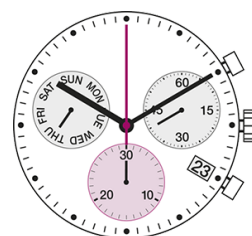
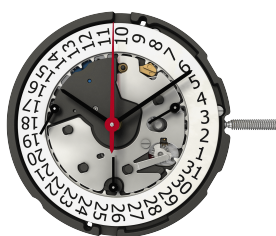


RONDA xtratech Z Series

13¼" Chronos with 2 & 3 eyes

Caliber Z60 – 13¼"



Product Specifications

Analog quartz movement

Line xtratech

Caliber Z60

Size 13¼"

Version Swiss Made 0 Jewels / nickel plated
Swiss Parts 0 Jewels / nickel plated

Standard battery life 50 months

Hand fitting height 1

Features

- Repairable movement with metal main plate and bridges
- Very long battery life
- Power saving mechanism with pulled out stem: Reduction of consumption approximately 70%
- Very easy handling by two pushers

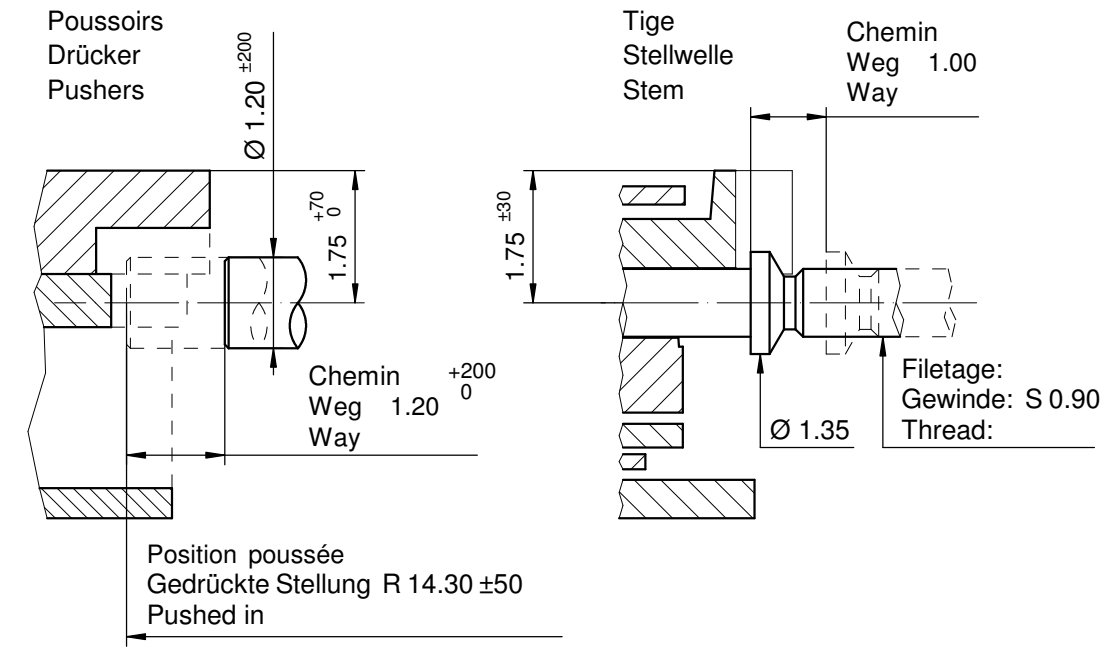
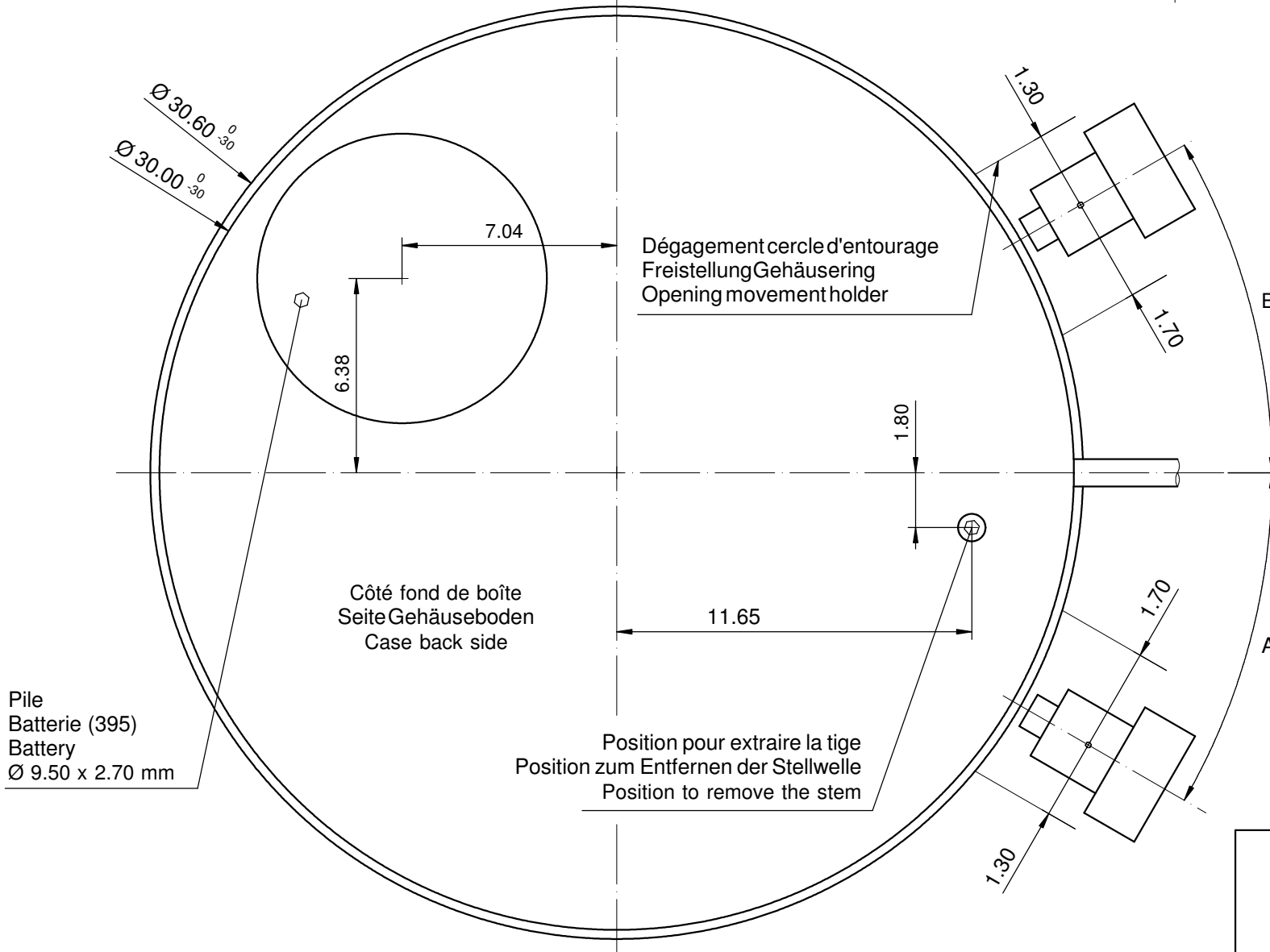
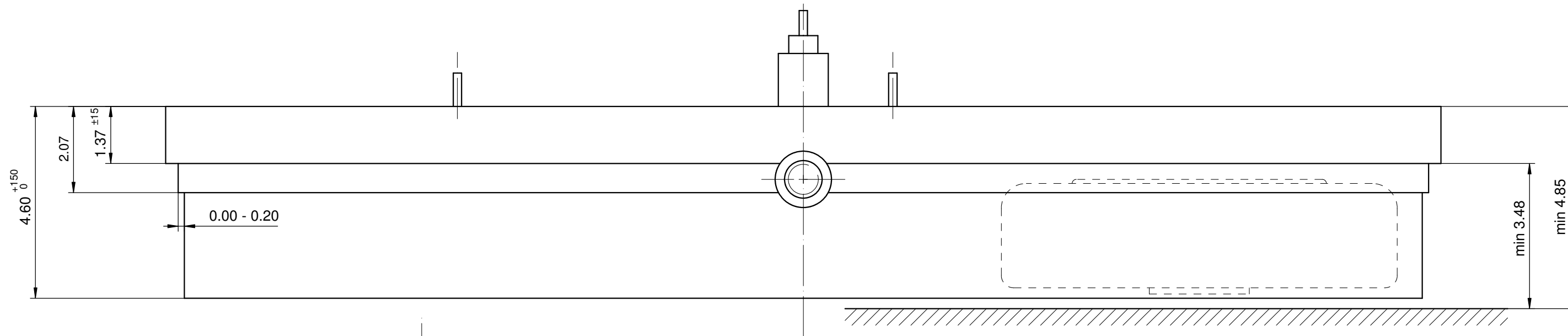
Functions

