

TUBE SETS 2016 CATALOG



SOLUME
TUBI SPECIALI TRIPLE BUTTED
Niobium Steel
SSP
SPIRIT SUPER PISTA
Conditioned

COLUMBUS
TUBI SPECIALI SUPERBUTTED
ACCIAIO
RINFORZI ELICOIDALI
SLX NEW
TRE TUBI
CYCLEX

IRON
High Treatment

ALLOY
Butted Tubes
Resolution Treated-Controlled Ageing
Italy

COLUMBUS
TUBI SPECIALI RINFORZATI DSB
ACCIAIO
GENIUS
DIFFERENTIAL SHAPE BUTTED
TRE TUBI
NIVACROM

COLUMBUS
LEX ALLOY
Double Butted Tubes Short Butted

COLUMBUS
TUBI SPECIALI RINFORZATI
ACCIAIO NIVACROM
MINIMAX
ELLISSI ORIENTATE

COLUMBUS
carbon
HMT 700
MONOCOQUE FRAME
DESIGNED IN ITALY
ENDURANCE GEOMETRY

COLUMBUS
TUBI SPECIALI TRAFI
ACCIAIO
MAX
TRE TUBI
ELLISSI ORIENTATE
NIVACROM

COLUMBUS
TUBI SPECIALI RINFORZATI
SLX
MONOCOQUE FRAME
DESIGNED IN ITALY
ENDURANCE GEOMETRY



COLUMBUS XCr

XCr è un acciaio speciale INOX dalla formulazione innovativa. Caratteristica esclusiva ed unica nel settore del ciclo della nuova serie XCr Columbus, sono i tubi inossidabili senza saldatura, realizzati partendo da una billetta forata meccanicamente e trafilata a freddo innumerevoli volte fino ad ottenere ridottissimi spessori finali. In questo modo le elevate caratteristiche meccaniche dei tubi sono uniformi e costanti su tutta la sezione circolare del tubo. Grazie alla particolare composizione chimica di questa nuova lega, la struttura cristallina non viene alterata durante il processo di saldatura del telaio, garantendo le massime prestazioni anche nei punti di giunzione. Caratteristiche meccaniche: UTS:1350-1250MPa, Ys:1000-900MPa, Ap5: >10% Materiale d'apporto suggerito per saldatura TIG: APX4S Materiale d'apporto per saldobrasatura: T99 (Ag 56% Cu 22% - Zn 17%)

XCr is an innovative, high grade stainless steel tubing set.

Exclusive and unique characteristic for the whole bike industry of the new Columbus XCr set, is that the stainless steel tubes are seamless, made starting from a solid billet, machine-perforated and cold drawn countless times, to obtain the final required thickness. In this way the very high mechanical characteristics are uniform and constant in the whole round section of the tube.

Thanks to the special chemical composition of this new alloy, the grain structure is not altered by welding during the frame construction.

The maximum characteristics are granted also in the joint areas.

Mechanical characteristics: UTS: 1350-1250MPa Ys:1000-900MPa, Ap5: >10%

Suggested filler material for TIG welding: APX4S

Suggested material for brazing: T99 (ag 56% Cu 22% - Zn 17%)



COLUMBUS Niobium

Niobium è un acciaio speciale senza saldatura, composto da Manganese, Cromo, Nickel, Molibdeno e Niobio. Grazie alla speciale composizione chimica di Columbus, gli effetti combinati di rafforzamento per precipitazione e riduzione del grano cristallino sono incredibilmente accentuati rispetto agli acciai standard, grazie al Niobio che agisce da elemento rafforzante della lega. Dopo le speciali lavorazioni di trafilatura progressiva e di sagomatura, Niobium viene sottoposto ad uno speciale trattamento termico, che conferisce all'acciaio le caratteristiche finali. Si tratta di un acciaio progettato per fornire migliori caratteristiche meccaniche ed elevata resistenza all'azione ambientale rispetto agli acciai Cro-Mo convenzionali. Niobium è la scelta obbligata per un telaio da competizione, dove leggerezza ed alta affidabilità sono fondamentali. Caratteristiche meccaniche: $UTS = 1050 \div 1250$ MPa, $Y_s \geq 750$ MPa, $A_{p5} > 14\%$. Materiale consigliato per la saldatura TIG: OKTIGROD 13.12 (AWS 5.28 ER 80S-G) Materiale d'apporto per saldobrasatura: Castoline Silver Alloy 38230 Columbus Niobium è utilizzato nelle serie tubi Spirit, Spirit HSS, SL e Life.

Niobium is a special steel with Manganese, Chrome, Nickel, Molybdenum and Niobium. In this Columbus's special chemical composition, the effects of strengthening for precipitation and alloy-grain reduction are incredibly enhanced if compared to standard steels thanks to the Niobium that acts as an alloy-strengthening agent. After specific processes of progressive drawing and forming, Niobium undergoes a special heat treatment that gives the steel its final characteristics. It is a steel designed to provide superior mechanical characteristics and higher resistance to environmental effects than conventional Cro-Mo steels. Niobium is the only serious choice for a top-of-the-line competition frame, where lightweight and reliability are essential. Mechanical characteristics: $UTS: 1050 \div 1150$ MPa, $Y_s = 750$ MPa, $A_{p5} > 14\%$. Material suggested for TIG welding: OKTIGROD 13.12 (AWS 5.28 ER 80S-G) Suggested material for brazing: Castoline Silver Alloy 38230 Columbus Niobium is utilized for the production of the Spirit, Spirit HSS, SL and Life tubesets.



COLUMBUS 25CrMo4

Acciaio 25CrMo4 senza saldatura: grazie al Cromo l'acciaio resiste egregiamente al surriscaldamento dovuto alla saldatura, infatti, i grani non si ingrossano e le prestazioni meccaniche non vengono alterate. Brasatura o saldatura sono dunque ben sopportate. Questo acciaio, allo stato crudo malleabile, garantisce elevate caratteristiche meccaniche.

Caratteristiche meccaniche: UTS=800MPa, Ys=760MPa, Ap5 =12%

Materiale d'apporto per saldatura TIG: OK TIGROD 13.12 (AWS 5.28 ER 80S-G)

Materiale d'apporto per saldobrasatura: Castoline Silver Alloy 38230

Columbus 25CrMo4 è utilizzato nelle serie tubi Zona, 29r e FAT.

25CrMo4 seamless steel: the chemical composition of this steel, specifying a higher percentage of Chromium, gives to the material good resistance properties to overheating. The formation of carbides prevents the grain enlargement: the steel maintains its properties during brazing and welding, even in the malleable raw state it features excellent mechanical characteristics.

Mechanical characteristics: UTS=800MPa, Ys=760MPa, Ap5 =12%

Suggested filler material for TIG welding: OK TIGROD 13.12 (AWS 5.28 ER 80S-G)

Suggested material for brazing: Castoline Silver Alloy 38230

Columbus 25CrMo4 is utilized for the production of the Zona, 29r and FAT tubesets.



COLUMBUS Cromor

Columbus Cromor e' un acciaio 25CrMo4, saldato e trafilato a freddo su mandrini sagomati a spessore variabile.

Cromor e' prodotto partendo da uno sbozzato calibrato che ha già a sua volta subito due passaggi di trafilatura, prima di essere rinforzato a spessore variabile.

