

**ISA** SPECIALITY

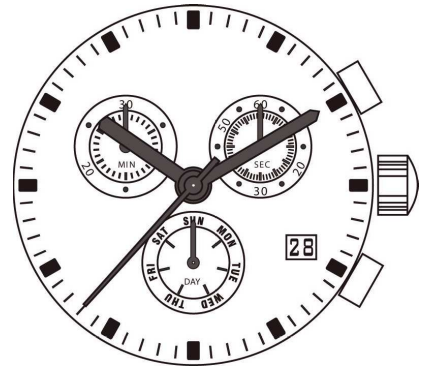
Cal 8172 / 220



SWISS MADE

ISASWISS CONCEPT

11 1/2 '''  
25.60 mm  
H. 4.20



In conformity with RoHS standard

CHRONOGRAPHS

10h



30 Mins.  
Chrono

6h



Day by  
Hand



Date by  
window

2h



Small Sec.



End Of Life

**ISASWISS**  
WATCH MECHANISMS

**Caractéristiques :**

Mouvement électronique à quartz. Moteur bi-rotor breveté. Moteurs rotatifs pas à pas. Petite seconde, 1 pas par seconde.  
 6 Aiguilles.  
 Tige 3 positions.  
 Jour par aiguille.  
 Quantième par guichet, correcteur de quantième rapide.  
 Trotteuse chronographe centrale, cinq pas par seconde. Compteur de minutes, 30 minutes, 1 pas par minute. Arrêt et remise à zéro automatique après 2 heures de chronométrage.  
 Fin de vie (EOL): Déplacement de l'aiguille de petite seconde de 4 pas toutes les 4 secondes.  
 Dispositif stop mécanique et électronique.

**Characteristics :**

Electronic quartz movement. Patented double rotor motor. Rotating stepping motors. Small second, 1 step per second.  
 6 Hands.  
 Stem 3 positions.  
 Day by hand.  
 Date by window, quick date correction.  
 Central chronograph trotteuse, five steps per second. Minute-counter, 30 minutes, 1 step per minute. Autostop and reset after 2 hours of timing.  
 End of life (EOL): Indication by small second hand jumping 4 successive steps every 4 seconds.  
 Stop device and current breaker.

**Kennzeichnungen :**

Elektronisches Quarzwerk. Patentierter Zweirotor Motor. Schrittschaltmotor Kleine Sekunde, 1 Schritt pro Sekunde.  
 6 Zeiger.  
 Stellwelle 3 Positionen.  
 Kleiner Tagszeiger.  
 Rasche Korrektur des Datums mittels Stellwelle.  
 Zentraler Chrono Zeiger, fünf Schritte pro Sekunde. 30 Minuten Zähler, 1 Schritt pro Minute. Stop und automatische Nullstellung nach 2 Zeitmessungstunden.  
 Batterie-End-Anzeige (EOL): Vorrücken des Sekundenzeigers alle 4 Sekunden (4-Schritt-Motorimplus).  
 Möglichkeit mechanisch oder elektrisch zu stoppen.

Critères Criteria Kriterium	Conditions Conditions Bedingungen	Min.	Typ.	Max.	Unités Units Einheit
Consommation Current consumption Stromaufnahme	U=1.55V T=25°C		1.35		µA
Marche instantanée Instantaneous rate Momentaner Gang	U=1.55V T=25°C	-0.5 (-15)		+ 0.5 (+15)	s/jour s/day s/Tag (s/mois s/month s/Monat)
Température de fonctionnement Operating temperature Betriebstemperatur		0		+ 50	°C
Résistance aux champs magnétiques Resistance to magnetic fields Magnetfeldabschirmung			1500 (18.8)		A/m (Oe)

Qté Qty Menge	Désignation Designation Bezeichnung	Type Model Typ	Tension Voltage Spannung	Code Code Kode	Capacité Capacity Kapazität	Autonomie théorique Theoretical Autonomy Theoretische Gangreserve
1	Pile Battery Batterie 9.50 x 2.70	SR 927 W	1.55 V	395	55 mAh	57 mois 41 * months Monate