- 3 eyes
- Chronograph
- Center stop second (1/1 sec)
- 30 minute counter
- ADD and SPLIT functions
- Day indicator
- Date
- Small second

Technical Specifications

Diameter Total	30.60 mm
Case fitting	30.00 mm
Movement height	4.60 mm
Height over standard battery	4.60 mm
Movement rest	1.37 mm
Height over stem	1.75 mm
Length of stem travel	1.00 mm
Force to push the stem for screwed crown	10 / 15 N
Stem thread	0.90 mm
Standard battery	395
Standard battery life	50 months
Battery voltage	1.5 V
Current consumption – typical	1.42 µA (Date Mechanism not in Gear)
Current consumption – maximum	3 µA (Date Mechanism not in Gear)
Useful torque second – typical	6 µNm
Useful torque minute – typical	300 µNm
Useful torque center stop second – typical	6 µNm
Operating temperature	0 - 50 °C
Instantaneous rate	-10/+20 sec/month
Resistance to magnetic fields	18.8 Oe
Resistance against shock	NIHS 91-10

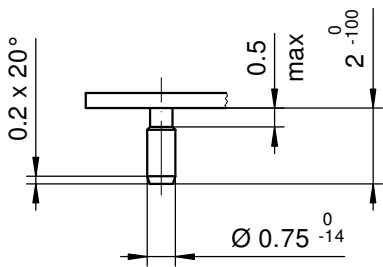
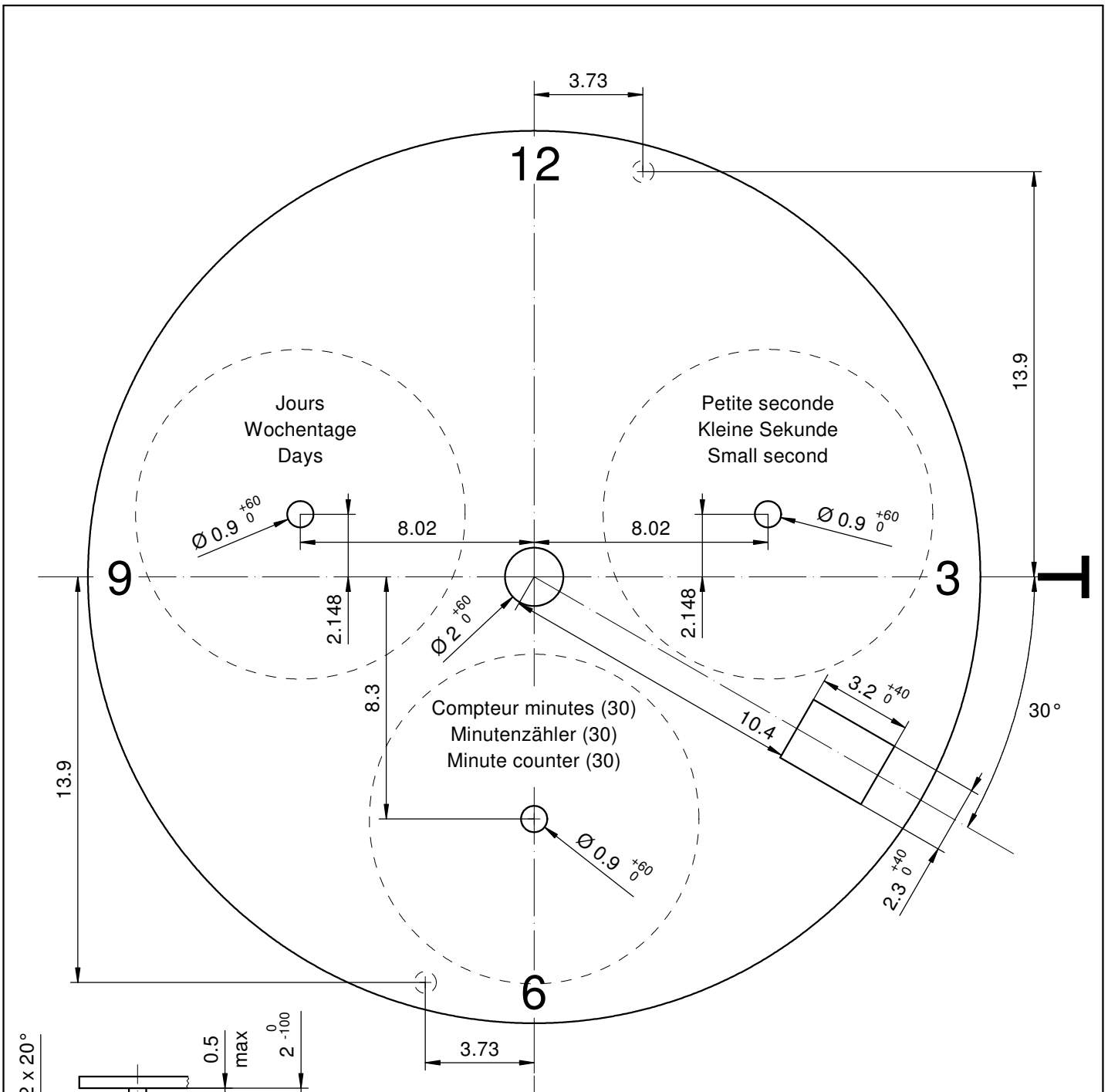




La course du poussoir doit être limitée dans le poussoir lui-même. Sa position poussée doit être contrôlée. Die Weglänge des Drückers ist im Drücker selbst zu begrenzen. In der gedrückten Stellung ist seine Position zu kontrollieren. The way of the pusher has to be limited in the pusher itself. Its position must be checked while pushed in.

Sécurité entre l'aiguille des secondes et le verre: Sicherheit zwischen Sekundenzeiger und Glas: 0.50 mm Security between second hand and glass:

