



CAMPAGNOLO WHEELS (2013 product range)

Wheel	Codes	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
BORA ONE (TB)	WH12-BO..... WH13-BO...X11....	265	90-110	0,40 - 0,55	front
		263,5	110-130	0,55 - 0,73	rear right
		266	70-90	0,17 - 0,40	rear left
BORA ULTRA TWO (TB)	WH9-BOT..... WH12-BOT..... WH13-BOT...X1....	265	90-110	0,40 - 0,55	front
		263,5	110-130	0,55 - 0,73	rear right
		266	70-90	0,17 - 0,40	rear left
BORA ULTRA 80 (TB)	WH12-BOT... WH13-BOT.....	231	90-110	0,40 - 0,55	front
		237,5	110-135	0,55 - 0,75	rear right
		233	65-85	0,16 - 0,38	rear left
Hyperon One (CP) /Hyperon Ultra Two (CP)	WH9-HY...WH10-HY... WH13-HY...	290	70-90	0,15 - 0,40	front
		291	120 - 140	0,65 - 0,84	rear right
		290	50 - 70	0,12 - 0,15	rear left
Hyperon Ultra Two (TB)	WH9-HYTFR WH9-HYTFRX1	290	70-90	0,15 - 0,40	front
		291	110 - 130	0,65 - 0,84	rear right
		290	50 - 70	0,12 - 0,15	rear left
Neutron Ultra	WH7-NEC..... WH13-NEC.....	293	70-90	0,45 - 0,67	front
		292	120 - 140	0,93 - 1,10	rear right
		294,2	50 - 70	0,15 - 0,45	rear left
Shamal Ultra (CP)	WH12-SH..... WH13-SH.....	279,2	110 - 130	1,45 - 1,60	front
		275,2	120 - 150	1,60 - 1,75	rear right
		279,2	75 - 95	1,25 - 1,45	rear left
Shamal Ultra (2WF-TB)	WH12-SH..... WH13-SH.....	279,2	110 - 130	1,45 - 1,60	front
		276,5	125 - 160	1,56 - 1,69	rear right
		279,2	90 - 110	1,25 - 1,45	rear left
CP	Clincher		TB	Tubolar	
WORDS IN RED	updated or new wheel 2013 range		2WF	Two-way fit	



CAMPAGNOLO WHEELS (2013 product range)

Wheel	Codes	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	279,2	110 - 130	1,45 - 1,60	front
		279,2	125-160	1,56 - 1,69	rear right
		276,5	90 - 110	1,25 - 1,45	rear left
Zonda (CP-2WF)	WH13-ZO.....	281,5	90 - 130		front
		278	120-140	0,45 - 0,68	rear right
		279	90 - 110	0,75 - 0,90	rear left
Vento Reaction	WH10-VEC... WH12-VEC.....	273/276	70 - 90/ 90 - 110	1,08 - 1,24/ 1,24 - 1,42	front
		282	80 - 110	1,15 - 1,42	rear right
		268/280	70 - 90	1,08 - 1,24	rear left
Khamstim (CP)/CX	WH11-KH..... WH12-KH.....	281,5	100 - 130	2,20 - 2,45	front
		284	105 - 135	2,25 - 2,47	rear right
		284	70 - 95	1,85 - 2,15	rear left
SCIROCCO H35/CX	WH13-SCCF...	273	110 - 130	0,58 - 0,75	front
		271.5	120-150	0,66 - 0,88	rear right
		274.5	80-100	0,30 - 0,50	rear left
CP	Clincher		TB	Tubolar	
WORDS IN RED	updated or new wheel 2013 range		2WF	Two-way fit	



CAMPAGNOLO WHEELS (2013 product range)

Wheel	Codes	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Bullet H50	WH12-BU..... WH13-BU.....X1	259,5	90 - 110	0,35 - 0,55	front
		261,5	100 - 125	0,45 - 0,68	rear right
		262,5	65 - 85	0,14 - 0,33	rear left
Bullet H80	WH12-BU...80.... WH13-BU...80....X1	231	90 - 110	0,35 - 0,55	front
		237	110 - 135	0,45 - 0,68	rear right
		233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H50	WH12-BUU..... WH13- BUU...X1.....	259,5	90 - 110	0,35 - 0,55	front
		261,5	100 - 125	0,45 - 0,68	rear right
		262,5	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H80	WH12-BUU...80.. WH13-BUU..80...X1..	231	90 - 110	0,35 - 0,55	front
		237	110 - 135	0,45 - 0,68	rear right
		233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H105	WH12-BUU...105.. WH13-BUU..105...X1..	207	90 - 110	0,35 - 0,55	front
		211.5	110-135	0,45 - 0,68	rear right
		208.5	65-85	0,14 - 0,33	rear left
CP	Clincher	TB	Tubolar		
WORDS IN RED	updated or new wheel 2013 range	2WF	Two-way fit		



CAMPAGNOLO wheels (2014 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
BORA ONE (TB)	WH12-BO..... WH13-BO...X11....	Aero $\emptyset 2,2/2/1,5/2$	265	90-110	0,40 - 0,55	front
		Aero $\emptyset 2/1,5/2$	263,5	110-130	0,55 - 0,73	rear right
		Aero $\emptyset 2,2/2/1,5/2$	266	70-90	0,17 - 0,40	rear left
BORA ULTRA TWO (TB)	WH9-BOT..... WH12-BOT..... WH13 BOT....X1....	Aero $\emptyset 2/1,5/2$	265	90-110	0,40 - 0,55	front
		Aero $\emptyset 2/1,5/2$	263,5	110-130	0,55 - 0,73	rear right
		Aero $\emptyset 2/1,5/2$	266	70-90	0,17 - 0,40	rear left
BORA ULTRA 80 (TB)	WH12-BOT...80... WH13-BOT...80..	Aero $\emptyset 2,2/2/1,6/2$	231	90-110	0,40 - 0,55	front
		Aero $\emptyset 2/1,8/2$	237,5	110-135	0,55 - 0,75	rear right
		Aero $\emptyset 2,2/2/1,6/2$	233	65-85	0,16 - 0,38	rear left
Hyperon Ultra Two (CP)	WH9-HY... WH10-HY... WH13-HY...	Aero $\emptyset 2/1,5/2$	290	70 - 90	0,15 - 0,40	front/rear right
		Aero $\emptyset 2/1,5/2$	290	120 - 140	0,61 - 0,73	rear left
		$\emptyset 2$	291	50 - 70	0,12 - 0,15	rear left
Hyperon Ultra Two (TB)	WH9-HYTFR WH9-HYTFRX1	Aero $\emptyset 2/1,5/2$	294,5	70-90	0,15 - 0,40	front
		Aero $\emptyset 2/1,5/2$	295	110 - 130	0,65 - 0,84	rear right
		Aero $\emptyset 2/1,5/2$	294,5	50 - 70	0,12 - 0,15	rear left
Neutron Ultra	WH7-NEC..... WH13-NEC.....	Aero $\emptyset 2/1,5/2$	293	70-90	0,45 - 0,67	front
		Aero $\emptyset 2/1,8/2$	292	120 - 140	0,93 - 1,10	rear right
		Aero $\emptyset 2/1,5/2$	294,2	50 - 70	0,15 - 0,45	rear left
Shamal Ultra (CP)	WH12-SH..... WH13-SH.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	275,2	120 - 150	1,60 - 1,75	rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	75 - 95	1,25 - 1,45	rear left
Shamal Ultra (2WF-TB)	WH12-SH..... WH13-SH.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	276,5	125 - 160	1,56 - 1,69	rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	90 - 110	1,25 - 1,45	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2014 range			2WF	Two-way fit	