Caratteristiche meccaniche: UTS=750MPa, Ys=700MPa, Ap5 ≥ 12%

Materiale d'apporto per saldatura TIG: OKTIGROD 13.12 (AWS 5.28 ER 80S-G)

Materiale d'apporto per saldobrasatura: Castoline Silver Alloy 38230

Columbus Cromor is a 25CrMo4 steel, welded and cold drawn, butted to variable thicknesses using shaped mandrills. Cromor steel is produced starting from a calibrated tube which has already received two drawing processes, before being reinforced in all the possible variable thickness offered by the range.

Mechanical characteristics: UTS=750MPa, Ys=700MPa, Ap5 ≥ 12%

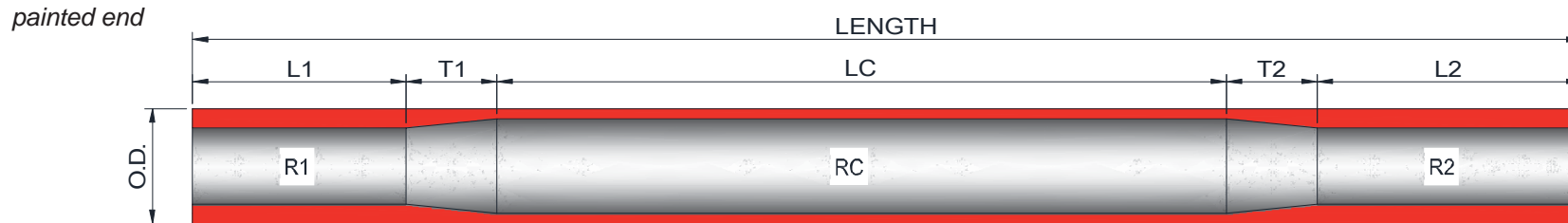
Suggested material for TIG welding: OK TIGROD 13.12 (AWS 5.28 ER 80S-G)

Suggested material for brazing: Castoline Silver Alloy 38230

Tubesets

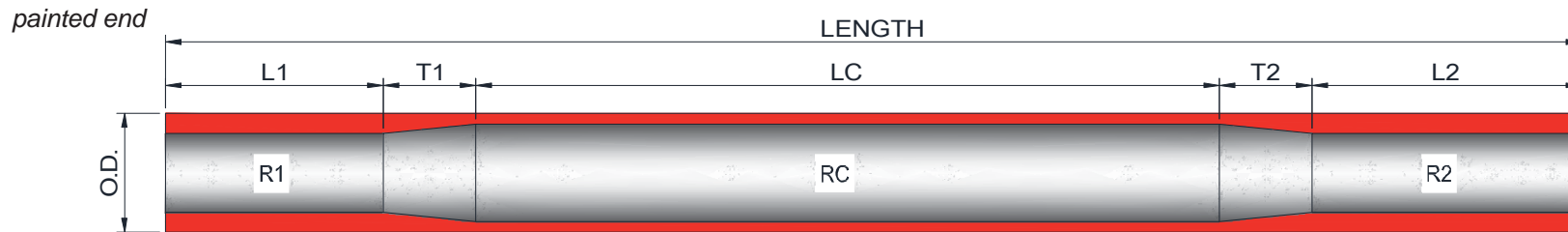


MAIN TUBES - double / triple butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE			BUTT LENGTHS					FAMILY	
			R1	RC	R2	L1	T1	LC	T2	L2		
XCRL11570	31,7	570	0,6	0,4	0,6	40	40	330	40	120	XCR	
XCRL11600	31,7	600	0,6	0,4	0,6	40	40	380	40	100	XCR	
XCRL11600W			= XCRL11600 + "W" shape									XCR
XCRS11600	31,7	600	0,7	0,5	0,7	110	40	350	40	60	XCR	
XCRL12650	35	650	0,65	0,45	0,65	40	40	430	40	100	XCR	
XCRS12670	35	670	0,7	0,5	0,7	60	40	385	40	145	XCR	
XCRA12670	38	670	0,65	0,45	0,65	40	40	450	40	100	XCR	
XCRA12670AZ			= XCRA12670 + "Z" shape									XCR
XCRA12670MAX			= XCRA12670 + "MAX" bi-oval shape									XCR
XCRC11600	28,6	600	0,75	0,45	0,75	100	40	320	40	100	XCR	
XCRC12650	31,7	650	0,75	0,45	0,75	100	40	320	40	150	XCR	
SPTL11570	31,7	570	0,6	0,4	0,6	50	40	370	40	70	Spirit	
SPTL11570112AW			= SPTL11570 + "AW" 27 x 33,5 shape									Spirit
SPLM12625B	31,7	625	0,8	0,5	0,8	70	40	380	40	95	Spirit	
SPTA12635	38	635	0,6	0,4	0,6	50	40	425	40	80	Spirit	
SPTA12635112AZ			= SPTA12635 + "AZ" 29 x 43,5 shape									Spirit
SPLM11600	28,6	600	0,75	0,45	0,75	100	40	320	40	100	Spirit FL	
SPLM12650	31,7	650	0,75	0,45	0,75	100	40	350	40	120	Spirit FL	
SPKI11580	25,4	580	0,8	0,5	0,8	160	30	305	30	55	Spirit Keirin	
SPKI12640	28,6	640	0,8	0,5	0,8	100	30	390	30	90	Spirit Keirin	
SL2111600	25,4	600	0,8	0,5	0,8	100	40	320	40	100	SL	
SL2112650	28,6	650	0,8	0,5	0,8	100	40	320	40	150	SL	

