

Bicycle Components Datasheet

CNC machined and moulded bicycle parts

Headsets, star nuts, hubs, pedals, seat clamps, brake levers, cable sets, quick release skewers, derailleur pulleys, bottle cages and GPS computer mounts, with alloy grades, weights, bearing counts and dimensions as published.

Headset Star Nut

Headset Star Nut AL7075 CNC Machined

A star nut is the anchor the top cap bolt pulls against to preload a headset. This one is CNC machined from AL7075 with a hollowed body, weighs 7 grams per set and seats in steerer tubes from 22.8 mm to 25.2 mm internal diameter.

Weight	7 g per set
Material	AL7075
Process	CNC hollow machined
Suitable internal diameter	22.8 mm minimum to 25.2 mm maximum

valorider.com/products/headset-star-nut.html

Stopwatch Mounts

Adjustable Stem Mount VBH-08 for GPS Computers [VBH-08]

A CNC machined AL6061 computer mount that fixes to the stem and adjusts for angle, weighing 25 grams with an anodised black sand finish. It suits Garmin Edge 200, 500 and 800 series, Bryton 20, 21, 40 and 50 series, and CATEYE units.

Material	AL6061
Weight	25 g
Colour	Anodised black sand
Fits	GARMIN Edge 200 / 500 / 800 series, Bryton 20 / 21 / 40 / 50 series, CATEYE series

valorider.com/products/adjustable-stem-mount.html

Gravity Top Cap Mount VBH-07 12 g [VBH-07]

A computer mount that replaces the headset top cap, machined from AL6061 and weighing just 12 grams in an anodised black sand finish. It fits Garmin Edge 200, 500 and 800 series, Bryton 20, 21, 40 and 50 series, and CATEYE units.

Material	AL6061
Weight	12 g
Colour	Anodised black sand
Fits	GARMIN Edge 200 / 500 / 800 series, Bryton 20 / 21 / 40 / 50 series, CATEYE series

valorider.com/products/multifunction-mount-edge.html

Pedals

Pedals-04 CRMO Axle Platform Pedals

A wide platform pedal built on a CRMO steel axle with a CNC machined AL6061 body and three bearings per pedal. The platform measures 100 by 90 by 15 mm and the pair weighs 290 grams.

Axle	CRMO
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Weight	290 g per pair
Body	AL6061, CNC machined
Bearing	3
Dimension	100 x 90 x 15 mm
Colour	Anodised red, black, gold or blue

valorider.com/products/pedals-04-2.html

Rear Derailleurs Pulley

Rear Derailleur Pulley 11T AL7075 CNC Machined

An 11 tooth rear derailleur pulley CNC machined from AL7075, weighing 10 grams and supplied with one bearing. It is made for Shimano and SRAM 7, 8 and 9 speed derailleurs and is available with a 5 mm or 6 mm bore.

Weight	10 g
Material	AL7075, CNC machined
Diameter	5 mm or 6 mm bore
Teeth	11T
Compatibility	Shimano and SRAM 7, 8 and 9 speed
Bearing	1 pc
Colour	Anodised red, gold, titanium, blue or black

valorider.com/products/rear-derailleurs-pulley.html

External Headsets

Threadless External Headsets VH-01 [VH-01]

An external cup threadless headset, fully CNC machined from 6061AL-T6, running two sealed cartridge bearings. The set weighs 110 grams, measures 28.6 by 34 by 30 mm and gives a 33 mm stack height made up of 21 mm upper and 12 mm lower.

Weight	110 g per set
Material	6061AL-T6, full set CNC machined
Diameter	28.6 mm x 34 mm x 30 mm
Stack height	21 mm + 12 mm = 33 mm
Bearings	2 sealed cartridge bearings
Colour	Anodised red, gold, titanium, blue or black

valorider.com/products/external-headsets.html

Bottle Cages

Fibreglass Bottle Cage 42 g with Card Packing

A bicycle bottle cage moulded from fibreglass reinforced nylon, weighing 42 grams. It comes in white, red and black, ships with card packing ready for retail display, and accepts a customised logo.

