

R01



R01-02

2 HANDS, SMALL SECOND, DATE

DIAMETER 28.20 MM – 1 1/2'''

HEIGHT 4.20 MM



CALIBER R01-02 – 12½"



Product Specifications

Mechanical movement

Line mechanicals

Caliber R01-02

Size 12½"

Version Swiss Made 25 Jewels

Standard hand fitting height 2

Functions

- 2 hands
- Small second
- Date

Features

- Uni-directional automatic winding with ball bearing
- Silicon escapement and spiral
- Running time typically 80 h / minimum 72 h

Technical Specifications

Diameter Total	28.60 mm
Case fitting	28.20 mm
Movement height	4.20 mm
Movement rest	1.30 mm
Height over stem	1.80 mm
Length of stem travel	0.90 mm
Stem thread	0.90 mm
Stem max Ø	1.50 mm
Frequency: vibrations per hour	25'200 A/h (3.5 Hz)
Power reserve	typ. 80 h / min. 72 h
Date switching duration	<30 min.
Operating temperature	0-50 °C
Resistance against shock	NIHS 91-10

Watch production

Drawing Casing ring (standard, PDF)

Drawing Dial (stem 3h, calendar 3h, PDF)

Drawing Dial (stem 3h, calendar 6h, PDF)

Drawing Dial (stem 3h, calendar 4h, PDF)

Drawing Hand fitting (hand height 2-4, PDF)

Drawing Stem

Casing information (PDF)

User's manual

User's manual (PDF)

CALIBER R01-02 – 12½"

Regulation

Performance		Elaboré	Top	Chronomètre
Positions	0h	CH, 6H, 9H	CH, CB, 6H, 9H, 3H	CH, CB, 6H, 9H, 3H
Average value of rate		0 ... 14 s/d	0 ... 8 s/d	COSC criteria / ISO 3159
Max. divergence all positions		20 s/d	15 s/d	COSC criteria / ISO 3159
Isochronism	CH 0h - CH 24h	± 15 s/d	± 10 s/d	COSC criteria / ISO 3159
Max. amplitude	CH 0h	315°		
Min. amplitude	6H 24h	200°		
Lift angle		53°		
Adjusting mark	position CH at 0h	0.8 ms	0.6 ms	0.6 ms
Stabilisation time / rate resumption		20 s	20 s	20 s
Integration time / Measuring		40 s	40 s	40 s
Temperature		23 °C	23 °C	as per COSC / ISO 3159

The limit values are subject to interpretation: 95% of the pieces delivered in a lot must be within the specified limit values.

All checks are made without the calendar in function. The check at full winding, referred to as 0h, has to be done after 1 to 3 hours running. The check indicated as 24 h takes place 24 to 25 hours after full winding.

When checking the instantaneous rate and the amplitudes, the inherent tolerance of the measuring instruments and the influence of temperature variations and the atmospheric pressure must be taken into account.

CALIBER R01-02 – 12½"

Winding mechanism

With winding stem	Turns	Max. speed
Manual winding	85	100

Self winding mechanism	Turns per minute	Winding time
Automatic winding with Cyclomotion	4*	min. 7h
Automatic winding with Chappuis	22*	min. 2.5h

* Note the direction of rotation

Escapement

Performance	Elaboré	Top	Chronomètre
Running time	typ. 80 h / min. 72 h		
Escapement	Swiss silicone escapment		
Balance spring	Silicone		
Fine timing device	with screws on the balance wheel		
Shock absorber	KIF / Incabloc		
Barrel spring	Bio-Flex / Nivaflex Plus		

CALIBER R01-02 – 12½" - DECORATIONS

D1 Matte

Bridges with matte finish
Bimetal Oscillating weight, matte
Nickel-plated



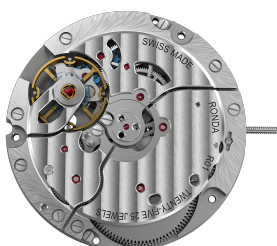
D2 Brushed

Bridges vertically brushed
Monobloc Oscillating weight with Geneva stripes
Rhodium-plated



D3 Geneva stripes

Bridges with Geneva stripes and colimaconnage
Open Oscillating weight
Rhodium-plated



CALIBER R01-02 – 12½" - OSCILLATING WEIGHTS

Standard Bimetal



Bimetal Oscillating weight, matte,
Nickel-plated
Optional custom branding

Standard Monobloc



Monobloc Oscillating weight with Geneva stripes
Colimaconnage bevel
Rhodium-plated
Optional custom branding

Geometric Monobloc 4 openings



Monobloc Oscillating weight with 4 openings,
matte, colimaconnage bevel
Rhodium-plated
Optional custom branding

Geometric Monobloc 5 openings



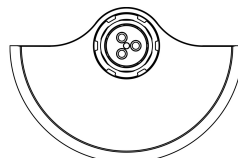
Monobloc Oscillating weight with 5 openings,
matte, colimaconnage bevel
Rhodium-plated
Optional custom branding