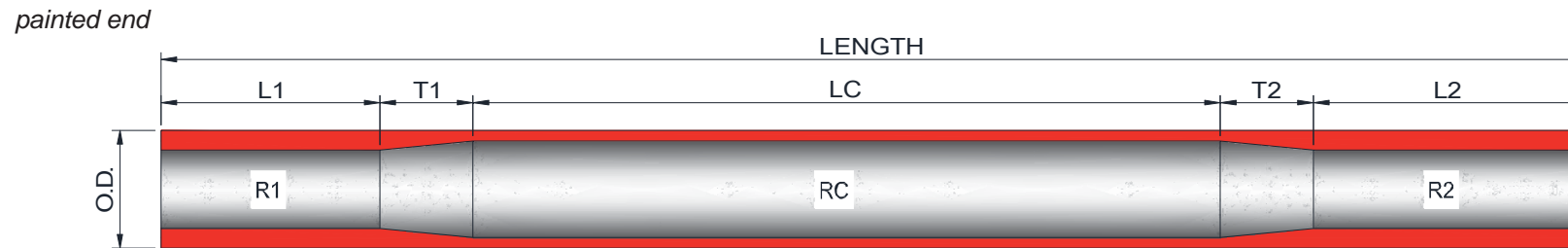
MAIN TUBES - double / triple butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE			BUTT LENGTHS					FAMILY	
			R1	RC	R2	L1	T1	LC	T2	L2		
SLFL11600125*	31,7 / 28,6	600	0,65	0,45	0,65	40	40	380	40	100	HSS	
SLFL11600OV125*			= SLFL11600125 + ovalized HT side 28,7 x 34,6									HSS
SLFL11560125*	31,7 / 28,6	560	0,65	0,45	0,65	40	40	340	40	100	HSS	
SLFL11560OV125*			= SLFL11560125 + ovalized HT side 28,7 x 34,6									HSS
SLFG11600	35	600	0,65	0,45	0,45	60	40	385	40	75	HSS	
SLFG11600125*	35 / 31,7	600	0,65	0,45	0,45	60	40	385	40	75	HSS	
SLFG12670	44	670	0,6	0,45	0,6	90	40	410	40	120	HSS	
SLFG12670GX			= SLFG1270 + "GX" shape									HSS
SLFG12670HX			= SLFG1270 + "HX" shape									HSS
SLFG12670Y01			= SLFG1270 + "YO1" shape									HSS
SLFM11600	28,6	600	0,7	0,45	0,7	50	40	370	40	100	Life	
SLFL11560	31,7	560	0,65	0,45	0,65	40	40	340	40	100	Life	
SLFL11560W01			= SLFL11560 + "W01" shape									Life
SLFL11560112AW			= SLFL11560 + "112AW" shape									Life
SLFL11600	31,7	600	0,65	0,45	0,65	40	40	380	40	100	Life	
SLFL11600W01			= SLFL11600 + "W01" shape									Life
SLFL11600112AW			= SLFL11600 + "112AW" shape									Life
SLFM12650125*	31,7 / 28,6	650	0,65	0,45	0,65	40	40	380	40	150	Life	
SLFM12630	31,7	630	0,7	0,45	0,7	70	40	380	40	100	Life	
SLFL12650	35	650	0,65	0,45	0,65	60	40	460	40	120	Life	
SLFA12670	38	670	0,65	0,45	0,65	40	40	450	40	100	Life	
SLFA12670131			= SLFA12670 + "MAX" bi-oval shape									Life
ELOM12600	31,7	600	0,7	0,4	0,7	100	40	320	40	100	EL Oversize	
XNVL12650	35	650	0,8	0,5	0,8	125	45	310	45	125	EL Oversize	
MAXL11600	31,7	600	0,7	0,4	0,7	100	40	320	40	100	MAX	
TT double oval shaped 37,6 x 26,1												
MAXL12650	35	650	0,8	0,5	0,8	125	45	310	45	125	MAX	
DT bi-oval oval shaped 40,3 x 30												

(*): Tapered tubes. Thickness before tapering.

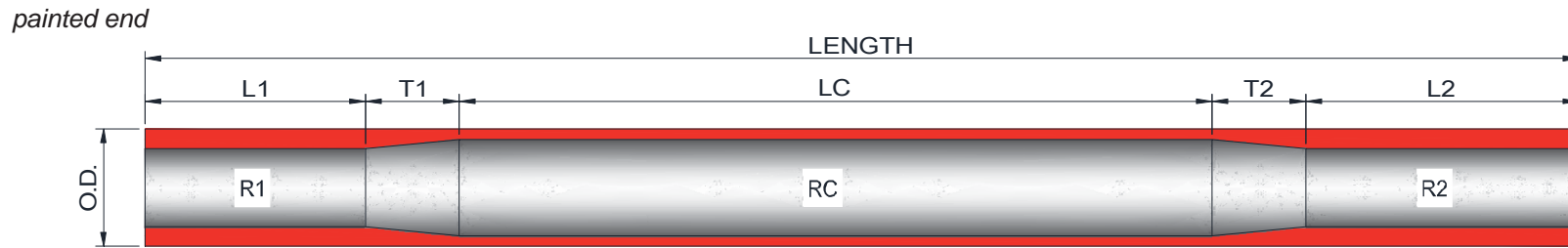
MAIN TUBES - double / triple butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE			BUTT LENGTHS					FAMILY
			R1	RC	R2	L1	T1	LC	T2	L2	
ZONM12650	31,7	650	0,7	0,5	0,7	60	40	360	40	150	29'r
ZONL12750001	35	750	0,8	0,5	0,8	125	40	340	40	205	29'r
ZONA12750	38	750	0,7	0,5	0,7	60	40	410	40	200	29'r
ZONA12750001110E**	38	750	1	0,5	0,8	240	60	290	60	100	29'r
ZONH12750	42	750	0,7	0,5	0,7	60	40	410	40	200	29'r
ZONI11600	25,4	600	0,8	0,6	0,8	100	40	320	40	100	Zona
ZONM11600	28,6	600	0,7	0,5	0,7	50	40	370	40	100	Zona
ZONM11560	28,6	560	0,7	0,5	0,7	50	40	330	40	100	Zona
ZONM11600001	28,6	600	0,8	0,5	0,8	95	40	320	40	105	Zona
ZONL11600	31,7	600	0,7	0,5	0,7	60	40	350	40	110	Zona
ZONL11560	31,7	560	0,7	0,5	0,7	60	40	310	40	110	Zona
ZONM12670	31,7	670	0,8	0,5	0,8	100	40	370	40	120	Zona
ZONL12670	35	670	0,7	0,5	0,7	60	40	410	40	120	Zona
ZONL12670001	35	670	0,8	0,5	0,8	125	40	340	40	125	Zona
ZONA12670	38	670	0,7	0,5	0,7	60	40	410	40	120	Zona
ZONA12670112AE			= ZONA12670 + "112AE" shape (30 x 46)								Zona
ZONH12670	42	670	0,7	0,5	0,7	60	40	410	40	120	Zona
ZONH12670112AF			= ZONH12670 + "112AF" shape (31 x 52)								Zona
ZONH12670112L			= ZONH12670 + "112L" shape (32 x 51)								Zona
CRMI11600	25,4	600	0,9	0,6	0,9	95	60	230	60	155	Cromor
CRMI12640	28,6	640	0,9	0,6	0,9	85	60	320	60	115	Cromor
CRRM11600	28,6	600	0,9	0,6	0,9	85	60	280	60	115	Cromor
CRMM12640	31,7	640	0,9	0,6	0,9	85	60	320	60	115	Cromor

(*): Tapered tubes. Thickness before tapering. (**): Bended DT for MTB fork clearance.

SEAT TUBES - double / triple butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE			BUTT LENGTHS					FAMILY
			R1	RC	R2	L1	T1	LC	T2	L2	
XCRM13650A	33	650	0,65	0,4	0,65	200	40	270	40	100	XCR
735FD33	<i>Columbus CNC aluminum front derailleur clamp ø33 for XCRM13650A tube</i>										
SPT113620	28,6	620	0,7	0,4	0,6	175	40	295	40	70	Spirit
SLF113560	28,6	560	0,75	0,4	0,6	160	30	210	30	130	Life
SLF113635	28,6	635	0,75	0,4	0,6	160	30	285	30	130	Life