Material	Fibreglass + nylon
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Weight	42 g
Colour	White, red or black
Packing	Card packing
Customisation	Customised logo available

valorider.com/products/bottle-cages.html

Quick Releases

Quick Release Skewers VQR-01 Titanium and AL7075 [VQR-01]

A quick release skewer set built from titanium alloy and CNC machined AL7075, weighing 48 grams. It covers 75 and 100 mm front spacing and 130 and 135 mm rear spacing, and is anodised in red, titanium or black.

Weight	48 g
Material	Titanium alloy + 7075AL, CNC machined
Dimension	Front 75 / 100 mm, rear 130 / 135 mm
Colour	Anodised red, titanium or black

valorider.com/products/quick-release.html

Quick Release Skewers VQR-02 Five Colour Range [VQR-02]

Quick release skewers in titanium alloy with CNC machined AL7075, weighing 48 grams. Front spacing covers 75 and 100 mm and rear covers 130 and 135 mm. VQR-02 is the five-colour version of the set: red, gold, titanium, blue and black.

Weight	48 g
Material	Titanium alloy + 7075AL, CNC machined
Dimension	Front 75 / 100 mm, rear 130 / 135 mm
Colour	Anodised red, gold, titanium, blue or black

valorider.com/products/personalized-mini-bottle.html

Pedals

Titanium Axle Road Pedals 170 g per Pair

A compact platform pedal with a titanium axle and a CNC machined AL6061 body, running three bearings per pedal. At 170 grams per pair in an 80 by 80 by 17 mm body, this is the lightest pedal in the VALORIDER range.

Axle	Titanium
Weight	170 g per pair
Body	AL6061, CNC machined
Bearing	3
Dimension	80 x 80 x 17 mm
Colour	Anodised red, black, gold, blue or titanium

valorider.com/products/pedals.html

Quick Releases

Quick Release Skewers VQR-03 Heavy Duty Set [VQR-03]

A quick release skewer set in titanium alloy and CNC machined AL7075, weighing 66 grams per pair. It is specified for 100 mm front spacing and 130 or 135 mm rear, and is anodised in red or black.

Weight	66 g per pair
Material	Titanium alloy + 7075AL, CNC machined
Dimension	Front 100 mm, rear 130 / 135 mm
Colour	Anodised red or black

valorider.com/products/quick-release-2.html

Stopwatch Mounts

Out Front Bike Mount VBH-04 for Garmin and GoPro [VBH-04]

An out-front handlebar mount machined from AL6061, weighing 35 grams in anodised black sand. It carries a GPS computer on top and takes a GoPro, video camera or light underneath, and it suits almost any bike stem. Compatible units include Garmin Edge 200, 500 and 800 series, Bryton 20, 21, 40 and 50 series, and iGPSPORT.

Material	AL6061
Weight	35 g
Colour	Anodised black sand
Accessory mount	Takes a GoPro, video camera or lights
Stem fit	Suits almost all kinds of bike stem
Fits	GARMIN Edge 200 / 500 / 800 series, Bryton 20 / 21 / 40 / 50 series, iGPSPORT series

valorider.com/products/mount-edge.html

Cable Housings/Inner Wires

Complete Brake and Gear Cable Housing Set

A complete cable set for a bike: 2.5 metres of brake housing and 2.0 metres of gear housing, plus a 1100 mm front and 1700 mm rear inner brake cable, and the end caps and rings needed to finish the job. The set weighs 250 grams and comes in six colours.

Weight	250 g
Colour	Red, black, green, blue, white or orange
Brake housing	2.5 m
Gear housing	2.0 m
Inner brake cable	Front 1100 mm x 1 pc, rear 1700 mm x 1 pc
Included parts	14 black housing caps, 3 O-rings, 4 aluminium end caps

valorider.com/products/cable-housing.html

Brakes

CNC Brake Lever Set with Reach Adjustment

A pair of CNC hollow machined brake levers in AL6061-T6, weighing 70 grams per set. They use a three-finger blade shape, carry reach adjustment and add a springback spring so the lever returns positively.