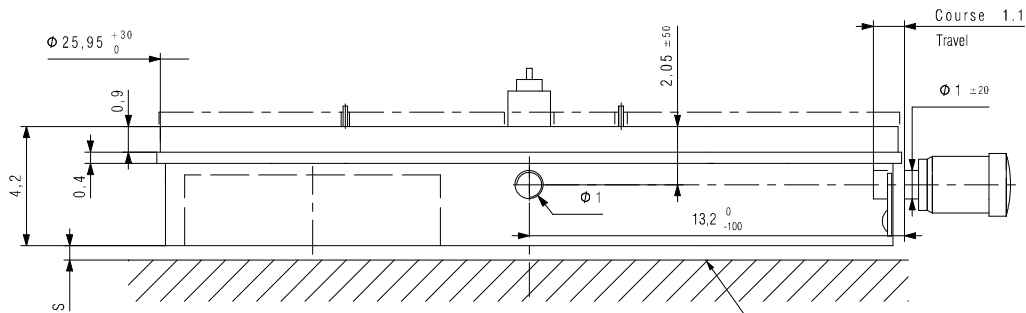
DIMENSIONS IN mm. - TOLERANCES IN µm.

\* Avec chrono 1h / j - With chrono 1h / d - Mit chrono 1St./T

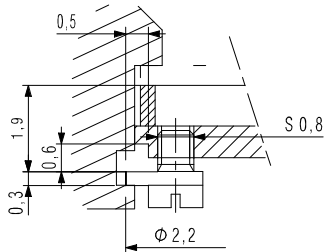
In conformity with RoHS standard

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 2

### CAGE (POUSSOIRS RADIAUX) / FRAME (RADIAL PUSHERS)



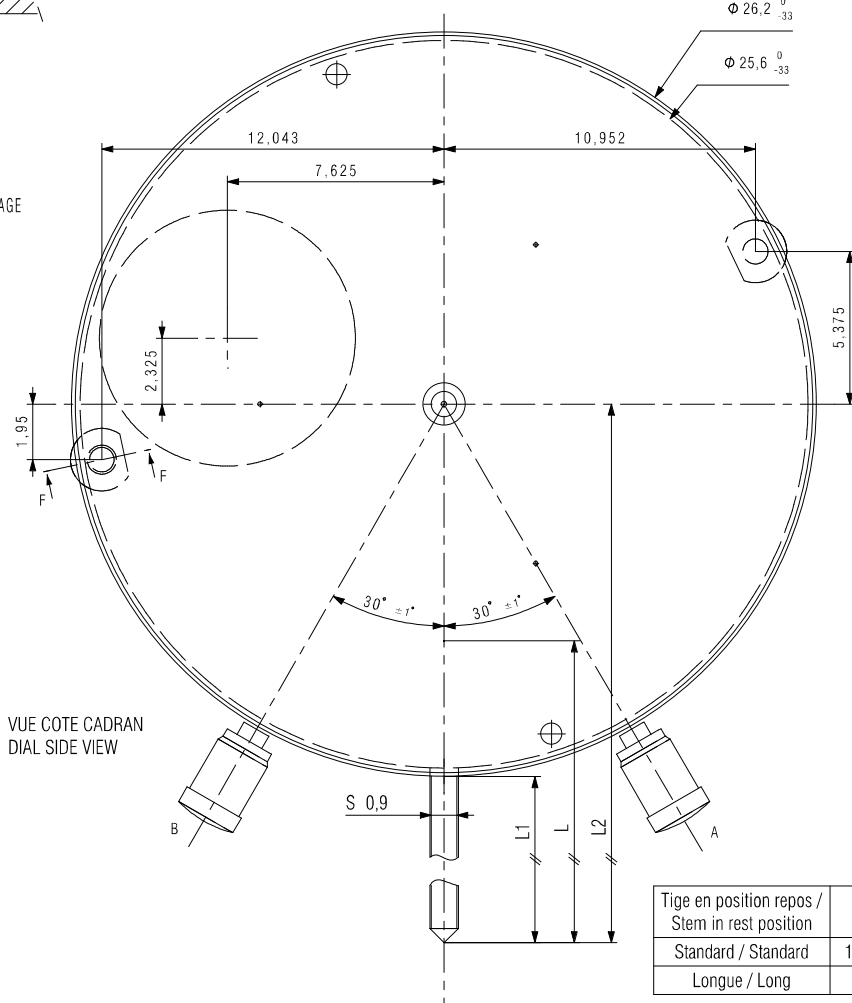
COUPE / CUT F-F



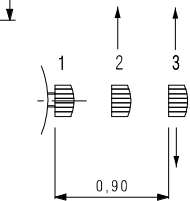
FIXATION DU MOUVEMENT  
FASTENING OF MOVEMENT  
CLEFS DE FIXE OU CERCLE D'EMBOITAGE  
CASE SCREWS OR CASING RING  
AUTRES FIXATIONS POSSIBLES  
OTHER FIXATIONS POSSIBLES

