



TECHNICAL MANUAL

SUPER RECORD 13 WIRELESS

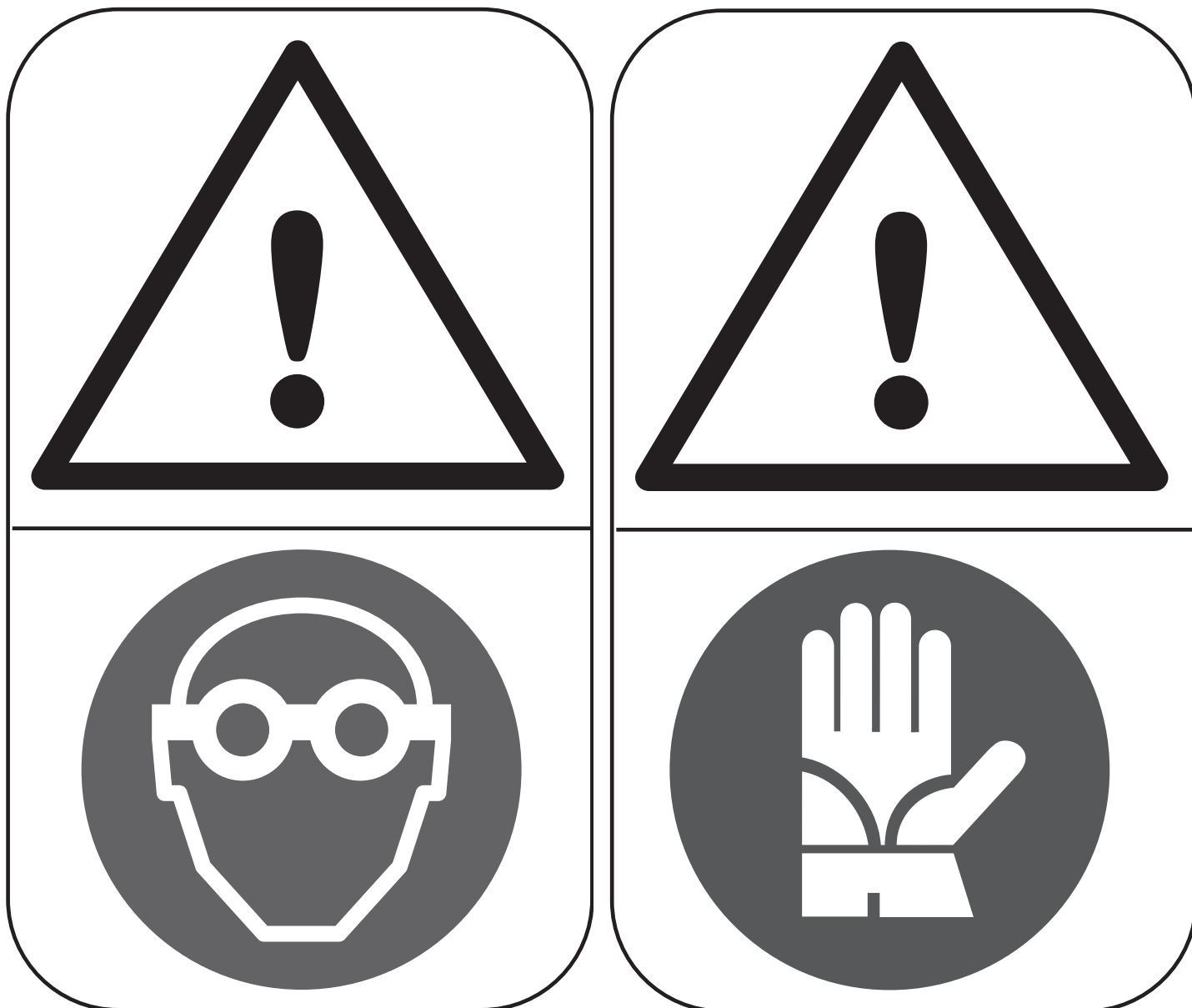
PROCEDURES

SPECIFICATIONS AND INTERFACE
FRAME / HANDLEBAR

Campagnolo[®]

CAUTION!

ALWAYS wear protective gloves and glasses while working on the bicycle.



THIS TECHNICAL MANUAL IS INTENDED FOR USE BY PROFESSIONAL MECHANICS.

Anyone who is not professionally qualified to assemble bicycles should not attempt to install and operate on the components because of the risk of carrying out incorrect operations that could cause the components to malfunction with the consequent risk of accidents, physical injury or even death.

The actual product may differ from what is illustrated, as the specific purpose of these instructions is to explain the procedures for using the component.