Geometric Monobloc 6 openings

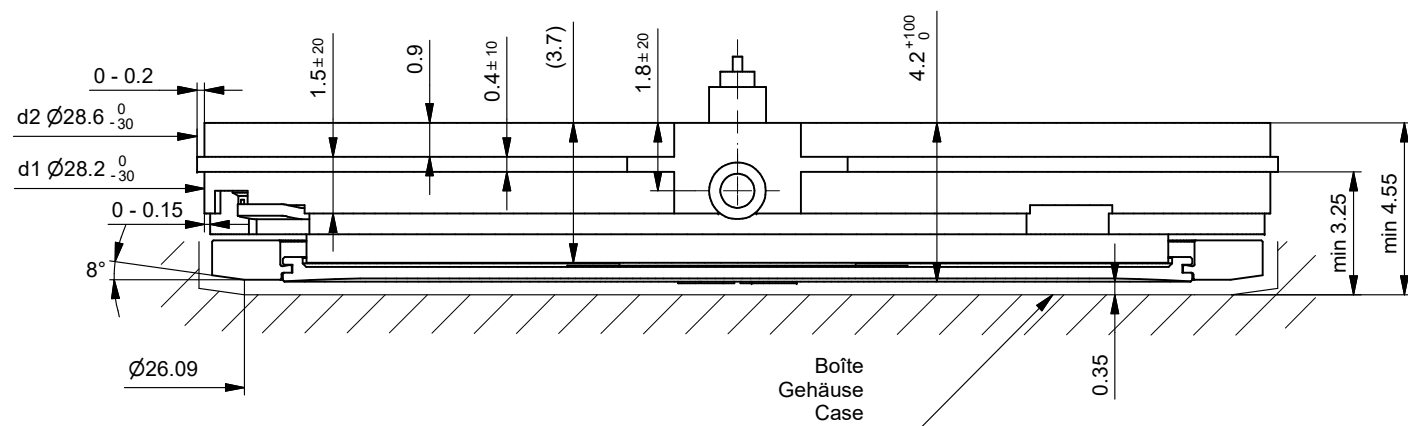
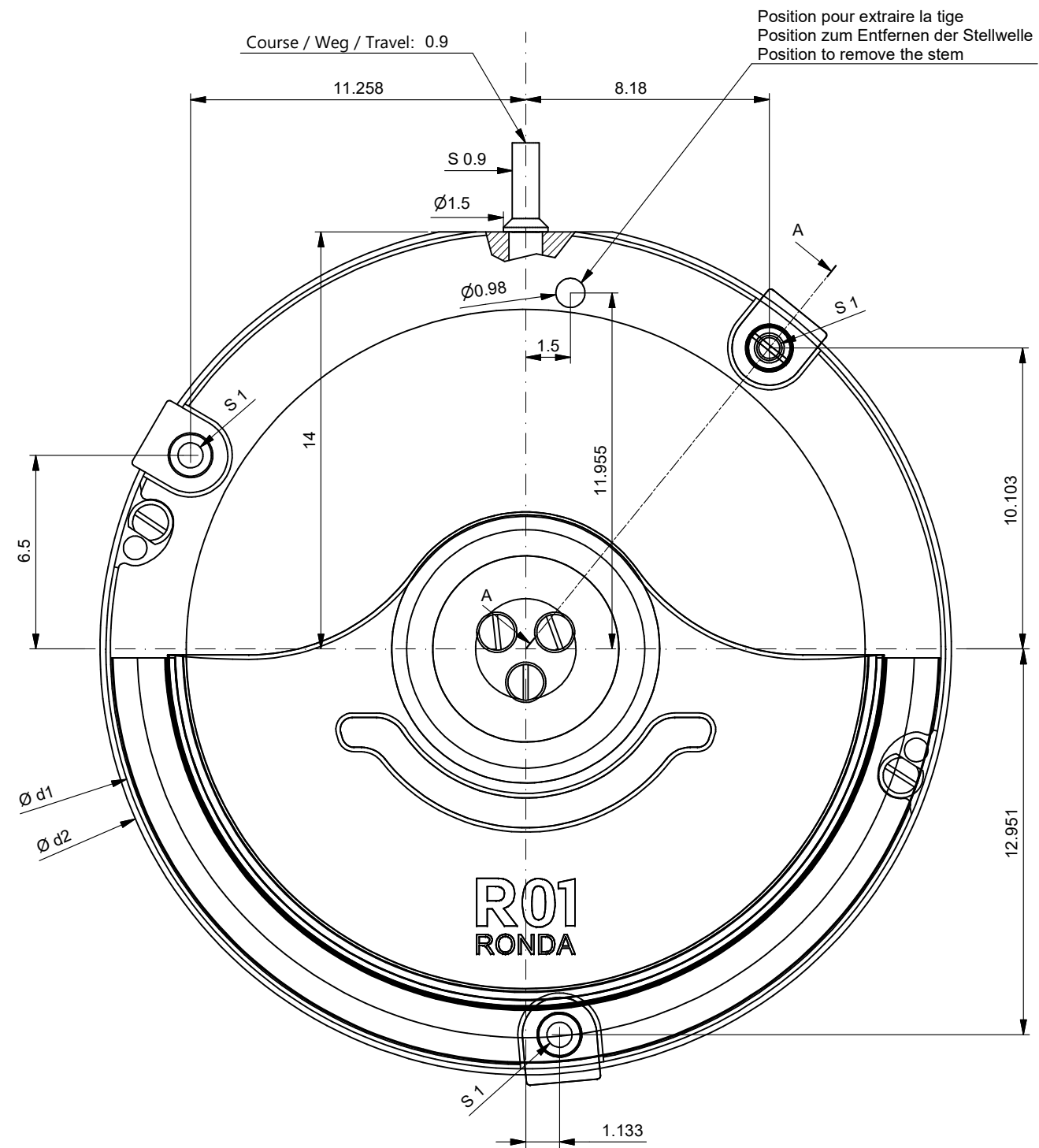