S = 0.30 ± 80 pour exécution bride positive / for bridle positive  
S = 0.50 mini pour exécution bride positive spéciale / for special bridle positive

Fond de la boîte  
Case back



VUE COTE CADRAN  
DIAL SIDE VIEW



- 1 : REPOS - REST
- 2 : QUANTIEME - DATE INITIALISATION
- 3 : MISE A L'HEURE - HANDS SETTING STOP

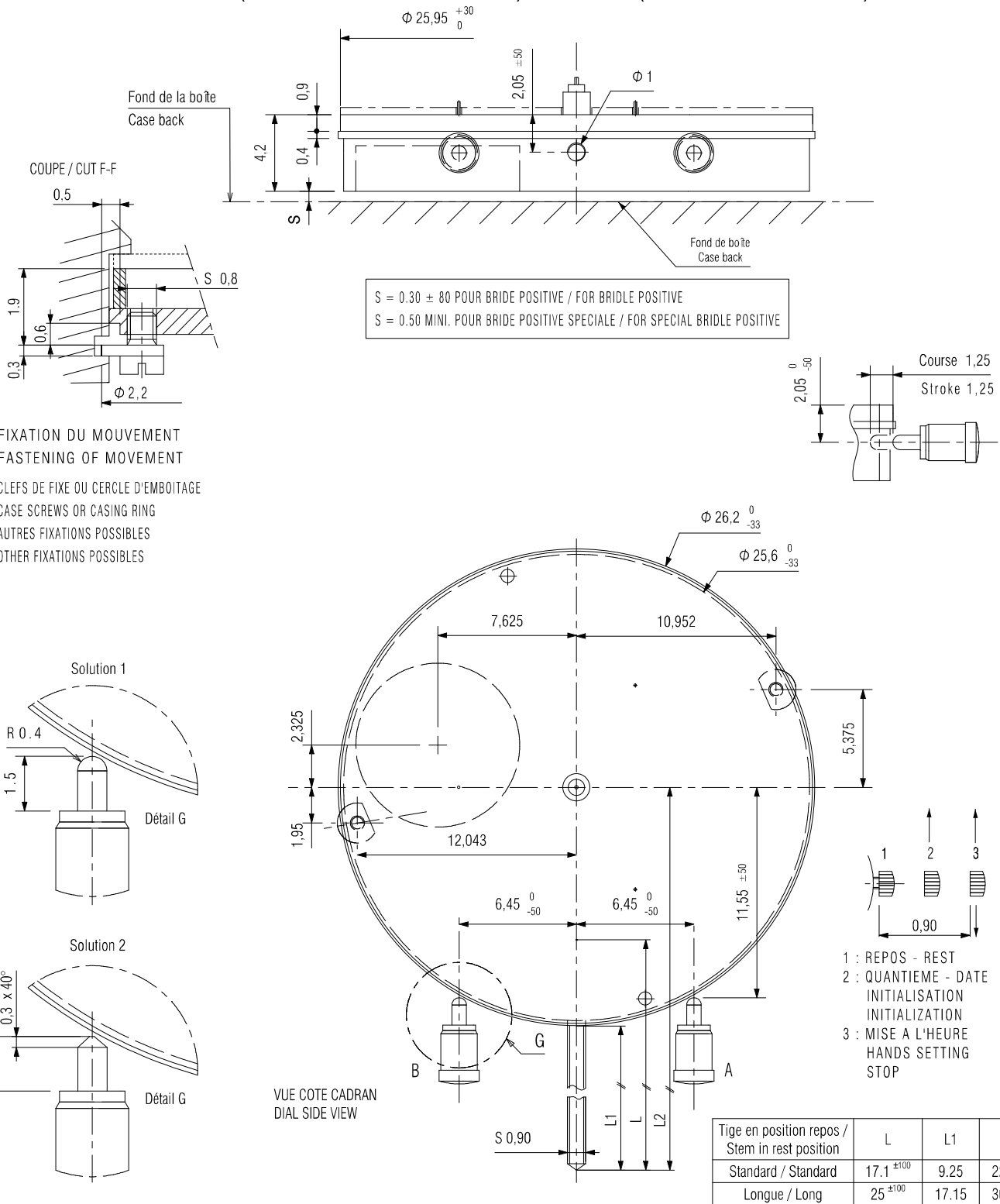
Tige en position repos / Stem in rest position	L	L1	L2
Standard / Standard	17.1 ±100	9.25	22.35
Longue / Long	25 ±100	17.15	30.25