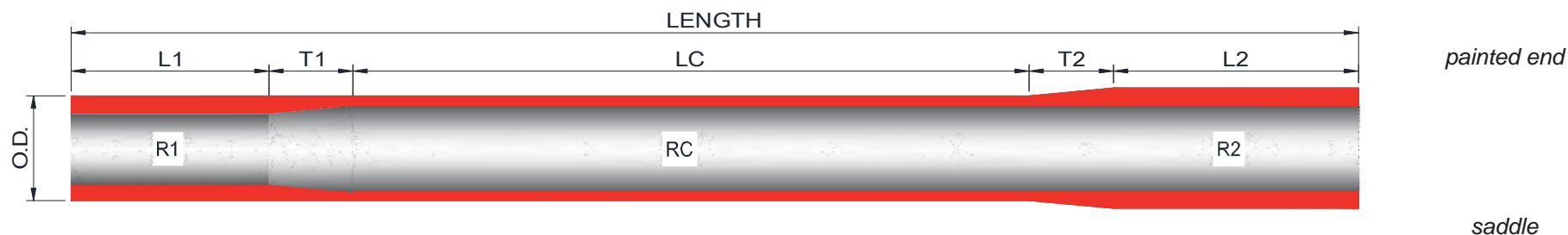
SEAT TUBES - single butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE		BUTT LENGTHS			FAMILY
			R1	RC	L1	T1	LC	
XCRC13635	28,6	635	0,8	0,6	150	40	445	XCR
XCRM13635	31,7	635	0,7	0,5	100	40	495	XCR
XCRS13650	31,7	650	0,7	0,5	150	40	460	XCR
SPLI13635	28,6	635	0,8	0,6	150	40	445	Spirit FL
SPKI13635	28,6	635	0,8	0,6	150	40	445	Spirit Keirin
SL2I13635	28,6	635	0,8	0,6	150	40	445	SL
SLFL13635	35	635	0,7	0,5	135	40	460	Life
SLFM13635	31,7	635	0,8	0,5	150	40	445	Life
MAXL13635*	31,7 / 28,6	635	0,8	0,5	150	40	445	MAX
ZONI13635	28,6	635	0,8	0,6	150	40	445	ZONA
CRMI13640	28,6	640	0,9	0,6	95	70	475	Cromor
CRRM13635	31,7	635	0,9	0,6	150	50	435	Cromor

(*): Tapered at saddle side, oval 37,2 x 26,4 at BB side, thickness before tapering

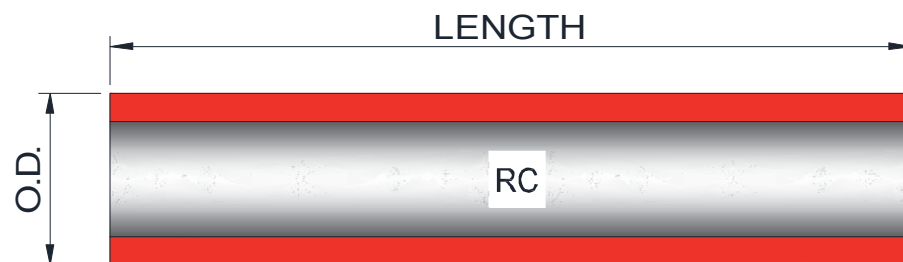
SEAT TUBES - external butted



CODE	O.D.	LENGHT	BUTT TH. PROFILE			BUTT LENGTHS					FAMILY
			R1	RC	R2	L1	T1	LC	T2	L2	
SLFM13635001	31,7	635	0,7	0,5	0,9	160	40	315	40	80	HSS
SLFM13710001	31,7	710	0,7	0,5	0,9	160	40	240	40	230	HSS
SLFM13560001	31,7	560	0,7	0,5	0,9	160	40	240	40	80	HSS
ZBSRID27,2	<i>Alloy reduction sleeve for 27,2mm seat tube</i>										
SLFI13520001	28,6	520	0,8	0,6	1	150	40	210	40	80	Life
SLFI13635001	28,6	635	0,8	0,6	1	150	40	325	40	80	Life
ZON113550	28,6	550	0,8*	0,6	1,2	245	40	150	40	75	29'r
ZON113550110F	= ZON113550 + R800 bend for rear wheel clearance										
ZON113620	28,6	620	0,8*	0,6	1,2	245	40	220	40	75	Zona
ZON113640	28,6	640	0,8*	0,6	1,2	245	40	220	40	95	Zona
ZON113560002	31,7	560	0,7	0,5	0,9	160	40	240	40	80	Zona
ZON113635002	31,7	635	0,7	0,5	0,9	160	40	315	40	80	Zona
ZON113715	28,6	715	0,8	0,6	1	150	40	215	40	270	Zona
ZON113560001	32,7	560	0,7	0,5	0,9	160	40	240	40	80	Zona
ZON113635001	32,7	635	0,7	0,5	0,9	160	40	315	40	80	Zona
ZON113550001	32,7	550	0,7	0,5	0,9	245	40	145	40	80	Zona
735FD33	<i>Columbus CNC aluminum front derailleur clamp ø33 for ZON113635001 & ZON113550001 tubes</i>										
CXB113575	28,6	575	0,9	0,6	1,2	250	25	170	30	100	Cromor
CXB113635	28,6	640	0,9	0,6	1,2	250	25	235	30	100	Cromor

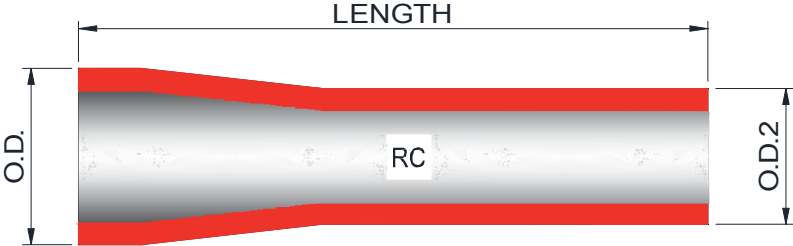
(*): Thickness can be 1,05mm in the first 15mm of R1

HEAD TUBES



CODE	O.D.	LENGHT	BUTT TH. PROFILE RC		FAMILY
XCRC18250	31,7	250	1		XCR
XCRK18250	36	250	1,1		XCR
XCRK18600	36	600	1,1		XCR
ZXCRCALUP				36mm AISI 316L braze-on cup for integrated headset - upper - O.D. 45mm	
ZXCRCALDOWN				36mm AISI 316L braze-on cup for integrated headset - lower - O.D. 45mm	
XCRH18240	38	240	0,8		XCR
ZXCRCAL38UP				38mm AISI 316L braze-on cup for integrated headset - upper - O.D. 45mm	
ZXCRCAL38DOWN				38mm AISI 316L braze-on cup for integrated headset - lower - O.D. 45mm	
CYRA18600	38	600	0,8		Spirit
CYRA18240	38	240	0,8		Spirit
ZCALA28.6UP				38mm steel braze-on cup for integrated headset - upper - 42mm x 45° - O.D. 45mm	
ZCALA28.6DOWN				38mm steel braze-on cup for integrated headset - lower - 42mm x 45° - O.D. 45mm	
CYRG18600	46	600	1,1		HSS
CYRG18240	46	240	1,1		HSS
SL0118600	31,7	600	1		SL
CYRK18600	36	600	1,1		Zona
CYRK18200	36	200	1,1		Zona
CYRH18600	32,4	600	1,3		Zona
CRMI18600	31,7	600	1		Cromor