Monobloc Oscillating weight with 6 openings,
matte, colimaconnage bevel
Rhodium-plated
Optional custom branding

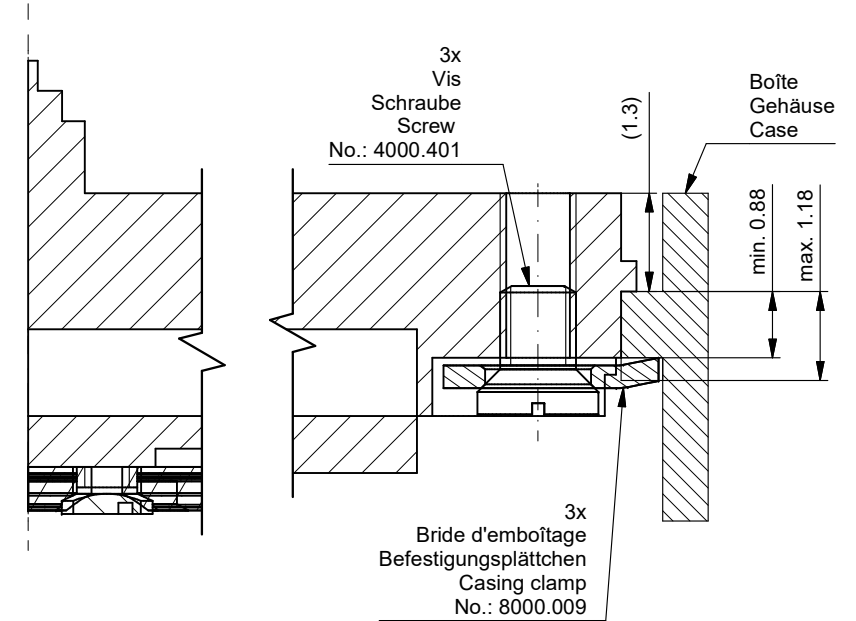
Custom made - Your Design



Custom-made Oscillating weight,
based on your design



A-A (10 : 1)