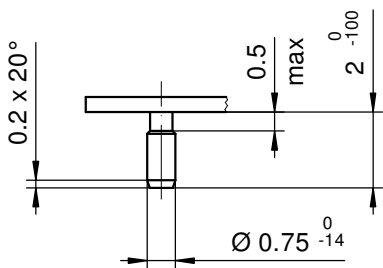
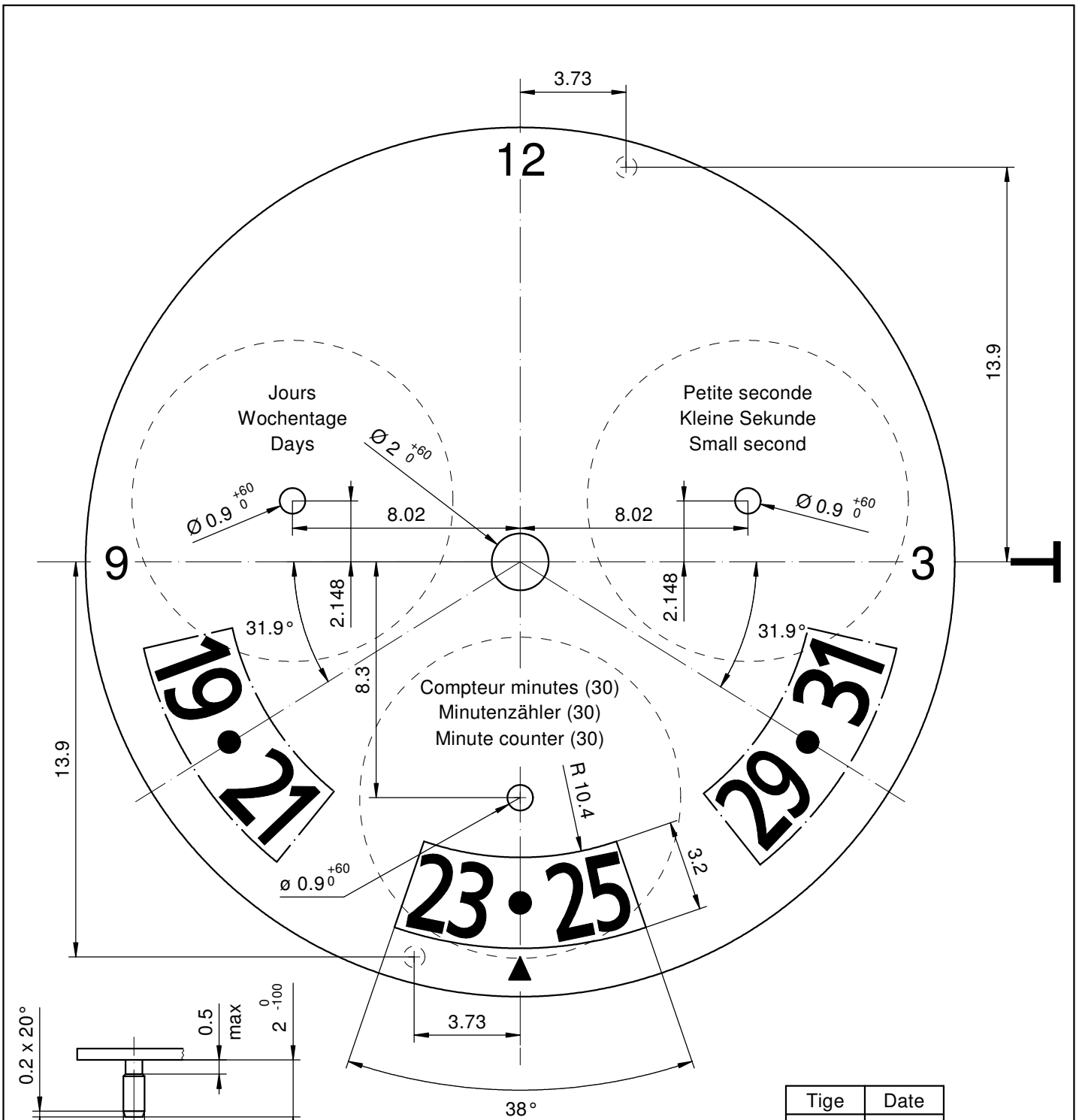
Cage Uhrwerkgestell 13¹/₄" Frame		Issued	04 Nov 2010	mg
		Modified	13 Mär 2013 ÄÄ 10036	fl
		Released	Yes	
		Tolerance	+/- 20 µm	
		Scale	10 : 1 (5 : 1) (A3H)	
RONDA	Z 60	Sous réserve de modifications Änderungsvorbehalten Modifications reserved		
		No.	5000.406	02



Epaisseur du cadran selon hauteur de l'aiguillage
 Zifferblattdicke gemäss Zeigerwerkhöhen