TAPERED HEAD TUBE



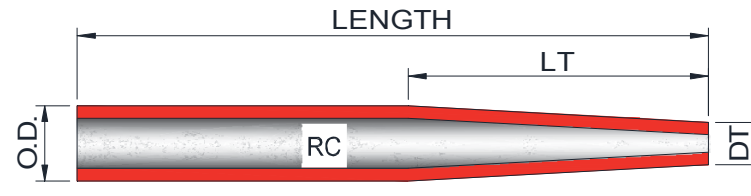
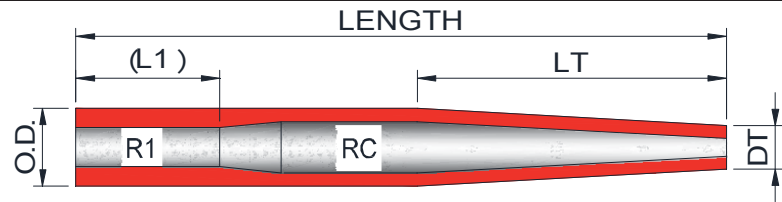
CODE	O.D. / O.D.2	LENGHT	THICKNESS* RC		FAMILY
CYRT18230	56 / 46	230	1		HSS
ZCALT46UP				<i>Braze-on cup for integrated headset - upper - 42mm x 45°</i>	
ZCALT56DOWN				<i>Braze-on cup for integrated headset - lower - 52mm x 45°</i>	

(*): Thickness before tapering

OTHER PARTS

CODE	O.D.	LENGHT		FAMILY
ZSMJXCR	40	68	<i>Hinox BB shell - english thread - Ø40mm X 68mm</i>	XCR
ZXCRROD			<i>Welding rod for XCR Ø 1mm L.1000mm</i>	XCR
ZXCRROD16			<i>Welding rod for XCR Ø 1,6mm L.1000mm</i>	XCR

CHAIN STAYS

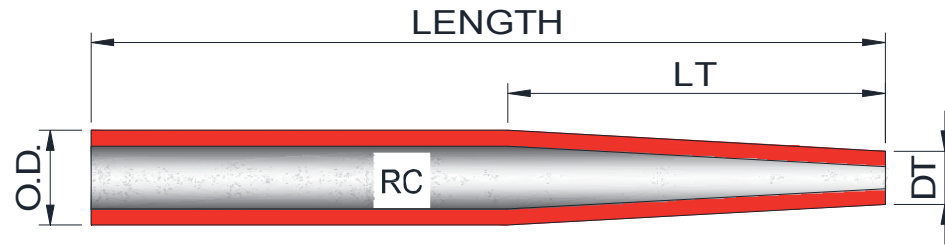


butted

CODE	O.D.	LENGHT	THICKNESS*		oval	LT	DT	FAMILY
			R1	RC				
XCR114OV410	24	410		0,7	Round / oval	250	13,6	XCR
XCR114OV410001	24	410		0,7	18 x 28,5	250	13,6	XCR
XCR 114OV425133CR**	24	425		0,7	Round / oval	250	13,6	XCR
XCRC114OV410001	24	410		0,7	18 x 28,5	290	12,5	XCR
SL0114OV	22,2	410		0,7	Round / oval	300	12,5	SL
SLF114OV410	24	410	0,7(100)	0,5	16 x 30	80	13,2	Life
SLF114OV410133E					= SLF114OV410 + Road "S" bend			Life
SLF114OV410133CR					= SLF114OV410 + Cyclocross "S" bend			Life
SLF114OV410001	24	410	0,7(100)	0,5	16 x 30	290	12,5	Life
SLF114OV4101112AJ					= SLF114OV410001 + Shape "AJ" 18 x 25.6			Life
SLF114OV4101133E					= SLF114OV410001 + Road "S" bend			Life
SLF114OV4101133CR					= SLF114OV410001 + Cyclocross "S" bend			Life
MAXL14OV	28	410		0,6	18,5 x 36	230	14	MAX
ZONI14TO410	22,2	410		0,7		300	12,5	Zona
ZONI14OV410	22,2	410		0,7	R/Ov/R 17 x 26	300	12,5	Zona
MMX114OV410	22,2	410		0,7	17,7 X 26	300	12,5	MAX
ZONI14TO420SX	22,2	420		0,7	pressed	160	16	Zona
ZONI14OV420DX	22,2	420		0,7	19,5 x 25,5	160	16	Zona
ZON114TO425	24	425	0,8 (130)	0,6		290	12,5	Zona
ZON114OV425	24	425	0,8 (130)	0,6	16 x 30	290	12,5	Zona
ZON114V10425					= ZON114OV425 + 10° single bend			Zona
ZON114V12425					= ZON114OV425 + 12° single bend			Zona
ZON114OV425133					= ZON114OV425 + MTB "S" bend			Zona
ZON114OV425133CR					= ZON114OV425 + Cyclocross "S" bend			Zona
ZON114OV425133E					= ZON114OV425 + Road "S" bend			Zona
ZON114O470VFAT	24	470		0,9	16 x 30	290	12,5	Zona
ZON114OV440	24	440	0,9 (150)	0,6	16 x 30	290	12,5	Zona
ZON114OV440C10					= ZON114OV440 + 10° single bend			Zona
ZON114OV44029					= ZON114OV440 + 29" double bend			29'r
ZON114OV47029***	24	470		0,9	16 x 30	290	12,5	29'r
CRM114OV****	22,2	410		0,8	17 x 26	260	12,5	Cromor
CRM114OV	24	425		0,8	16 x 30	290	12,5	Cromor

(*): Thickness before tapering. (**): Cyclocross "S" bend. (***): Triple bended for 29" tire clearance. (****) Round at the BB - Oval for 320mm from the tip

