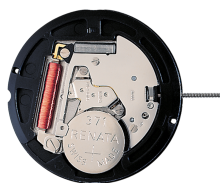


## Quartz Movements

### 特别功能

#### 朗达 超值系列

型号 515.24D - 11□'



### 产品规格

指针式石英机芯

系列

超值系列

型号

515.24D

尺寸

11□'

版本 瑞士制造

1 钻石 / 银色

版本 瑞士零件 远东组装

1 钻石 / 银色

电池寿命

45 月

标准针高

1

### 特点

- 金属机芯，可修理
- 拉停把心省电功能：节省大概70%耗电
- 所有11□' 机芯具相同厚度 3.00 mm 及把中1.50 mm：可共用配件
- 特强步进马达
- 两地时间可独立快调

### 功能

- 特别功能
- 转盘式24小时两地时间功能
- 日历
- 三针

# Quartz Movements

## 特别功能

### 朗达 超值系列

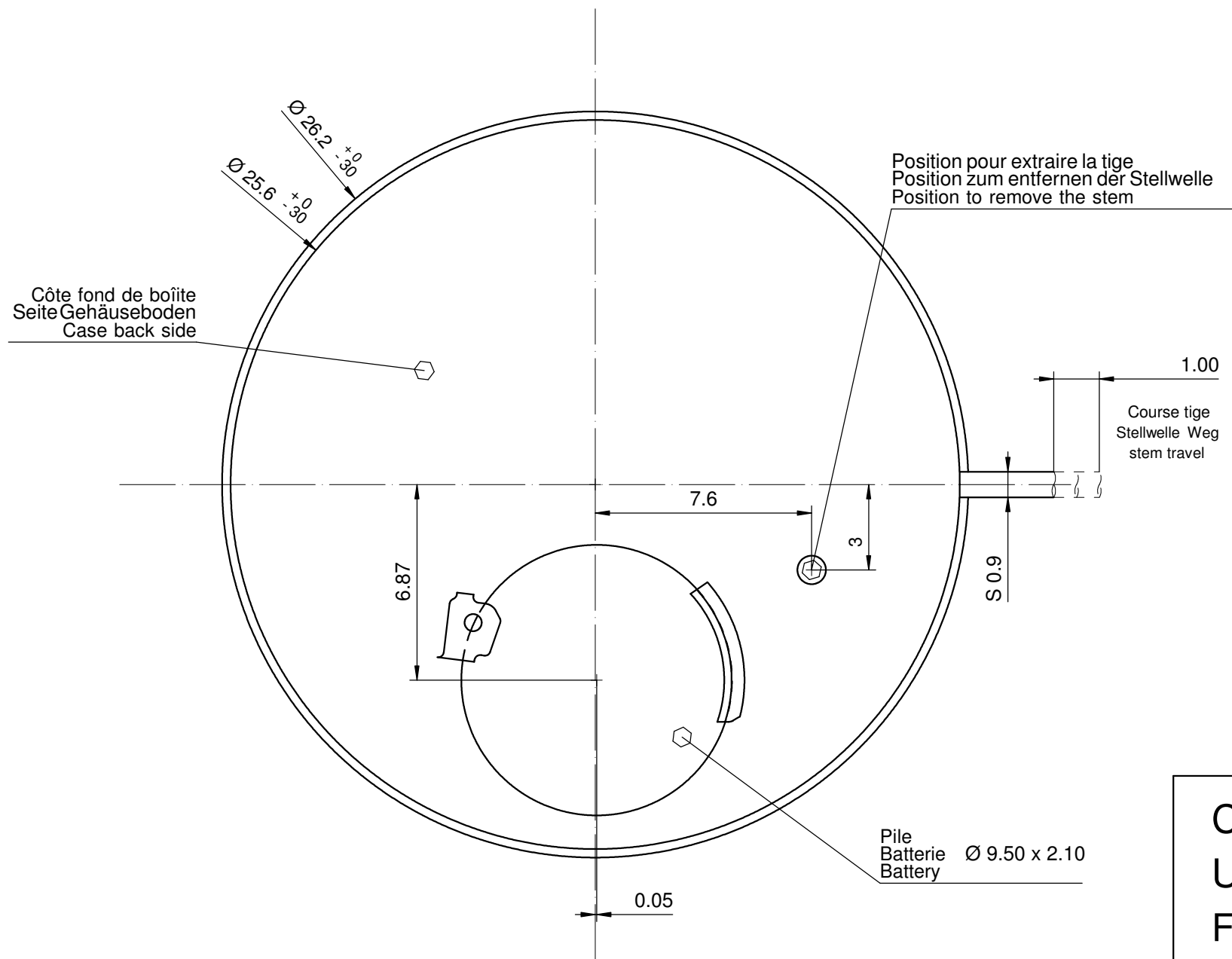
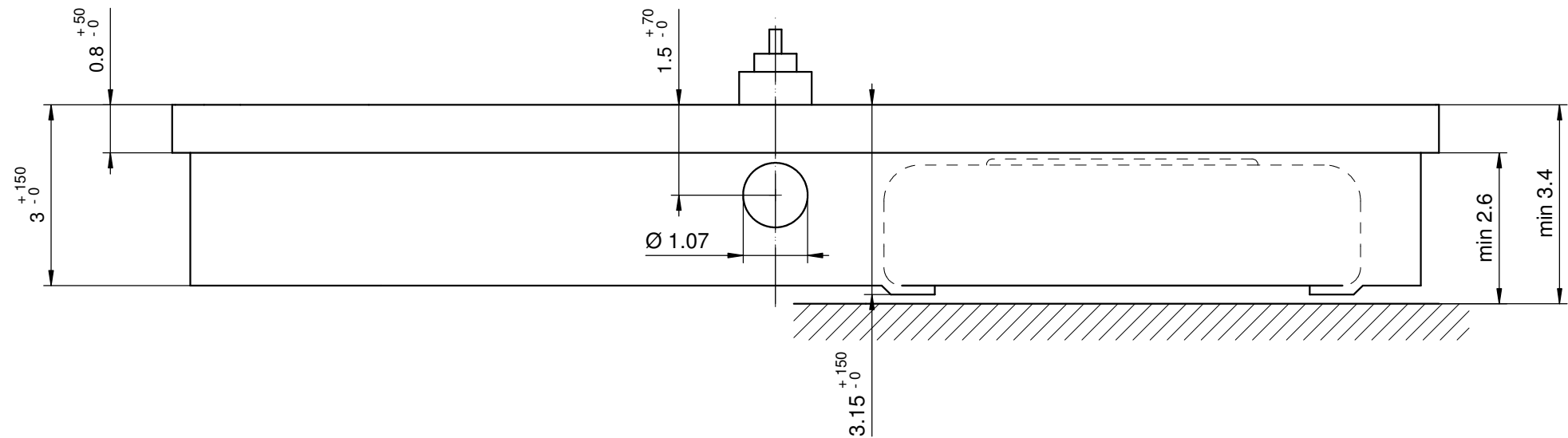
型号 515.24D - 11□'