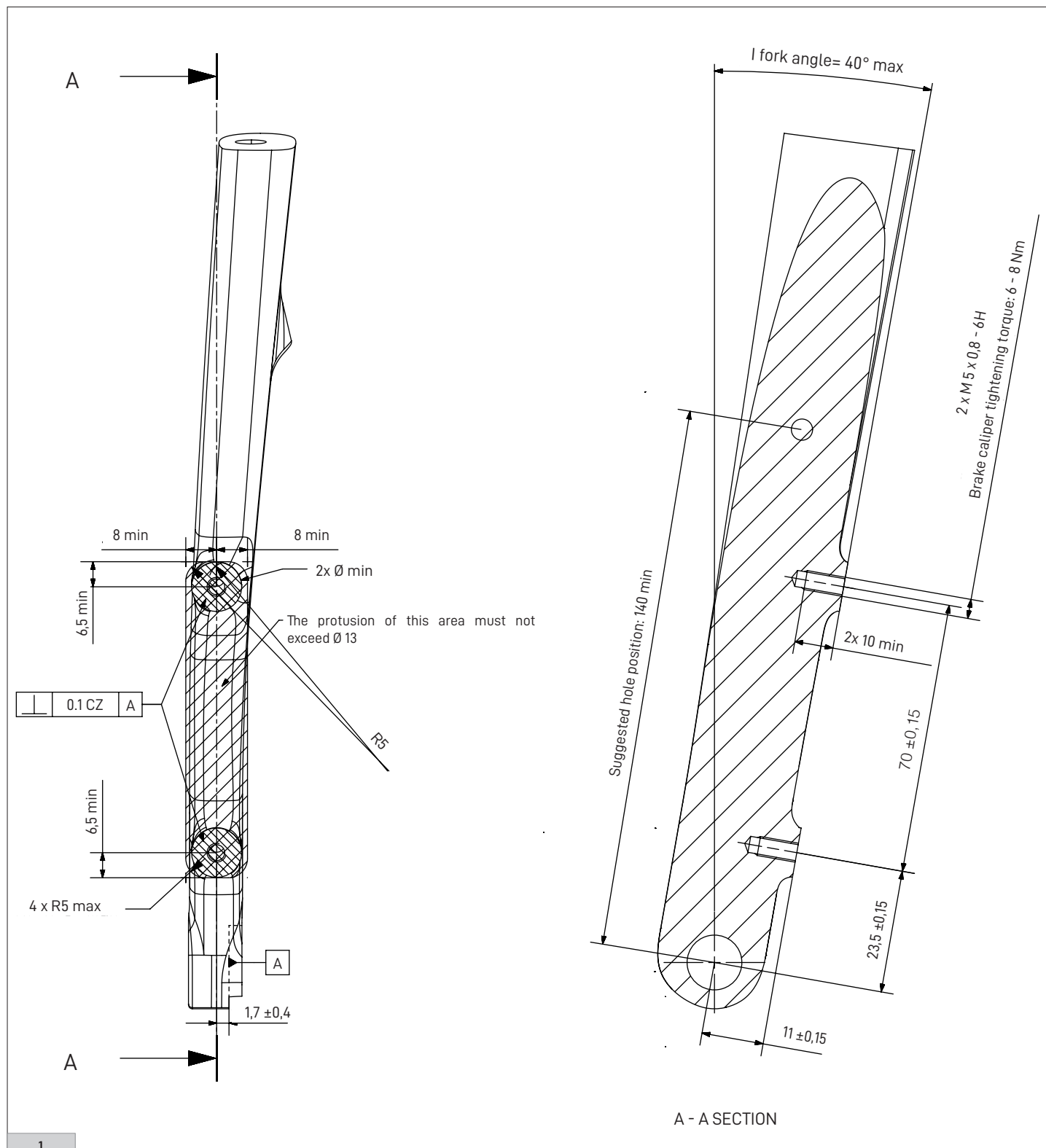


FRAME / HANDLEBAR SPECIFICATIONS AND INTERFACE

1 - PREPARING THE FRAME / FORK SPECIFICATIONS

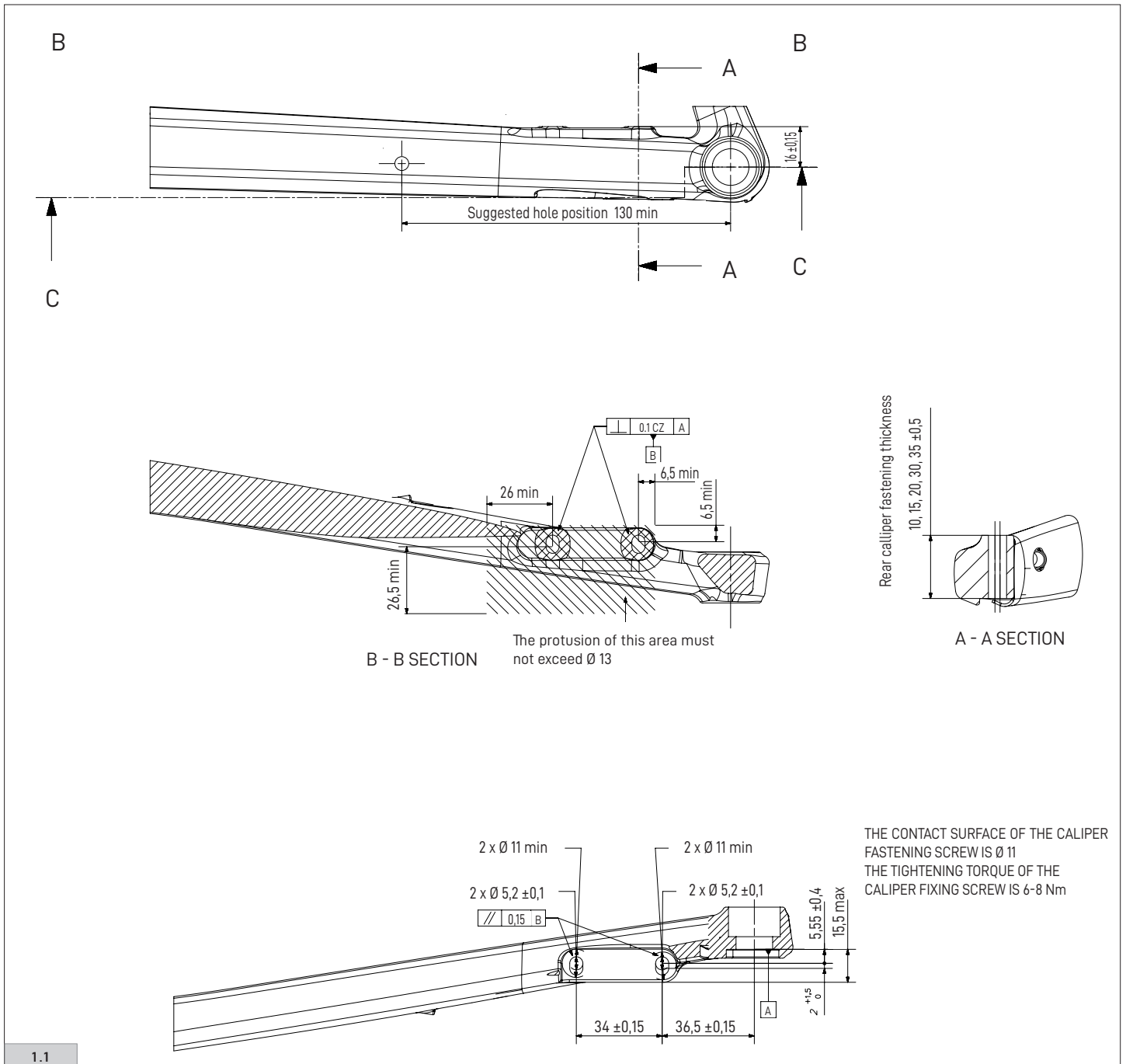
1.1 - FORK SPECIFICATIONS FOR THE FRONT CALIPER

- Remove all traces of paint from the areas where the calipers are to be installed on the fork and the left-hand chain stay. Also remove all traces of paint from the bottom part of the holes on the chain stay, where the rear caliper screw heads rest (Fig. 1 / Fig. 1.1).



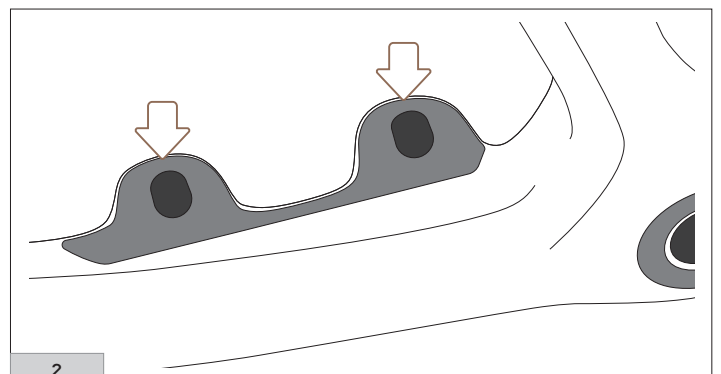
Note: where not specified, all measurements are expressed in millimetres.

1.2 - LEFT-HAND CHAIN STAY FOR REAR CALIPER



Note: where not specified, all measurements are expressed in millimetres.

- Using the frame cutter tool make sure the calliper contact surface on the fork and the left-hand chain stay are perpendicular to the discs, grinding the frame if necessary in order to achieve this (Fig. 2).



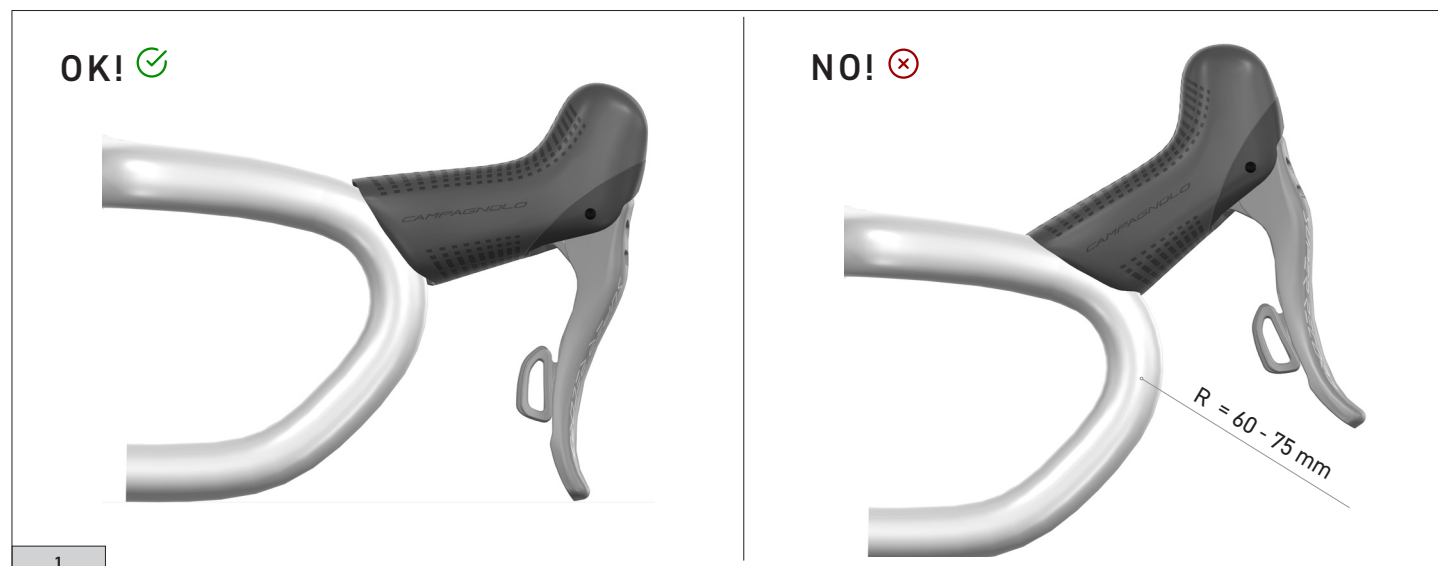
2 - ERGOPOWER CONTROL LEVERS

2.1 - INTERFACE WITH HANDLEBAR FOR ERGOPOWER CONTROL LEVERS



WARNING!

Control levers incorrectly attached to the handlebar could cause accidents or physical injury or death.

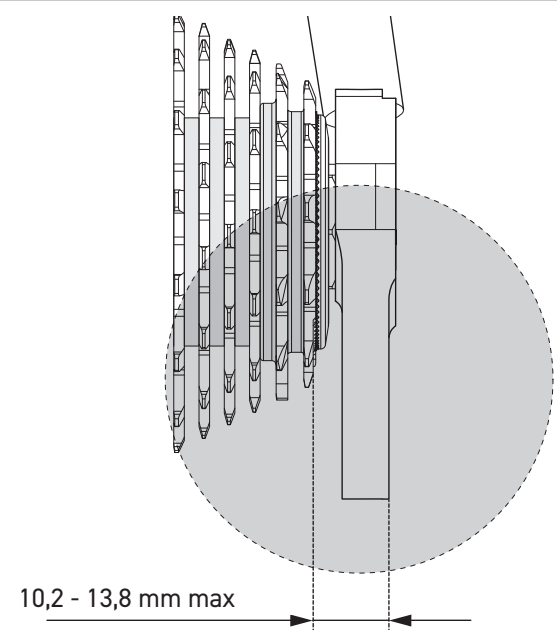


- Do not lodge the upper part of the command in the rectilinear section of the handlebar (Fig. 1).
- Lodge the command in the curved section measuring $R = 60 - 75 \text{ mm}$ with a diameter $= 23.8 - 24.2 \text{ mm}$ (including any ovalization) to guarantee more effective fastening (Fig. 1).

WARNING: Make sure that the curved section of the handlebar where the command is to be fixed, has a sufficiently rough surface to ensure a better grip.

3 – REAR DERAILLEUR

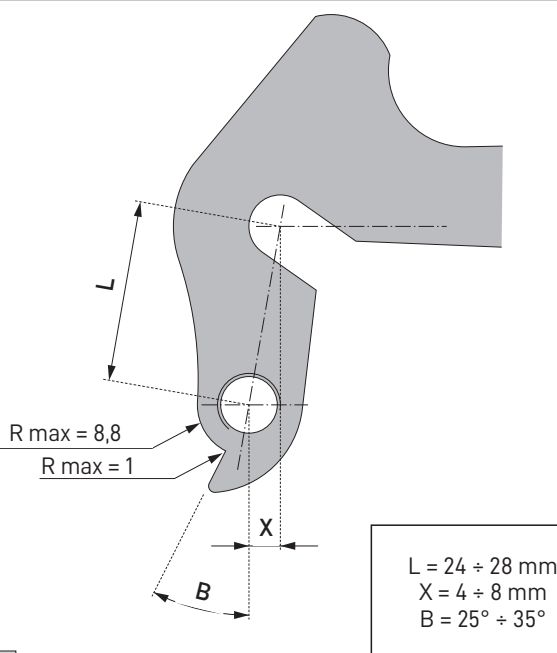
3.1 – STANDARD DROP-OUTS SPECIFICATIONS



10,2 - 13,8 mm max

1

The travel of the jockey cage in function of the cable pull is checked by Campagnolo Quality for each piece produced. The distance of the rear derailleur hanger from the first sprocket influences this travel, therefore it is necessary to remain within the tolerance limit specified on the drawing (Fig. 1).