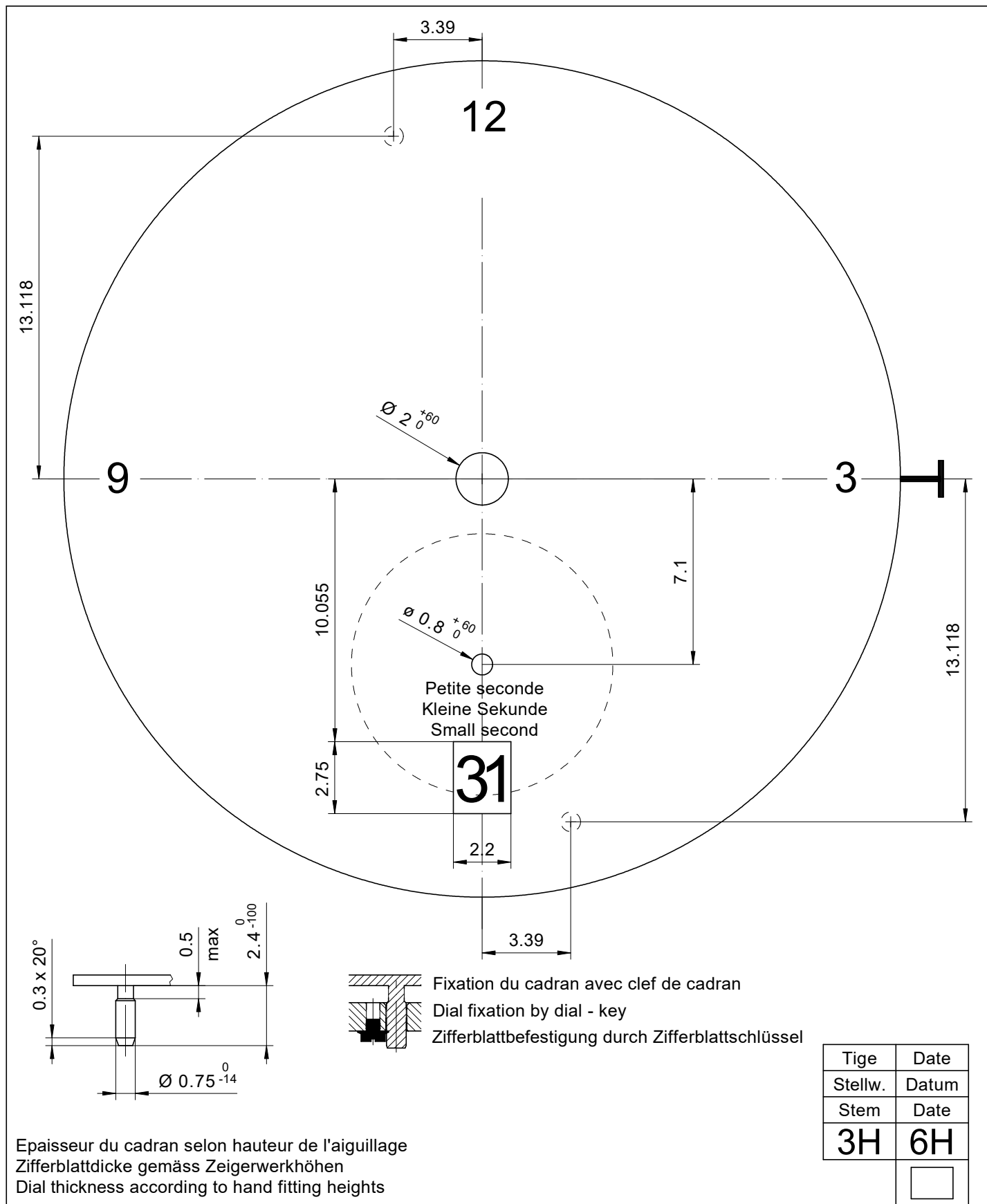


Sécurité entre l'aiguille des seconde et le verre : min. 0.30 mm
Sicherheit zwischen Sekundenzeiger und Glas : min. 0.30 mm
Security between second hand and glass : min. 0.30 mm