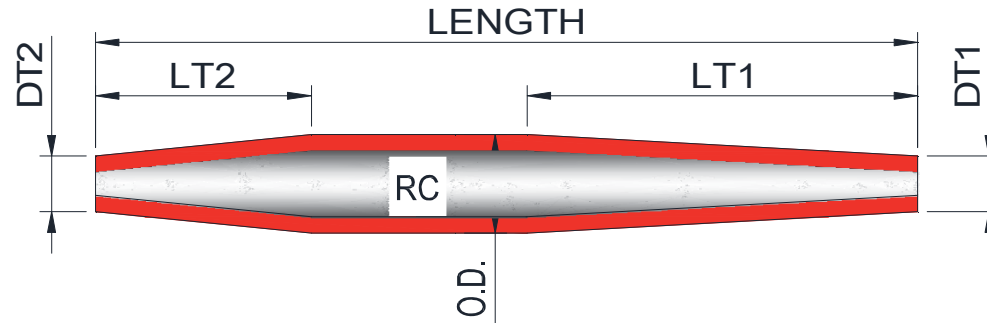
SEAT STAYS



CODE	O.D.	LENGHT	THICKNESS*		DT	FAMILY
			RC	oval LT		
XCR615560	16	560	0,5	80	12,5	XCR
XCR615560133CR			= XCR615560 + Cyclocross "S" bend			XCR
XCRC615560	16	560	0,7	290	12,5	XCR
FCK415600	14	600	0,7	300	10,5	Spirit Keirin
SL0415560	14	560	0,7	300	10,5	SL
SLF715560	17	560	0,5	80	11,8	Life
SLF715560133E			= SLF715560 + Road "S" bend			Life
SLF715560112AI			= SLF715560 + Shape "112AI" 15 x 19 (shaped 230mm from the tip)			Life
SLF715560001112AI			= SLF715560 + Shape "112AI" 15 x 19 (shaped full length)			Life
SLF715OV560	17	560	0,5	12,5 x 20 190	12,5	Life
MAX615OV560	16	560	0,7	12,5 x 18 300	12,5	MAX
ZON615560	16	560	0,7	300	12,5	Zona
ZON615560133			= ZON615560 + MTB "S" bend			Zona
ZON615560133CR			= ZON615560 + Cyclocross "S" bend			Zona
ZON615560133E			= ZON615560 + Road "S" bend			Zona
ZON915560	19	560	0,6	290	12,5	Zona
ZON915560133			= ZON915560 + MTB "S" bend			Zona
ZON915560133CR			= ZON915560 + Cyclocross "S" bend			Zona
ZON915560133E			= ZON915560 + Road "S" bend			Zona
ZON91556029			= ZON915560 + 29" Double bend			29'r
ZON915560FAT	19	560	0,6	290	12,5	Zona
CRM415560	14	560	0,8	300	10,5	Cromor
CRM615560	16	560	0,8	300	12,5	Cromor

(*): Thickness before tapering (**): Double bended for 29" tire clearance

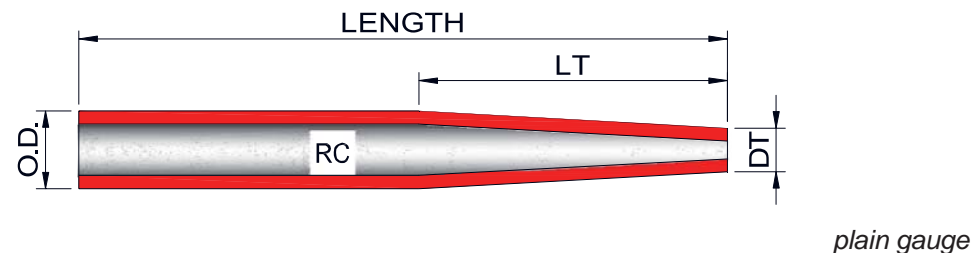
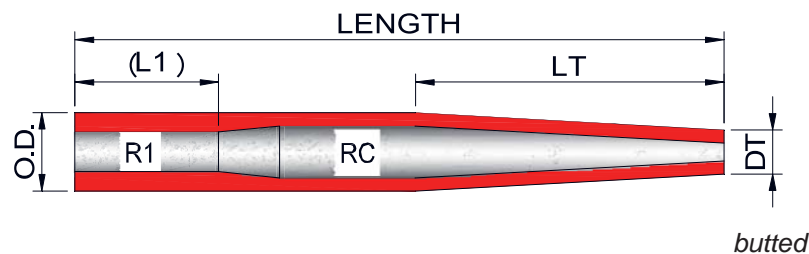
BICONICAL SEAT STAYS



CODE	O.D.	LENGHT	THICKNESS*		DT2	LT2	LT1	DT1	FAMILY
			RC						
SL0415550101	14	550	0,7		10,8	140	300	10,5	SL
SL0415500101	14	500	0,7		10,8	140	300	10,5	SL
SL0615550101	16	550	0,7		10,8	140	300	12,5	SL
SL0615500101	16	500	0,7		10,8	140	300	12,5	SL
CRM415550101	14	550	0,8		10,8	140	300	10,5	Cromor
CRM415500101	14	500	0,8		10,8	140	300	10,5	Cromor
CRM615550101	16	550	0,8		10,8	140	300	12,5	Cromor
CRM615500101	16	500	0,8		10,8	140	300	12,5	Cromor

(*): Thickness before tapering

FORK BLADES



CODE	O.D.	LENGHT	THICKNESS								FAMILY
			R1	RC	R2	oval	L1	T1	LT	DT	
SL0116V1**	24	390		0,9		28x19	100		290	12,5	SL
SL0116T1**	24	390		0,9			100		290	12,5	SL
MAXL16V2390*	28	390	0,9	0,6		***	120	40	230	14	MAX
CRMI16V1*	24	390		0,9		28x19	100		290	12,5	Cromor
CRMI16T1*	24	390		0,9			100		290	12,5	Cromor
CRMI16V1450*	24	450		0,9		28x19	120		290+40	12,3	Cromor
FBRL16U1TDSK	28,6	460	1,2	0,9	1,1 (130mm)		135	40	240	21,2	Disk
FBRL16T480DSK	28,6	480	1,2	0,9	1,1 (130mm)		90	40	240	21,2	Disk
FBRL16T410DSK	28,6	410	1,2	0,9	1,1 (130mm)		100	40	240	21,2	Disk
FBRL16T2DSK	28,6	540	1,2	0,9	1,1 (130mm)		100	40	240	28,6	Disk
FBRI16TDSK	24	430	under development						230	14,5	Disk
FBRI16OVDSK	24	430				28x19			230	14,5	Disk
FBRN16TDSK	25,4	430							230	14,5	Disk
FBRN16OVDSK	25,4	430				28x19			230	14,5	Disk

(*): Thickness before tapering. (**): Laminated fork blade. (***): MAX shape 35,8 x 18,5.

FORK STEERERS

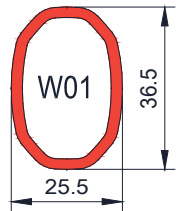
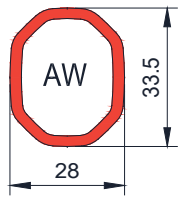
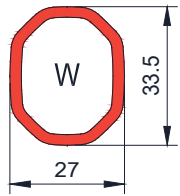
CODE	O.D.	LENGHT	THICKNESS		
			R1	RC	
CRMM17350TL	28,6	350	2,3	1,55	<i>Threadless</i>
BRNI17180	25,4	180	2,3	1,55	<i>Threaded, with helicoidal reinforcement</i>
BRNI17210	25,4	210	2,3	1,55	<i>Threaded, with helicoidal reinforcement</i>
BRNI17240	25,4	240	2,3	1,55	<i>Threaded, with helicoidal reinforcement</i>
BRNI17270	25,4	270	2,3	1,55	<i>Threaded, with helicoidal reinforcement</i>
BRNI17300	25,4	300	2,3	1,55	<i>Threaded, with helicoidal reinforcement</i>
BRNI17320TL	25,4	320	2,3	1,55	<i>Threadless, with helicoidal reinforcement</i>
BRNM17350TL	28,6	350	2,3	1,55	<i>Threadless, with helicoidal reinforcement</i>
GN0M17350TL	28,6	350	2	1,2	<i>Threadless, with Genius oval oriented reinforcement</i>