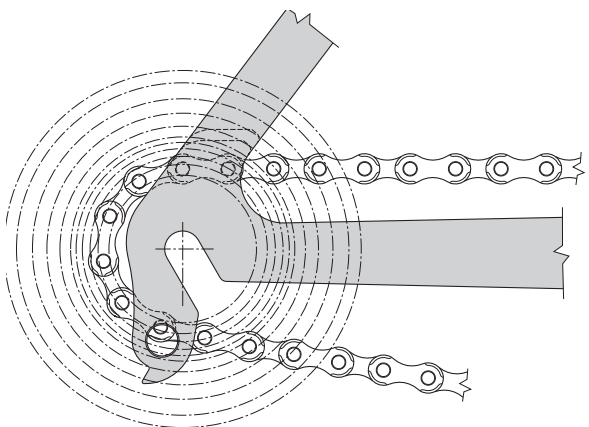
L
 $R \text{ max} = 8,8$
 $R \text{ max} = 1$
 X
 B

$L = 24 \div 28 \text{ mm}$
 $X = 4 \div 8 \text{ mm}$
 $B = 25^\circ \div 35^\circ$

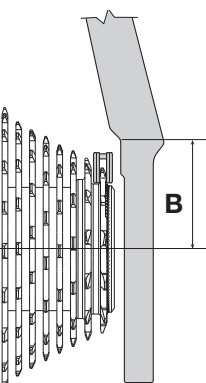
2

CAUTION!

Campagnolo® rear derailleurs are designed to function with drop-outs produced according to the specifications in Figure 2. For your safety and the functionality of the drivetrain, make sure that the drop-out on your bicycle complies with these specifications. If you are not sure, have your bicycle inspected by a specialised mechanic before using it. Drop-outs outside of these specifications cause a loss, also significant, of functionality.



B

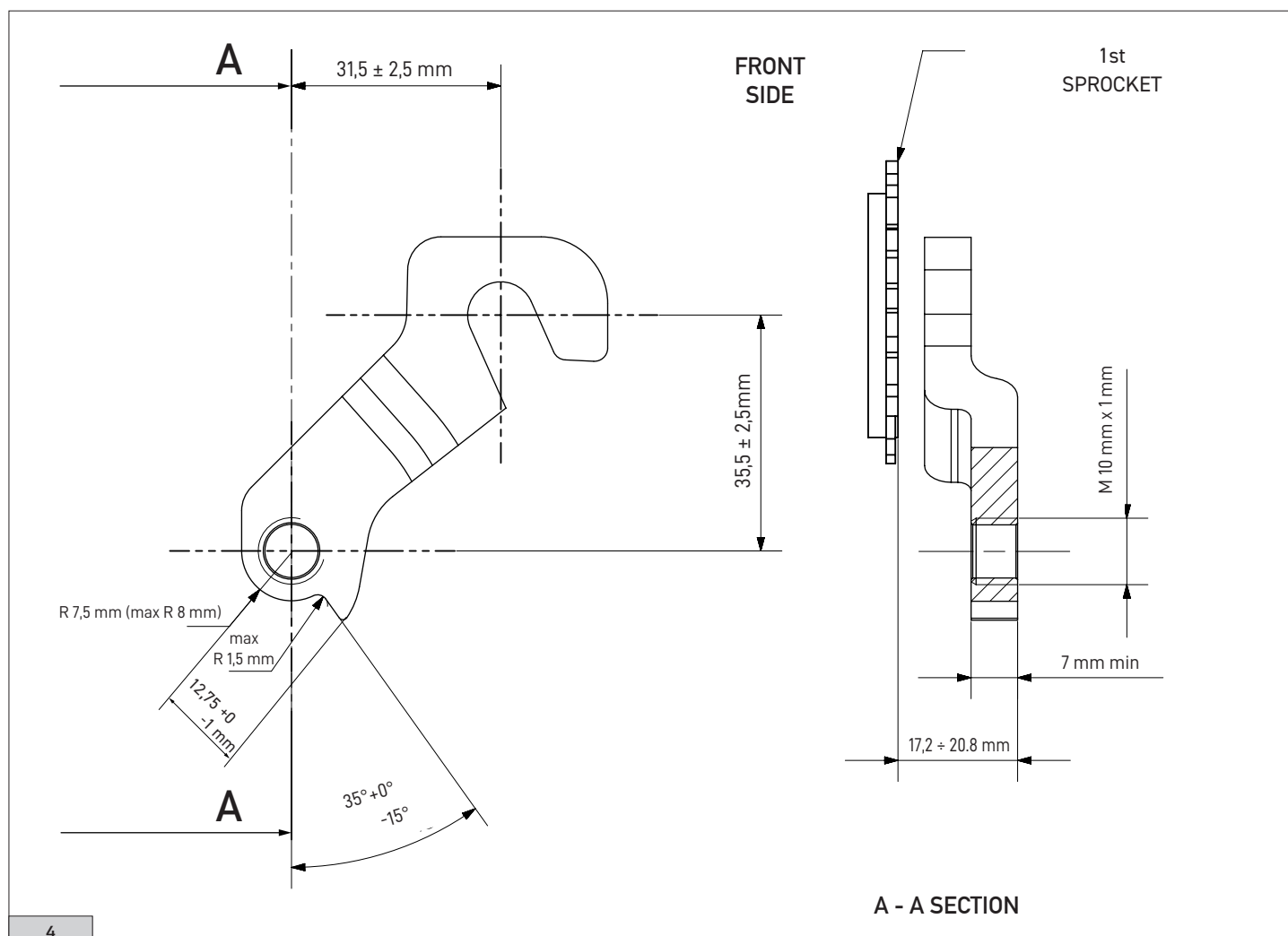


B

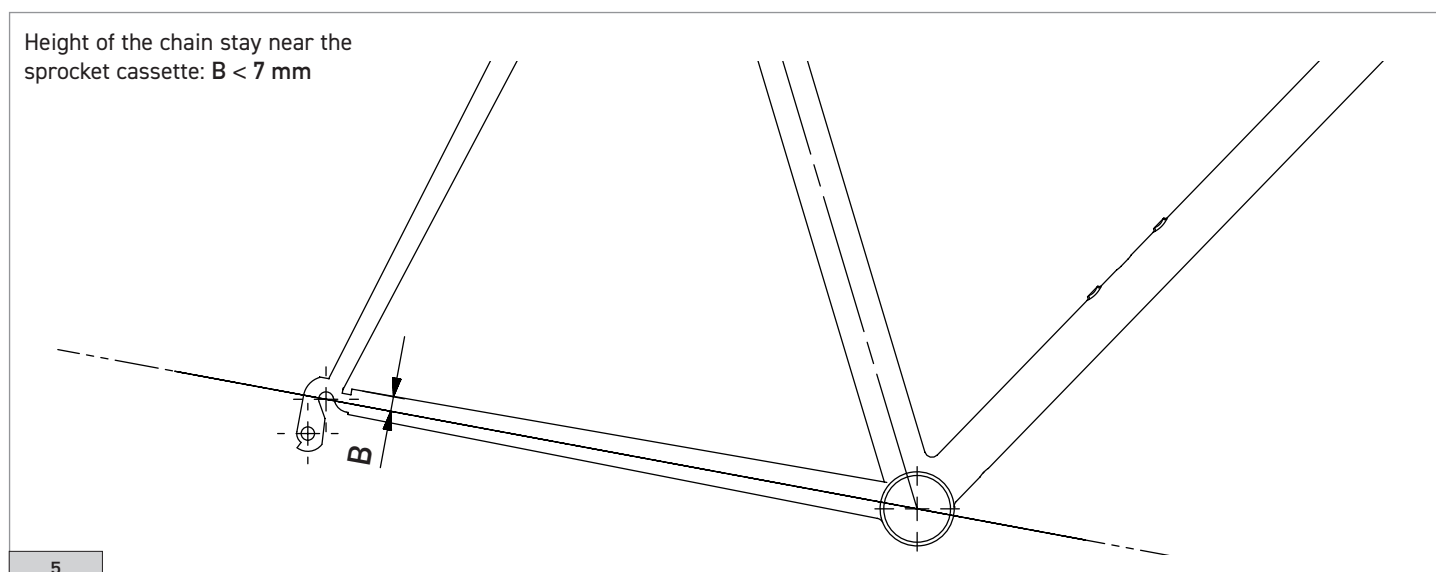
TEETH NO.	B (Fig. 3)
Z 10	30 mm
Z 11	30 mm
Z 12	30 mm
Z 13	32 mm

