

FRAME PASSPORT

ORION



RIDLEY

ORION
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#BeTOUGH

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0. UPDATES

The development of frames, forks and components is a continuous running process. Therefore we strongly advise before reading this information sheet check our website for new updates.

1. GENERAL

1.1. DESCRIPTION

A real multi purpose frame what can be used for all types of riding conditions.

1.2. PART CODES

All the Orion frames have a particular part code composed by the letters "FRAORIRID...", added by 3 numbers. The three numbers change depending on the design and size of the frame. Due to the big amount of frames we don't list all the numbers but you can contact your local dealer for more information if needed.

2. MATERIAL

Used frame materials:

- 24 ton High Modulus Carbon
- Stainless steel (drop out protection plates)

3. WEIGHT

3.1. FRAME

SIZE	WEIGHT (*)
XXS	1150 GRAMS
XS	1170 GRAMS
S	1190 GRAMS
M	1220 GRAMS
L	1260 GRAMS
XL	1300 GRAMS

(*) Weight of painted frame, real weight may differ from the weight mentioned above by 10 %.

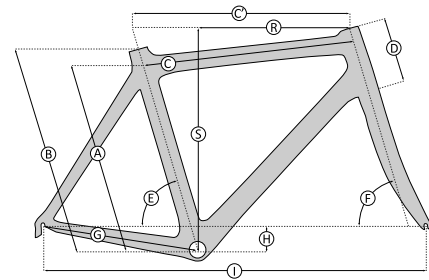
3.2. FORK

The weight of the 4ZA Orion fork is around 580 g (*)

(*) Weight of painted fork, real weight may differ from the weight mentioned above by 10 %.

4. GEOMETRY

SIZE	A	B	C	C'	D	E	F	G	H	I	J*	S	R
XXS	410	450	500	515	110	75	72	405	68	969	690	505	380
XS	440	480	510	525	130	74	72	405	68	974	740	530	375
S	470	510	530	545	145	73,5	73	405	66	977	750	545	385
M	500	540	550	565	175	73	73,5	405	66	990	780	575	390
L	530	570	570	585	205	72,5	73,5	408	63	1003	810	602	400
XL	560	600	585	600	230	72,5	74	408	63	1012	840	625	405



(*) J: Stand over height

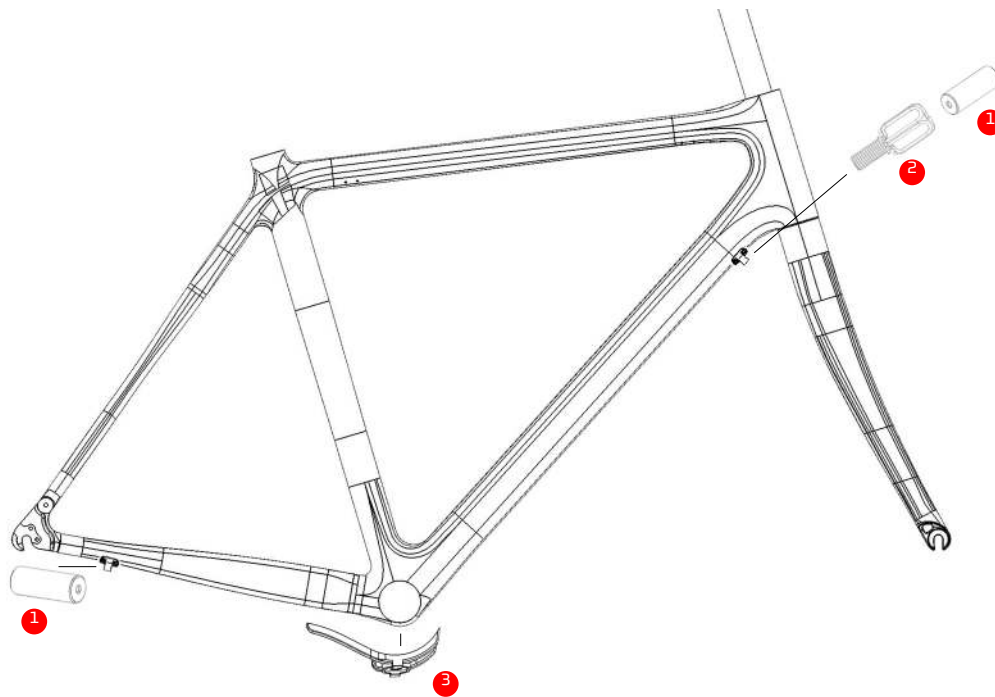
5. CABLE ROUTING

5.1. COMPATIBILITY

The Orion is compatible for mechanical groupsets only.

5.2. MECHANICAL CABLE ROUTING

Below you can find the parts needed for a mechanical groupset:



NO.	PART	PART CODE	QUANTITY
1	END CAP	CABSTIJAG002	3
2	CABLE ADJUSTER	CABSTI4ZA005	2
3	CABLE GUIDE	CBGR CERID007	1

6. PARTS

6.1. FORK

The standard fork, used for a Orion, is the 4ZA Orion fork.

6.1.1. MATERIAL

- Fork legs: Carbon
- Steerer tube: Alloy

6.1.2. DIMENSIONS

- Steerer tube length: 300 mm
- Headset: 1 1/8" upper ring – 1 1/8" lower ring
- Fork rake: 45 mm
- OLD (OverLock nut Distance): 100 mm

6.1.3. PART CODES

All the 4ZA Orion forks have a particular part code composed by the letters "FORORI4ZA...", added by 3 numbers. The three numbers, depending on the design. Due to the big amount of forks we don't list all the numbers but you can contact your local dealer for more information if needed.

6.2. HEADSET

45° Regular angular contact bearing (S.H.I.S.: IS42/28,IS42/28):

- Lower bearing: 1 1/8"
- Upper bearing: 1 1/8"

Recommended headset:

RIDLEY PART CODE	TYPE	BRAND
HSERAC4ZA001	NO.8B	FSA

6.3. SEAT POST

The Orion frame is developed to use a 31,6 mm seat post. To fix the seat post the 4ZA 34,9 mm (Part Code: SPCSNG4ZA011) seat post clamp can be used.

6.4. BOTTOM BRACKET

The bottom bracket is BSA threaded and has a width of 68 mm to fit standard BSA68 cups.

6.5. BRAKES

The Orion is suited for most standard brakes, available in the market.

6.6. DERAILLEUR

6.6.1. FRONT

The frame is designed to use a clamp on derailleur for a 34,9 mm seat tube. Also a braze on derailleur can be used if it's used together with the 4ZA 34,9 mm front derailleur clamp (Part code: FDCNOB4ZA004).

6.6.2. REAR

The original hanger, used for the Orion, was the HAARCERID014. Starting from 2016 this hanger will be replaced by the HAARCERID031.



6.7. DROP OUTS

The carbon drop outs have stainless steel inserts for extra protection.



7. WHEELS AND TIRES

7.1. FORK

The fork is developed for 700C race wheels with a build in width of 100 mm and a quick release system with a maximum diameter of 9 mm.

7.2. FRAME

The frame is developed for 700C race wheels with a build in width of 130 mm and a quick release system with a maximum diameter of 10 mm.

8. WARRANTY INFORMATION

8.1. MAXIMUM RIDER WEIGHT

The maximum advised rider weight is 95 kg.

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