

CERTECO 1 NDR

TECHNICAL INTRODUCTION
REV.01

cento1NDR

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WILIERPEDIA 2019

ROAD COLLECTION

Cento1NDR is the new racing bicycle that joins the Wilier Triestina Endurance range. The geometries of the frame and the particular construction of the rear chainstays guarantee the cyclist a feeling of racing comfort: pure performance without having to give up comfort.

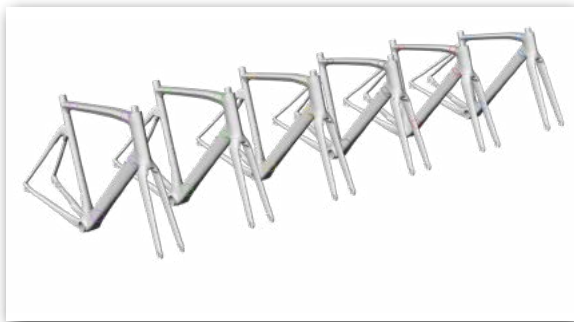
Staying in the saddle for a long time will be much less tiring: the rear triangle was sized and designed for maximum absorption of the stress generated on the vertical plane, usually caused by imperfections in the road surface.

The transfer of pedal power is guaranteed with maximum efficiency thanks to a torsional stiffness comparable to racing frames. As with the Cento10NDR, the Cento1NDR can also be equipped with direct mount type brake callipers or flat mount disc brakes.



AERODYNAMIC

Cento1NDR is an endurance frame derived from our high-end racing bikes. As in the Cento10PRO DISC, Wilier's new creation has been developed according to Naca-Low-Speed rules – aeronautical algorithms that allow us to design the frame tubes with the highest possible aerodynamic efficiency. Alongside the NACA algorithms, Wilier uses another important concept in aerodynamics: the Kamm theory. The K-tail reduces weight and increases stiffness without negatively affecting the aerodynamic efficiency of the tube itself.



BALANCED DESIGN

Balanced design means the ride feels the same on all Cento1NDR frame sizes. The tube sections in the various sizes are different, to make sure that stiffness, comfort and ride quality are the same on each frame size produced.



DUAL BRAKES TECHNOLOGY

As in the Cento10NDR, even Cento1NDR is a road bike whose frame and fork can be fitted with two different types of brakes: disc brakes with thru-axles and 160 mm rotors or traditional direct-mount calliper brakes with quick releases. This solution expands the available configurations of the Cento10NDR, meaning the frame is always ready for an upgraded braking system. The fork and rear triangle have been designed to accommodate a wide range of tires: up to 28 mm with the direct-mount setup or up to 30 mm using disc brakes.



cento *NDR*

COLOR	BLUE / RED
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FINISH	MATT
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COLOR CODE	K1
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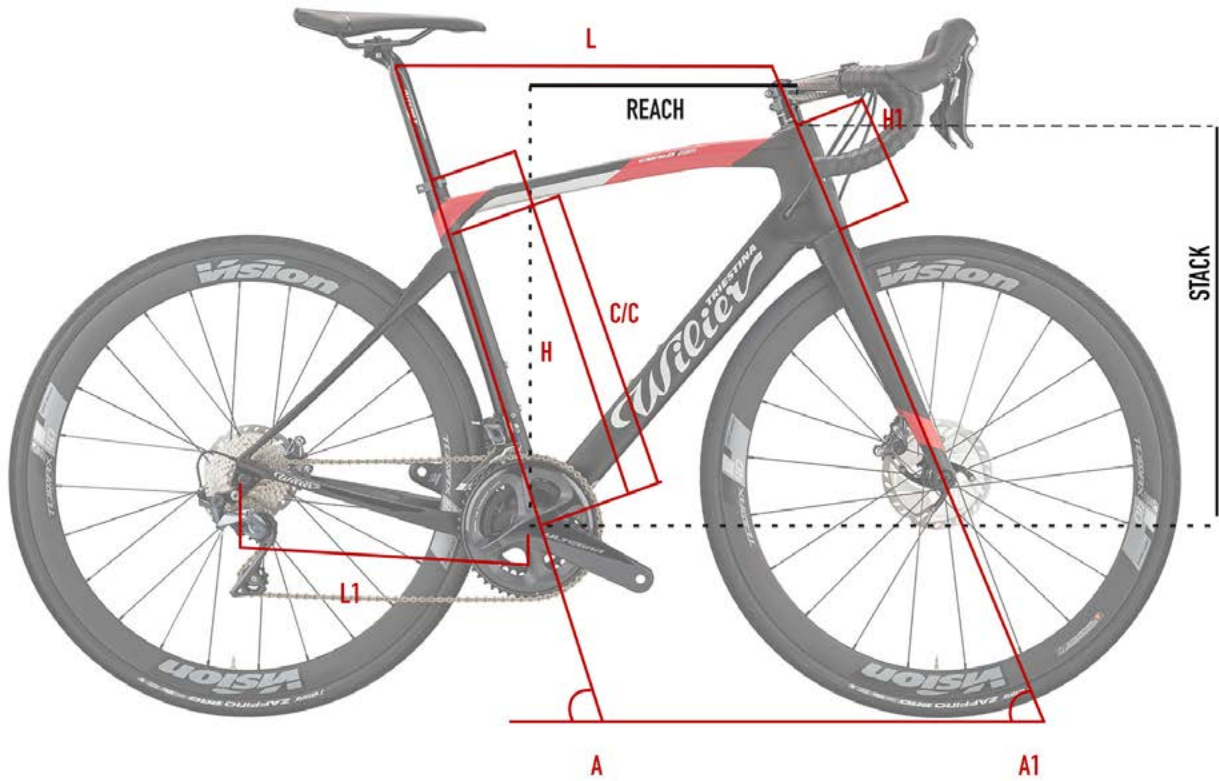
COLOR	BLACK / RED
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FINISH	MATT
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COLOR CODE	K2
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SIZES AND GEOMETRIES