3

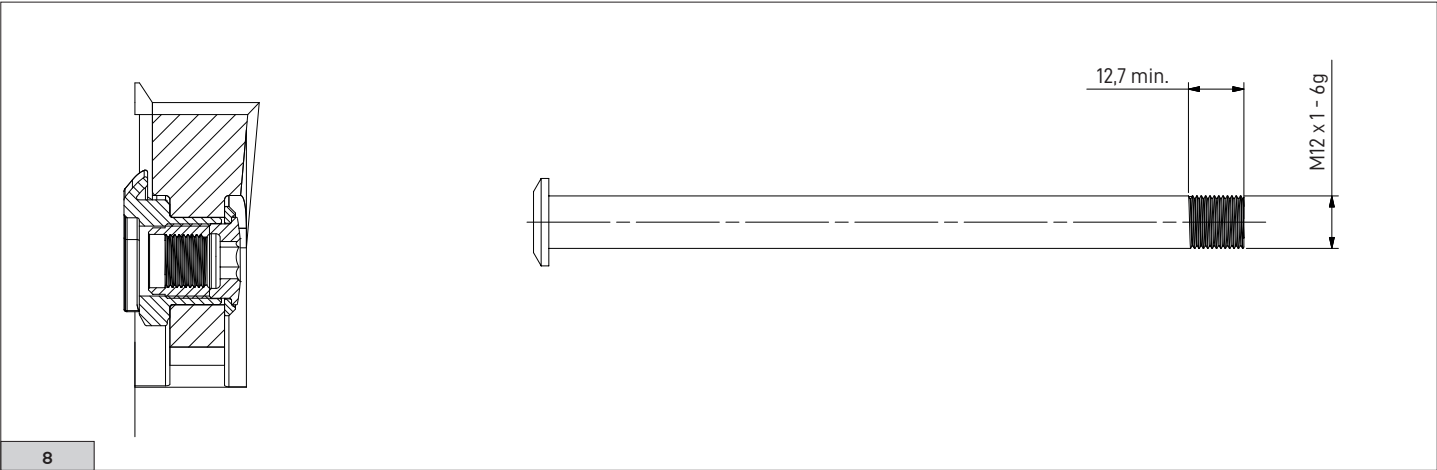
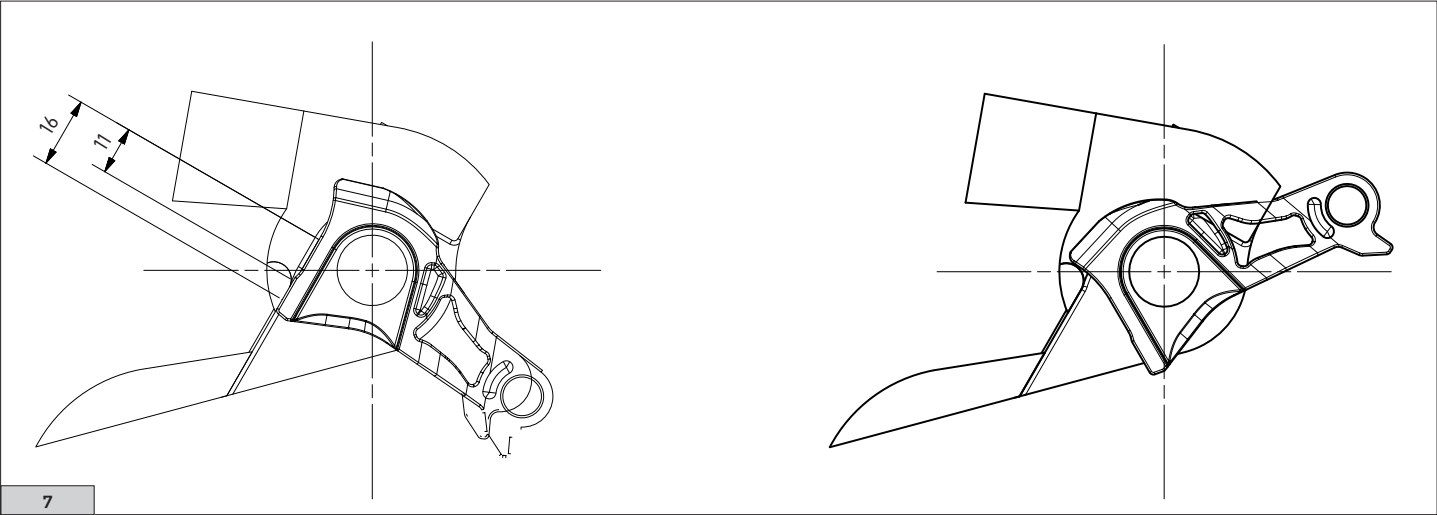
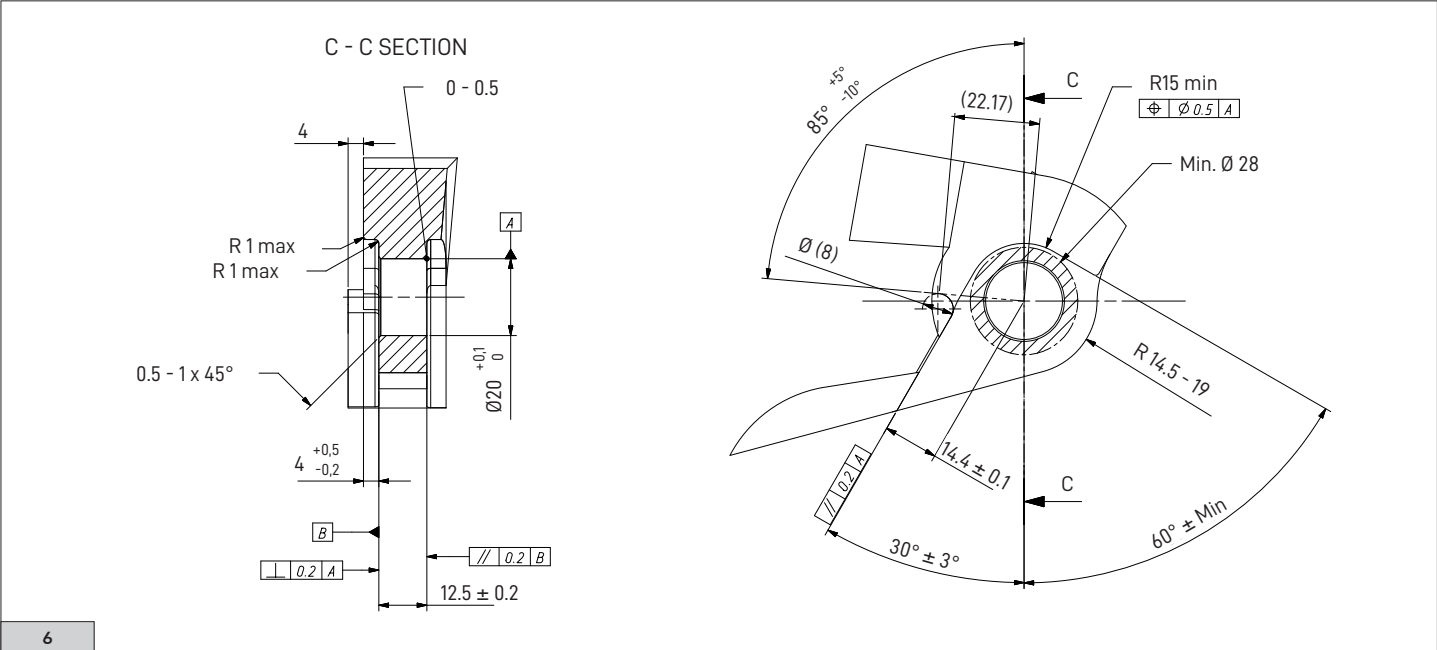
3.2 - DIRECT MOUNT DROP-OUTS SPECIFICATIONS



3.3 -FRAME SPECIFICATIONS FOR STANDARD DROP OUT / DIRECT MOUNT

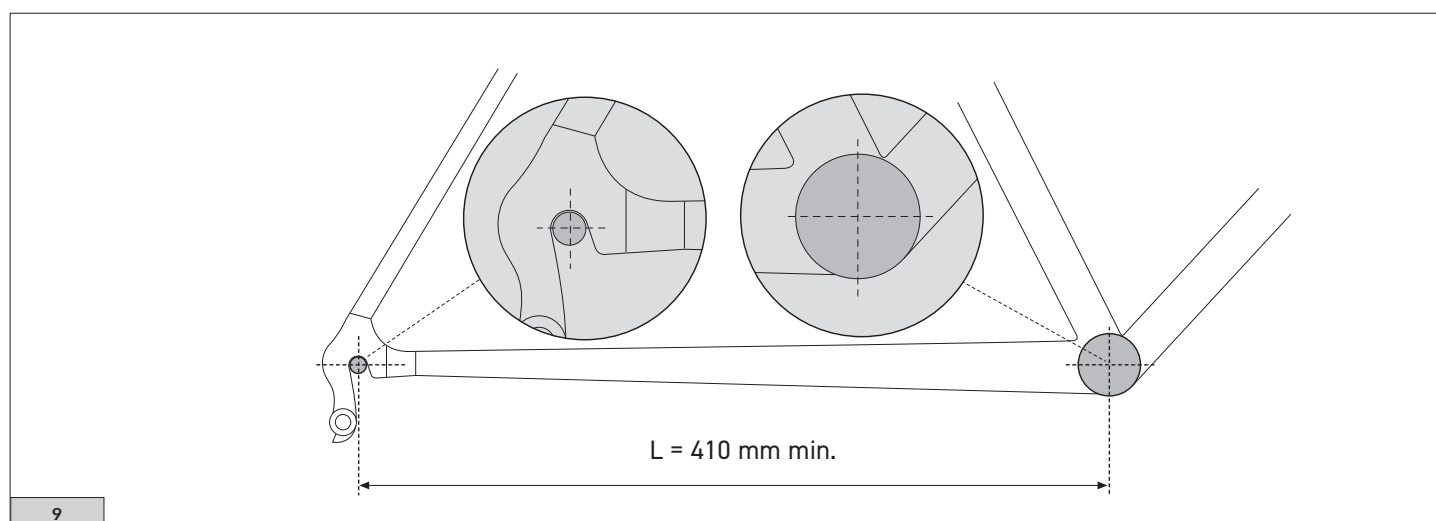


3.4 - UDH FRAME SPECIFICATIONS



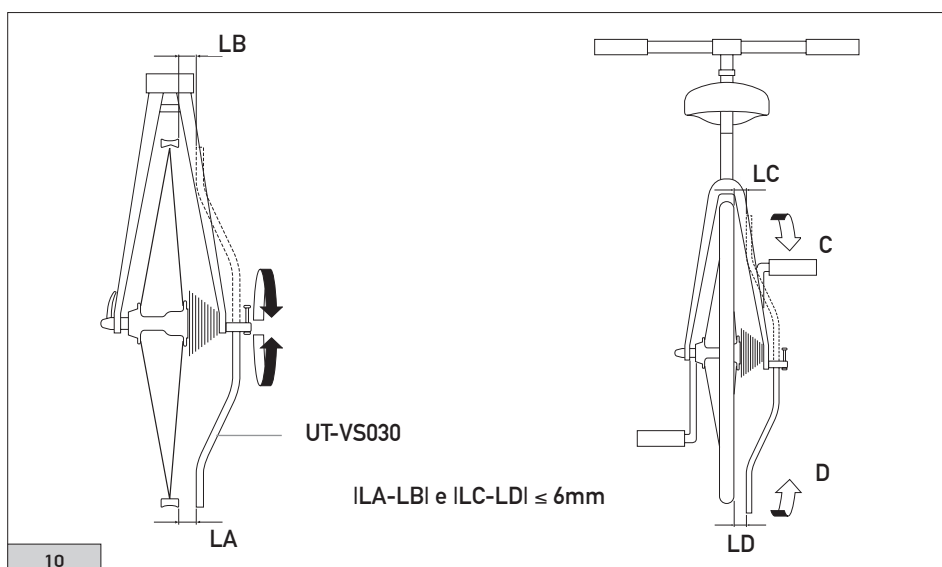
Note: where not specified, all measurements are expressed in millimetres.