#### 技术规格

机芯直径	26.00 mm
内罩座位直径	25.60 mm
机芯厚度	3.00 mm
电池以上厚度	3.25 mm
机芯座位	0.80 mm
把中	1.50 mm
把心行程	1.00 mm
把心螺纹直径	0.90 mm
秒针运行扭力 - 一般情况下	11 $\mu$ Nm
分针运行扭力 - 一般情况下	550 $\mu$ Nm
运作温度	0 - 50 ° C
误差率	-10/ +20 秒/月
防磁度	18.8 Oe
防震度	NIHS 91-10

#### 电池规格

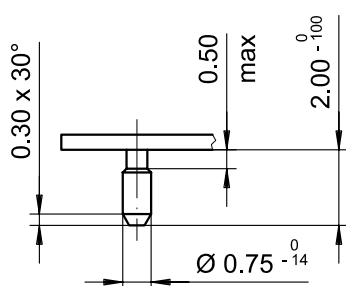
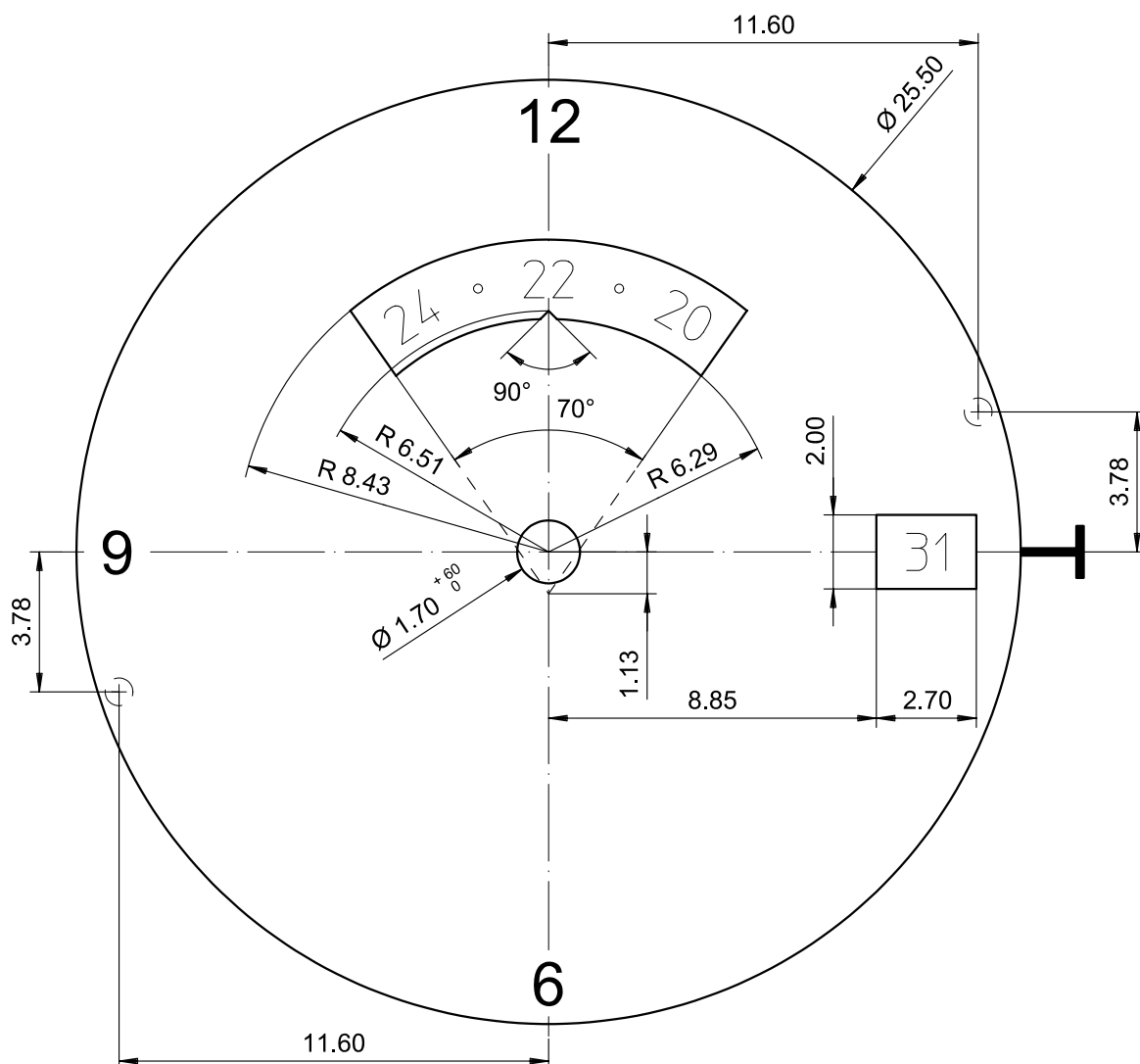
电池类型	型号 371
电池寿命	45 月
电压	1.5 V
电耗 - 一般情况下	1.28 $\mu$ A (日历不在跳动当中)
电耗 - 上限	1.85 $\mu$ A (日历不在跳动当中)



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

Le cadran doit être maintenu en hauteur par la boîte.  
Das Zifferblatt muss in der Höhe vom Gehäuse festgehalten werden.  
The dial must be held in the height by the case.

Cage Uhrwerkgestell Frame		11 1/2"	Issued		10 Mrz 1999	gd
			Modified		23 Jun 2011 ÄA 11169	dh
			Released		YES	
			Tolerance		+/- 20 µm	
			Scale		10 : 1 (5 : 1) (A3H)	
RONDA	515.24D	Sous réserve de modifications Änderungenvorbehalten Modificationsreserved				
		No.	5000.297		05	



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

Tige	Date	24h
Stellw.	Datum	24h
Stem	Date	24h
3H	3H	12H

Cadran  
Zifferblatt  
Dial

11½"

Issued	04 Sep 2007	cm
Modified	16.Aug.2007 ÄA 2480	cm
Released	YES	
Tolerance	+/- 20 µm	
Scale	5 : 1 (A4V)	