SIZE	H	C/C	L	A	H1	L1	A1	REACH	STACK	WHEELBASE
	(cm)	(cm)	(cm)	(°)	(cm)	(cm)	(°)	(cm)	(cm)	(cm)
XS	46	40,5	51,7	74,5	11,7	40,6	71	369	527	974
S	49	43,5	53,2	74	13,6	40,6	71,5	374	546	982
M	51	45,5	54,7	73,5	15,7	40,8	72	379	566	991
L	53	47,5	55,8	73,5	17,7	40,8	72,5	384	586	998
XL	56	50,5	57,4	73	19,6	41,1	72,5	389	604	1012
XXL	59	53,5	59,2	72,5	21,7	41,1	72,5	395	625	1024



FRAME KEYPOINTS



APPROXIMATE TIGHTENING TORQUES

LIST	Nm	LIST	Nm
STEM ALU/CARBON ROAD AND MTB	5	SHIFT LEVERS' COLLAR ON CARBON HANDLEBAR MTB	4
CRANKSET 386 SHIMANO/CAMPAGNOLO/FSA (central bolt)	40	TIGHTENING BOLTS FOR WATER-FLASK HOLDER	2.5
CRANKSET GEAR BOLTS IN LIGHT ALLOY	10	101 SR SEATPOST WITH DOUBLE REGULATION CLAMP	8
BOTTOM BRACKET (threaded coupling)	30	EXPANDER CAP	4
MOUNTING BOLT REAR DERAILLEUR	8	PEDALS	40
MOUNTING BOLT ANT DERAILLUER ROAD (integrated)	7	FASTENING SADDLE	4
MOUNTING BOLT ANT DERAILLUER ROAD (hose clamp)	3	THRU AXLE	3/4
MOUNTING BOLT ANT DERAILLUER MTB (integrated)	7	FORK EXPANDER	8
MOUNTING BOLT ANT DERAILLUER MTB (hose clamp)	3	MOUNTING BRAKES (caliper,disc)	5
SHIFT LEVERS' COLLAR ON ALU HANDLEBAR	10	INTERCHANGEABLE SCREWS	3
SHIFT LEVERS' COLLAR ON CARBON HANDLEBAR ROAD	8	SCREWS FOR CABLE-GUIDE PLATE	3
SHIFT LEVERS' COLLAR ON ALU HANDLEBAR MTB	5	REPLACEABLE FIXING SCREWS FOR CABLE STOPPERS	5