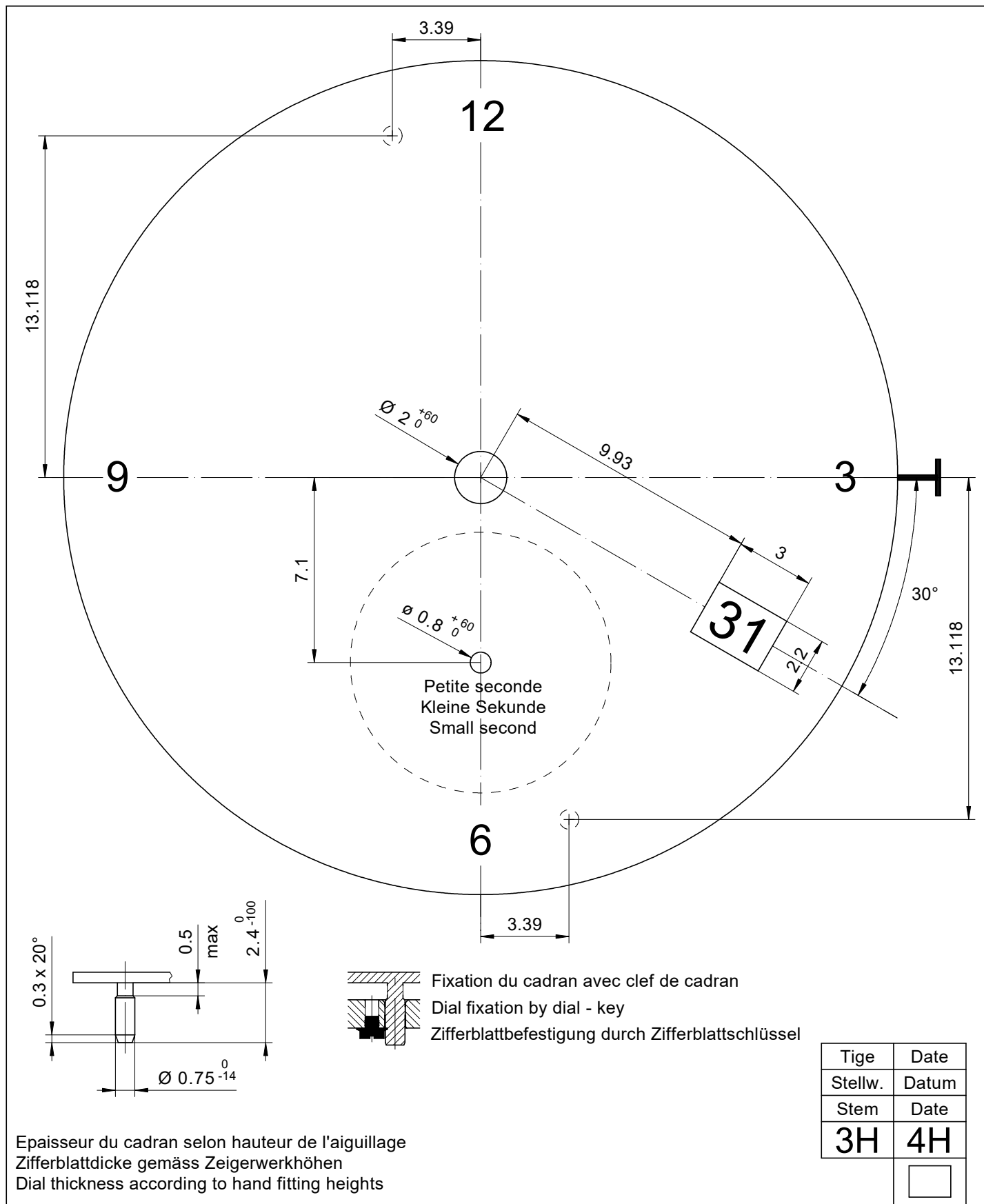
Cage Uhrwerkgestell 12½" Frame

RONDA R01-01, R01-02

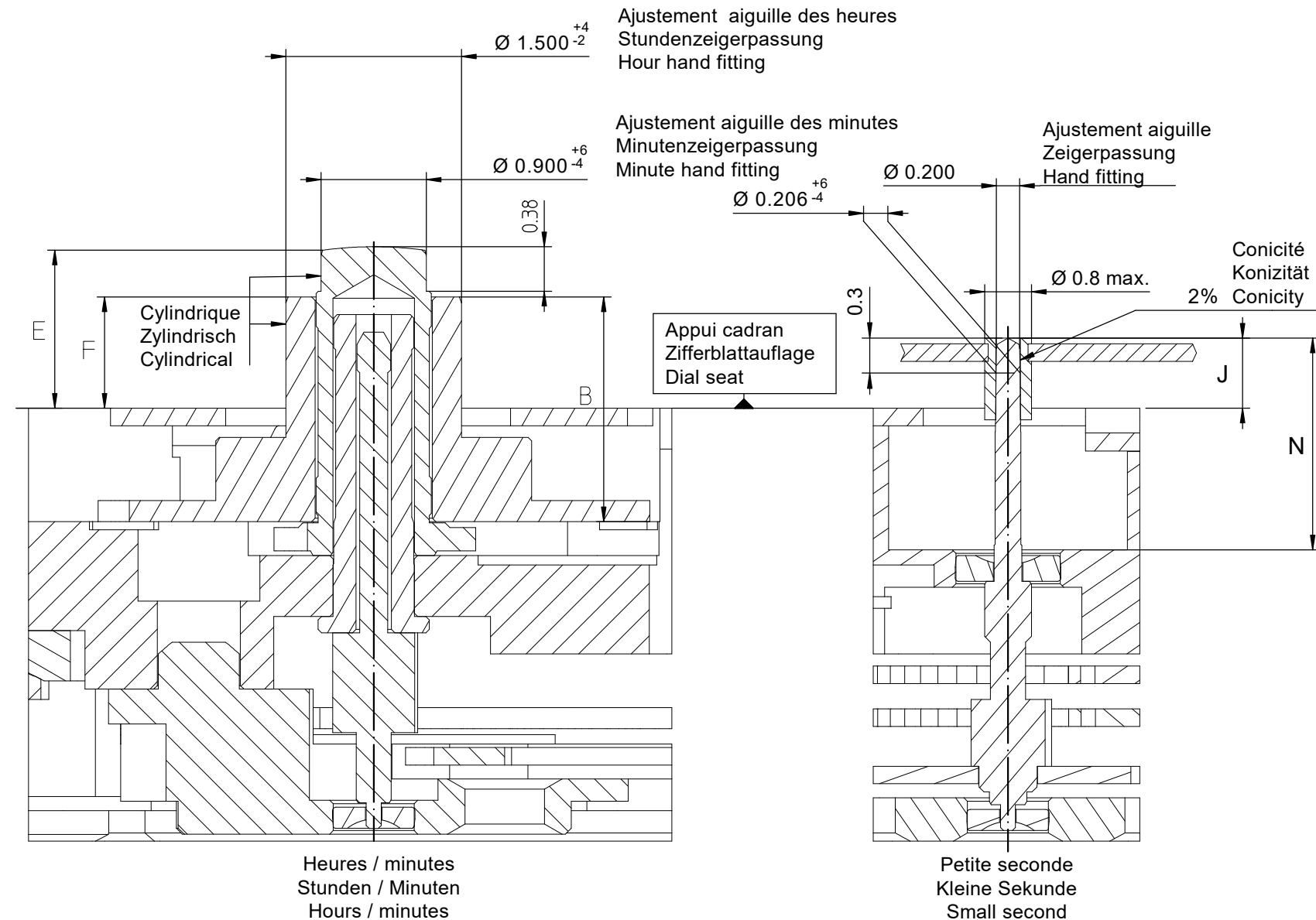
Issued	27.05.2024 dh5221		
Modified	25.02.2026 dh5221		
Released	YES		
Mod. No.	45812		
Tolerance	---		
Scale	5 : 1	Page 1 / 1	A3
Sous réserve de modifications Änderungen vorbehalten Modifications reserved			
No.	5000.462	01	