CAMPAGNOLO wheels (2014 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	279,2	125-160	1,56 - 1,69	rear right
		Aero $\emptyset 3,5/2,6/3,5$	276,5	90 - 110	1,25 - 1,45	rear left
Zonda (CP-2WF)	WH13-ZO.....	Aero $\emptyset 2,2/2/1,6/2$	281,5	90 - 130	0,45 - 0,77	front
		Aero $\emptyset 2/1,8/2$	278	120-140	0,67 - 0,80	rear right
		Aero $\emptyset 2,2/2/1,6/2$	279	90 - 110	0,45 - 0,60	rear left
Vento Asymmetric/CX (CP)	WH14-VEC.....	Aero $\emptyset 2/1,6/2$	280,5	100 - 130	0,50 - 0,73	front
		Aero $\emptyset 2/1,6/2$	279	130 - 160	0,73 - 0,92	rear right
		Aero $\emptyset 2/1,6/2$	278	65 - 95	0,15 - 0,47	rear left
Vento Asymmetric G3 (CP)	WH14-VEC.....G3	-	-	-	-	front
		Aero $\emptyset 2/1,6/2$	280,5	105 - 135	0,55 - 0,77	rear right
		Aero $\emptyset 2/1,6/2$	279,5	85 - 110	0,37 - 0,58	rear left
SCIROCCO H35/CX	WH13-SCCF...	Aero $\emptyset 2,2/2/1,6/2$	273	110 - 130	0,58 - 0,75	front
		Aero $\emptyset 2,2/2/1,6/2$	271,5	120-150	0,66 - 0,88	rear right
		Aero $\emptyset 2,2/2/1,6/2$	274,5	80-100	0,30 - 0,50	rear left
BORA ONE 35 (TB)	WH14-BO..35...	Aero $\emptyset 2,2/2/1,5/2$	275	90 - 110	0,40 - 0,55	front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 95	0,17 - 0,44	rear left
BORA ULTRA 35 (TB)	WH14-BOT..35..	Aero $\emptyset 2,2/2/1,5/2$	275	90 - 110	0,40 - 0,55	front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 95	0,17 - 0,44	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2014 range			2WF	Two-way fit	



CAMPAGNOLO wheels (2014 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Khamstim Asymmetric (CP)	WH14-KH.....	∅2	281,5	100 - 130	2,20 - 2,42	front
		∅2 curve	284	130 - 160	2,42 - 2,60	rear right
		∅2	277,5	65 - 95	1,75 - 2,15	rear left
Khamstim Asymmetric G3 (CP)	WH14-KH.....G3		-	-	-	front
		∅2 curve	284	105 - 135	2,25 - 2,45	rear right
		∅2	278,5	85 - 110	2,05 - 2,29	rear left
Bullet H50	WH12-BU..... WH13-BU.....X1	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Bullet H80	WH12-BU...80.... WH13-BU...80....X1	Aero ∅2,2/2/1,6/2	231	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	237	110 - 135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H50	WH12-BUU..... WH13- BUU...X1.....	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H80	WH12-BUU...80.. WH13-BUU..80...X1..	Aero ∅2,2/2/1,6/2	231	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	237	110 - 135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H105	WH12-BUU...105.. WH13-BUU..105...X1..	Aero ∅2,2/2/1,6/2	207	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	211,5	110-135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	208,5	65-85	0,14 - 0,33	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2014 range			2WF	Two-way fit	



CAMPAGNOLO wheels (2015 - 2016 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
BORA ONE (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
BORA ULTRA (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
BORA ULTRA 80 (TB)	WH12-BOT...80... WH13-BOT...80..	Aero $\emptyset 2,2/2/1,6/2$	231	90-110	0,40 - 0,55	front
		Aero $\emptyset 2/1,8/2$	237,5	110-135	0,55 - 0,75	rear right
		Aero $\emptyset 2,2/2/1,6/2$	233	65-85	0,16 - 0,38	rear left
Hyperon Ultra Two (CP)	WH9-HY... WH10-HY... WH13-HY...	Aero $\emptyset 2/1,5/2$	290	70 - 90	0,15 - 0,40	front/rear right
		Aero $\emptyset 2/1,5/2$	290	120 - 140	0,61 - 0,73	rear left
		$\emptyset 2$	291	50 - 70	0,12 - 0,15	rear left
Hyperon Ultra Two (TB)	WH9-HYTFR WH9-HYTFRX1	Aero $\emptyset 2/1,5/2$	294,5	70-90	0,15 - 0,40	front
		Aero $\emptyset 2/1,5/2$	295	110 - 130	0,65 - 0,84	rear right
		Aero $\emptyset 2/1,5/2$	294,5	50 - 70	0,12 - 0,15	rear left
Neutron Ultra	WH7-NEC..... WH13-NEC.....	Aero $\emptyset 2/1,5/2$	293	70-90	0,45 - 0,67	front
		Aero $\emptyset 2/1,8/2$	292	120 - 140	0,93 - 1,10	rear right
		Aero $\emptyset 2/1,5/2$	294,2	50 - 70	0,15 - 0,45	rear left
Shamal Ultra/Mille (CP)	WH12-SH..... WH13-SH..... WH15-SHC.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	275,2	120 - 150	1,60 - 1,75	rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	75 - 95	1,25 - 1,45	rear left
Shamal Ultra (2WF-TB)	WH12-SH..... WH13-SH.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	276,5	125 - 160	1,56 - 1,69	rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	90 - 110	1,25 - 1,45	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2015 Vs 2014 (no modifications introduced in 2016 range)			2WF	Two-way fit	



CAMPAGNOLO wheels (2015 - 2016 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	Aero Ø3,5/2,6/3,5	279,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	279,2	125-160	1,56 - 1,69	rear right
		Aero Ø3,5/2,6/3,5	276,5	90 - 110	1,25 - 1,45	rear left
Zonda (CP-2WF)	WH13-ZO.....	Aero Ø2,2/2/1,6/2	281,5	90 - 130	0,45 - 0,77	front
		Aero Ø2/1,8/2	278	120-140	0,67 - 0,80	rear right
		Aero Ø2,2/2/1,6/2	279	90 - 110	0,45 - 0,60	rear left
Vento Asymmetric/CX (CP)	WH14-VEC.....	Aero Ø2/1,6/2	280,5	100 - 130	0,50 - 0,73	front/rear right
		Aero Ø2/1,6/2	279	130 - 160	0,73 - 0,92	rear left
		Aero Ø2/1,6/2	278	65 - 95	0,15 - 0,47	rear left
Vento Asymmetric G3 (CP)	WH14-VEC.....G3	-	-	-	-	front
		Aero Ø2/1,6/2	280,5	105 - 135	0,55 - 0,77	rear right
		Aero Ø2/1,6/2	279,5	85 - 110	0,37 - 0,58	rear left
SCIROCCO H35/CX	WH13-SCCF...	Aero Ø2,2/2/1,6/2	273	110 - 130	0,58 - 0,75	front
		Aero Ø2,2/2/1,6/2	271.5	120-150	0,66 - 0,88	rear right
		Aero Ø2,2/2/1,6/2	274.5	80-100	0,30 - 0,50	rear left
BORA ONE 35 (TB/CP)	WH15-BOT..135... WH15-BOC.....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
BORA ULTRA 35 (TB/CP)	WH15-BOT..135... WH15-BOC.....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2015 Vs 2014 (no modifications introduced in 2016 range)			2WF	Two-way fit	