DIMENSIONS IN mm. - TOLERANCES IN µm.

In conformity with RoHS standard

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 3

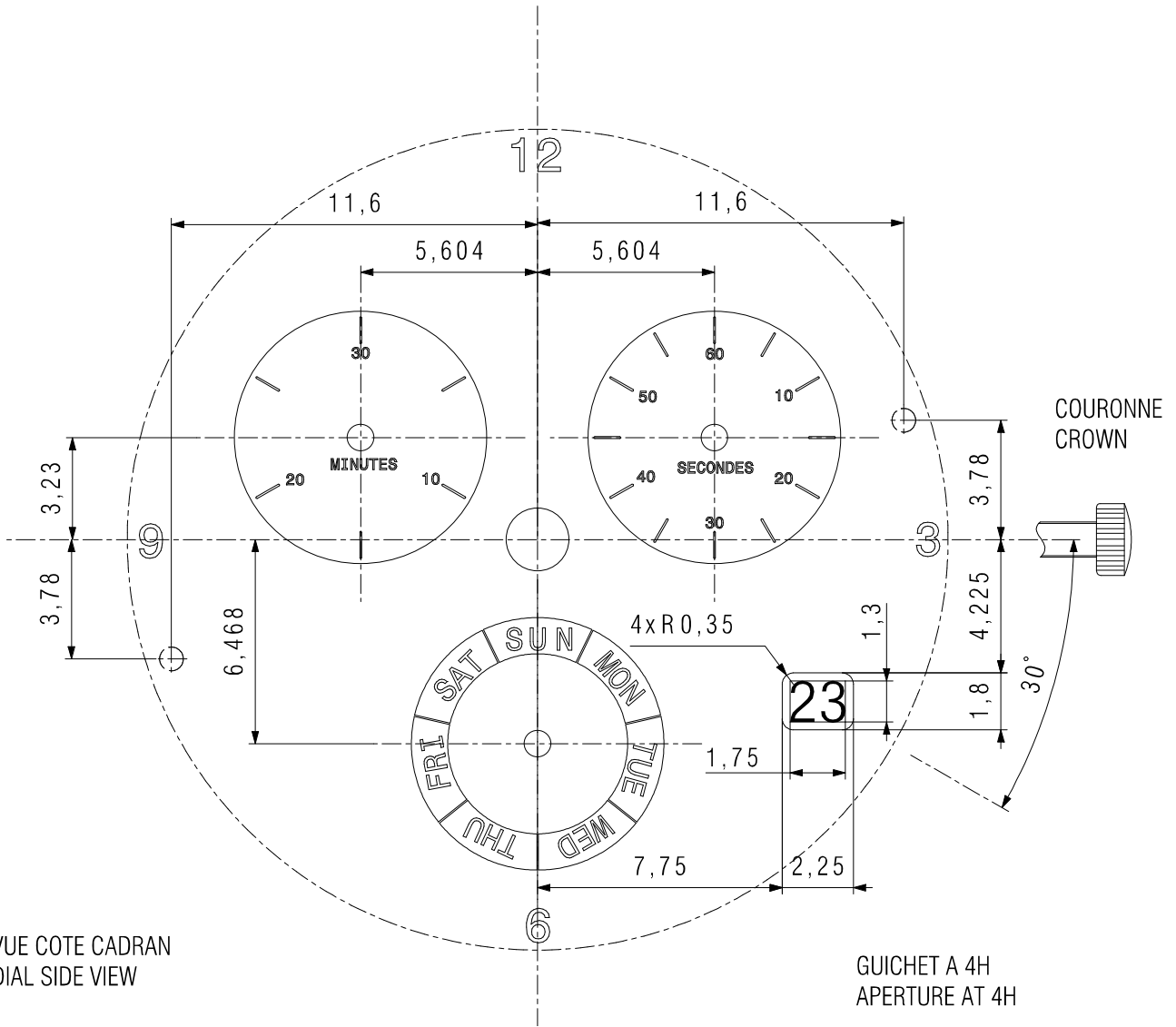
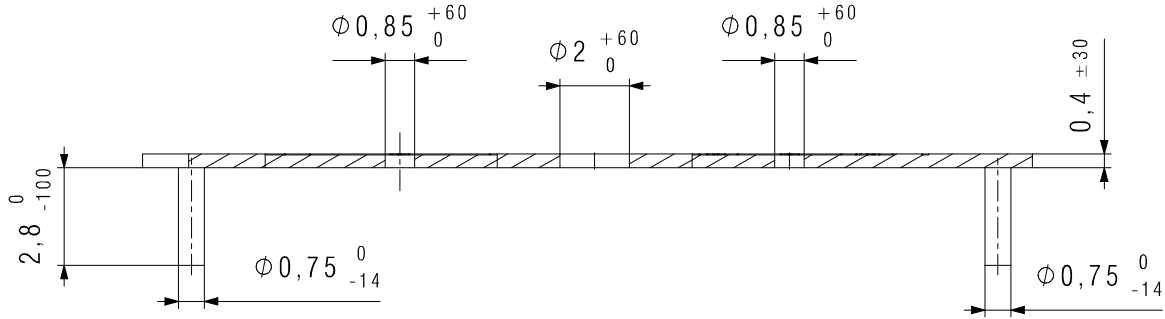
## CAGE (POUSSOIRS PARALLELES) / FRAME (PARALLEL PUSHERS)