 Dial thickness according to hand fitting heights

Tige	Date
Stellw.	Datum
Stem	Date
3H	4H

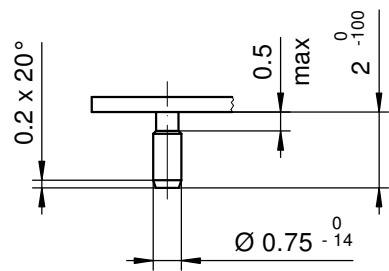
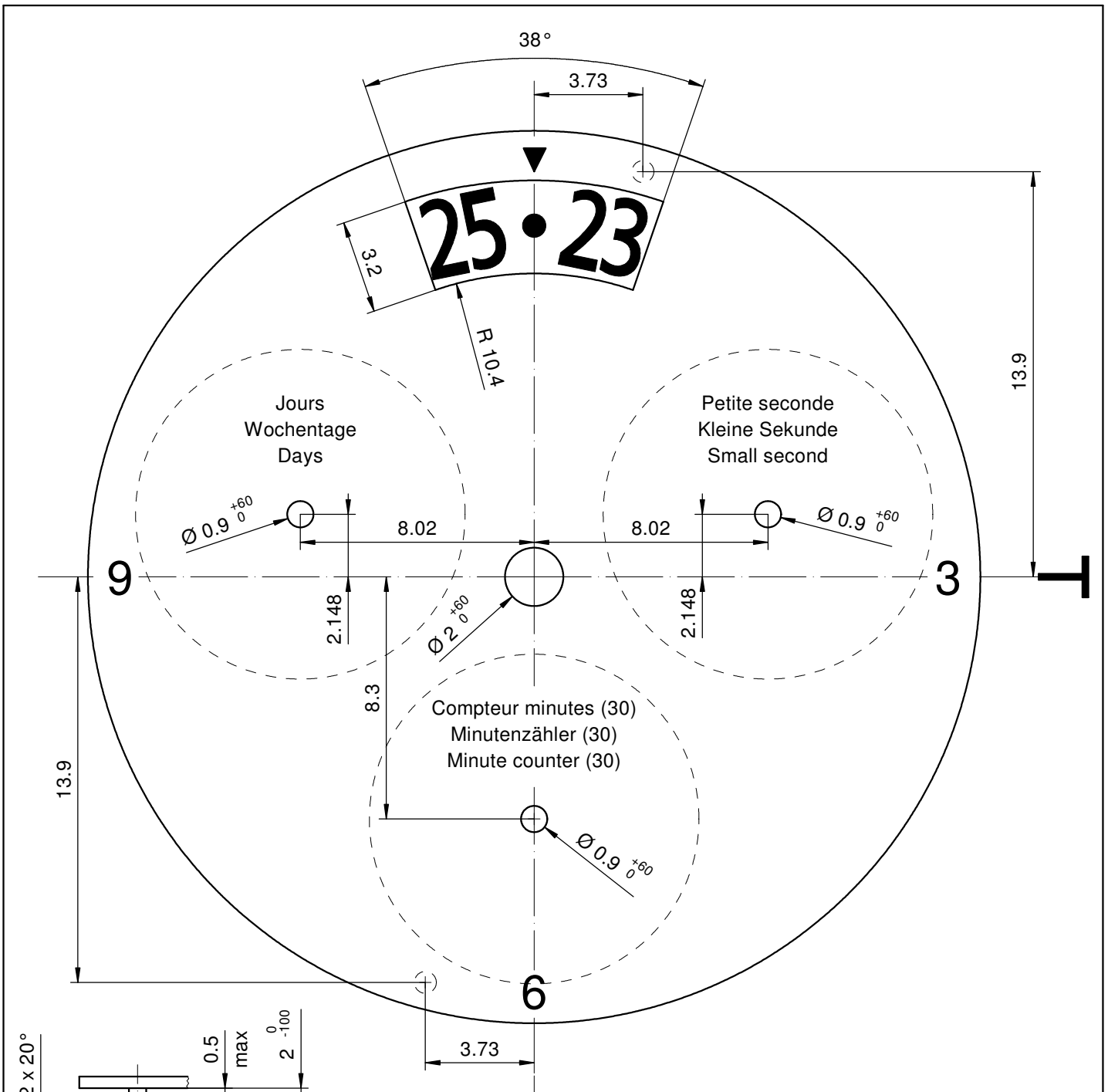
Cadran Zifferblatt 13¼" Dial	Issued	08 Nov 2010	mg
	Modified	23 Mär 2017 ÄA 35959	di
	Released	YES	
	Tolerance	+/- 20 µm	
	Scale	5 : 1 (A4V)	
RONDA	Z 60	Sous réserve de modification Änderungen vorbehalten Modifications reserved	
		No.	5010.675