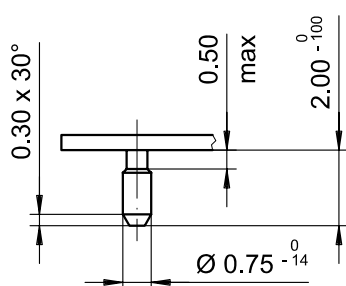
RONDA



515.24D

Sous réserve de modifications  
Änderungen vorbehalten  
Modifications reserved

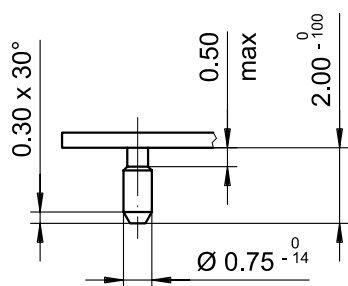
No.	5010.572	02
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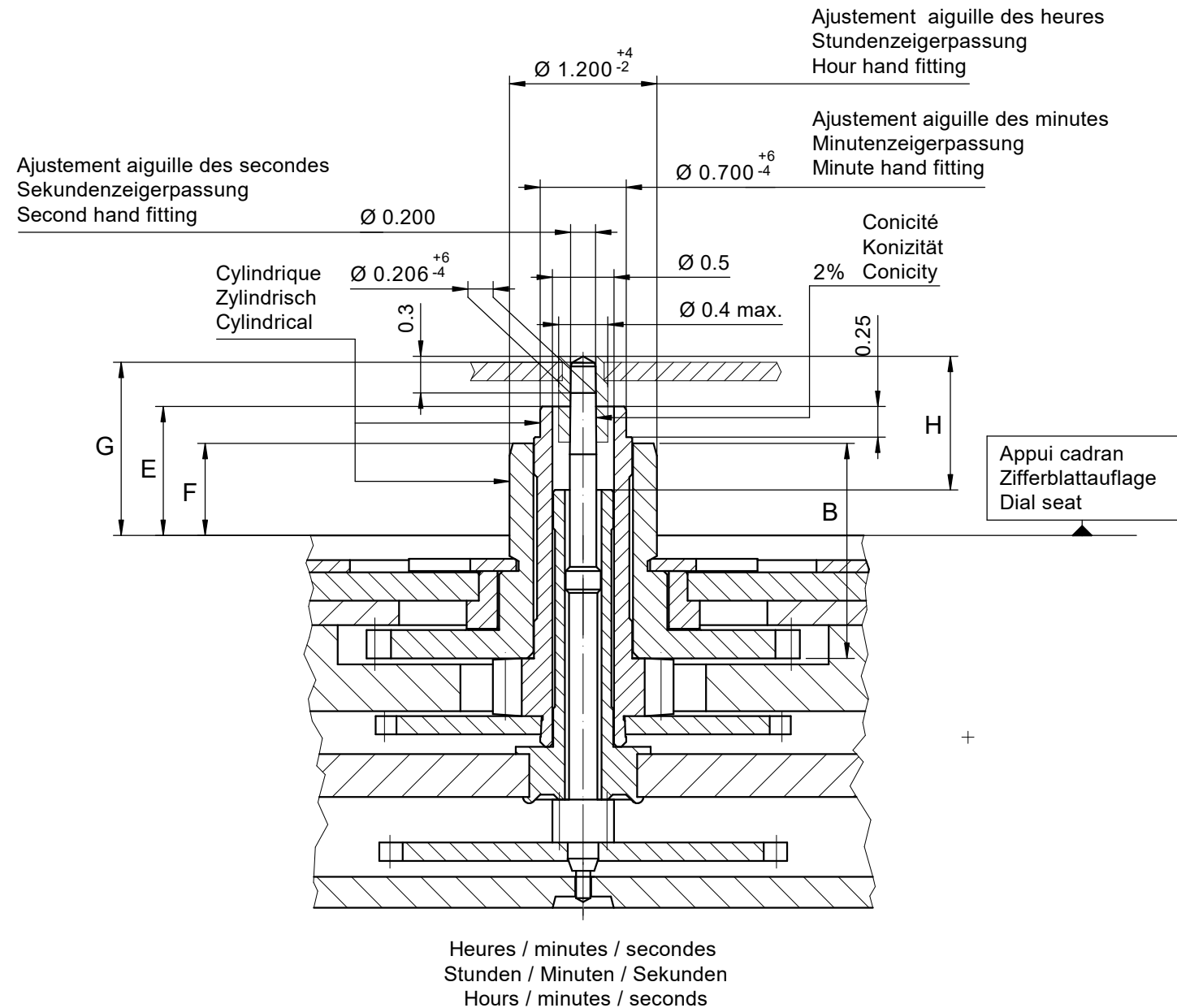
Tige	Date	24h
Stellw.	Datum	24h
Stem	Date	24h
3H	3H	6H
		

Cadran Zifferblatt Dial <div style="float: right; font-size: 2em;">11½"</div>		Issued	04 Sep 2007	cm
		Modified	16.Aug.2007 ÄA 2480	cm
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	515.24D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.573	02



Tige	Date	24h
Stellw.	Datum	24h
Stem	Date	24h
3H	6H	12H
		

Cadran Zifferblatt Dial <div style="float: right; font-size: 2em;">11½"</div>		Issued	04 Sep 2007	cm
		Modified	16.Aug.2007 ÄÄ 2480	cm
		Released	YES	
		Tolerance	+/- 20 µm	
		Scale	5 : 1 (A4V)	
RONDA	515.24D	Sous réserve de modifications Änderungen vorbehalten Modifications reserved		
		No.	5010.577	02