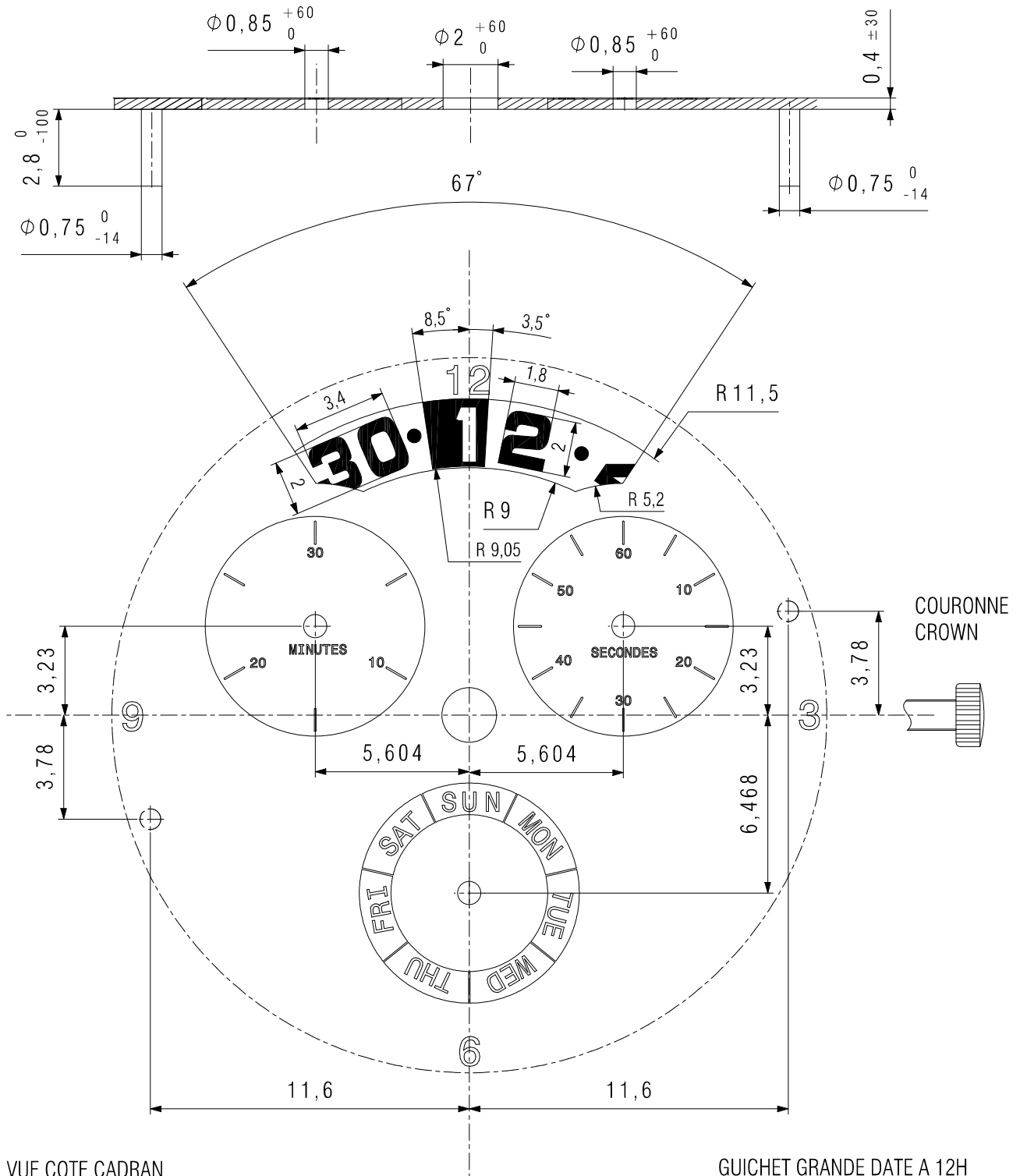
DIMENSIONS IN mm. - TOLERANCES IN  $\mu$ m.