CAMPAGNOLO wheels (2015 - 2016 range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Khamsim Asymmetric (CP)	WH14-KH.....	∅2	281,5	100 - 130	2,20 - 2,42	front
		∅2 curve	284	130 - 160	2,42 - 2,60	rear right
		∅2	277,5	65 - 95	1,75 - 2,15	rear left
Khamsim Asymmetric G3 (CP)	WH14-KH.....G3	-	-	-	-	front
		∅2 curve	284	105 - 135	2,25 - 2,45	rear right
		∅2	278,5	85 - 110	2,05 - 2,29	rear left
Bullet H50	WH12-BU..... WH13-BU.....X1	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front/rear right
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear left
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Bullet H80	WH12-BU...80.... WH13-BU...80....X1	Aero ∅2,2/2/1,6/2	231	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	237	110 - 135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H50	WH12-BUU..... WH13- BUU...X1.....	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H80	WH12-BUU...80.. WH13-BUU...80...X1..	Aero ∅2,2/2/1,6/2	231	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	237	110 - 135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	233	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H105	WH12-BUU...105.. WH13-BUU..105...X1..	Aero ∅2,2/2/1,6/2	207	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,8/2	211,5	110-135	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,6/2	208,5	65-85	0,14 - 0,33	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2015 Vs 2014 (no modifications introduced in 2016 range)			2WF	Two-way fit	

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym/Zonda	squared/3,2	market tool
Scirocco H35/Vento Asym	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus/Shamal Ultra	hexagonal /6	UT-WH070

NIPPLES

Wheel	kind of section /mm	tool
Bora/Bullet/Bullet Ult.	squared/3,9	UT-WH090
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool



CAMPAGNOLO wheels (2017 product range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
BORA ONE (TB/CP)	WH15-BOT..... WH15-BOC...	Aero Ø2,2/2/1,5/2	262,5	90-115	0,40 - 0,61	front
		Aero Ø2/1,5/2	261,5	100-125	0,51 - 0,69	rear right
		Aero Ø2,2/2/1,5/2	262,5	70-90	0,17 - 0,40	rear left
BORA ULTRA (TB/CP)	WH15-BOT..... WH15-BOC...	Aero Ø2,2/2/1,5/2	262,5	90-115	0,40 - 0,61	front
		Aero Ø2/1,5/2	261,5	100-125	0,51 - 0,69	rear right
		Aero Ø2,2/2/1,5/2	262,5	70-90	0,17 - 0,40	rear left
BORA ULTRA 80 (TB)	WH12-BOT...80... WH13-BOT...80..	Aero Ø2,2/2/1,6/2	231	90-110	0,40 - 0,55	front
		Aero Ø2/1,8/2	237,5	110-135	0,55 - 0,75	rear right
		Aero Ø2,2/2/1,6/2	233	65-85	0,16 - 0,38	rear left
Hyperon Ultra Two (TB)	WH9-HYTFR WH9-HYTFRX1	Aero Ø2/1,5/2	294,5	70-90	0,15 - 0,40	front
		Aero Ø2/1,5/2	295	110 - 130	0,65 - 0,84	rear right
		Aero Ø2/1,5/2	294,5	50 - 70	0,12 - 0,15	rear left
Neutron Ultra	WH7-NEC..... WH13-NEC.....	Aero Ø2/1,5/2	293	70-90	0,45 - 0,67	front
		Aero Ø2/1,8/2	292	120 - 140	0,93 - 1,10	rear right
		Aero Ø2/1,5/2	294,2	50 - 70	0,15 - 0,45	rear left
Shamal Ultra C17 /Mille (CP) C17	WH17-SH.../WH17-SHC....	Aero Ø3,5/2,6/3,5	280,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	278,5	120 - 150	1,60 - 1,75	rear right
		Aero Ø3,5/2,6/3,5	277,5	75 - 95	1,05 - 1,35	rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero Ø3,5/2,6/3,5	279,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	276,5	120 - 150	1,60 - 1,75	rear right
		Aero Ø3,5/2,6/3,5	279,2	75 - 95	1,05 - 1,35	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2017 Vs 2015 (no modifications introduced in 2016 range)			2WF	Two-way fit	



CAMPAGNOLO wheels (2017 product range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	279,2	125-160	1,56 - 1,69	rear right
		Aero $\emptyset 3,5/2,6/3,5$	276,5	90 - 110	1,25 - 1,45	rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero $\emptyset 2,2/2/1,6/2$	284	110 - 130	0,6 - 0,77	front
		Aero $\emptyset 2/1,6/2$	280,5	125-145	0,71 - 0,84	rear right
		Aero $\emptyset 2,2/2/1,6/2$	281,5	80 - 100	0,35 - 0,53	rear left
Vento Asymmetric/CX (CP)	WH14-VEC.....	Aero $\emptyset 2/1,6/2$	280,5	100 - 130	0,50 - 0,73	front
		Aero $\emptyset 2/1,6/2$	279	130 - 160	0,73 - 0,92	rear right
		Aero $\emptyset 2/1,6/2$	278	65 - 95	0,15 - 0,47	rear left
Vento Asymmetric G3 (CP)	WH14-VEC.....G3	-	-	-	-	front
		Aero $\emptyset 2/1,6/2$	280,5	105 - 135	0,55 - 0,77	rear right
		Aero $\emptyset 2/1,6/2$	279,5	85 - 110	0,37 - 0,58	rear left
SCIROCCO H35/CX	WH13-SCCF...	Aero $\emptyset 2,2/2/1,6/2$	273	110 - 130	0,58 - 0,75	front
		Aero $\emptyset 2,2/2/1,6/2$	271,5	120-150	0,66 - 0,88	rear right
		Aero $\emptyset 2,2/2/1,6/2$	274,5	80-100	0,30 - 0,50	rear left
BORA ONE 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero $\emptyset 2,2/2/1,5/2$	276,5	90 - 115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 90	0,17 - 0,40	rear left
BORA ULTRA 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero $\emptyset 2,2/2/1,5/2$	276,5	90 - 115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 90	0,17 - 0,40	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2017 Vs 2015 (no modifications introduced in 2016 range)			2WF	Two-way fit	



CAMPAGNOLO wheels (2017 product range)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Khamstim Asymmetric (CP)	WH14-KH.....	∅2	281,5	100 - 130	2,20 - 2,42	front
		∅2 curve	284	130 - 160	2,42 - 2,60	rear right
		∅2	277,5	65 - 95	1,75 - 2,15	rear left
Khamstim Asymmetric G3 (CP)	WH14-KH.....G3		-	-	-	front
		∅2 curve	284	105 - 135	2,25 - 2,45	rear right
		∅2	278,5	85 - 110	2,05 - 2,29	rear left
Bullet H50	WH12-BU..... WH13-BU.....X1	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Bullet Ultra H50	WH12-BUU..... WH13-BUU...X1.....	Aero ∅2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero ∅2/1,5/2	261,5	100 - 125	0,45 - 0,68	rear right
		Aero ∅2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	rear left
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero ∅2/1,6/2	281,5	120-140	1,63 - 1,78	Front right
		Aero ∅2/1,6/2	275	90-110	1,37 - 1,57	Front left
		Aero ∅2/1,6/2	275	80-110	1,26 - 1,57	rear right
		Aero ∅2/1,8/2	272	95-125	1,85 - 2,15	rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2017 Vs 2015 (no modifications introduced in 2016 range)			2WF	Two-way fit	

NIPPLES

Wheel	kind of section /mm	tool
Khamstim Asym	squared/3,2	market tool
Scirocco H35/Vento Asym	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17	hexagonal /6 self lock	UT-WH070 or R7130059 (pro tool)