3.5 - MINIMUM CHAINSTAY LENGTH



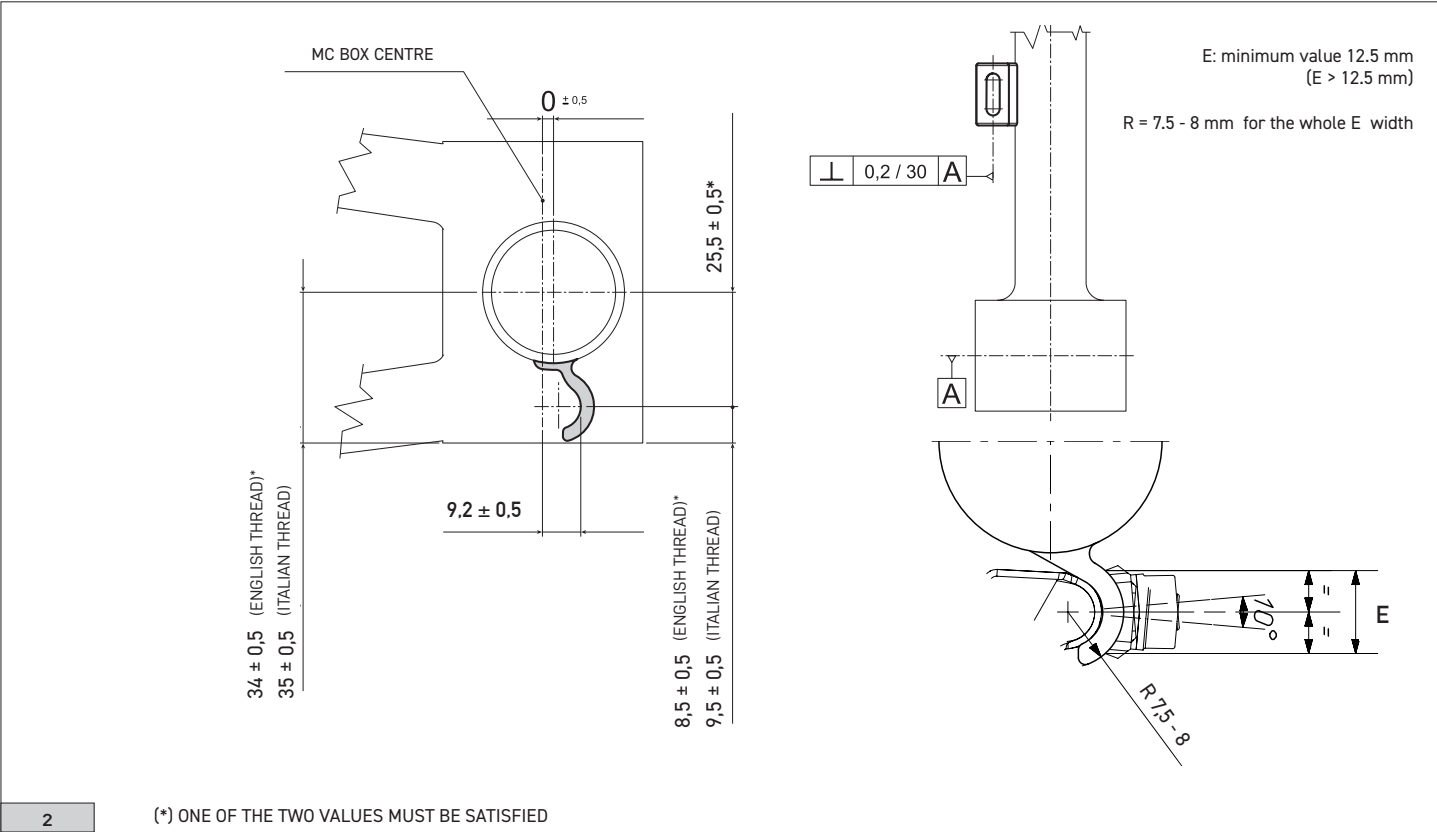
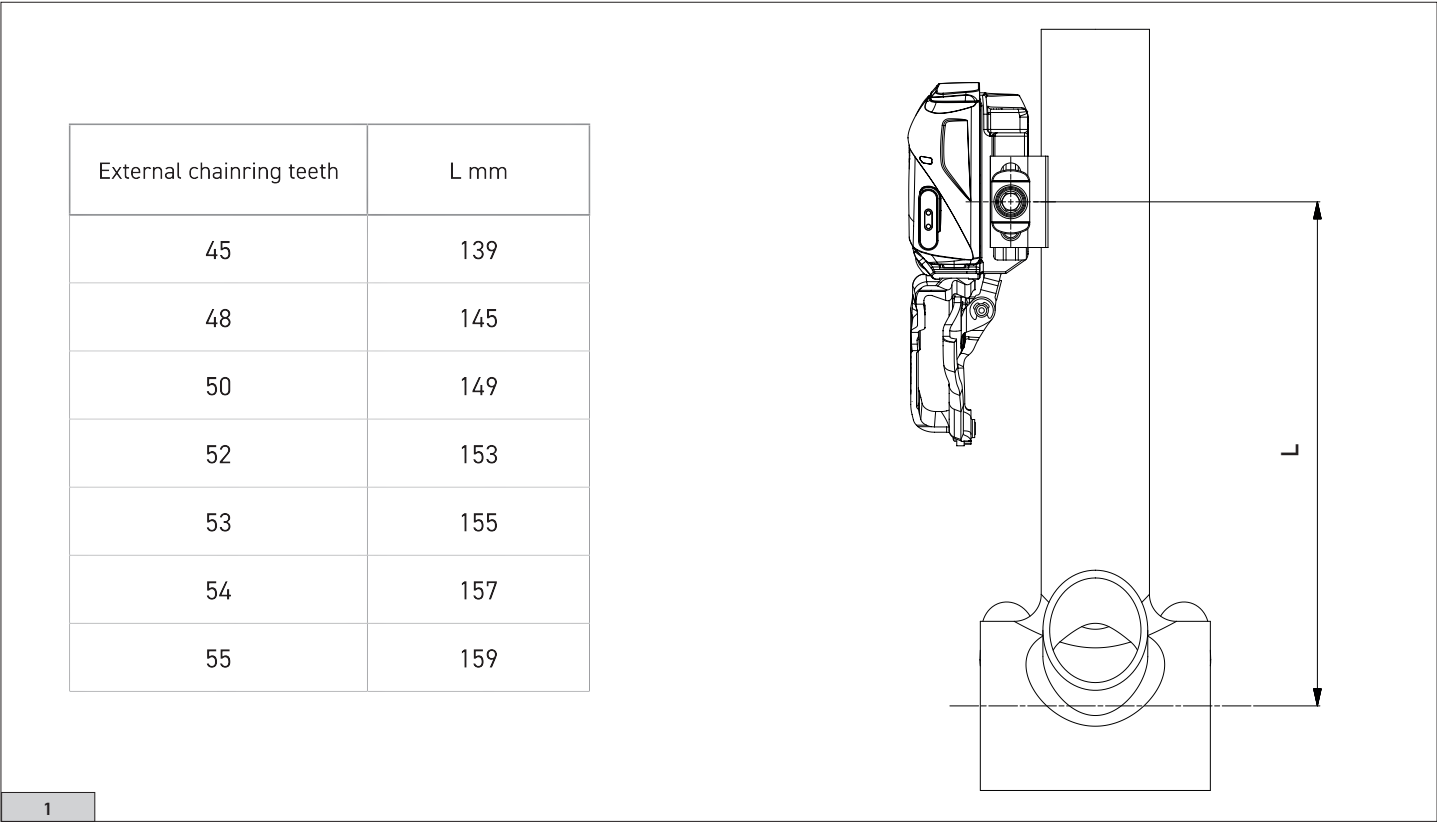
3.6 - PREPARING THE FRAME

! Check and if necessary adjust the alignment of the rear derailleur hanger, using only the Campagnolo® tool UT-VS030 (Fig. 5). Never straighten the drop-out with the rear derailleur installed because you could damage the drop-out itself and cause irreversible damage or loss of functionality to your rear derailleur.