In conformity with RoHS standard

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 4

**CADRAN / DIAL**

 DIMENSIONS IN mm. - TOLERANCES IN  $\mu\text{m}$ .

## CADRAN / DIAL



VUE COTE CADRAN  
DIAL SIDE VIEW

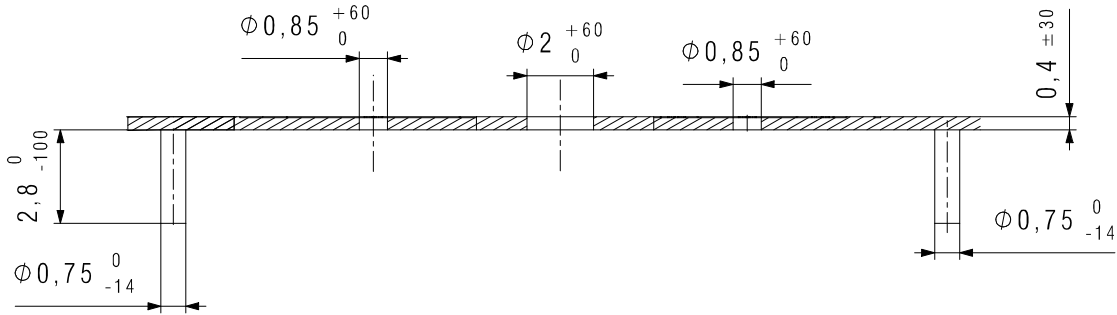
GUICHET GRANDE DATE A 12H  
APERTURE BIG DATE AT 12H

DIMENSIONS IN mm. - TOLERANCES IN  $\mu m$ .