NIPPLES

Wheel	kind of section /mm	tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora 35/50/Zonda DB	squared/3,9/self lock	UT-WH090



CAMPAGNOLO wheels (2018 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
BORA ONE 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	Front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	Rear left
BORA ULTRA 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	Front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	Rear left
BORA ULTRA 80 (TB)	WH12-BOT...80... WH13-BOT...80..	Aero $\emptyset 2,2/2/1,6/2$	231	90-110	0,40 - 0,55	Front
		Aero $\emptyset 2/1,8/2$	237,5	110-135	0,55 - 0,75	Rear right
		Aero $\emptyset 2,2/2/1,6/2$	233	65-85	0,16 - 0,38	Rear left
KhamSIM Asymmetric G3 (CP)	WH14-KH.....G3	$\emptyset 2$	281,5	100 - 130	2,20 - 2,42	Front
		$\emptyset 2$ curve	284	105 - 135	2,25 - 2,45	Rear right
		$\emptyset 2$	278,5	85 - 110	2,05 - 2,29	Rear left
Neutron Ultra	WH7-NEC..... WH13-NEC.....	Aero $\emptyset 2/1,5/2$	293	70-90	0,45 - 0,67	Front
		Aero $\emptyset 2/1,8/2$	292	120 - 140	0,93 - 1,10	Rear right
		Aero $\emptyset 2/1,5/2$	294,2	50 - 70	0,15 - 0,45	Rear left
Shamal Ultra C17 /Mille (CP) C17	WH17-SH.../WH17-SHC....	Aero $\emptyset 3,5/2,6/3,5$	280,2	110 - 130	1,45 - 1,60	Front
		Aero $\emptyset 3,5/2,6/3,5$	278,5	120 - 150	1,60 - 1,75	Rear right
		Aero $\emptyset 3,5/2,6/3,5$	277,5	75 - 95	1,05 - 1,35	Rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	Front
		Aero $\emptyset 3,5/2,6/3,5$	276,5	120 - 150	1,60 - 1,75	Rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	75 - 95	1,05 - 1,35	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2018 Vs 2017			2WF	Two-way fit	



CAMPAGNOLO wheels (2018 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	Front
		Aero $\emptyset 3,5/2,6/3,5$	279,2	125-160	1,56 - 1,69	Rear right
		Aero $\emptyset 3,5/2,6/3,5$	276,5	90 - 110	1,25 - 1,45	Rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero $\emptyset 2,2/2/1,6/2$	284	110 - 130	0,6 - 0,77	Front
		Aero $\emptyset 2/1,6/2$	280,5	125-145	0,71 - 0,84	Rear right
		Aero $\emptyset 2,2/2/1,6/2$	281,5	80 - 100	0,35 - 0,53	Rear left
Bullet H50	WH12-BU..... WH13-BU.....X1	Aero $\emptyset 2,2/2/1,5/2$	259,5	90 - 110	0,35 - 0,55	Front
		Aero $\emptyset 2/1,5/2$	261,5	100 - 125	0,45 - 0,68	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	65 - 85	0,14 - 0,33	Rear left
Bullet Ultra H50	WH12-BUU..... WH13- BUU...X1.....	Aero $\emptyset 2,2/2/1,5/2$	259,5	90 - 110	0,35 - 0,55	Front
		Aero $\emptyset 2/1,5/2$	261,5	100 - 125	0,45 - 0,68	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	65 - 85	0,14 - 0,33	Rear left
SCIROCCO H35 C17	WH18-SCCFR...	Aero $\emptyset 2,2/2/1,6/2$	273	110 - 130	0,58 - 0,75	Front
		Aero $\emptyset 2,2/2/1,6/2$	271.5	120-150	0,66 - 0,88	Rear right
		Aero $\emptyset 2,2/2/1,6/2$	274.5	80-100	0,30 - 0,50	Rear left
BORA ONE 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero $\emptyset 2,2/2/1,5/2$	276,5	90 - 115	0,40 - 0,61	Front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 90	0,17 - 0,40	Rear left
BORA ULTRA 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero $\emptyset 2,2/2/1,5/2$	276,5	90 - 115	0,40 - 0,61	Front
		Aero $\emptyset 2/1,5/2$	275	100 - 125	0,48 - 0,70	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	276,5	70 - 90	0,17 - 0,40	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2018 Vs 2017			2WF	Two-way fit	



CAMPAGNOLO wheels (2018 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio (mm)	Position
Calima (CP)	WH18-CAC....	Ø2 curve	277	100 - 130	2,20 - 2,42	Front
		Ø2 curve	285,5	110 - 140	2,42 - 2,60	Rear right
		Ø2 curve	275,5	80 - 110	1,75 - 2,15	Rear left
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero Ø2/1,6/2	281,5	120-140	1,63 - 1,78	Front right
		Aero Ø2/1,6/2	275	90-110	1,37 - 1,57	Front left
		Aero Ø2/1,6/2	275	80-110	1,26 - 1,57	Rear right
		Aero Ø2/1,8/2	272	95-125	1,85 - 2,15	Rear left
Bora One DB 35 (CP/T)	WH18-BOTD35	Aero Ø2/1,6/2	278	95 - 125	0,51-0,74	Front right
		Aero Ø2/1,6/2	293	95 - 120	0,51-0,70	Front left
		Aero Ø2/1,6/2	293	100 - 120	0,54-0,70	Rear right
		Aero Ø2/1,6/2	268	90 - 120	0,46-0,70	Rear left
Bora One DB 50 (T)	WH18-BOTD	Aero Ø2/1,6/2	262,5	100 - 130	0,54-0,77	Front right
		Aero Ø2/1,6/2	278	100 - 125	0,54-0,74	Front left
		Aero Ø2/1,6/2	278	105 - 125	0,59-0,74	Rear right
		Aero Ø2/1,6/2	253,5	90 - 125	0,46-0,74	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2018 Vs 2017			2WF	Two-way fit	

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/Vento Asym	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17	hexagonal /6 self lock	UT-WH070 or R7130059 (pro tool)
Calima	hexagonal/3,2	market tool

NIPPLES

Wheel	kind of section /mm	tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB	squared/3,9/selflock	UT-WH090
Zonda DB	squared/3,9/selflock	UT-WH090