Tige	Date
Stellw.	Datum
Stem	Date
3H	6H

Epaisseur du cadran selon hauteur de l'aiguillage
 Zifferblattdicke gemäss Zeigerwerkhöhen
 Dial thickness according to hand fitting heights

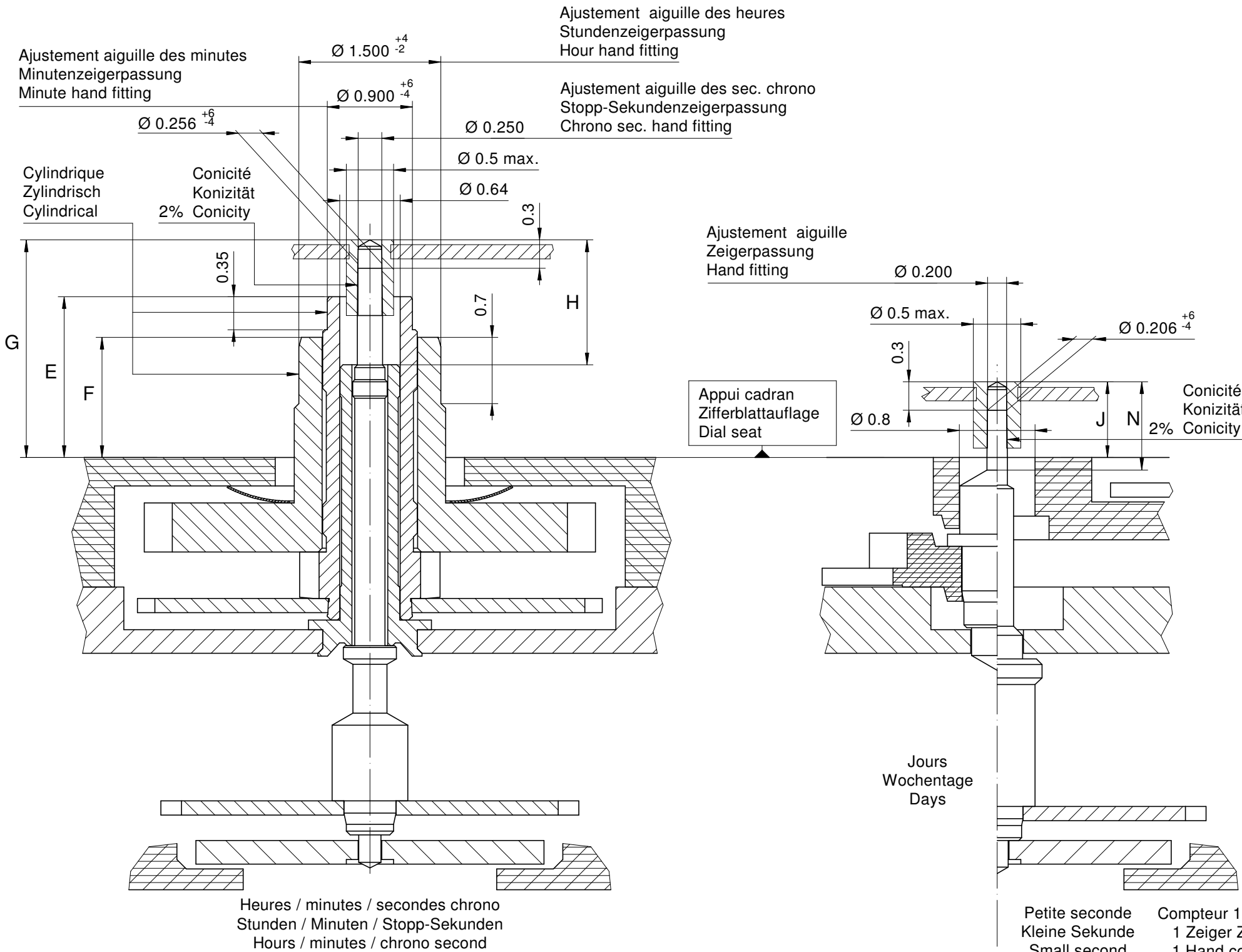
Cadran Zifferblatt 13¼" Dial	Issued	22 Sep 2015	di
	Modified	22 Mär 2017 ÄA 35959	di
	Released	YES	
	Tolerance	+/- 20 µm	
	Scale	5 : 1 (A4V)	
RONDA	Z 60	Sous réserve de modification Änderungen vorbehalten Modifications reserved	
		No.	5010.756