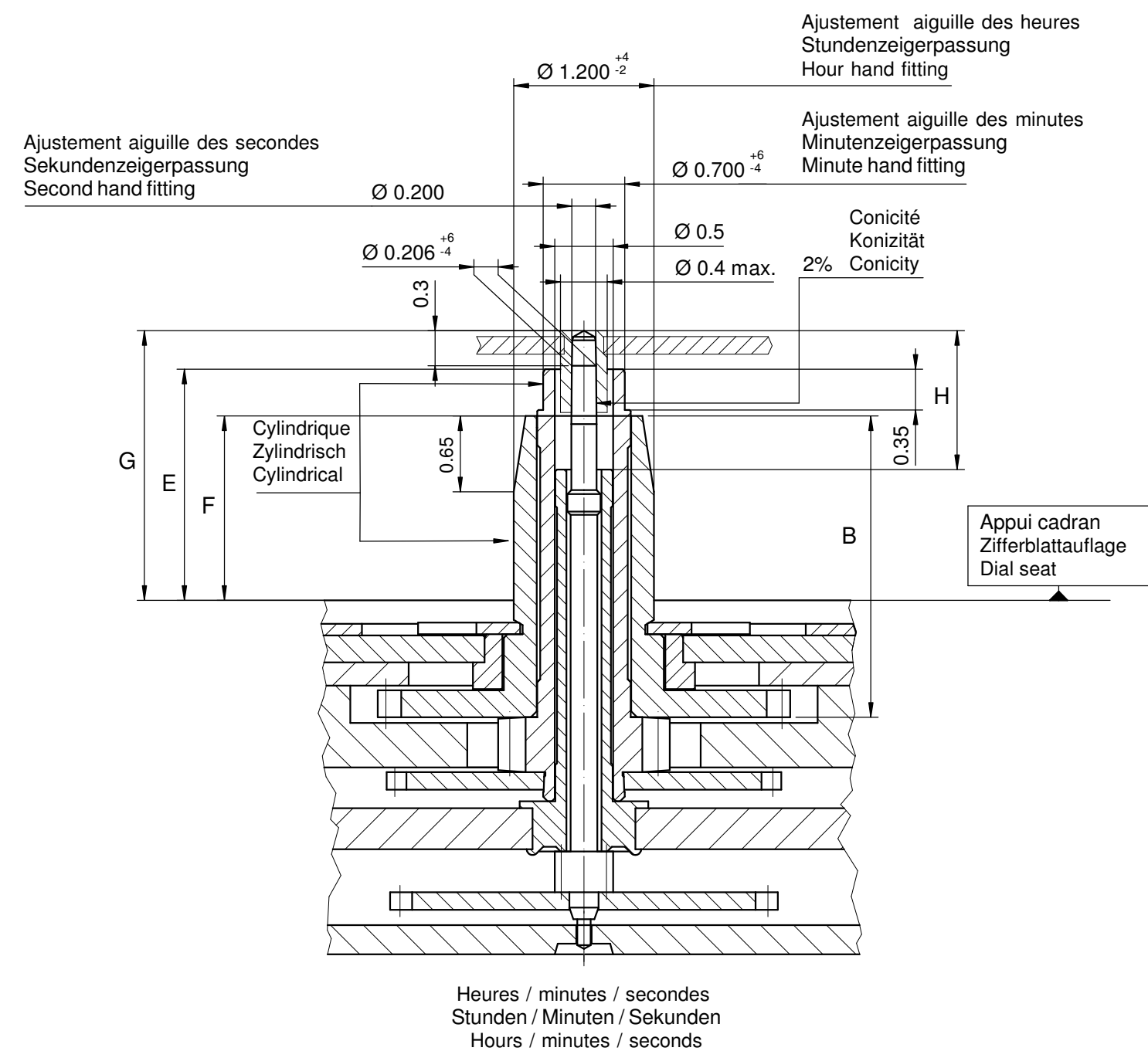


Aiguillage no Zeigerwerkhöhe Nr. Hand fitting height No	Dépassement Höhe über Zifferblattauf­lage Height over dial seat			Longueur Länge Length		Epaisseur max. (peinture comprise) Max. Dicke (inkl. Farbe) Max. thickness (paint included)			
	Pignon des secondes Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel		Roue des heures Stundenrad Hour wheel	Cadran Zifferblatt Dial			Aiguilles Zeiger Hands
						Sous l'aiguille des secondes Unter Sekundenzeiger Under second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	
1	G	E	F	H	B	0.95	0.65	0.40	0.15
2	1.46	1.05	0.75	1.09	1.75	1.30	1.00	0.75	0.15

		Aig. des secondes Sekundenzeiger Second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour 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.	10	30	30	Masse / Masse / Weight *
µNm	max.	0.08	0.70	0.70	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup>	max.	0.4	-	-	Inertie / Massenträgheit / Inertia *
N	max.	30	40	40	Force de chassage / Aufpresskraft / Force

Aiguillages Zeigerwerkhöhen Hand fitting heights		Issued	10.03.1999	gd
		Modified	25.02.2022	jk5228
		Released	YES	
		Mod. No.	38099	
		Tolerance	µm	
		Scale	10 : 1	Page 1/1 A3
RONDA	507, 509, 517, 519 505.24D, 515.24D	Sous réserve de modifications Aenderungen vorbehalten Modifications reserved		
		No.	3316.060	08

\* 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



Aiguillage no ZeigerwerkhöheNr. Hand fitting height No	Dépassement Höhe über Zifferblattaufage Height over dial seat			Longueur Länge Length		Epaisseur max. (peinture comprise) Max. Dicke (inkl. Farbe) Max. thickness (paint included)			
	Pignon des secondes Sekundentrieb Second pinion	Chaussée Minutenrohr Cannon-pinion	Roue des heures Stundenrad Hour wheel		Roue des heures Stundenrad Hour wheel	Cadran Zifferblatt Dial			Aiguilles Zeiger Hands
						Sous l'aiguille des secondes Unter Sekundenzeiger Under second hand	Sous l'aiguille des minutes Unter Minutenzeiger Under minute hand	Sous l'aiguille des heures Unter Stundenzeiger Under hour hand	
6	G	E	F	H	B	1.80	1.55	0.40	0.15

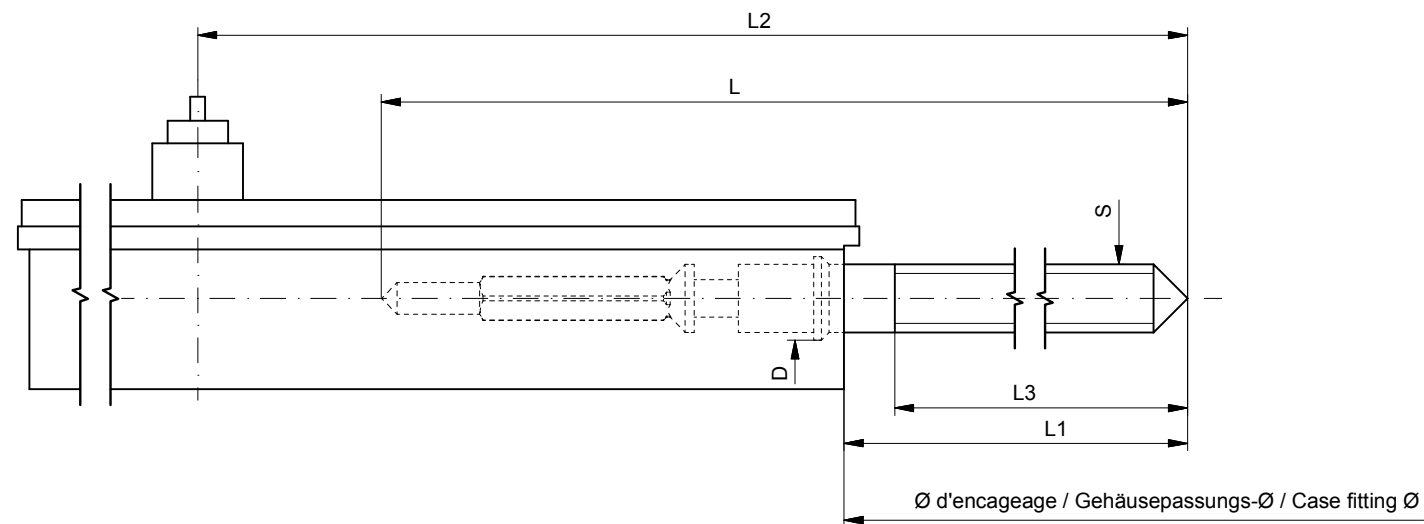
	Aig. des secondes Sekundenzeiger Second hand	Aig. des minutes Minutenzeiger Minute hand	Aig. des heures Stundenzeiger Hour hand	Lors de la pose d'aiguilles, le mouvement doit être soutenu. Beim Zeigersetzen muss das Werk abgestützt werden. The movement needs to be supported for hand setting.
mg max.	10	30	30	Masse / Masse / Weight *
µNm max.	0.08	0.70	0.70	Balourd / Unwucht / Unbalance *
gmm <sup>2</sup> max.	0.4	-	-	Inertie / Massenträgheit / Inertia *
N max.	30	40	40	Force de chassage / Aufpresskraft / Force