Cadran Zifferblatt 12½" Dial		Issued	28.05.2024	dh5221
		Modified	26.02.2026	dh5221
		Released	YES	
		Mod. No.	45812	
		Tolerance	±20 µm	
		Scale	5 : 1	Page 1/1 A4
RONDA	R01-02	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	5010.879	01



Cadran Zifferblatt 12½" Dial		Issued	28.05.2024	dh5221
		Modified	26.02.2026	dh5221
		Released	YES	
		Mod. No.	45812	
		Tolerance	±20 µm	
		Scale	5 : 1	Page 1/1 A4
RONDA	R01-02	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	5010.882	01



Aiguillage no Zeigerwerkhöhe Nr. Hand fitting height No	Dépassement Höhe über Zifferblattaufgabe Height over dial seat				Longueur Länge Length	Epaisseur max. (peinture comprise) Max. Dicke (inkl. Farbe) Max. thickness (paint included)			
	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel	Petite seconde Kleine Sekunde Small second		Roue des heures Stundenrad Hour wheel	Cadran Zifferblatt Dial			Aiguilles Zeiger Hands
						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	
2	1.35	0.95	0.6	1.8	1.90	0.95	0.55	0.30	0.15
3	1.60	1.20	0.85	1.8	2.15	1.20	0.80	0.55	0.15
4	1.85	1.45	1.10	1.8	2.40	1.45	1.05	0.80	0.15

		Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Aig. petite secondes Kleine Sekundenzeiger Small second hand	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.
mg	max.	30	30	10	Masse / Masse / Weight *
µNm	max.	1.0	1.5	0.6	Balourd / Unwucht / Unbalance *
N	max.	40	40	30	Force de chassage / Aufpresskraft / Force

Aiguillages
Zeigerwerkhöhen 12½"
Hand fitting heights

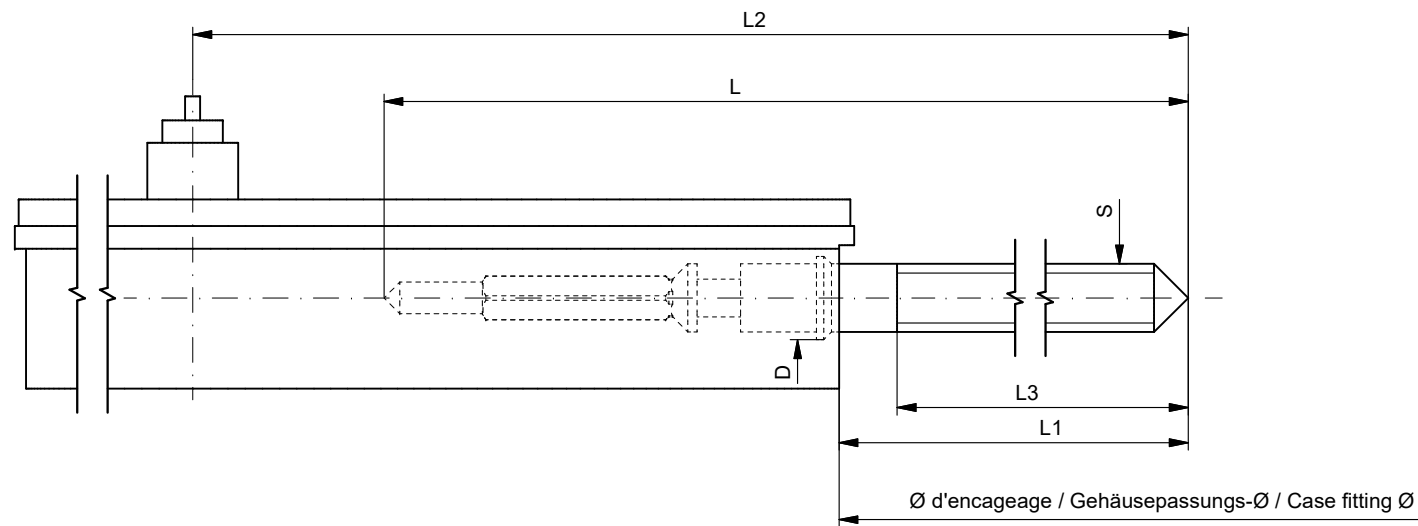
RONDA R01-02

Issued	27.5.2024	dh5221
Modified	16.01.2026	dh5221
Released	YES	
Mod. No.	45812	
Tolerance	---	
Scale	20 : 1	Page 1/1 A3
Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
No.	3316.212	00