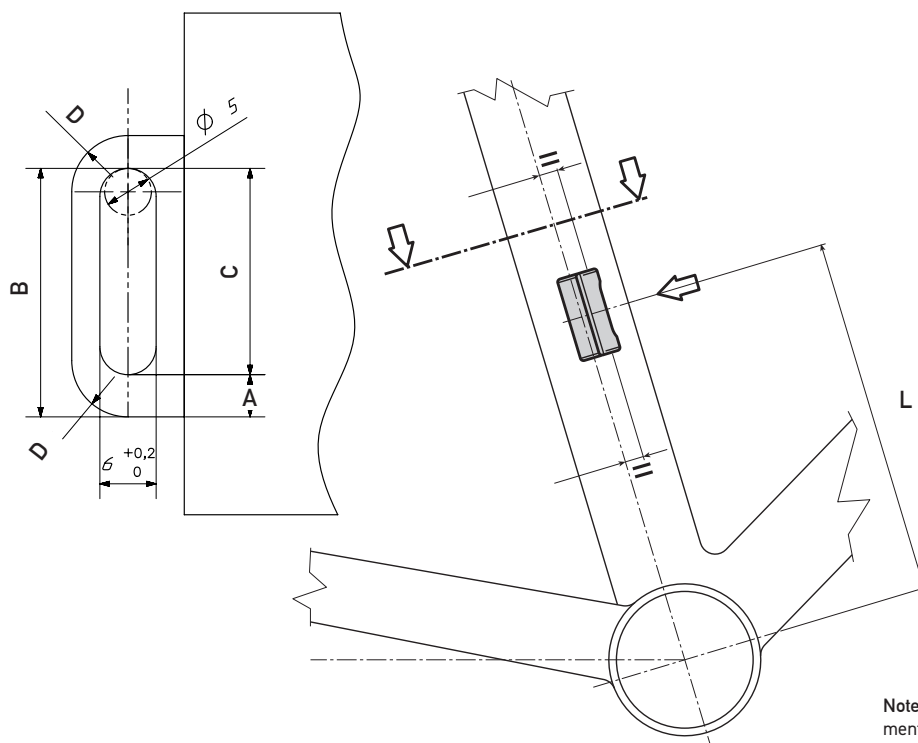


4 – FRONT DERAILLEUR

4.1 – BRAZED ON VERSION



Note: where not specified, all measurements are expressed in millimetres.



Note: where not specified, all measurements are expressed in millimetres.

3

In order to have compatibility with all the chainrings indicated in table 1, the following measurements must be observed:

C: minimum value 22 mm ($C > 22$ mm) - B: maximum value 27 mm ($B < 27$ mm) - A: maximum value 5 mm.

Increasing the dimensions of the slot, in other words, the C value, and therefore decreasing A, the compatibility of the chainrings can be increased beyond the indications in figure 1.

4.2 - CLAMP-ON VERSION

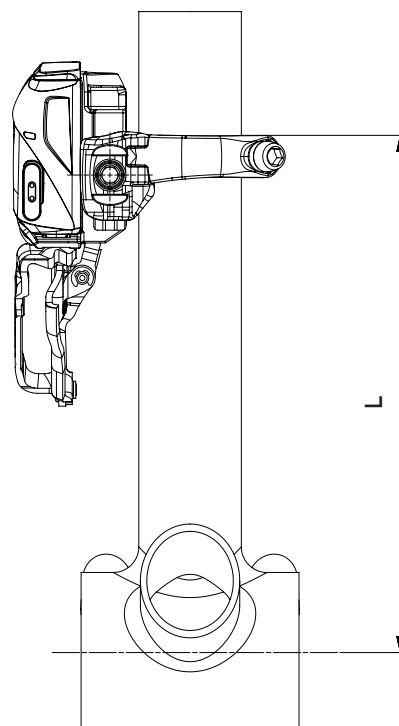
WARNING

For frames with a 35 mm hose diameter, use only Campagnolo clamp-ons, code DC12-SR5B.

External chainring teeth	L mm
45	153
48	159
50	163
52	167
53	169
54	171
55	173

WARNING

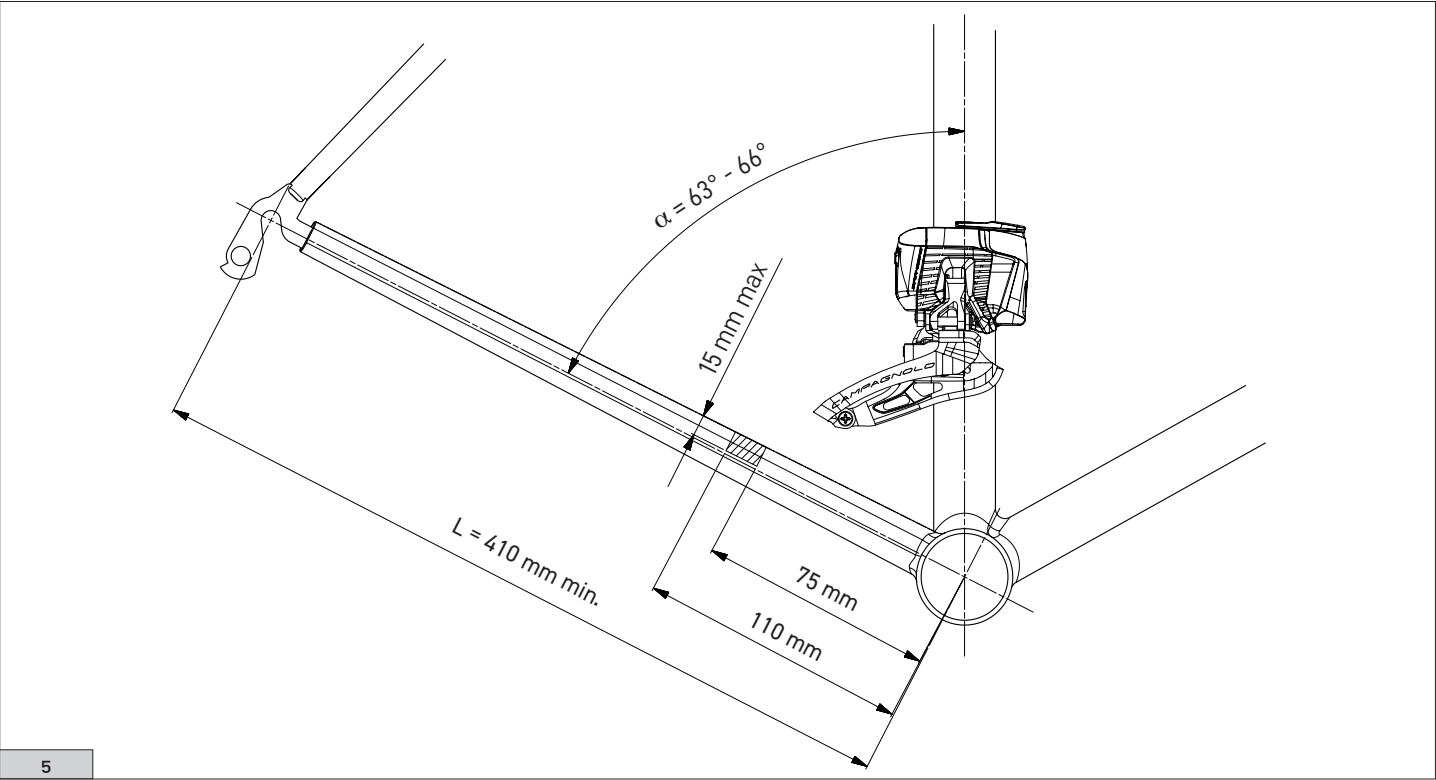
Leave the frame in the area corresponding to L free.



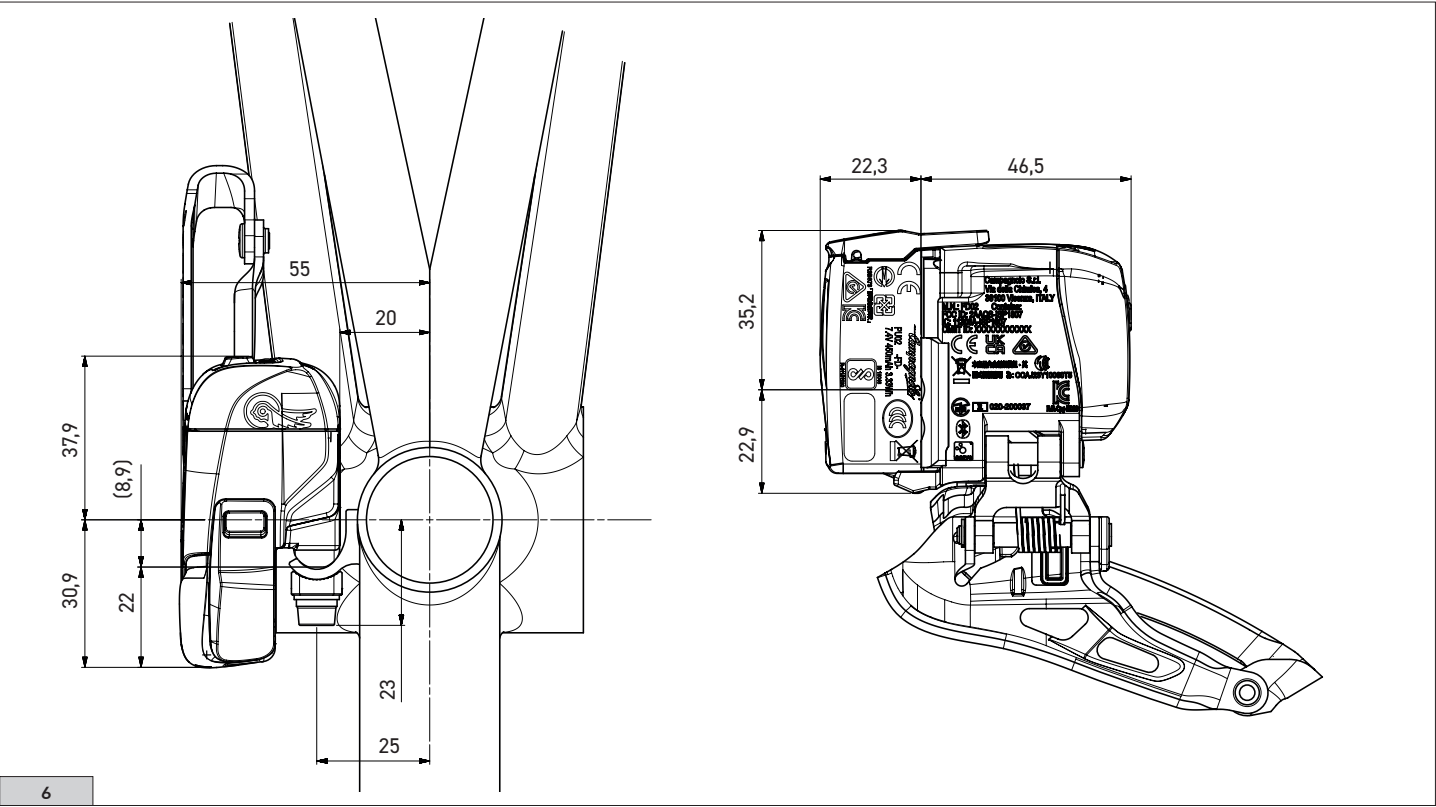
4

4.3 - SHEATHS SIZING

α = virtual angle between seat tube passing through front derailleur mount and lower drop-outs
L = lower drop-outs length
The graph assumes that the front derailleur fixing screw axis is perpendicular to the axis of the seat tube.