CAMPAGNOLO wheels (2019 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio	Position
BORA ONE 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	Rear left
BORA ULTRA 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	Rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	Rear left
BORA ULTRA 80 (TB)	WH12-BOT...80... WH13-BOT...80..	Aero $\emptyset 2,2/2/1,6/2$	231	90-110	0,40 - 0,55	front
		Aero $\emptyset 2/1,8/2$	237,5	110-135	0,55 - 0,75	Rear right
		Aero $\emptyset 2,2/2/1,6/2$	233	65-85	0,16 - 0,38	Rear left
KhamSIM Asymmetric G3 (CP)	WH14-KH.....G3	$\emptyset 2$	281,5	100 - 130	2,20 - 2,42	front
		$\emptyset 2$ curve	284	105 - 135	2,25 - 2,45	Rear right
		$\emptyset 2$	278,5	85 - 110	2,05 - 2,29	Rear left
Calima (CP)	WH18-CAC....	$\emptyset 2$ curve	277	100 - 130	2,20 - 2,42	front
		$\emptyset 2$ curve	285,5	110 - 140	2,42 - 2,60	Rear right
		$\emptyset 2$ curve	275,5	80 - 110	1,75 - 2,15	Rear left
Shamal Ultra C17 /Mille (CP) C17	WH17-SH.../WH17-SHC....	Aero $\emptyset 3,5/2,6/3,5$	280,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	278,5	120 - 150	1,60 - 1,75	Rear right
		Aero $\emptyset 3,5/2,6/3,5$	277,5	75 - 95	1,05 - 1,35	Rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	276,5	120 - 150	1,60 - 1,75	Rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	75 - 95	1,05 - 1,35	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2019 Vs 2018			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO wheels (2019 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio	Position
WTO 77	WH19-BOWTOF77	2.2/2/1.6/2 elliptical	235	90 - 115	0,75 - 0,96	front
						Rear right
						Rear left
WTO 60	WH19-BOWTO..60..	2.2/2/1.6/2 elliptical	252,5	90 - 115	0,75 - 0,96	front
		2/1.6/2 elliptical	250,5	100 - 125	0,85 - 1,04	Rear right
		2.2/2/1.6/2 elliptical	252,5	65 - 90	0,46 - 0,75	Rear left
WTO 45	WH19-BOWTO..45..	2.2/2/1.6/2 elliptical	267	90 - 115	0,75 - 0,96	front
		2/1.6/2 elliptical	265	100 - 125	0,85 - 1,04	Rear right
		2.2/2/1.6/2 elliptical	267	65 - 90	0,46 - 0,75	Rear left
						front
						Rear right
						Rear left
						front
						Rear right
						Rear left
						front
						Rear right
						Rear left
CP	Clincher			TB	Tubolar	
WORDS IN RED	updated or new wheel 2019 Vs 2018			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO wheels (2019 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio	Position
Eurus (CP-2WF)	WH12-EU.... WH13-EU.....	Aero Ø3,5/2,6/3,5	279,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	279,2	125-160	1,56 - 1,69	Rear right
		Aero Ø3,5/2,6/3,5	276,5	90 - 110	1,25 - 1,45	Rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero Ø2,2/2/1,6/2	284	110 - 130	0,6 - 0,77	front
		Aero Ø2/1,6/2	280,5	125-145	0,71 - 0,84	Rear right
		Aero Ø2,2/2/1,6/2	281,5	80 - 100	0,35 - 0,53	Rear left
Bullet H50	WH12-BU..... WH13-BU.....X1	Aero Ø2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero Ø2/1,5/2	261,5	100 - 125	0,45 - 0,68	Rear right
		Aero Ø2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	Rear left
Bullet Ultra H50	WH12-BUU..... WH13- BUU...X1.....	Aero Ø2,2/2/1,5/2	259,5	90 - 110	0,35 - 0,55	front
		Aero Ø2/1,5/2	261,5	100 - 125	0,45 - 0,68	Rear right
		Aero Ø2,2/2/1,5/2	262,5	65 - 85	0,14 - 0,33	Rear left
SCIROCCO H35 C17	WH18-SCCFR...	Aero Ø2,2/2/1,6/2	273	110 - 130	0,58 - 0,75	front
		Aero Ø2,2/2/1,6/2	271,5	120-150	0,66 - 0,88	Rear right
		Aero Ø2,2/2/1,6/2	274,5	80-100	0,30 - 0,50	Rear left
BORA ONE 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	Rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	Rear left
BORA ULTRA 35 (TB/CP)	WH15-BOT..135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	Rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2019 Vs 2018			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO Disc Brake wheels (2019 PRODUCT RANGE)

Wheel	Codes	Spoke section	Spoke Length (mm)	Spoke tension (Kg)	DT Swiss Measures Tensio	Position
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero Ø2/1,6/2	281,5	120-140	1,63 - 1,78	Front right
		Aero Ø2/1,6/2	275	90-110	1,37 - 1,57	Front left
		Aero Ø2/1,6/2	275	80-110	1,26 - 1,57	Rear right
		Aero Ø2/1,8/2	272	95-125	1,85 - 2,15	Rear left
Bora One DB 35 (CP/T)	WH18-BOTD35	Aero Ø2/1,6/2	278	95 - 125	0,51-0,74	Front right
		Aero Ø2/1,6/2	293	95 - 120	0,51-0,70	Front left
		Aero Ø2/1,6/2	293	100 - 120	0,54-0,70	Rear right
		Aero Ø2/1,6/2	268	90 - 120	0,46-0,70	Rear left
Bora One DB 50 (T)	WH18-BOTD	Aero Ø2/1,6/2	262,5	100 - 130	0,54-0,77	Front right
		Aero Ø2/1,6/2	278	100 - 125	0,54-0,74	Front left
		Aero Ø2/1,6/2	278	105 - 125	0,59-0,74	Rear right
		Aero Ø2/1,6/2	253,5	90 - 125	0,46-0,74	Rear left
Scirocco DB (CP)	WH19-SCCD....	2/1,6/2 tondo	276	110 - 135	0,59 - 0,77	Front right
		2/1,6/2 tondo	268,5	110 - 135	0,59 - 0,77	Front left
		2/1,6/2 tondo	268,5	120 - 145	0,67 - 0,82	Rear right
		2/1,6/2 tondo	267	110 - 135	0,59 - 0,77	Rear left
Shama Ultra DB	WH19-SH2D....	Alluminio aero	275	100 - 130	1,92 - 2,14	Front right
		Alluminio aero	285,5	110 - 135	2,00 - 2,17	Front left
		Alluminio aero	283	105 - 135	1,96 - 2,17	Rear right
		Alluminio aero	268,7	110 - 135	2,00 - 2,17	Rear left
CP	Clincher			TB	Tubular	
WORDS IN RED	updated or new wheel 2019 Vs 2018			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/DB/Vento Asy	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17/DB	hexagonal /6 self lock	UT-WH070 or UT-WH270 (pro tool)
Calima	hexagonal/3,2	market tool

NIPPLES

Wheel	kind of section /mm	tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB	squared/3,9/selflock	UT-WH090
Bora WTO	squared/3,9/selflock	UT-WH090
Zonda DB	squared/3,9/selflock	UT-WH090



CAMPAGNOLO ROAD (2020 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
Bora ONE 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\varnothing 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\varnothing 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\varnothing 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
Bora ULTRA 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\varnothing 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\varnothing 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\varnothing 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
Calima (CP)	WH18-CAC....	$\varnothing 2$ curve	277	100 - 130	2,20 - 2,42	front
		$\varnothing 2$ curve	285,5	110 - 140	2,42 - 2,60	rear right
		$\varnothing 2$ curve	275,5	80 - 110	1,75 - 2,15	rear left
Shamal Ultra C17 (CP)	WH17-SH.../WH17-SHC....	Aero $\varnothing 3,5/2,6/3,5$	280,2	110 - 130	1,45 - 1,60	front
		Aero $\varnothing 3,5/2,6/3,5$	278,5	120 - 150	1,60 - 1,75	rear right
		Aero $\varnothing 3,5/2,6/3,5$	277,5	75 - 95	1,05 - 1,35	rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero $\varnothing 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\varnothing 3,5/2,6/3,5$	276,5	120 - 150	1,60 - 1,75	rear right
		Aero $\varnothing 3,5/2,6/3,5$	279,2	75 - 95	1,05 - 1,35	rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero $\varnothing 2,2/2/1,6/2$	284	110 - 130	0,6 - 0,77	front
		Aero $\varnothing 2/1,6/2$	280,5	125-145	0,71 - 0,84	rear right
		Aero $\varnothing 2,2/2/1,6/2$	281,5	80 - 100	0,35 - 0,53	rear left
SCIROCCO H35 C17	WH18-SCCFR...	Aero $\varnothing 2,2/2/1,6/2$	273	110 - 130	0,58 - 0,75	front
		Aero $\varnothing 2,2/2/1,6/2$	271,5	120-150	0,66 - 0,88	rear right
		Aero $\varnothing 2,2/2/1,6/2$	274,5	80-100	0,30 - 0,50	rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2020			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO ROAD (2020 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
Bora ONE 35 (TB/CP)	WH15-BOT...135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
Bora ULTRA 35 (TB/CP)	WH15-BOT...135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
Bora WTO 77 (2WF)	WH19-BOWTOF77	2.2/2/1.6/2 ellittico	235	90 - 115	0,75 - 0,96	front
						rear right
						rear left
Bora WTO 60 (2WF)	WH19-BOWTO..60..	2.2/2/1.6/2 ellittico	252,5	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	250,5	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	252,5	65 - 90	0,46 - 0,75	rear left
Bora WTO 45 (2WF)	WH19-BOWTO..45..	2.2/2/1.6/2 ellittico	267	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	267	65 - 90	0,46 - 0,75	rear left
Bora WTO 33 (2WF)	WH20-BOWTO..33..	2.2/2/1.6/2 ellittico	279	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	278	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	279	65 - 90	0,46 - 0,75	rear left
						front
						rear right
						rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2020			2WF	Two-way fit	