* En cas de données différentes, veuillez contacter le service après-vente

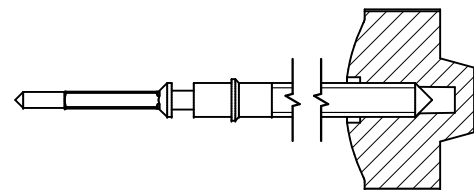
* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

* In case of different values, please contact the customer service



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

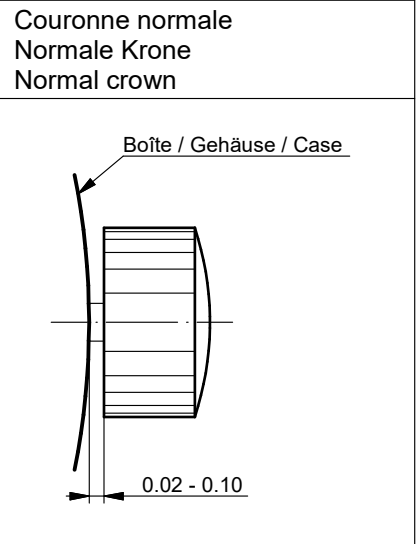
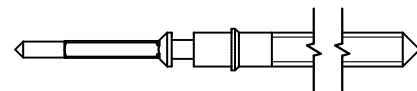
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.220.CO	16.49	8.79	22.795	7.89	0.90	1.50



Couleur de la couronne Kronenfarbe Crown color	anthracite anthrazit anthracite
Code	UN 9017

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

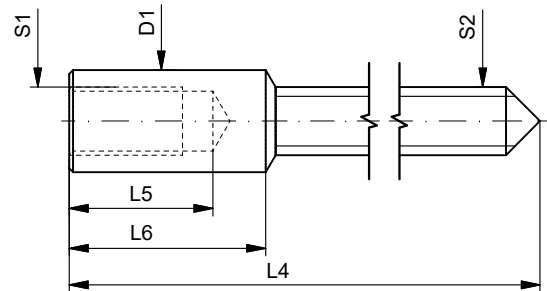
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.220	16.49	8.79	22.795	7.89	0.90	1.50



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

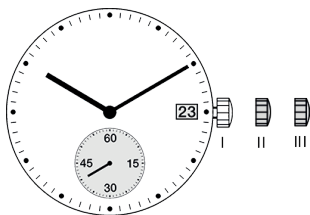
No. d'article Artikelnummer Part number	L4	L5 (min)	L6	S1	S2	D1
3000.040	12.00	1.90	2.60	0.90	0.90	1.35



Tige Stellwelle Stem (dimensions / forces) (Dimensionen / Kräfte) (dimensions / forces)		Issued	27.02.2026	
		Modified	27.02.2026	
		Released	YES	
		Mod. No.	45812	
		Tolerance	---	
		Scale	---	Page 1 / 1 A3
RONDA	R01-01, R01-02	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	5030.056	00

CALIBRE R01-02 – 12 $\frac{1}{2}$ '''

T2-Instructions



Fitting dial and hands

- Crown in position III
- Wind hour hand forward, until date changes
- Remove working hands
- Fit dial
- Place all hands towards 12 o'clock
- Set time so that it runs slightly fast
- Crown position I, as soon as the second hand matches the actual time
- Crown in position II
- Set date
- Crown in position I

T2-Tools



Movement holder
For stem removal
H R01.1T



Movement holder
For hand setting at the center and/or small second (Ø 0.6 mm)
H R01.1A



Key for timing nuts
Adjustment of the balance frequency
H R01.1R

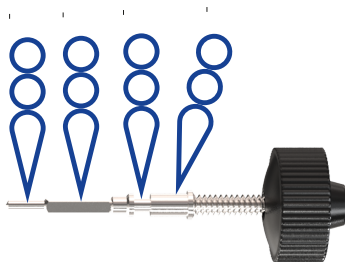


Screwdriver 0.50 mm
Adjustment of the balance inertia
Recommendation RONDA: *BERGEON 30080-B*

General information

Winding stem: The winding stem can only be removed in position I.

Lubrication of HP1300 is required at the following spots of the winding stems during encasement:



Escapement: The R01 movement family is equipped with an escapement made of silicon components. Silicon components are sensitive to shocks and impacts.