Sous réserve de toutes modifications		Änderungen vorbehalten		All modifications reserved			
Aiguillages Zeigerwerkhöhen Hand fitting heights				Issued		23 Mai 2011	dh
				Modified		24 Mai 2011 ÄA 11034	dh
				Released		Yes	
				Tolerance		µm	
				Scale		20 : 1 (A3H)	
RONDA	507, 509, 517, 519 505.24D, 515.24D			Sous réserve de modifications Änderungen vorbehalten Modifications reserved			
				No.	3316.157	00	

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

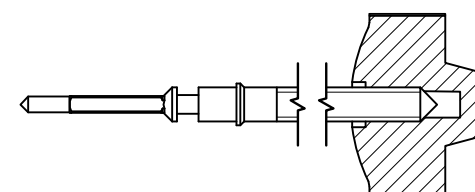
\* Bei abweichenden Werten, bitte technischen Kundendienst anfragen

\* 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)

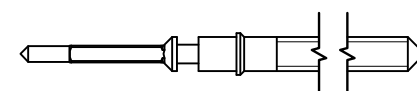
No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.164.CO	20.50	9.92	22.72	11.83	0.90	1.05



Couleur de la couronne Kronenfarbe Crown color	brun braun brown
Code	UN 8052

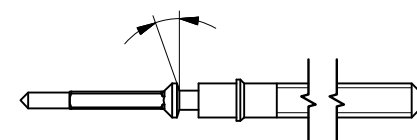
Tige (normale) / Stellwelle (normal) / Stem (normal)

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.164	20.50	9.92	22.72	11.83	0.90	1.05
3000.171	32.50	21.92	34.72	23.83	0.90	1.05



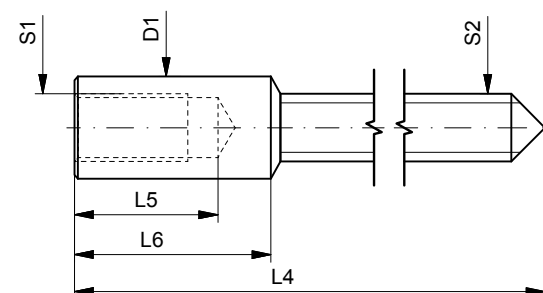
Tige (à arracher)  
Stellwelle (Ausreissversion)  
Stem (extractable version)

No. d'article Artikelnummer Part number	L	L1	L2	L3	S	D
3000.163	20.50	9.92	22.72	11.83	0.90	1.05
3000.196	32.50	21.92	34.72	23.83	0.90	1.05

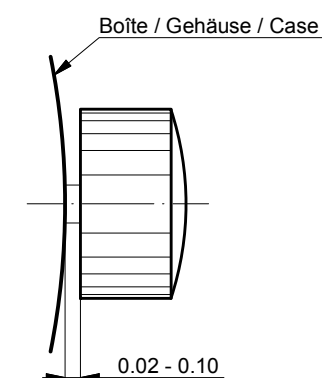


Rallonge de tige / Stellwelle Verlängerung / Stem extension

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



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

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

RONDA

512, 513, 513S, 515, 515S, 515.24H,  
515.24D, 517, 517S, 519, 519S

Issued	15.08.2012	ds5222
Modified	29.06.2018	ds5222
Released	YES	
Mod. No.	38099	
Tolerance	---	
Scale	---	Page 1 /1 A3

Sous réserve de modifications  
Aenderungen vorbehalten  
Modifications reserved

No.	5030.002	02
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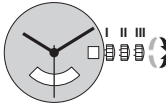
中文 使用手册  
机芯型号

朗达 强力系列

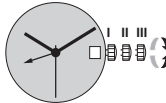
- 505.24D/515.24D
- 505.24H/515.24H
- 507/517
- 509/519

瑞士朗达是一个机芯供应商, 没有参与制造或分销成表。

若有任何手表相关之疑问, 如维修、保证期内投诉或手表功能问题, 请联络手表零售商、服务中心或制造商。所有联络资料可向您的销售员查询或参考保证文件。



Cal. 505.24D / 515.24D



Cal. 505.24H / 515.24H

把的位置. I 空檔位置 (腕錶運行)

把的位置. II 日期速調模式

以上型号机芯可以在日历转换时段(10:00 PM至12 PM)速调日历, 若在这时段内设定日期, 必须比正确日期多转一天. 因机芯在12PM后不再自动转换日期.

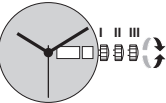
- 把的拉至位置 II (腕表继续运行).
- 顺时针转动把的至正确日期
- 推把的回位置 I

24小时显示速調模式

- 把的拉至位置 II (腕表继续运行).
- 逆时针转动把的至期望的时间显示
- 推把的回位置 I

把的位置. III 设定时间

- 把的拉至位置 III (腕表停止运行).
- 转动把的至正确时间 (留意24小时之上 / 下午时段).
- 推把的回位置 I



Cal. 507 / 517

把的位置. I 空檔位置 (腕錶運行)

把的位置. II 日期速調模式

以上型号机芯可以在日历转换时段(10:00 PM至12 PM)速调日历, 若在这时段内设定日期, 必须比正确日期多转一天. 因机芯在12PM后不再自动转换日期.

- 把的拉至位置 II (腕表继续运行).
- 转动把的至正确日期
- 推把的回位置 I

星期速調模式

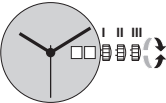
以上型号机芯不能在星期日历史转换时段(10:00 PM至12 PM)速调星期

- 次选语言通常会在24小时后约两小时显示, 直至显示转换至所需的语言
- 把的拉至位置 II (腕表继续运行).
- 逆时针转动把的至正确的星期显示
- 推把的回位置 I

Cal. 507 / 517

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.



Cal. 509 / 519

Pos. I Position of rest (watch running)

Pos. II Quick-change correction for date

The date display comprises a 2-disc system. For construction reasons, on the first day of a new month, the date must be set on 01 via the quick-change method passing through 31–39.