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO ROAD DISC BRAKE (2020 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke lenght (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero Ø2/1,6/2	281,5	120-140	1,63 - 1,78	front right
		Aero Ø2/1,6/2	275	90-110	1,37 - 1,57	front left
		Aero Ø2/1,6/2	275	80-110	1,26 - 1,57	rear right
		Aero Ø2/1,8/2	272	95-125	1,85 - 2,15	rear left
Bora One DB 35 (CP/T)	WH18-BOTD35	Aero Ø2/1,6/2	278	95 - 125	0,51-0,74	front right
		Aero Ø2/1,6/2	293	95 - 120	0,51-0,70	front left
		Aero Ø2/1,6/2	293	100 - 120	0,54-0,70	rear right
		Aero Ø2/1,6/2	268	90 - 120	0,46-0,70	rear left
Bora One DB 50 (T)	WH18-BOTD	Aero Ø2/1,6/2	262,5	100 - 130	0,54-0,77	front right
		Aero Ø2/1,6/2	278	100 - 125	0,54-0,74	front left
		Aero Ø2/1,6/2	278	105 - 125	0,59-0,74	rear right
		Aero Ø2/1,6/2	253,5	90 - 125	0,46-0,74	rear left
Scirocco DB (CP)	WH19-SCCD....	2/1,6/2 tondo	276	110 - 135	0,59 - 0,77	front right
		2/1,6/2 tondo	268,5	110 - 135	0,59 - 0,77	front left
		2/1,6/2 tondo	268,5	120 - 145	0,67 - 0,82	rear right
		2/1,6/2 tondo	267	110 - 135	0,59 - 0,77	rear left
Shama Ultra DB (2WF)	WH19-SH2D....	Alluminio aero	275	100 - 130	1,92 - 2,14	front right
		Alluminio aero	285,5	110 - 135	2,00 - 2,17	front left
		Alluminio aero	283	105 - 135	1,96 - 2,17	rear right
		Alluminio aero	268,7	110 - 135	2,00 - 2,17	rear left
TB		Tubular		CP		clincher
RED WORDS		new or updated wheel on 2020		2WF		Two-way fit

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo



CAMPAGNOLO ROAD DISC BRAKE (2020 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
Bora WTO 33 DB (2WF)	WH20-BOWTOD..33..	2/1,6/2 ellittico	277,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	292,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	292,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	274	85 - 110	0,71 - 0,93	rear left

Bora WTO 45 DB (2WF)	WH20-BOWTOD..45..	2/1,6/2 ellittico	265	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	280,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	280,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	261,5	85 - 115	0,71 - 0,96	rear left

Bora WTO 60 DB (2WF)	WH20-BOWTOD..60..	2/1,6/2 ellittico	250,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	265	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	247	85 - 115	0,71 - 0,96	rear left

						front right
						front left
						rear right
						rear left

TB	Tubular	CP	clincher
RED WORDS	new or updated wheel on 2020	2WF	Two-way fit

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/DB/Vento Asy	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17/DB	hexagonal /6 self lock	UT-WH070 or UT-WH270 (pro tool)
Calima	hexagonal/3,2	market tool

NIPPLES

Wheel	kind of section /mm	tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB	squared/3,9/selflock	UT-WH090
Bora WTO	squared/3,9/selflock	UT-WH090
Zonda DB	squared/3,9/selflock	UT-WH090

Nota: "Misure Tensio (mm)" si intendono con tensiometro DT Swiss calibrato come da nuovo

CAMPAGNOLO ROAD (2021 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
BORA ONE 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
BORA ULTRA 50 (TB/CP)	WH15-BOT..... WH15-BOC...	Aero $\emptyset 2,2/2/1,5/2$	262,5	90-115	0,40 - 0,61	front
		Aero $\emptyset 2/1,5/2$	261,5	100-125	0,51 - 0,69	rear right
		Aero $\emptyset 2,2/2/1,5/2$	262,5	70-90	0,17 - 0,40	rear left
Calima (CP)	WH18-CAC....	$\emptyset 2$ curve	277	100 - 130	2,20 - 2,42	front
		$\emptyset 2$ curve	285,5	110 - 140	2,42 - 2,60	rear right
		$\emptyset 2$ curve	275,5	80 - 110	1,75 - 2,15	rear left
Shamal Ultra C17 (CP)	WH17-SH.../WH17-SHC....	Aero $\emptyset 3,5/2,6/3,5$	280,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	278,5	120 - 150	1,60 - 1,75	rear right
		Aero $\emptyset 3,5/2,6/3,5$	277,5	75 - 95	1,05 - 1,35	rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero $\emptyset 3,5/2,6/3,5$	279,2	110 - 130	1,45 - 1,60	front
		Aero $\emptyset 3,5/2,6/3,5$	276,5	120 - 150	1,60 - 1,75	rear right
		Aero $\emptyset 3,5/2,6/3,5$	279,2	75 - 95	1,05 - 1,35	rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero $\emptyset 2,2/2/1,6/2$	284	110 - 130	0,6 - 0,77	front
		Aero $\emptyset 2/1,6/2$	280,5	125-145	0,71 - 0,84	rear right
		Aero $\emptyset 2,2/2/1,6/2$	281,5	80 - 100	0,35 - 0,53	rear left
SCIROCCO H35 C17	WH18-SCCFR...	Aero $\emptyset 2,2/2/1,6/2$	273	110 - 130	0,58 - 0,75	front
		Aero $\emptyset 2,2/2/1,6/2$	271,5	120-150	0,66 - 0,88	rear right
		Aero $\emptyset 2,2/2/1,6/2$	274,5	80-100	0,30 - 0,50	rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2020			2WF	Two-way fit	

CAMPAGNOLO ROAD (2021 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
BORA ONE 35 (TB/CP)	WH15-BOT...135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
BORA ULTRA 35 (TB/CP)	WH15-BOT...135... WH15-BOC....135...	Aero Ø2,2/2/1,5/2	276,5	90 - 115	0,40 - 0,61	front
		Aero Ø2/1,5/2	275	100 - 125	0,48 - 0,70	rear right
		Aero Ø2,2/2/1,5/2	276,5	70 - 90	0,17 - 0,40	rear left
BORA WTO 77 (2WF)	WH19-BOWTOF77	2.2/2/1.6/2 ellittico	235	90 - 115	0,75 - 0,96	front
						rear right
						rear left
BORA WTO 60 (2WF)	WH19-BOWTO..60..	2.2/2/1.6/2 ellittico	252,5	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	250,5	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	252,5	65 - 90	0,46 - 0,75	rear left
BORA WTO 45 (2WF)	WH19-BOWTO..45..	2.2/2/1.6/2 ellittico	267	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	267	65 - 90	0,46 - 0,75	rear left
BORA WTO 33 (2WF)	WH20-BOWTO..33..	2.2/2/1.6/2 ellittico	279	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	278	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	279	65 - 90	0,46 - 0,75	rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2020			2WF	Two-way fit	