The balance spring, the ancre and the escapement wheel must not come into contact with solvents.

To disassemble the escapement, the movement must first be completely unwound manually. Please follow our instructions on the Technical instructions to do this. Failure to follow these instructions may result in damage to the escapement.

Setting the hands: To set the hands, it is essential to use a movement holder with supporting screw in the centre.

Permissible hand setting forces:

Hour/minute hands: <40 N

Second hand: <30 N

Calendar: During rapid date correction (winding stem in position II), the winding stem's rotation speed must not exceed 100 rpm.

Manual winding test of automatic mechanism

Handaufzugstest des Automatikmechanismus

Test par remontage manuel du mécanisme automatique

Preparation | Vorbereitung | Préparation

Place movement or watch head – bottom up – 30° inclined out of the horizontal position
(hand held or on a support)

Uhrwerk oder montiertes Uhrehgehäuse – Unterseite nach oben zeigend – in eine um 30° aus der Horizontalen geneigte Lage bringen
(von Hand gehalten oder auf einer Unterlage).

Déposer le mouvement ou la tête de montre – le fond vers le haut – dans une position inclinée à 30° de la position horizontale
(tenu à la main ou sur un support)

Test | Test | Test

Manually turn crown in winding direction without moving back and forth.

The winding speed shall be between 30 and 60 turns per minute.

Krone von Hand in Aufzugsrichtung drehen ohne dabei vorwärts und rückwärts zu drehen.

Die Aufzugsgeschwindigkeit muss zwischen 30 und 60 Umdrehungen pro Minute liegen.

Tourner la couronne manuellement dans le sens de remontage sans aller et retour.

La vitesse de remontage doit être entre de 30 à 60 tours par minute.

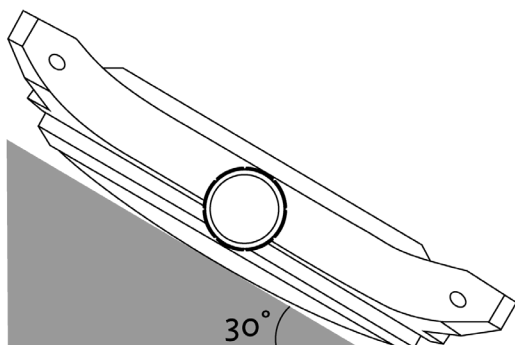
Result | Ergebnis | Résultat

The oscillating weight must never rotate completely, but may swing slightly.

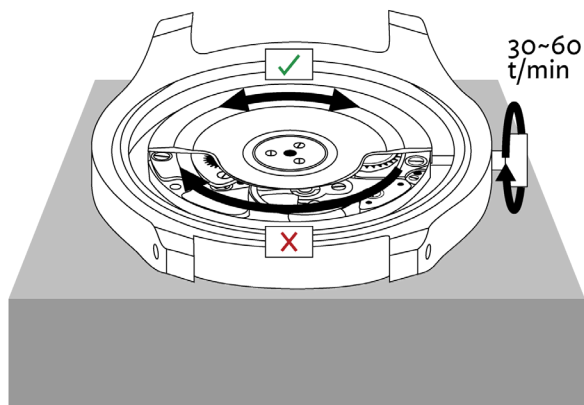
Die Schwungmasse darf niemals ganz rotieren, jedoch leicht schwingen.

La masse oscillante ne doit jamais tourner complètement mais peut balancer légèrement.

Preparation | Vorbereitung | Préparation



Test | Test | Test



RONDA mechanicals

– R01-02

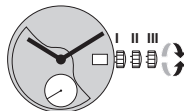
You have decided to buy a watch, which was assembled by a watchmaker using a Ronda movement. Please note that no watches are produced or distributed under the Ronda brand.

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.

An automatic movement uses the natural movements of the wearer's arm to wind the mainspring of the movement via the built-in oscillating weight. In order for a watch with a RONDA R01-02 automatic movement to run self-sustainingly, RONDA recommends a daily wearing time of 12 hours. If the watch is worn for a shorter period of time, it is advisable to wind up the movement by turning the stem a few times, especially if the wearer is only slightly active.

If the movement has come to a standstill, it is recommended restarting the movement by turning the adjusting stem 35 times with the crown in position I.

The automatic movement RONDA R01-02 has a power reserve of at least 72 hours when fully wound. If the watch is not worn or moved for more than 72 hours, it will stop after this time and must be wound up again.



Cal. R01-02

Crown A

Pos. I Position of rest (watch running)

Winding while stopped

The maximum power reserve can be restored by turning the crown clockwise around 84 times.

Pos. II Quick-change correction for date

- Pull the crown out to position II (watch still running).
- Turn the crown anticlockwise until the required date appears.
- Push the crown back into position I.

Pos. III Setting the time

- Pull the crown out to position III (watch stopped).
- Turn the crown, until the current time is displayed (remember the 24-hour cycle).
- Push the crown back into position I.