Weight	70 g per set
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Material	AL6061-T6, CNC hollow machined
Design	Three-finger with reach adjustment and springback spring
Colour	Anodised red, gold, titanium, blue or black

valorider.com/products/braker-lever.html

Hubs

MTB Hub Set AL7075 and AL6061-T6 with 6 Pawls

A mountain bike hub set machined from AL7075 and AL6061-T6. The front hub weighs 149 grams and the rear 266 grams, both drilled 16 by 2 for 32 spokes, running sealed bearings and a six pawl freehub mechanism.

Weight	149 g front / 266 g rear
Material	AL7075 + AL6061-T6
Spoke holes	16 x 2 front / 16 x 2 rear
Sealed bearings	2 front / 4 rear
Pawls	6 pawls
Colour	Anodised red or black

valorider.com/products/hubs.html

Clamps

Super Light CNC Seat Clamp with Titanium Bolt

A CNC machined seat clamp in AL6061 with a titanium bolt, weighing 16 grams with a 12 mm body height. It is available for 31.8 mm and 34.9 mm seat tubes.

Material	AL6061, CNC machined
Weight	16 g
Height	12 mm
Screw	Titanium
Diameter	31.8 mm or 34.9 mm

valorider.com/products/clamp.html

Semi-Internal Headsets

Semi-Internal Headsets 6061AL-T6

A semi-internal threadless headset in fully CNC machined 6061AL-T6, running two sealed cartridge bearings. It weighs 98 grams per set, measures 28.6 by 44 by 30 mm and adds only 9.5 mm of stack, made up of 7.5 mm upper and 2 mm lower.

Weight	98 g per set
Material	6061AL-T6, full CNC machined
Diameter	28.6 mm x 44 mm x 30 mm
Stack height	7.5 mm + 2 mm = 9.5 mm
Bearings	2 sealed cartridge bearings
Colour	Anodised red, gold, titanium, blue or black

valorider.com/products/semi-internal-headsets.html

Bottle Cages

Luminous Bottle Cage 26 g Glow in the Dark

A bottle cage moulded from a luminous compound with PP, weighing 26 grams. It is available in blue, yellow and green and ships with card packing. It is the lightest cage in the range.

Weight	26 g
Material	Luminous material + PP
Colour	Blue, yellow or green
Packing	Card packing

valorider.com/products/luminous-bottle-cage.html

Pedals

MTB Pedals Titanium Axle 272 g per Pair

A mountain bike platform pedal with a titanium axle, a CNC machined AL6061 body and three bearings per pedal. The platform is 100 by 95 by 17 mm and the pair weighs 272 grams.

Axle	Titanium
Weight	272 g per pair
Body	AL6061, CNC machined
Bearing	3
Dimension	100 x 95 x 17 mm
Colour	Anodised red, black, gold or blue

valorider.com/products/mtb-pedals.html

Stopwatch Mounts

Integrated Handlebar and Stem Mount VBH-06 [VBH-06]

A computer mount machined from AL6061 for integrated handlebar and stem cockpits, weighing 30 grams in anodised black sand. It also takes a GoPro, video camera or lights, and fits Garmin Edge 200, 500 and 800 series, Bryton 20, 21, 40 and 50 series, and iGPSPORT units.

Material	AL6061
Weight	30 g
Colour	Anodised black sand
Accessory mount	Takes a GoPro, video camera or lights
Stem fit	Suits almost all kinds of bike stem
Fits	GARMIN Edge 200 / 500 / 800 series, Bryton 20 / 21 / 40 / 50 series, iGPSPORT series

valorider.com/products/mount-edge-fortt-handle-bar.html

Ordering and Contact

Shenzhen SuRuiqi Technology Co., Ltd has manufactured bicycle and motorcycle components in Guangdong, China since 2009 and provides OEM and ODM development. Customised logo is accepted across the range. Prices depend on quantity, finish, branding and packing, so no price list is published; send the products and quantities for a quotation.

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