The date can also be changed during the day-changing phase between approx. 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.

- Pull the crown out to position II (watch still running).
- Turn the crown clockwise 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.

Applies to all calibers:  
Battery type: 371/SR920SW (Ø 9.5 mm x 2.05 mm)  
Precision: +20/-10 seconds per month

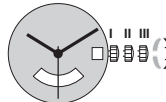
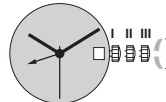


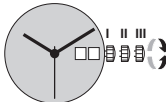


RONDA powertech

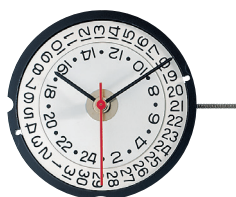
- 505.24D/515.24D
- 505.24H/515.24H
- 507/517
- 509/519

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.

				
Cal. 505.24D / 515.24D	Cal. 505.24H / 515.24H	Cal. 507 / 517	Cal. 507 / 517	Cal. 509 / 519
<p><b>Pos. I Position of rest</b> (watch running)</p> <p><b>Pos. II Quick-change correction for date</b> <i>The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.</i></p> <ul style="list-style-type: none"><li>– Pull the crown out to position II (watch still running).</li><li>– Turn the crown clockwise until the required date appears.</li><li>– Push the crown back into position I.</li></ul> <p><b>Quick-change correction for 24-hour display</b></p> <ul style="list-style-type: none"><li>– Pull the crown out to position II (watch still running).</li><li>– Turn the crown anticlockwise until the desired time appears.</li><li>– Push the crown back into position I.</li></ul> <p><b>Pos. III Setting the time</b></p> <ul style="list-style-type: none"><li>– Pull the crown out to position III (watch stopped).</li><li>– Turn the crown, until the current time is displayed (remember the 24-hour cycle).</li><li>– Push the crown back into position I.</li></ul>	<p><b>Pos. I Position of rest</b> (watch running)</p> <p><b>Pos. II Quick-change correction for date</b> <i>The date can also be corrected during the day-changing phase between 10 pm and midnight. The date of the following day has to be set, because no automatic date change takes place at midnight.</i></p> <ul style="list-style-type: none"><li>– Pull the crown out to position II (watch still running).</li><li>– Turn the crown until the required date appears.</li><li>– Push the crown back into position I.</li></ul> <p><b>Quick-change correction for day of the week</b> <i>The blocking time for the day of the week quick-change correction is from approx. 10 pm and midnight.</i></p> <ul style="list-style-type: none"><li>– The second language always first appears around 24.00hrs for about 2 hours, until the display changes to the required language.</li><li>– Pull the crown out to position II (watch still running).</li><li>– Turn crown anticlockwise until the desired day of the week appears in the required language.</li><li>– Push the crown back into position.</li></ul>	<p><b>把的位置. III 设定时间</b></p> <ul style="list-style-type: none"><li>– 把的拉至位置III (腕表停止运行).</li><li>– 转动把的至正确时间 (留意24小时之上 / 下午时段).</li><li>– 推把的回位置 I</li></ul>	<p><b>把的位置. I 空槽位置</b> (腕表運行)</p> <p><b>把的位置. II 日期速調模式</b> <i>此日期显示由 2 盆系统所组成. 由于结构的原因, 在每一个月开始, 必须使用速调模式去调走 31–39 号, 直至显示 01。</i></p> <p><i>机芯可以在日历转换时段(10:00 PM至12 PM)速调日历, 若在这时段内设定日期, 必须比正确日期多转一天. 因机芯在12PM后不再自动转换日期.</i></p> <ul style="list-style-type: none"><li>– 把的拉至位置 II (腕表继续运行).</li><li>– 顺时针转动把的至正确日期</li><li>– 推把的回位置 I</li></ul> <p><b>把的位置. III 设定时间</b></p> <ul style="list-style-type: none"><li>– 把的拉至位置III (腕表停止运行).</li><li>– 转动把的至正确时间 (留意24小时之上 / 下午时段).</li><li>– 推把的回位置 I</li></ul>	

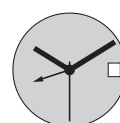
以上所有型号:  
电池种类: 371/SR920SW (Ø 9.5 mm x 2.05 mm) 误差规格: +20 / -10 秒(每月)



11 1/2<sup>mm</sup>



515.24D



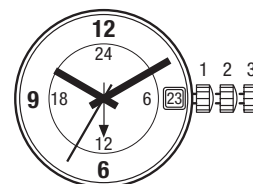
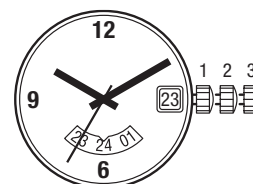
515.24H

## Funktionen

## Fonctions

## Functions

Kaliber	Stellwellenpos.	Funktionen
Calibre	Pos. de tige	Fonctions
Caliber	Stem position	Functions
515.24	1	Normale Position / Position normale / Running position
	2	Datumkorrektur / 24-Stundenkorrektur Correction de la date / Correction 24 heures Date correction / 24 hours correction
	3	Zeiger stellen, Sekunden-Stopp mit Unterbruch der Motorimpulse Mise à l'heure, stop-seconde avec interruption des impulsions moteur Hand setting, stop-second with interruption of motor pulses



## Batterie

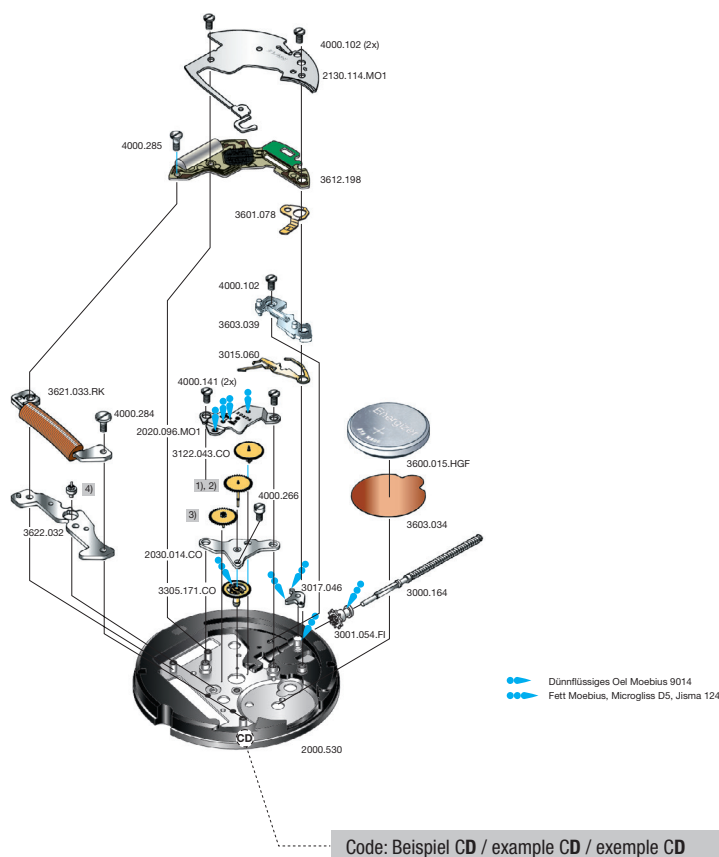
## Pile

## Battery

Kaliber	Batterie	Spannung	Artikelnummer RONDA
Calibre	Pile	Voltage	Numero d'article RONDA
Caliber	Battery	Tension	Part number RONDA
515.24	371 / SR920SW	1.55 V	3600.015.HGF