Tige	Date
Stellw.	Datum
Stem	Date
3H	12H

Epaisseur du cadran selon hauteur de l'aiguillage
 Zifferblattdicke gemäss Zeigerwerkhöhen
 Dial thickness according to hand fitting heights

Cadran Zifferblatt 13¼" Dial	Issued	22 Sep 2015	di
	Modified	22 Mär 2017 ÄA 35959	di
	Released	YES	
	Tolerance	+/- 20 µm	
	Scale	5 : 1 (A4V)	
RONDA	Z 60	Sous réserve de modification Änderungen vorbehalten Modifications reserved	
		No.	5010.760



Aiguillages Zeigerwerkhöhe Hand fitting height								
Dépassement Höhe über Zifferblattauflage Height over dial seat								
No	Pignon des secondes chrono Stopp-Sekundentrieb Chrono second pinion	Chaussée Minutenrohr Cannon-pinion	Route des heures Stundenrad Hour wheel	H	N	Petite seconde Kleine Sekunde Small second	Pignon compteur Zählertrieb Counter pinion	1 aig. 1 Zeiger 1 Hand
1	2.30	1.70	1.27	1.32	0.90	0.80	0.80	0.80

Aiguillages Zeigerwerkhöhe Hand fitting height							
Peinture comprise / inkl. Farbe / Paint included							
Epaisseur maximum du cadran Maximale Zifferblattstärke Maximum dial thickness							
No	Sous l'aiguille des secondes chrono Unter Stopp-Sekundenzeiger Under chrono second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	Sous l'aiguille de petite seconde Unter kleine Sekundenzeiger Under small second hand	Sous l'aiguille compteur 1 aiguille Unter Zeiger 1 Zeiger Zähler Under hand 1 hand counter	Sous l'aiguille des jours Unter Tageszeiger Under days hand	Epaisseur des aiguilles Zeigerdicke Hands thickness
1	1.80	1.30	0.85	0.40	0.40	0.40	0.15

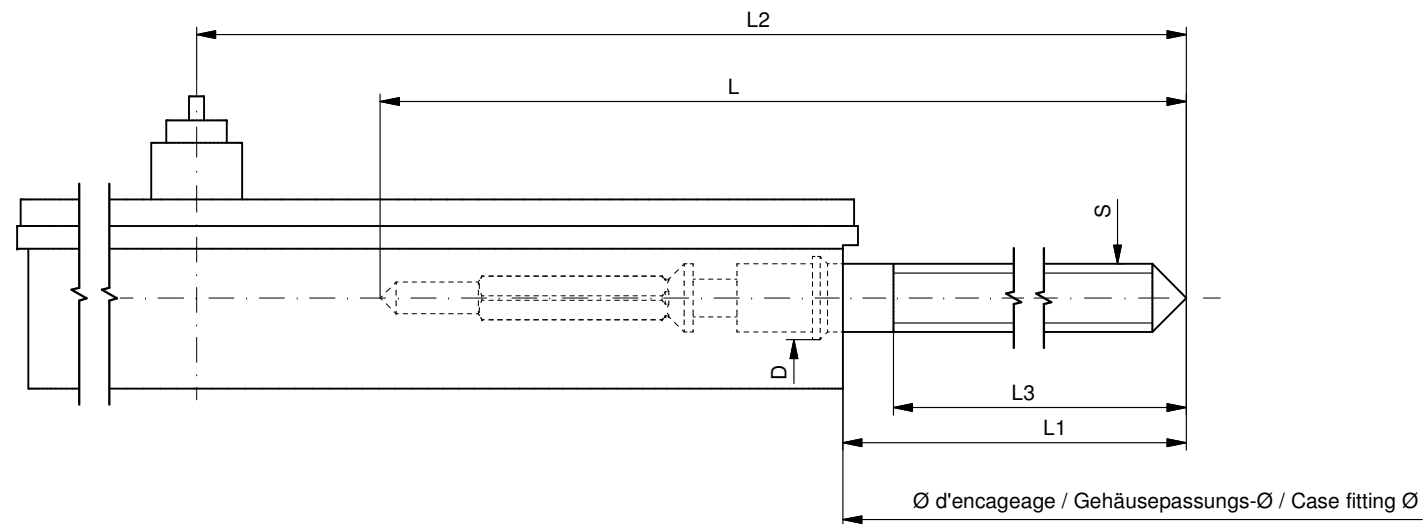
	Aig. des sec. chrono Stopp-Sekundenzeiger Chrono second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	Aiguille compteur (1 aig.) Zähler Zeiger (1 Zeiger) Counter hand (1 hand)	Aig. des jours Tageszeiger Day hand	
mg max.	10	30	30	10	10	10	Masse / Masse / Weight *
µNm max.	0.06	0.70	0.70	0.06	0.03	0.05	Balourd / Unwucht / Unbalance *
gmm ² max.	1.0	-	-	0.4	1.0	1.0	Inertie / Massenträgheit / Inertia *
N max.	30	40	40	30	30	30	Force de chassage / Aufpresskraft / Force

Lors de la pose d'aiguilles, le mouvement doit être soutenu.
Beim Zeigersetzen muss das Werk abgestützt werden.
The movement needs to be supported for hand setting.