In conformity with RoHS standard

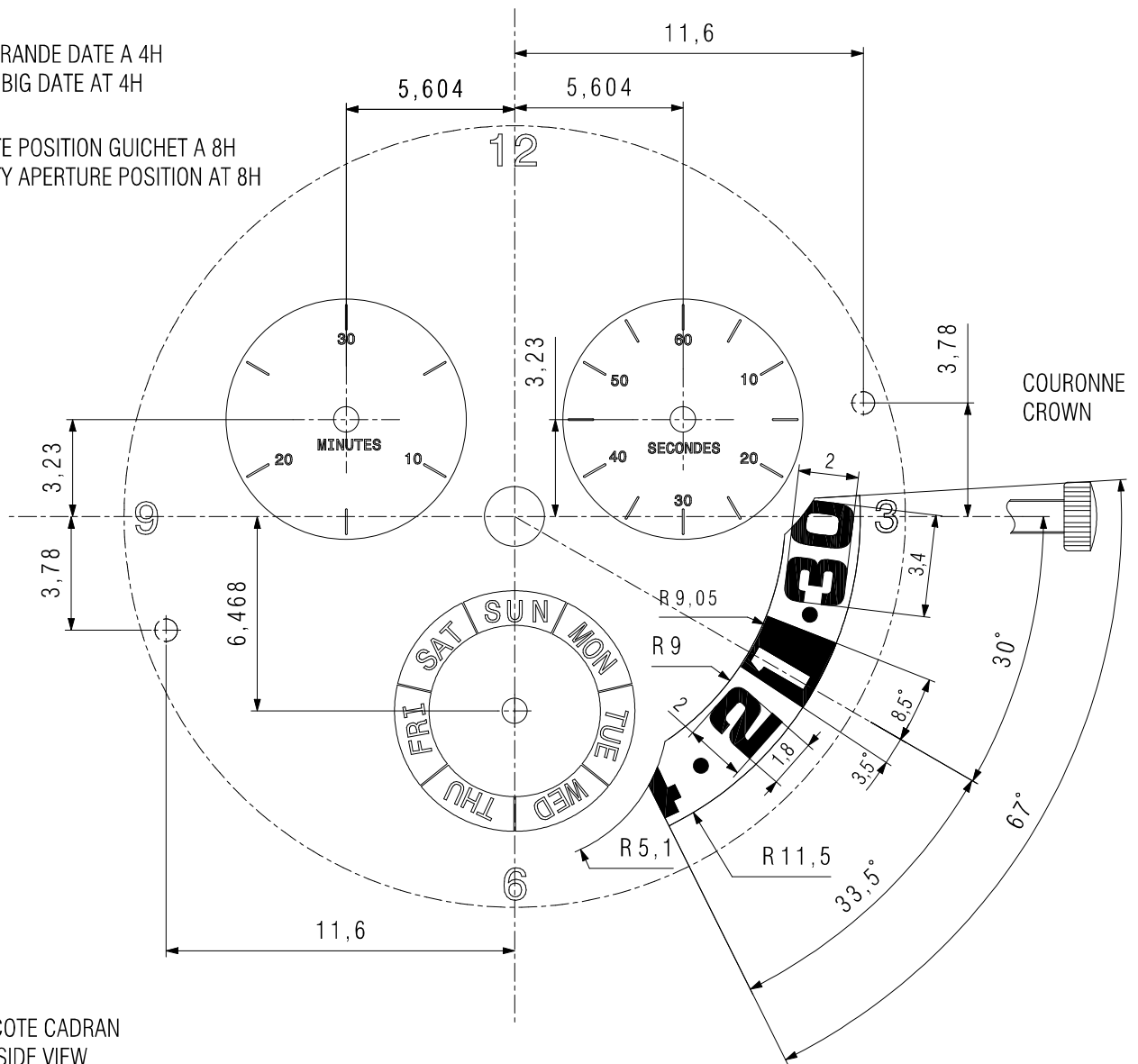
Doc. n° 0312141 - D Up date . 17/08/2010 - Page 6

## CADRAN / DIAL



GUICHET GRANDE DATE A 4H  
 APERTURE BIG DATE AT 4H

POSSIBILITE POSITION GUICHET A 8H  
 POSSIBILITY APERTURE POSITION AT 8H



VUE COTE CADRAN  
 DIAL SIDE VIEW

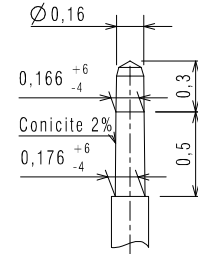
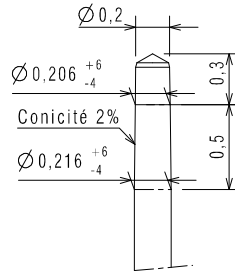
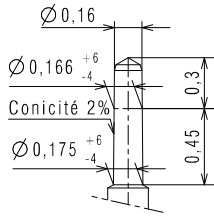
DIMENSIONS IN mm. - TOLERANCES IN  $\mu m$ .