4.4 - FRONT DERAILLEUR DIMENSIONS



Note: where not specified, all measurements are expressed in millimetres.

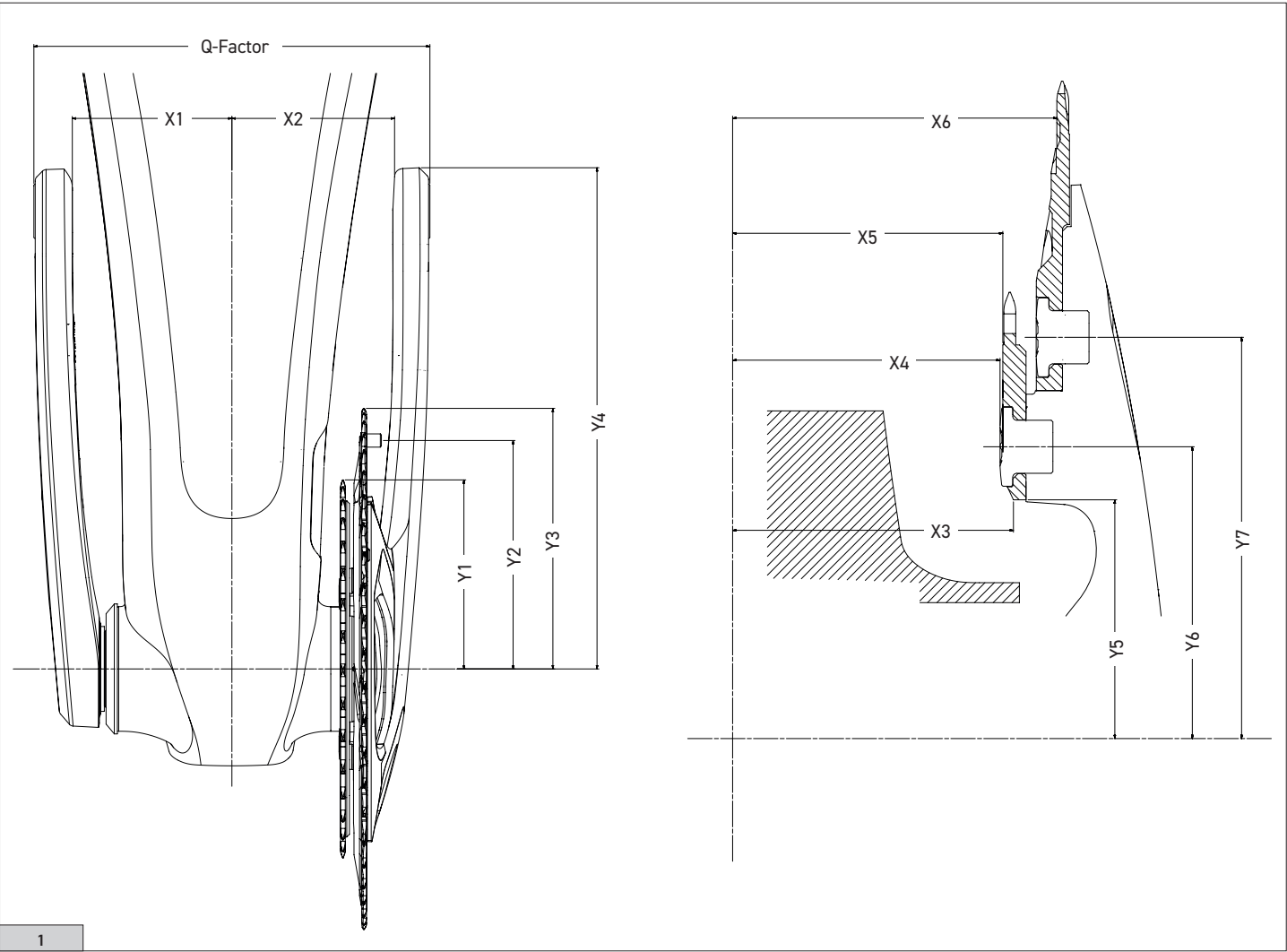
5 – CRANKSET

5.1 – OVERALL DIMENSIONS FOR THE QCK-TECH 2x13s CRANKSETS (with and without Power Meter)



WARNING!

The 13s cranksets are compatible SOLELY AND EXCLUSIVELY with 13s wireless groupsets.

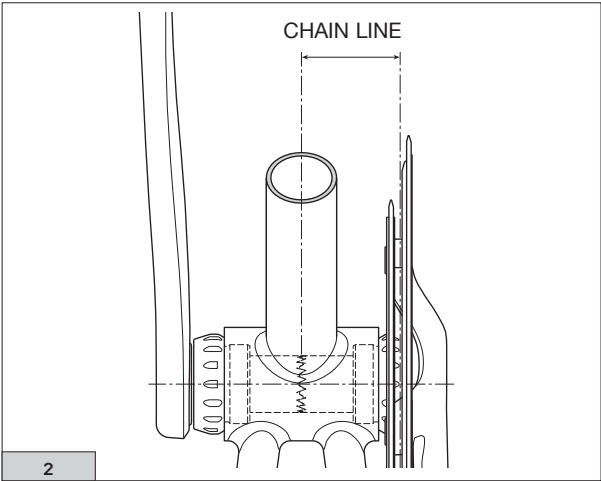


Note: where not specified, all measurements are expressed in millimetres.

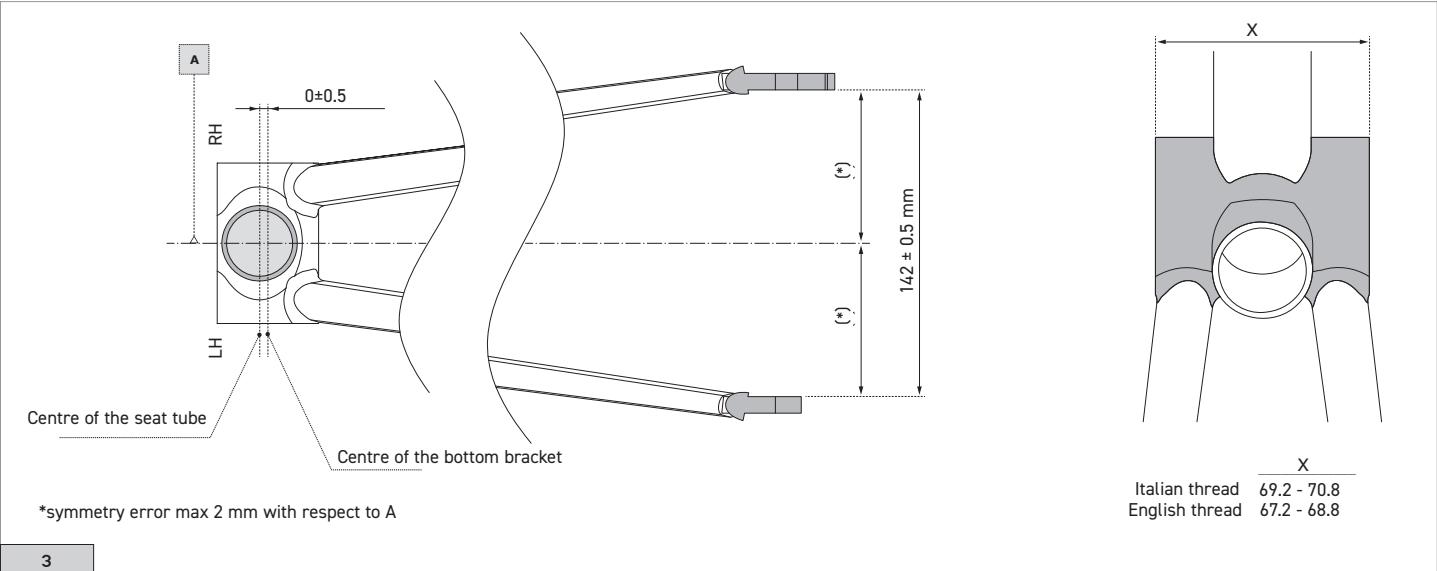
Crankset	X1	X2	X3	X4	X5	X6	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Q-Factor
55 - 39	59	59,5	42	40	41,1	48,9	81,5	101,5	112,5	191,5	36	44	60,5	148,5
54 - 39								97,5	110,5					
108,5														
52 - 36							75,5	94,5	106,5					
50 - 34							71,5	91,5	102,5					
48 - 32							67,5	86,0	98,5					
45 - 29							61,5	81,0	92,5					

5.2 - MEASUREMENT OF THE CHAIN LINE

Chain line for double crankset: 45.8 mm (Fig.2)



5.3 - OVERALL DIMENSIONS FOR THE QCK-TECH 13s CRANKSETS



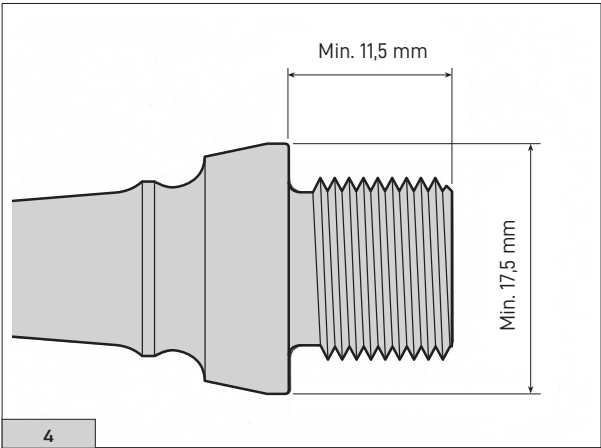
5.4 - PIVOT PEDAL COMPATIBILITY

WARNING!