11 1/2''' 515.24H, 515.24D



Cal. 515.24D	Werkseite / Côté mouvement / Movement side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2000.530	Werkplatte	Platine	Main plate
2020.096.MO1	Räderwerkbrücke	Pont rouage	Train w. bridge
2030.014.CO	Zentrumbrücke	Pont centre	Centre bridge
2130.114.MO1	Modul-Abdeckp.	Couvre module	Module cover pl.
3000.164	Stellwelle	Tige	Stem
3001.054.FI	Kupplungstrieb	Pignon coulant	Sliding pinion
3015.060	Kuppl.-triebhebel	Bascule	Yoke
3017.046	Winkelhebel	Tirette	Setting lever
3122.043.CO	Kleinbodenrad	Roue moyenne	Third wheel
1)	Sekundenrad	Roue secondes	Second-wheel
3)	Zwischenrad	Roue interméd.	Intermed. wheel
3305.171.CO	Minutenrohr	Chaussée	Cannon pinion
3600.015.HGF	Batterie	Pile	Battery
3601.078	Batterie-Kontakt	Bride contact	Battery contact
3603.034	Batterie-Isolation	Isolateur pile	Battery insulation
3603.039	Deckplatte/ Ste.	Couvre mécan.	Setting lev. cover
3612.198	Modul	Module	Module
3621.033.RK	Spule	Bobine	Coil
3622.032	Stator	Stator	Stator
4)	Rotor	Rotor	Rotor
4000.102	Schraube	Vis	Screw
4000.141	Schraube	Vis	Screw
4000.266	Schraube	Vis	Screw
4000.284	Schraube	Vis	Screw
4000.285	Schraube	Vis	Screw

#### Abweichungen / Divergences / Deviations

Cal. 515.24H	Werkseite / Côté mouvement / Movement side		
Plan No.	Bestandteile	Fournitures	Spare Parts
A)	Sekundenrad	Roue secondes	Second-wheel
3305.180.CO	Minutenrohr	Chaussée	Cannon pinion

Cal. 515.24D		
Bis Juni 2015 Jusqu' en Juin 2015 Untill June 2015		Ab Juli 2015 A partir de Juillet 2015 From July 2015
Code	2. Buchstabe ... <b>C</b> Second letter ... <b>C</b> 2 <sup>ème</sup> chiffre: ... <b>C</b>	2. Buchstabe: ab <b>D</b> Second letter: from <b>D</b> 2 <sup>ème</sup> chiffre: à partir de <b>D</b>
1)	3136.090.CO	3136.194.CO
3)	3147.019.CO	3147.092.CO
4)	3715.089.RK	3715.144.RK

Die obigen 3 Teile bilden jeweils eine Gruppe. Deshalb sind die 3 Teile jeder Gruppe nicht einzeln gegeneinander austauschbar.

Les 3 fournitures ci-dessous forment un groupe individuel. C'est pourquoi les 3 fournitures de chaque groupe ne sont pas interchangeables.

The 3 parts mentioned above are forming an individual group. Therefore the 3 parts of each group are not interchangeable.

Cal. 515.24H		
Bis Juni 2015 Jusqu' en Juin 2015 Untill June 2015		Ab Juli 2015 A partir de Juillet 2015 From July 2015
Code	2. Buchstabe ... <b>C</b> Second letter ... <b>C</b> 2 <sup>ème</sup> chiffre: ... <b>C</b>	2. Buchstabe: ab <b>D</b> Second letter: from <b>D</b> 2 <sup>ème</sup> chiffre: à partir de <b>D</b>
2)	3136.095.CO	3136.218.CO
3)	3147.019.CO	3147.092.CO
4)	3715.089.RK	3715.144.RK

Die obigen 3 Teile bilden jeweils eine Gruppe. Deshalb sind die 3 Teile jeder Gruppe nicht einzeln gegeneinander austauschbar.

Les 3 fournitures ci-dessous forment un groupe individuel. C'est pourquoi les 3 fournitures de chaque groupe ne sont pas interchangeables.

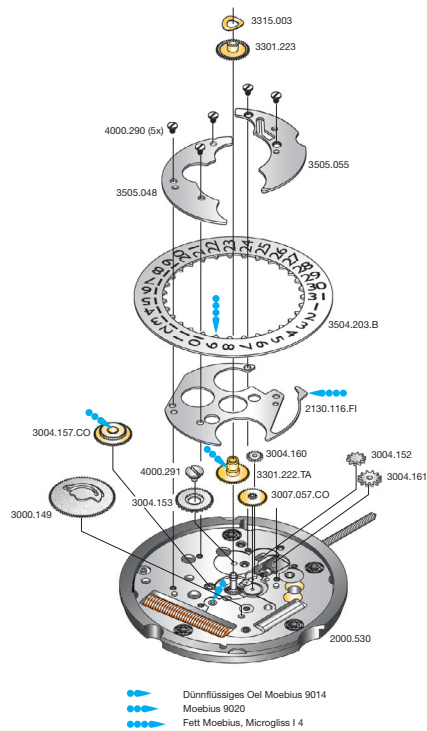
The 3 parts mentioned above are forming an individual group. Therefore the 3 parts of each group are not interchangeable.