Aiguillages Zeigerwerkhöhen 13 1/4" Hand fitting heights

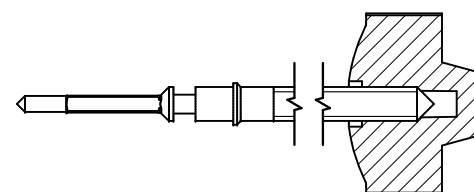
	Issued	08 Nov 2010	mg
	Modified	15 Okt 2014 ÄÄ 13275	dh
	Released	YES	
	Tolerance	µm	
	Scale	20 : 1 (A3H)	
Sous réserve de modifications Änderungen vorbehalten Modifications reserved			
	No.	3316.141	03

* En cas de données différentes, veuillez contacter le service après-vente * Bei abweichenden Werten, bitte technischen Kundendienst anfragen * In case of different values, please contact the customer service



Tige de travail (intégrée dans le mouvement)
 Arbeitstellwelle (im Werk eingebaut)
 Working stem (implemented in the movement)

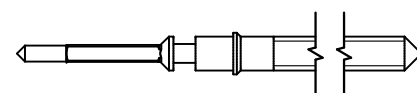
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.208.CO	21.85	11.15	26.15	10.85	0.90	1.35



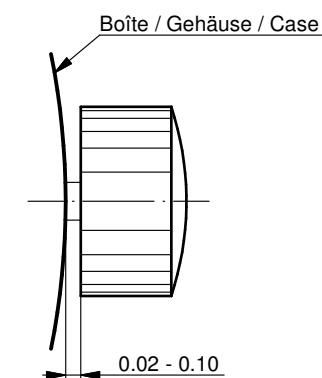
Couleur de la couronne Kronenfarbe Crown color	jaune foncé dunkelgelb dark yellow
Code	UN 1509

Tige (normale) / Stellwelle (normal) / Stem (normal)

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.208	21.85	11.15	26.15	10.85	0.90	1.35



Couronne normale
 Normale Krone
 Normal crown

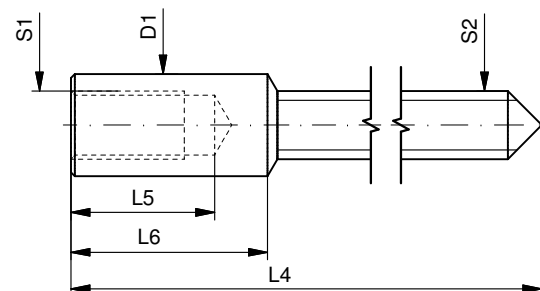


Couronne vissée
 Geschraubte Krone
 Screwed crown

Force ⇐ min. Kraft ⇐ min. Force ⇐ min.	10 N
Force ⇐ max. Kraft ⇐ max. Force ⇐ max.	15 N

Rallonge de tige / Stellwelle Verlängerung / Stem extension

No. d'article Artikelnummer Part number	L4	L5 (min)	L6	S1	S2	D1
3000.040	12.00	1.90	2.60	0.90	0.90	1.35



Tige (dimensions / forces)
 Stellwelle (Dimensionen / Kräfte)
 Stem (dimensions / forces)

RONDA Z60, Z50

Issued	11.02.2013	f15223
Modified	17 Mär 2017 ÄA 34582	mg5224
Released	YES	
Tolerance	---	
Scale	10:1 (A3)	

Sous réserve de modifications
 Änderungen vorbehalten
 Modifications reserved

No.	5030.026	02
-----	----------	----



Movement holder
Removing setting stem
H ZXX.1T



Movement holder
Setting hands
H ZXX.2A

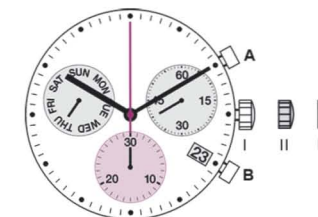
Fitting dial and hands

- Crown in position III
- Wind hour hand forwards, until date changes
- Remove working hand
- Fit dial
- Point all hands towards 12 o'clock
- Wind hand forwards to set actual time
- Zero chronograph hand*
- Crown in position II
- Set date
- Crown in position I

Date switching duration:

~1¼hrs

- Press pushers A and B for 2 seconds at the same time
(Chrono seconds hand rotates once)
- Pusher A → to correct chrono seconds hand
- Pusher B → to jump to minute hand
- Pusher A → to correct hand position



General Instructions

Removing the setting stem can only be effected in Pos. I.

The use of supporting screws is essential when mounting the hands.

Permitted hand setting strengths:

Hr / min. hands: <40N

Other hands: <30N

During quick date correction (setting stem in position II), a date switching speed of 5 d/s must not be exceeded.