CAMPAGNOLO ROAD DISC BRAKE (2021 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke lenght (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero \emptyset 2/1,6/2	281,5	120-140	1,63 - 1,78	front right
		Aero \emptyset 2/1,6/2	275	90-110	1,37 - 1,57	front left
		Aero \emptyset 2/1,6/2	275	80-110	1,26 - 1,57	rear right
		Aero \emptyset 2/1,8/2	272	95-125	1,85 - 2,15	rear left
Bora One DB 35 (CP/T)	WH18-BOTD35	Aero \emptyset 2/1,6/2	278	95 - 125	0,51-0,74	front right
		Aero \emptyset 2/1,6/2	293	95 - 120	0,51-0,70	front left
		Aero \emptyset 2/1,6/2	293	100 - 120	0,54-0,70	rear right
		Aero \emptyset 2/1,6/2	268	90 - 120	0,46-0,70	rear left
Bora One DB 50 (T)	WH18-BOTD	Aero \emptyset 2/1,6/2	262,5	100 - 130	0,54-0,77	front right
		Aero \emptyset 2/1,6/2	278	100 - 125	0,54-0,74	front left
		Aero \emptyset 2/1,6/2	278	105 - 125	0,59-0,74	rear right
		Aero \emptyset 2/1,6/2	253,5	90 - 125	0,46-0,74	rear left
Scirocco DB (CP)	WH19-SCCD....	2/1,6/2 tondo	276	110 - 135	0,59 - 0,77	front right
		2/1,6/2 tondo	268,5	110 - 135	0,59 - 0,77	front left
		2/1,6/2 tondo	268,5	120 - 145	0,67 - 0,82	rear right
		2/1,6/2 tondo	267	110 - 135	0,59 - 0,77	rear left
Shama Ultra DB (2WF)	WH19-SH2D....	Alluminio aero	275	100 - 130	1,92 - 2,14	front right
		Alluminio aero	285,5	110 - 135	2,00 - 2,17	front left
		Alluminio aero	283	105 - 135	1,96 - 2,17	rear right
		Alluminio aero	268,7	110 - 135	2,00 - 2,17	rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2020			2WF	Two-way fit	

CAMPAGNOLO ROAD DISC BRAKE (2021 PRODUCT RANGE)

Wheel	Codes	Spoke section (mm)	Spoke length (mm)	Spoke tension (Kg)	DT Swiss Tensiometer (mm)	Position
BORA WTO 33 DB (2WF)	WH21-BOWTOD..45..	2/1,6/2 ellittico	277,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	292,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	292,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	274	85 - 110	0,71 - 0,93	rear left
BORA WTO 45 DB (2WF)	WH21-BOWTOD..45..	2/1,6/2 ellittico	265	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	280,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	280,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	261,5	85 - 115	0,71 - 0,96	rear left
BORA WTO 60 DB (2WF)	WH21-BOWTOD..60..	2/1,6/2 ellittico	250,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	265	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	247	85 - 115	0,71 - 0,96	rear left
SHAMAL CARBON DB (2WF)	WH21-SHCD..40..	Aero 2/1,6/2 curvo	275	100 - 135	1,44 - 1,72	front right
		Aero 2/1,6/2 curvo	281	90 - 120	1,36 - 1,61	front left
		Aero 2/1,6/2 curvo	276	100 - 125	1,44 - 1,68	rear right
		Aero 2/1,6/2 curvo	266	100 - 130	1,44 - 1,70	rear left

TB	Tubular	CP	clincher
RED WORDS	new or updated wheel on 2020	2WF	Two-way fit

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/DB/Vento Asy	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17/DB	hexagonal /6 self lock	UT-WH070 or UT-WH270 (pro tool)
Calima	hexagonal/3,2	market tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090

NIPPLES

Wheel	kind of section /mm	tool
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB/WTO	squared/3,9/selflock	UT-WH090
Zonda DB	squared/3,9/selflock	UT-WH090
Shamal Carbon DB	squared/3,9/selflock	UT-WH090

CAMPAGNOLO ROAD RIM BRAKE (2022 PRODUCT RANGE)

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
BORA WTO 77 (2WF)	WH19-BOWTOF77	2.2/2/1.6/2 ellittico	235	90 - 115	0,75 - 0,96	front
						rear right
						rear left
BORA WTO 60 (2WF)	WH19-BOWTO..60..	2.2/2/1.6/2 ellittico	252,5	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	250,5	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	252,5	65 - 90	0,46 - 0,75	rear left
BORA WTO 45 (2WF)	WH19-BOWTO..45..	2.2/2/1.6/2 ellittico	267	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	267	65 - 90	0,46 - 0,75	rear left
BORA WTO 33 (2WF)	WH20-BOWTO..33..	2.2/2/1.6/2 ellittico	279	90 - 115	0,75 - 0,96	front
		2/1.6/2 ellittico	278	100 - 125	0,85 - 1,04	rear right
		2.2/2/1.6/2 ellittico	279	65 - 90	0,46 - 0,75	rear left
Shamal Ultra C17 (CP)	WH17-SH.../WH17-SHC....	Aero Ø3,5/2,6/3,5	280,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	278,5	120 - 150	1,60 - 1,75	rear right
		Aero Ø3,5/2,6/3,5	277,5	75 - 95	1,05 - 1,35	rear left
Shamal Ultra (2WF)	WH17-SH2...	Aero Ø3,5/2,6/3,5	279,2	110 - 130	1,45 - 1,60	front
		Aero Ø3,5/2,6/3,5	276,5	120 - 150	1,60 - 1,75	rear right
		Aero Ø3,5/2,6/3,5	279,2	75 - 95	1,05 - 1,35	rear left
Zonda C17 (CP)	WH17-ZOCFR	Aero Ø2,2/2/1,6/2	284	110 - 130	0,6 - 0,77	front
		Aero Ø2/1,6/2	280,5	125-145	0,71 - 0,84	rear right
		Aero Ø2,2/2/1,6/2	281,5	80 - 100	0,35 - 0,53	rear left
TB		Tubular		CP	clincher	
RED WORDS		new or updated wheel on 2022		2WF	Two-way fit	

CAMPAGNOLO ROAD RIM BRAKE (2022 PRODUCT RANGE)

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
SCIROCCO H35 C17	WH18-SCCFR...	Aero \emptyset 2,2/2/1,6/2	273	110 - 130	0,58 - 0,75	front
		Aero \emptyset 2,2/2/1,6/2	271.5	120-150	0,66 - 0,88	rear right
		Aero \emptyset 2,2/2/1,6/2	274.5	80-100	0,30 - 0,50	rear left
Calima (CP)	WH18-CAC....	\emptyset 2 curve	277	100 - 130	2,20 - 2,42	front
		\emptyset 2 curve	285,5	110 - 140	2,42 - 2,60	rear right
		\emptyset 2 curve	275,5	80 - 110	1,75 - 2,15	rear left

TB	Tubular	CP	clincher
RED WORDS	new or updated wheel on 2022	2WF	Two-way fit

CAMPAGNOLO ROAD DISC BRAKE (2022 PRODUCT RANGE)