SPARE PARTS LIST



MECHANICAL VERSION CALIPER BRAKES

	B2B CODE	DESCRIPTION
1	WTP110A-21	BRAKE BOOSTER
2	WTP110N-TQR	CONVERSION KIT FROM DB TO QR
3	WTP110N-TTA	CONVERSION KIT FROM QR TO DB
4	HGACCE53.5	CABLE GUIDE
5	WTP110N-12QR	DROPOUT REAR QR 2PCS
6	WTP110N-12TA	DROPOUT REAR DB 2PCS
7	WTP110N-18QR	DROPOUT FRONT QR 4PCS
8	WTP110N-18TA	DROPOUT FRONT DB 4PCS
9	WTP-CO-C	CLOSED CABLE CAP
10	WTP110A-4	RING
11	WTP-CO-C	CLOSED CABLE CAP
12	WTP-101N-FD	DERAILLEUR
13	WTP-CO-A	OPEN CABLE CAP
	WTP-CO-EL	CLOSED CAP
14	WTP110N-2	OVAL CAP

MECHANICAL VERSION DISC BRAKES

	B2B CODE	DESCRIPTION
1	WTP110A-21	BRAKE BOOSTER
2	WTP110N-TQR	CONVERSION KIT FROM DB TO QR
3	WTP110N-TTA	CONVERSION KIT FROM QR TO DB
4	HGACCE53.5	CABLE GUIDE
5	WTP110N-12QR	DROPOUT REAR QR 2PCS
6	WTP110N-12TA	DROPOUT REAR DB 2PCS
7	WTP110N-18QR	DROPOUT FRONT QR 4PCS
8	WTP110N-18TA	DROPOUT FRONT DB 4PCS
9	WTP-CO-EL	CLOSED CAP
10	WTP110A-4	RING
11	WTP-CO-C	CLOSED CABLE CAP
12	WTP-101N-FD	DERAILLEUR
13	WTP-CO-A	OPEN CABLE CAP
	WTP-CO-A	OPEN CABLE CAP
14	WTP110N-2	OVAL CAP

ELECTRONIC VERSION DISC BRAKES

	B2B CODE	DESCRIPTION
1	WTP110A-21	BRAKE BOOSTER
2	WTP110N-TQR	CONVERSION KIT FROM DB TO QR
3	WTP110N-TTA	CONVERSION KIT FROM QR TO DB
4	HGACCE53.5	CABLE GUIDE
5	WTP110N-12QR	DROPOUT REAR QR 2PCS
6	WTP110N-12TA	DROPOUT REAR DB 2PCS
7	WTP110N-18QR	DROPOUT FRONT QR 4PCS
8	WTP110N-18TA	DROPOUT FRONT DB 4PCS
9	WTP-CO-EL	CLOSED CAP
10	WTP110A-4	RING
11	WTP-CO-EL	CLOSED CAP
12	WTP-101N-FD	DERAILLEUR
13	WTP-CO-GTREL	ELECTRONIC CABLE CAP
	WTP-CO-A	OPEN CABLE CAP
14	WTP110N-2	OVAL CAP

FAQ

How can I clean my Cento1NDR?

We recommend cleaning with water and a soft cloth or sponge. Please note that some cleaning agents can damage the finish on the Cento1NDR. We do not recommend the use of pressurized water or air when cleaning the Cento1NDR frame. Such practices can damage the finish and bearings etc. Always thoroughly dry and lubricate your bicycle before storage.

What kinds of stem and handlebar can be fitted to the Cento1NDR?

The Cento1NDR can be used with any standard stem and handlebar. If the frame is used with Wilier's proprietary Stemma/Barra or Alabarda cables and hoses will be routed inside the handlebar/stem.

What is included in the frame kit for Cento1 NDR?

The Cento1NDR frame kit includes the frame, fork, headset and seatpost.

How easy is it to switch the frame from disc brakes to caliper brakes?

We recommend that this operation is performed by an official Wilier Triestina dealer. Conversion kits are available.

What kind of hubs can be fitted to a Cento1 NDR?

With disc brakes the Cento1NDR uses a 12x100mm front and 12 x 142mm rear hub. With direct mount rim brakes, a 100mm QR front and 135mm QR rear hub must be used. Please note that the thru axles and QR skewers used on the Cento 1 NDR need to be the correct length for safety reasons. We always recommend using the proprietary Wilier thru axles and QR skewers available from authorized Wilier Triestina dealers.

What is the purpose of the metal brace fitted to the top of the seatstays?

The metal brace is a structural component and should not be removed when using either rim or disk brakes. It helps to stiffen the rear end and removing it can result in damage to the stays.