Complement for T2 instructions Z50/Z60

It might be possible that the date jump will not be initialized when the date is set manually. In that case the movement will be adjusted automatically at the next date jump.

You have decided to buy a watch, which was assembled by a watchmaker using a Ronda movement. Please note that no watches are produced or distributed under the Ronda brand.

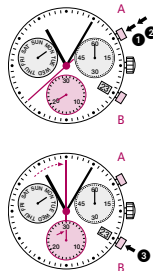
In case of repairs, guarantee claims and questions concerning the functioning of a watch, purchasers and consumers should contact their retailer or the watch manufacturer, for which the relevant information can be found in the sales or guarantee documentation provided with the watch.

Chronograph: Basic function

(Start / Stop / Reset)

Example:

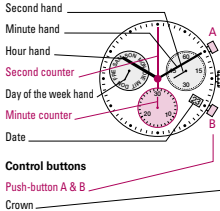
- Start:** Press push-button A.
- Stop:** To stop the timing, press push-button A once more and read the chronograph counters: **20 min / 38 sec**
- Zero positioning:** Press push-button B. (The chronograph hands will be reset to their zero positions.)



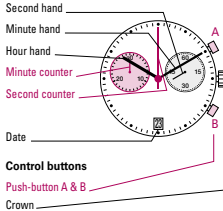
05

Description of the display and control buttons

Display elements Z60



Display elements Z50



01

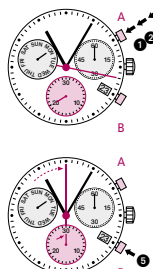
Chronograph: Accumulated timing

Example:

- Start:** (start timing)
- Stop:** (e.g. 15 min 5 sec following 1)
- Restart:** (timing is resumed)
- Stop:** (e.g. 5 min 12 sec following 3) = **20 min 17 sec** (The accumulated measured time is shown)
- Reset:** The chronograph hands are returned to their zero positions.

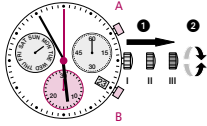
Please note:

- Following 4, the accumulation of the timing can be continued by pressing push-button A (Restart / Stop, Restart / Stop, ...).



06

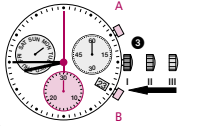
Setting the time



- * Pull out the crown to position III (the watch stops).
- Turn the crown until you reach the correct time 8:45.
- * Push the crown back into position I.

Please note:

- * In order to set the time to the exact second, 1 must be pulled out when the second hand is in position «60». Once the hour and minute hands have been set, 2 must be pushed back into position I at the exact second.



02

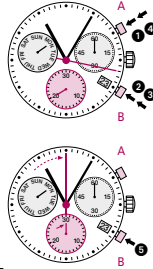
Chronograph: Intermediate or interval timing

Example:

- Start:** (start timing)
- Display interval:** e.g. 20 minutes 17 seconds (timing continues in the background)
- Making up the measured time:** (the chronograph hands are quickly advanced to the ongoing measured time).
- Stop:** (Final time is displayed.)
- Reset:** The chronograph hands are returned to their zero position

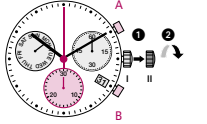
Please note:

- * Following 2, further intervals or intermediates can be displayed by pressing push-button B (display interval / make up measured time, ...).



07

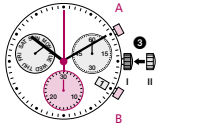
Setting the date (quick mode)



- Pull out the crown to position II (the watch continues to run).
- Turn the crown anticlockwise until the correct date [] appears.
- Push the crown back into position I.

Please note:

- During the date changing phase between approx. 09:45 PM and 12 PM, the date must be set to the date of the following day.



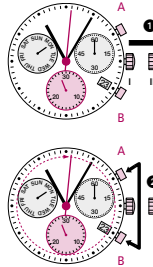
03

Adjusting the chronograph hands to zero position

Example:

- One or several chronograph hands are not in their correct zero positions and have to be adjusted (e.g. following a battery change).

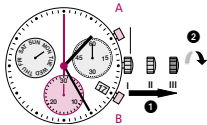
- Pull out the crown to position III (all chronograph hands are in their correct or incorrect zero position.)
- Keep push-buttons A and B depressed simultaneously for at least 2 seconds (the second counter hand rotates by 360° → corrective mode is activated.)



08

Setting the date, day of the week (Z60) and time

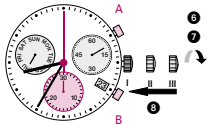
- Example:
 - Date / time on the watch: 17 / 01:25 / MON
 - Present date / time: 23 / 20:35 / THU



- Pull out the crown to position III (the watch stops).
- Turn the crown anticlockwise until yesterday's day of the week WED appears.
- Push the crown to position II.
- Turn the crown until yesterday's date appears 22.
- * Pull out the crown to position III (the watch stops).
- Turn the crown anticlockwise until the correct date 23 and day of the week THU appears.
- ** Continue to turn the crown anticlockwise until the correct time 8:35 PM appears.
- Push the crown back into position I.

Please note:

- * To set your watch to the exact second, please refer to the chapter entitled «setting the time».
- ** Please observe the AM/PM clock rhythm.



04

Adjusting the second counter hand

- Single step: A 1 x short
- Continuous: A long

Adjusting the next hand B

- Single step: A 1 x short
- Continuous: A long

Adjusting the minute counter hand (position 6h)

- Single step: A 1 x short
- Continuous: A long

- Returning the crown to position I
 Termination of the chronograph hands adjustment (can be carried out at any time).

