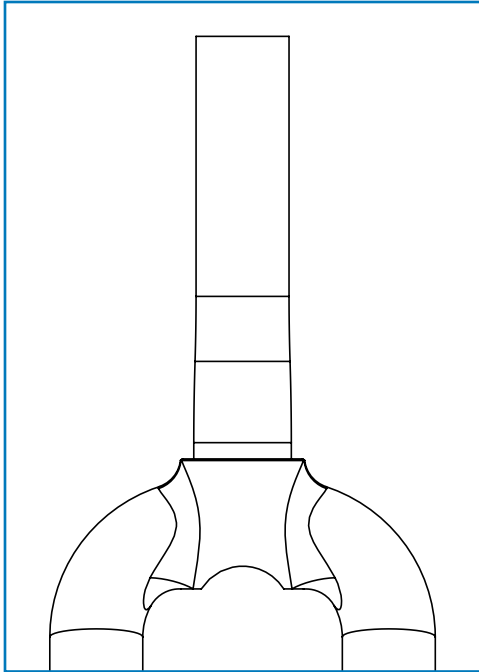
### HEAD-TUBES FOR INTEGRATED SYSTEMS

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

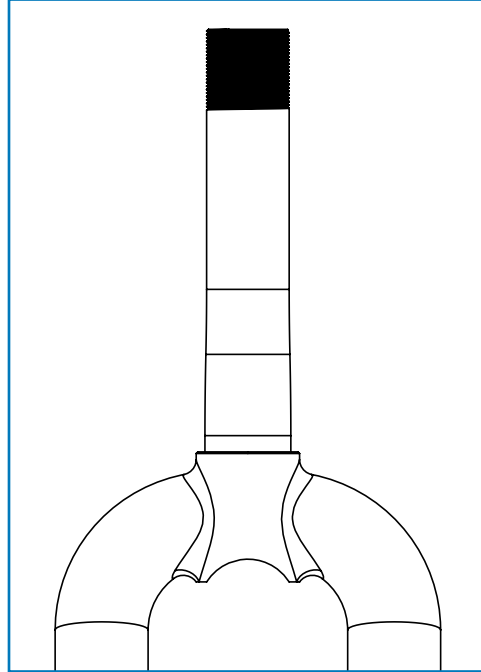
## Examples:

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

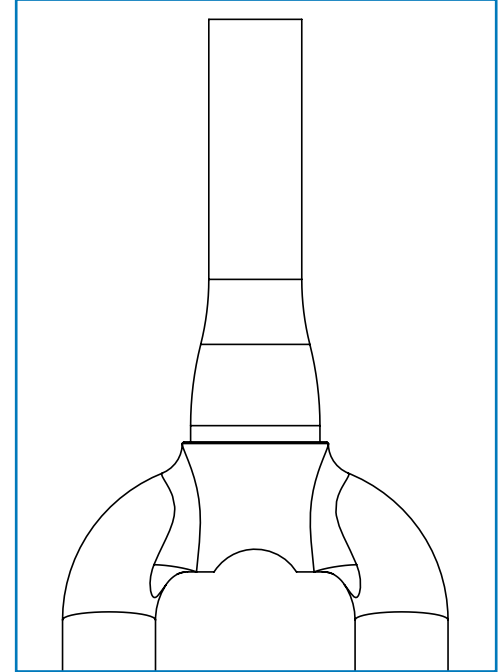




**Straight Fork**



**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