Sagomature & Curve Shapes & Bends

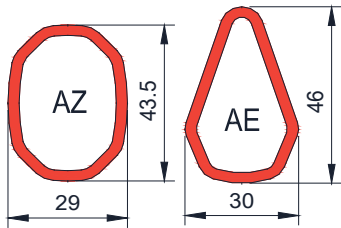


SHAPES

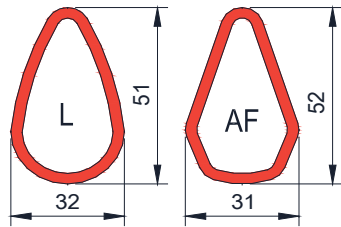
Ø31.7



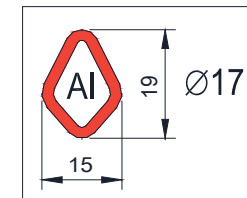
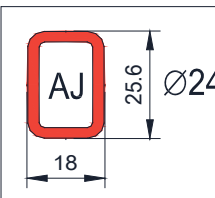
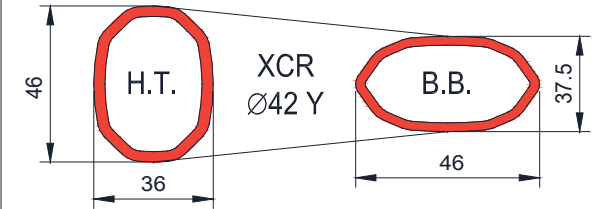
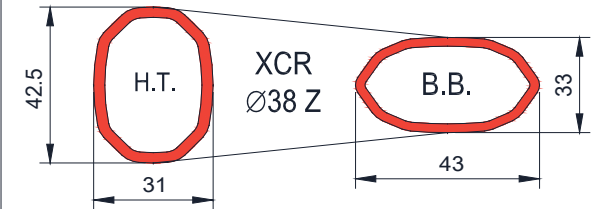
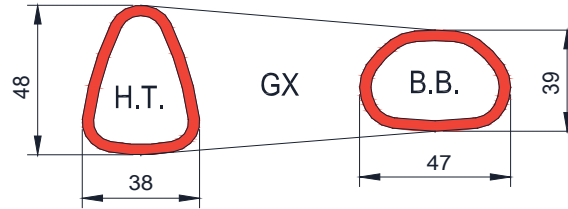
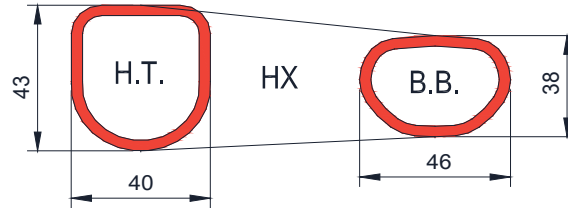
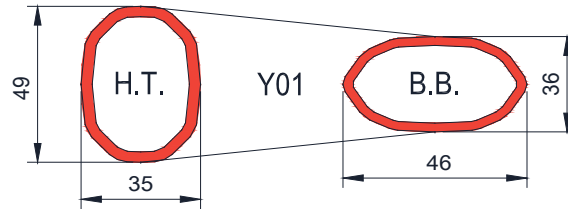
Ø38



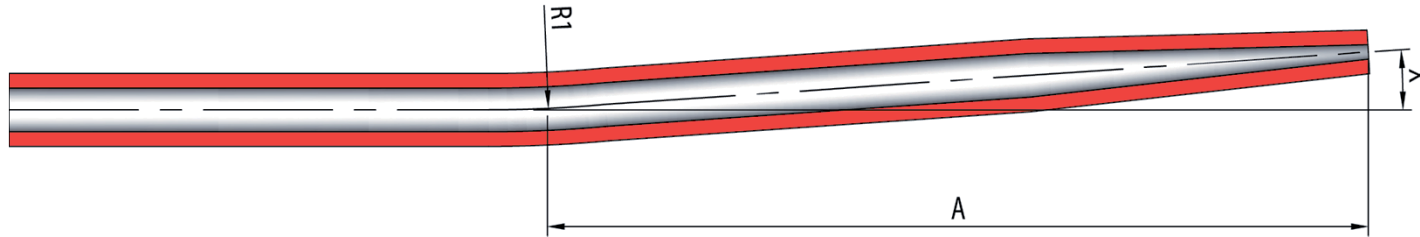
Ø42



HSS Ø44

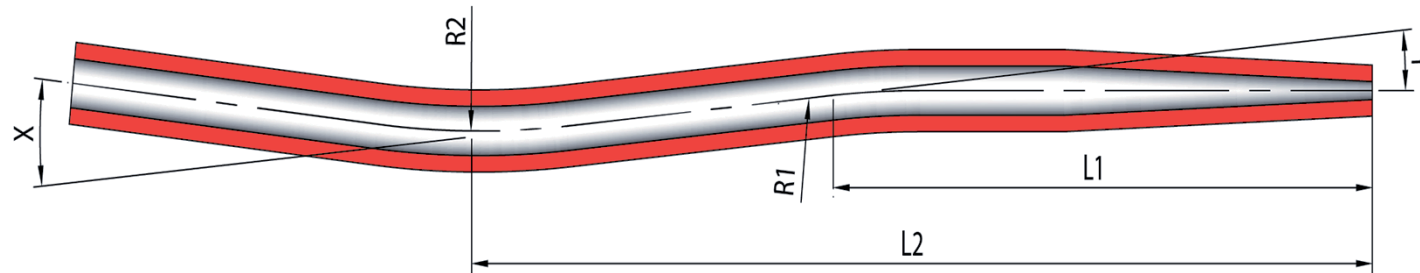


CHAIN STAYS Single Bend



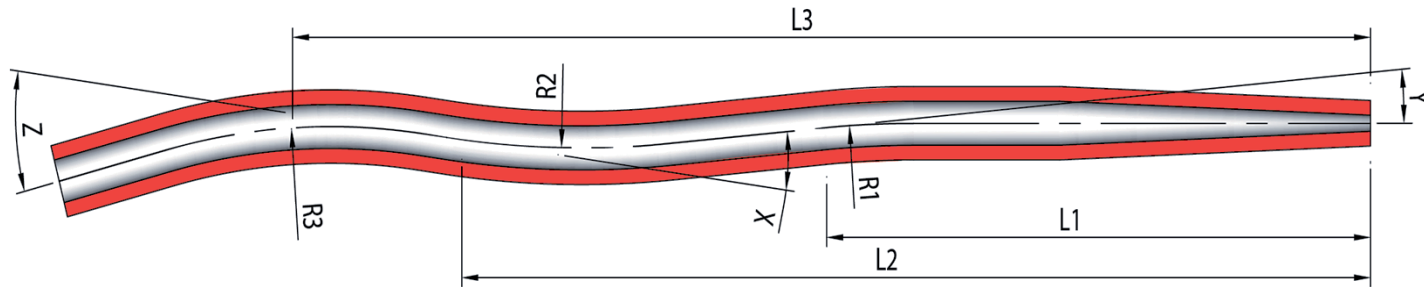
CODE	L1	L2	L3	R1	R2	R3	X	Y	Z	FAMILY
ZON114V10425	300			320			10°			Zona
ZON114V12425	300			320			12°			Zona
ZON114OV440C10	300			320			10°			Zona