In conformity with RoHS standard

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 7

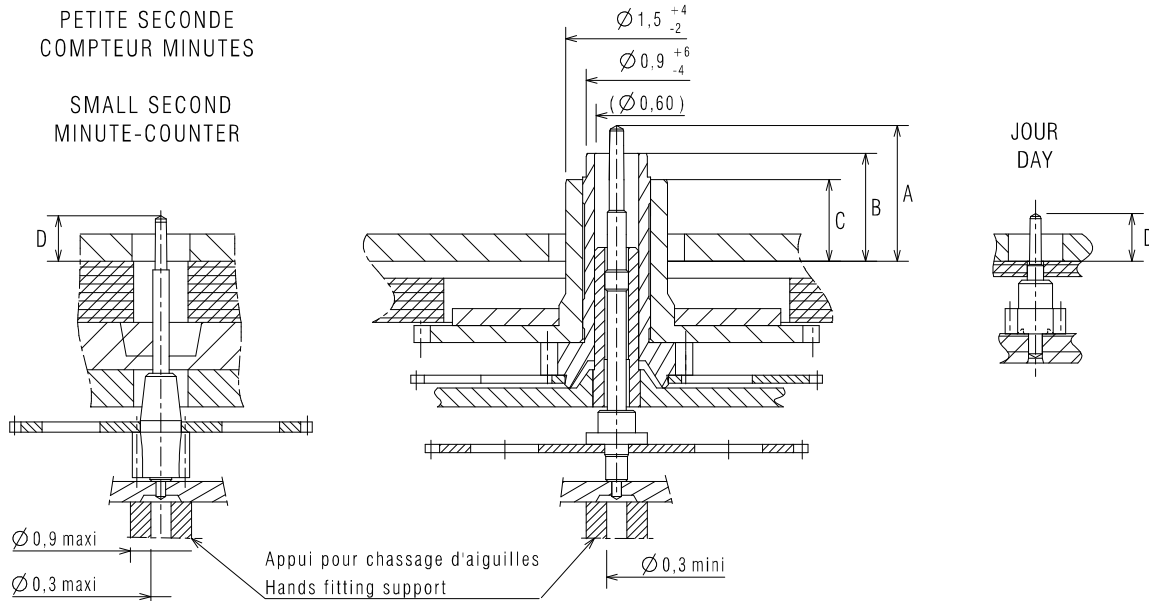
## AIGUILLAGE / HAND-FITTING

AUTRES AIGUILLAGES SUR DEMANDE  
 OTHER HAND-FITTING ON REQUEST



PETITE SECONDE  
 COMPTEUR MINUTES

SMALL SECOND  
 MINUTE-COUNTER



In conformity with RoHS standard

AIGUILLAGE / HAND-FITTING	Dépassement / Height over dial seat				Epaisseur cadran / Dial Thickness
	A	B	C	D	
	Pignon Central / Central wheel pinion	Chaussée / Cannon pinion	Roue des heures / Hour wheel	Pignon petit(s) comp-teur(s) / Small counter(s) wheel pinion	
<b>N°2</b>	2.05	1.60	1.20	0.70	0.40
<b>N°3 Spécial</b>	2.25	1.80	1.40	0.70	0.40

CHOCES 550 g / 550 g SHOCKS	Masse / Mass	Balourd / Unbalance	Inertie / Inertia	FORCE DE CHASSAGE / PRESS-IN-FORCE
Aiguille des heures - Hour Hand	≤ 2750 mg	≤ 110 µNm	≤ 88 gmm <sup>2</sup>	≤ 25 N
Aiguille des minutes - Minute Hand	≤ 250 mg	≤ 10 µNm	≤ 8 gmm <sup>2</sup>	≤ 25 N
Trotteuse centrale - Central Hand	≤ 20 mg	≤ 0.8 µNm	≤ 0.66 gmm <sup>2</sup>	≤ 25 N
Aiguilles des petits compteurs - Small counters Hands	≤ 5 mg	≤ 0.2 µNm	≤ 0.16 gmm <sup>2</sup>	≤ 20 N

DIMENSIONS IN mm. - TOLERANCES IN µm.

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 8



# ISASPECIALITY

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SWISS MADE

ISASWISS CONCEPT

11 1/2'''  
25.60 mm

EXEMPLE DE PRESENTATION  
DESIGN SAMPLE



In conformity with RoHS standard

Doc. n° 0312141 - D Up date . 17/08/2010 - Page 9

**ISASWISS**  
WATCH MECHANISMS

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