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
BORA ULTRA WTO 33 DB (2WF)	WH21-BUW.33...	2/1,5/2 ellittico	284	115 - 145	0,95 - 1,15	Ant DX / Front RH
		2/1,5/2 ellittico	298	105 - 135	0,87 - 1,90	INT Ant SX / Front LH
				95 - 125	0,78 - 1,03	EXT Ant SX / Front LH
		2/1,5/2 ellittico	298	118 - 148	0,97 - 1,16	INT Post DX / Rear RH
				108 - 138	0,89 - 1,11	EXT Post DX / Rear RH
2/1,5/2 ellittico	282	110 - 140	0,91 - 1,12	Post SX / Rear LH		
BORA ULTRA WTO 45 DB (2WF)	WH21-BUW.45...	2/1,5/2 ellittico	272	95 - 125	0,78 - 1,03	Ant DX / Front RH
		2/1,5/2 ellittico	287	105 - 135	0,87 - 0,91	INT Ant SX / Front LH
				95 - 125	0,78 - 1,03	EXT Ant SX / Front LH
		2/1,5/2 ellittico	287	105 - 135	0,87 - 1,09	INT Post DX / Rear RH
				95 - 125	0,78 - 1,03	EXT Post DX / Rear RH
2/1,5/2 ellittico	268,5	95 - 125	0,78 - 1,03	Post SX / Rear LH		
BORA ULTRA WTO 60 DB (2WF)	WH21-BUW.60...	2/1,5/2 ellittico	257,5	110 - 140	0,91 - 1,12	Ant DX / Front RH
		2/1,5/2 ellittico	272	105 - 135	0,87 - 1,09	INT Ant SX / Front LH
				95 - 125	0,78 - 1,03	EXT Ant SX / Front LH
		2/1,5/2 ellittico	272	105 - 135	0,87 - 1,09	INT Post DX / Rear RH
				95 - 125	0,78 - 1,03	EXT Post DX / Rear RH
2/1,5/2 ellittico	254	95 - 125	0,78 - 1,03	Post SX / Rear LH		

TB	Tubular	CP	clincher
RED WORDS	new or updated wheel on 2022	2WF	Two-way fit

CAMPAGNOLO ROAD DISC BRAKE (2022 PRODUCT RANGE)

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
BORA WTO 33 DB (2WF)	WH21-BOWTOD..45..	2/1,6/2 ellittico	277,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	292,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	292,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	274	85 - 110	0,71 - 0,93	rear left
BORA WTO 45 DB (2WF)	WH21-BOWTOD..45..	2/1,6/2 ellittico	265	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	280,5	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	280,5	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	261,5	85 - 115	0,71 - 0,96	rear left
BORA WTO 60 DB (2WF)	WH21-BOWTOD..60..	2/1,6/2 ellittico	250,5	95 - 125	0,8 - 1,04	front right
		2/1,6/2 ellittico	265	90 - 120	0,75 - 1,00	front left
		2/1,6/2 ellittico	265	100 - 125	0,85 - 1,04	rear right
		2/1,6/2 ellittico	247	85 - 115	0,71 - 0,96	rear left
SHAMAL CARBON DB (2WF)	WH21-SHCD..40..	Aero 2/1,6/2 curvo	275	100 - 135	1,44 - 1,72	front right
		Aero 2/1,6/2 curvo	281	90 - 120	1,36 - 1,61	front left
		Aero 2/1,6/2 curvo	276	100 - 125	1,44 - 1,68	rear right
		Aero 2/1,6/2 curvo	266	100 - 130	1,44 - 1,70	rear left
Zonda DB C17 (CP)	WH17-ZOCDFRX	Aero \emptyset 2/1,6/2	281,5	120-140	1,63 - 1,78	front right
		Aero \emptyset 2/1,6/2	275	90-110	1,37 - 1,57	front left
		Aero \emptyset 2/1,6/2	275	80-110	1,26 - 1,57	rear right
		Aero \emptyset 2/1,8/2	272	95-125	1,85 - 2,15	rear left
TB	Tubular			CP	clincher	
RED WORDS	new or updated wheel on 2022			2WF	Two-way fit	

CAMPAGNOLO ROAD DISC BRAKE (2022 PRODUCT RANGE)

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
Scirocco DB (CP)	WH19-SCCD....	2/1,6/2 tondo	276	110 - 135	0,59 - 0,77	front right
		2/1,6/2 tondo	268,5	110 - 135	0,59 - 0,77	front left
		2/1,6/2 tondo	268,5	120 - 145	0,67 - 0,82	rear right
		2/1,6/2 tondo	267	110 - 135	0,59 - 0,77	rear left
Shama Ultra DB (2WF)	WH19-SH2D....	Alluminio aero	275	100 - 130	1,92 - 2,14	front right
		Alluminio aero	285,5	110 - 135	2,00 - 2,17	front left
		Alluminio aero	283	105 - 135	1,96 - 2,17	rear right
		Alluminio aero	268,7	110 - 135	2,00 - 2,17	rear left

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/DB/Vento Asy	squ./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17/DB	hexagonal /6 self lock	UT-WH070 or UT-WH270 (pro tool)
Calima	hexagonal/3,2	market tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090

NIPPLES

Wheel	kind of section /mm	tool
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB/WTO	squared/3,9/selflock	UT-WH090
Zonda DB	squared/3,9/selflock	UT-WH090
Shamal Carbon DB	squared/3,9/selflock	UT-WH090
Bora Ultra WTO	Torx 25 selflock (inside)	UT-WH290

CAMPAGNOLO ROAD DB (Product Range 2023)

*Acciaio **DA** sottotesta; Alluminio **CON** testa / Steel **FROM** underhead; Aluminum **WITH** head

Ruota / Wheels	Codici / Codes	Sezione raggio Spoke section	Lunghezza raggio (mm) Spoke length (mm)*	Tensione raggi (Kg) Spoke tension (Kg)	Misure Tensio (mm) Tensiometer (mm)	Posizionamento Positioning
LEVANTE DB (2WF)		2.2/2/1.6/2	292,5	75 - 105	1,19 - 1,49	Ant DX / Front RH
		2.2/2/1.6/2	292,5	100 - 130	1,44 - 1,70	Ant SX / Front LH
		2.2/2/1.6/2	291	110 - 150	1,56 - 1,85	Post DX / Rear RH
		2.2/2/1.6/2	292,5	80 - 110	1,15 - 1,56	Post SX / Rear LH

NIPPLES

Wheel	kind of section /mm	tool
Khamsin Asym	squared/3,2	market tool
Scirocco H35/DB/Vento Asym	sq./ int 3,6 ; ext 3,9	int UT-WH170/ext UT-WH090
Eurus	hexagonal /6	UT-WH070
Shamal Ultra C17/DB	hexagonal /6 self lock	UT-WH070 or UT-WH270 (pro tool)
Calima	hexagonal/3,2	market tool
Bullet/Bullet Ult.	squared/3,9	UT-WH090

NIPPLES

Wheel	kind of section /mm	tool
Hyperon Ultra	int. hexagonal nut /5	market tool
Neutron Ultra	int. hexagonal nut /5	market tool
Zonda C17	squared/3,2/self lock	market tool
Bora/Bora DB/WTO	squared/3,9/selflock	UT-WH090/UT or WH280 (pro tool)
Zonda DB	squared/3,9/selflock	UT-WH090/UT or WH280 (pro tool)
Shamal Carbon DB	squared/3,9/selflock	UT-WH090/UT or WH280 (pro tool)
Bora Ultra WTO	Torx 25 selflock (inside)	UT-WH090/UT or WH280 (pro tool)
Levante DB	squared/3,9/selflock	UT-WH090/UT or WH280 (pro tool)
Levante DB		T-25 (tool to lock the spokes)