CHAIN STAYS double bend



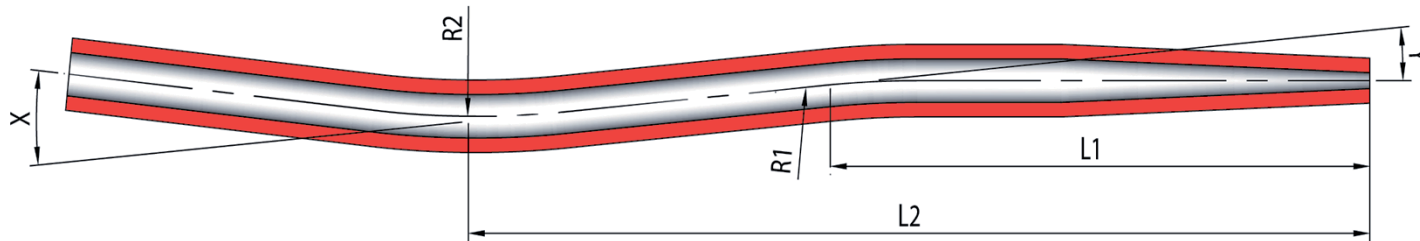
CODE	L1	L2	L3	R1	R2	R3	X	Y	Z	FAMILY
XCR 114OV425133CR**	150	310		320	320		5°	5°		XCR
SLF114OV410133E	150	310		320	320		4°	8°		Life
SLF114OV410133CR	150	310		320	320		8°	8°		Life
SLF114OV4101133E	150	310		320	320		4°	8°		Life
SLF114OV4101133CR	150	310		320	320		8°	8°		Life
ZON114OV425133	150	310		230	230		12°	8°		Zona
ZON114OV425133CR	150	310		320	320		8°	8°		Zona
ZON114OV425133E	150	310		320	320		4°	8°		Zona
ZON114OV44029	150	345		230	230		12°	8°		29'r
ZON114OV470FAT	150	350		230	150		20°	7°		FAT

CHAIN STAYS Triple Bend



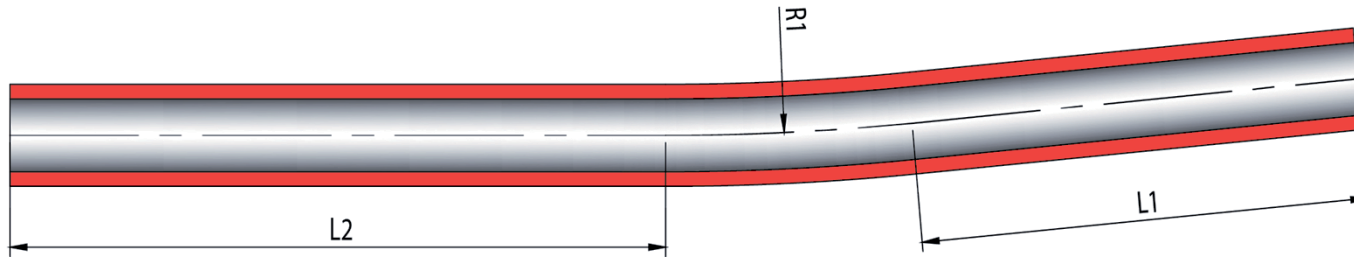
CODE	L1	L2	L3	R1	R2	R3	X	Y	Z	FAMILY
ZON1140V47029	150	330	420	230	230	230	15°	7°	15°	29'r

SEAT STAYS Double Bend



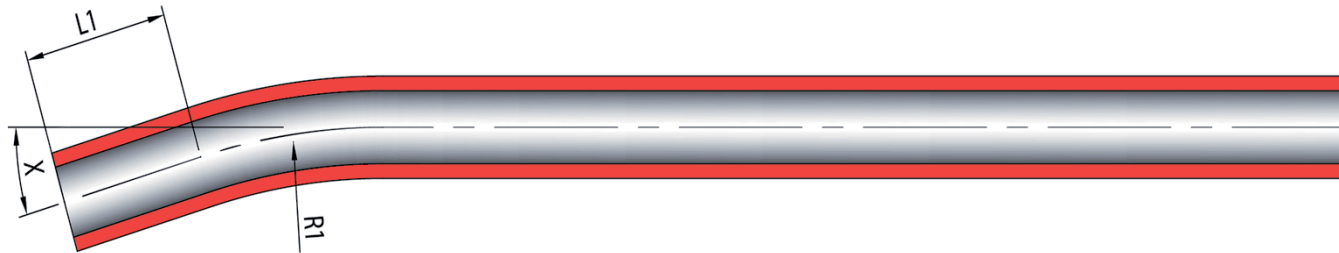
CODE	L1	L2	L3	R1	R2	R3	X	Y	Z	FAMILY
XCR615560133CR	210	335		250	250		8°	8°		XCR
SLF715560133E	210	330		320	320		4°	8°		Life
ZON615560133	220	335		320	320		15°	8°		Zona
ZON615560133CR	210	335		250	250		8°	8°		Zona
ZON615560133E	210	330		320	320		4°	8°		Zona
ZON915560133	220	335		250	250		15°	8°		Zona
ZON915560133CR	210	335		250	250		8°	8°		Zona
ZON915560133E	210	330		250	250		4°	8°		Zona
ZON91556029	220	345		250	250		18°	8°		29'r

SEAT TUBE Single Bend



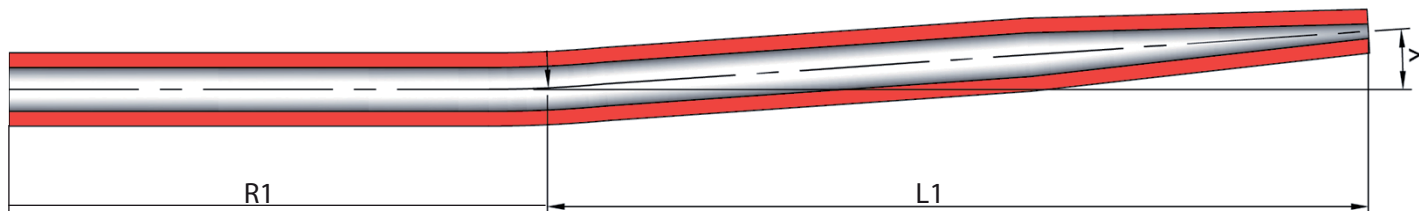
CODE	L1	L2	R1	X	Y	Z	FAMILY
ZON113550110F	290	70 (BB)	800				29'r

DOWN TUBE Single Bend



CODE	L1	R1	X	Y	Z	FAMILY
ZONA12750001110E	30	150	25°			29'r

SEAT STAYS single bend



CODE	L1	R1	X	FAMILY
ZON915560FAT	345	250	18°	FAT



COLUMBUS
 TUBI SPECIALI SUPERBUTTED
 ACCIAIO CYCLEX
 RINFORZI ELICOIDALI
SLX NEW
 TRE TUBI

COLUMBUS
GENIUS
 high m...
 MO...

COLUMBUS
 CYCLEX ALLOY
 Double Butted Tubes Short Butted

COLUMBUS
 Triple Butted Tubes H.T.C.
 High Temperature

COLUMBUS
 SLX
 MONOCOQUE FRAME
 ENDURANCE GEOMETRY
 DESIGNED IN ITALY
carbon
 HMT 700

COLUMBUS
 TUBI SPECIALI RINFORZATI
 ACCIAIO NIVACROM®
MINIMAX
 ELLISSI ORIENTATE

TEL. +39 02 95244.1 - FAX +39 02 95244.239
www.columbustubi.com - info@columbustubi.com

GRUPPO SRL - DIVISIONE COLUMBUS
 VIA G. DIVITTORIO, 21 - 20090 CALEPIO DI SETTALA (MI) ITALY