Do not put washers between the pedal axle and hand crank as they would give rise to abnormal tensions in the interface area. Such tensions could lead to premature breaks and be the cause of accidents, physical injuries or even death. The stop chain ring of the pedal pivot must respect the dimensions indicated in Fig.4. These conditions are necessary to minimise the possibility of abnormal tensions in the hand cranks. Such tensions could lead to premature breaks and be the cause of accidents, physical injuries or even death.

NOTE

Q-factor: 145.5 mm (nominal value).

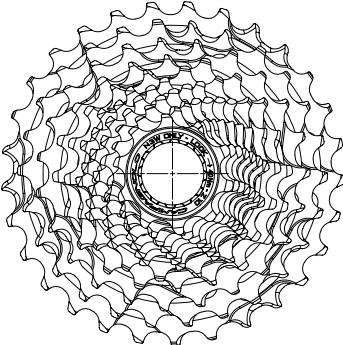
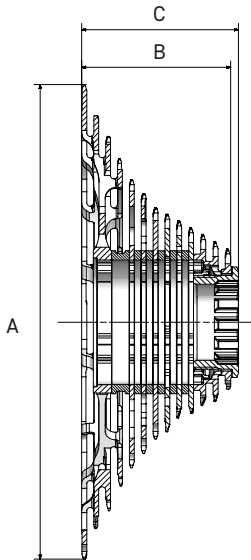


PEDAL THREAD

9/16x20 TPI

6 - 13s SPROCKETS

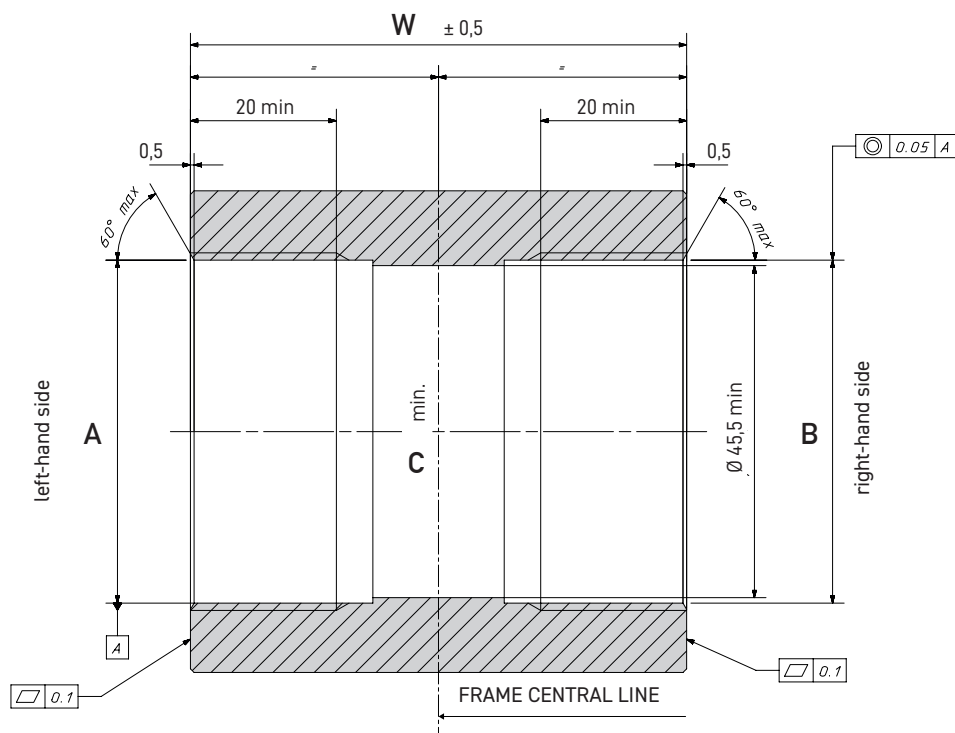
6.1 - TECHNICAL SPECIFICATIONS AND COMPATIBILITIES

MIN. SPROCKET	10	
MAX. SPROCKET	36	
BODY	N3W	
CHAIN	13s C-LINK	
	13s ULTRA-LINK	
FASTENING RING NUT	Z10-Z11 per N3W	

SPROCKETS	A (mm)	B (mm)	C (mm)
10-29	118,5	42,10	44,30
10-33	134,55	42,10	44,30
11-32	130,55	42	44,20
11-36	146,65	42	44,20

7 - QCK-TECH CUPS

7.1 - BOTTOM BRACKET FOR THREADED CUPS

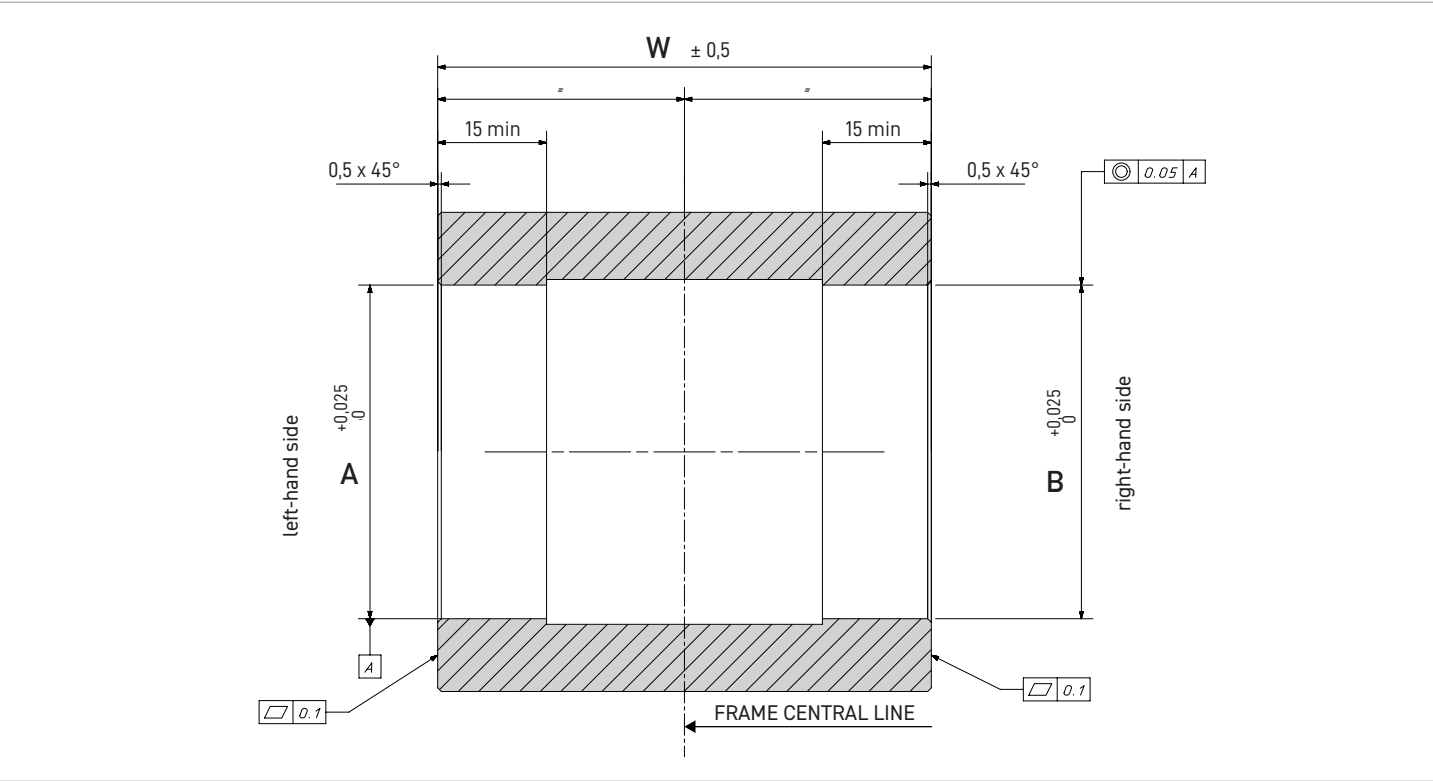


Note: where not specified, all measurements are expressed in millimetres.

MODEL	W	A	B	C
ITA	70	36 mm x 24 TPI R.H.		33
BSA	68	1,37"x24 TPI R.H.*	1,37"x24 TPI L.H.*	33
T47 x 86	85,5	47 x 1M - RH	47 x 1M - LH	45,5
T47 x 68	68	47 x 1M - RH	47 x 1M - LH	45,5
T47A (asymmetrical)	76,75**	47 x 1M - RH	47 x 1M - LH	45,5
Ref. JIS B 0225				

Note**: 42.75 mm on the left and 34 mm on the right

7.2 – BOTTOM BRACKET FOR PRESS-FIT CUPS



Note: where not specified, all measurements are expressed in millimetres.

MODEL	W	A	B
BB86	86,5	41	41
PF30	68	46	46
BB386	86,5	46	46
BB Right	79	46	46
BB30	68	42	42