# Werkaufbau

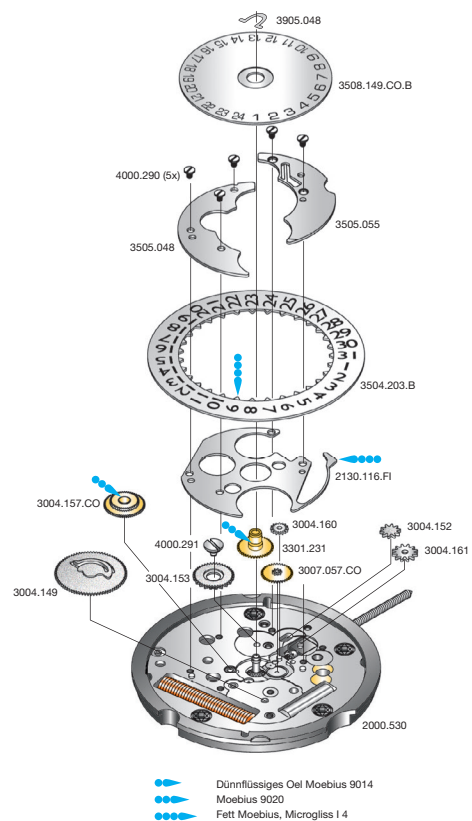
# Assemblage

# Assembling

11 1/2''' 515.24H

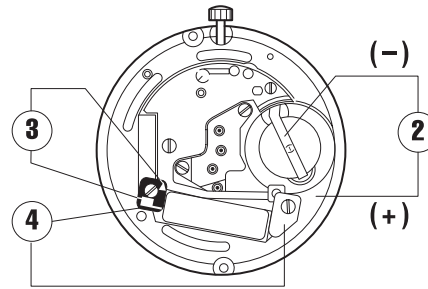
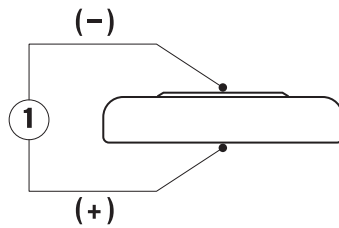


11 1/2''' 515.24D



Cal. 515.24H	Zifferblattseite / Côté cadran / Dial side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2130.116.FI	Kalenderplatte	Plaque calendrier	Date ind. plate
3004.160	Zeigerstellrad	Renvoi minuterie	Setting wheel
3004.149	Datummitn.-rad	Renvoi entraîin.	Ind. driving wheel
3004.161	Verbindungsrad-Kupplungtrieb	Renvoi pig. coulant	Slid. pin. sett. wh.
3004.152	Umkehrad	Baladeur	Correction wheel
3004.153	Korrekturrad	Roue correcteur	Correcteur wheel
3004.157.CO	Friktionsrad	Friction	Friction wheel
3007.057.CO	Wechselrad	Minuterie	Minute wheel
3301.222.TA	Stundenrad	Canon	Hour wheel
3301.223	Stundenrad	Canon	Hour wheel
3315.003	Spreizfeder	Clinquant	Washer
3504.203.B	Datumsanzeiger	Baque	Date indicator
3505.055	Kalender-Abdeckplatte (Nr. 2)	Couvercle calendrier (no. 2)	cover (no. 2)
3505.048	Kalender-Abdeckplatte (Nr. 1)	Couvercle calendrier (no. 1)	cover (no. 1)
4000.290	Schraube	Vis	Screw
4000.291	Schraube	Vis	Screw

Cal. 515.24D	Zifferblattseite / Côté cadran / Dial side		
Plan No.	Bestandteile	Fournitures	Spare Parts
2130.116.FI	Kalenderplatte	Plaque calendrier	Date indicator pl.
3004.160	Zeigerstellrad	Renvoi minuterie	Setting wheel
3004.149	Dat.-Mitn.rad	Renvoi entraîneur	Ind. driving wh.
3004.161	Verbindungsrad-Kupplungtrieb	Renvoi pig. cou.	Sliding pin. set.
3004.152	Umkehrad	Baladeur	Sliding gear
3004.153	Korrekturrad	Roue corr. disque	Correcteur wheel
3004.157.CO	Friktionsrad	Friction	Friction wheel
3007.057.CO	Wechselrad	Minuterie	Minute wheel
3301.231.TA	Stundenrad	Canon	Hour wheel
3504.203.B	Datumanzeiger	Baque	Date indicator
3505.048	Kalender- Abdeckplatte (Nr. 1)	Couvercle calendrier (no. 1)	Date indicaor cover (no. 1)
3505.055	Kalender- Abdeckplatte (Nr. 2)	Couvercle calendrier (no. 2)	Date indicaor cover (no. 2)
3508.149.CO.B	24 Std.-Scheibe	Disque 24 h	24 h indicator
3905.048	Klemmfeder für Tagesscheibe	Clavett disque	Disc spring clip
4000.290	Schraube	Vis	Screw
4000.291	Schraube	Vis	Screw



Kaliber Calibre Caliber	Pos. Pos. Pos.	Einheit Unité Unit	Messwerte Valeurs mesurées Measured values	Kontrolle Contrôle Check	Bemerkungen Remarques Remarks
515.24H 515.24D	1	V	1,55	Batterie-Spannung Tension de la pile Battery voltage	Batterie herausnehmen und messen Enlever et mesurer la pile Remove battery for measuring
515.24H 515.24D	2	µA	1,10–1,85	Stromaufnahme Consom. de courant Power consumption	Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe Without battery, with external power supply
515.24H 515.24D	2	V	≤ 1,30	Funktionskontrolle bei Minimalspannung Contrôle de fonctionnement à tension minimale Check with lowest possible voltage	Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe Without battery, with external power supply
515.24H 515.24D	3	KΩ	1,90–2,10	Spulenwiderstand Résistance de la bobine Resistance of the coil	Ohne Batterie Sans pile Without battery
515.24H 515.24D	4	KΩ	∞	Spulenisolation Isolation de la bobine Coil insulation	Ohne Batterie Sans pile Without battery
515.24H 515.24D		Sek./Monat sec./mois sec./month	- 10/+ 20	Induktivsonde 60 Sek. Senseur inductif 60 sec. Inductive sensor 60 sec.	Mit Batterie Avec pile With battery

## Einschalen / Werkzeuge

## Emboîtage / outils

## Casing / tools

Nr. H 51X.1A



Nr. H 51X.1T



	SWISS MADE & SWISS PARTS
Schraube Vis Screw	

## Zeigersetzen

Maximale Aufpresskraft:

- Stunden und Minutenzeiger: max. 40N
- Sekundenzeiger: max. 30N

Beim Zeigersetzen muss das Werk abgestützt werden.

## Poser les aiguilles

Force de chassage maximale:

- Aiguilles des heure et des minutes: max. 40N
- Aiguille des secondes: max. 30N

Lors de la pose d'aiguilles, le mouvement doit être soutenu.

## Hand setting

Maximal force:

- Hour and minute hands: max. 40N
- Second hand: max. 30N

The movement needs to be supported for hand setting.

Kal. 515.24H, 515.24D  
Stellwelle entfernen

Beim Entfernen der Stellwelle muss sich die Stellwelle in **Position 2** befinden, bevor auf den Winkelhebel gedrückt wird.

Cal. 515.24H, 515.24D  
Enlever la tige

En enlevant la tige, la tige doit se trouver en **position 2**, avant de pousser sur la tirette.

Cal. 515.24H, 515.24D  
Stem removal

For removal of the stem, the stem must be in **position 2** prior to apply pressure to the setting lever.