

# SA100



## CHOOSE DATE DISC



Remark: other position or other color their the above by request.

## Calibre SA100



| CATENA SA100                                         |                                              |
|------------------------------------------------------|----------------------------------------------|
| Hauteur<br>Height                                    | 5.15 mm                                      |
| Diamètre d'encageage<br>Case fitting diameter        | 27.60 mm - 1 1/2"                            |
| Fréquence<br>Frequency                               | 28800                                        |
| Réserve de marche<br>Running time                    | 36 heures - 38 heures<br>36 hours - 38 hours |
| Nombre de rubis<br>Number of jewels                  | 29                                           |
| Angle de levée du balancier<br>Angle lift of balance | 52°                                          |

# Calibre SA100

| Spécifications techniques - Technical specifications |                                                                                                                                                                 |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Forme et genre<br>Shape and type                     | Calibre rond, échappement à ancre, mouvement mécanique automatique<br>Round caliber, mechanical lever movement, self-winding                                    |
| Fréquence<br>Frequency                               | 28800 alternances par heure, 4 Hz<br>28800 vibrations per hour, 4 Hz                                                                                            |
| Pierres<br>Jewels                                    | 29                                                                                                                                                              |
| Diamètre total<br>Overall diameter                   | 28 mm                                                                                                                                                           |
| Diamètre d'encadrement<br>Case fitting diameter      | 27.60 mm                                                                                                                                                        |
| Hauteur<br>Height                                    | 5.15 mm                                                                                                                                                         |
| Fonctions<br>Functions                               | Heures, minutes, secondes. Quantième à guichet<br>Hours, Minutes, Seconds. Date display in window                                                               |
| Tige de remontoir<br>Winding stem                    | 3 positions : 1) Remontage manuel 2) Correction rapide de date 3) Mise à l'heure<br>3 positions : 1) Manual winding 2) Quick correction of date 3) Time setting |
| Masse oscillante<br>Oscillating weight               | Avec segment en métal lourd et roulement à billes<br>With segment of heavy metal and ball bearing                                                               |
| Stop seconde<br>Stop second                          | Avec<br>With                                                                                                                                                    |
| Réglage fin<br>Fine timing device                    | Avec<br>With                                                                                                                                                    |
| Ressort de barillet<br>Barrel spring                 | GENERAL RESSORT                                                                                                                                                 |
| Moment de force<br>Moment of force                   | M½ max: 11.86 N.mm<br>M24 min: 8.83 N.mm                                                                                                                        |
| Moment de glissement<br>Sliding moment               | Min. 12.21 N.mm<br>Max. 16.57 N.mm                                                                                                                              |

| Remontage - Winding                                                                              |                          |                  |               |
|--------------------------------------------------------------------------------------------------|--------------------------|------------------|---------------|
| Par tige de remontoir<br>With winding stem                                                       | Nombre de tours<br>Turns | Vitesse<br>Speed | Temps<br>Time |
| Dispositif automatique monté<br>Self-winding mechanism assembled                                 | Min. 27                  | Max. 100 t/min   | Max. 25 s     |
| Dispositif automatique non monté<br>Self-winding mechanism not assembled                         | Min. 27                  | Max. 400 t/min   | Max. 10 s     |
| Par le dispositif automatique<br>With the self-winding                                           | Nombre de tours<br>Turns | Vitesse<br>Speed | Temps<br>Time |
| Sur machine Chapuis (mouvement en marche)<br>On Chapuis machine (movement in motion)             | /                        | /                | /             |
| Sur Cyclotest (mouvement arrêté, tige tirée)<br>On cyclotest (stopped movement, stem pulled out) | /                        | /                | /             |

## Calibre SA100

| Assortiment - Assortment                                   |                                                                                                                                                   |                           |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Roue d'échappement<br>Escape wheel                         | Acier, Plat poli, 1 biseau, inclinés polis, épilamée, Lubrifar<br>Steel, Flat polished, 1 bevel, polished inclinations, Epilame-coated, Lubricate |                           |
| Ancre<br>Pallet fork                                       | Acier, Plat poli, entrée bercée, renversements bercés<br>Steel, flat polished, rounded-off lever-notch, rounded-up pallet cock                    |                           |
| Levées<br>Pallet stones                                    | Rubis rouge, épilamées<br>Red ruby, Epilame-coated                                                                                                |                           |
| Balancier<br>Balance wheel                                 | Nickel                                                                                                                                            |                           |
| Amortisseur de chocs<br>Shock absorber                     | Novodiac                                                                                                                                          |                           |
| Virole<br>Collet                                           | Nivatronic                                                                                                                                        |                           |
| Axe<br>Staff                                               | Epilamé<br>Epilame-coated                                                                                                                         |                           |
| Angle de levée<br>Lift angle                               | 52°                                                                                                                                               |                           |
| Positions<br>Positions                                     | 0h                                                                                                                                                | CH, 6H, 9H (9 o'clock up) |
| Marche moyenne<br>Average rate                             |                                                                                                                                                   | ± 15 s/d                  |
| Ecart maxi toutes positions<br>Max deviation all positions |                                                                                                                                                   | 30 s/d                    |
| Isochronisme<br>Isochronism                                |                                                                                                                                                   | ± 20 s/d                  |
| Amplitude max. (CH 0h)<br>Max. amplitude (CH 0h)           | 230° à 325°<br>230° to 325°                                                                                                                       |                           |
| Repère max. (CH 0h)<br>Adjusting max. (CH 0h)              | 0.4 m/s                                                                                                                                           |                           |
| Temps de stabilisation<br>Stabilisation time               | 20 s                                                                                                                                              |                           |
| Temps de mesure<br>Measuring time                          | 40 s                                                                                                                                              |                           |

## Complément du tableau Assortiment – Addition to the summary Assortment

- 1) Les valeurs limites sont sujettes à interprétation :  
The limit values are subject to interpretation:
- 95 % des pièces livrées par lot doivent se situer dans les marges indiquées.  
95 % of the pieces delivered in a lot must be within the specified limits.
- 2) Toutes les mesures se font sans calendrier en prise. Les contrôles à armage haut, désignés par 0 h, se font entre 1 et 3 heures après armage complet.  
All check are made without the calendar in function. The check has to be done at full winding, referred to as 0 h, after 1 to 3 hours running.
- 3) Lors du contrôle des marches instantanées et des amplitudes, il faut impérativement tenir compte des imprécisions de mesure dues aux appareils, à la température et à la pression atmosphérique agissant sur les ré  
When checking the instantaneous rate and the amplitudes, accuracy of the measurement tool, temperature and pressure acting on the settings must be considered.

| Positions selon les normes NIHS<br>Positions according to the norms NIHS |                                                       |
|--------------------------------------------------------------------------|-------------------------------------------------------|
| CH                                                                       | Horizontale, cadran en haut<br>Horizontal, dial up    |
| 9H                                                                       | Verticale, 9 heures en haut<br>Vertical, 9 o'clock up |
| 6H                                                                       | Verticale, 6 heures en haut<br>Vertical, 6 o'clock up |

|                       | ETA 2824 -2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SELLITA SW 200-1                                                                                                                                                                                                                               | CATENA SA100                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Photo                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                              |                                                                                                                                                                          |
| Spersification        | <p>Self-winding mechanism with ball bearing</p> <p>Power Reserve : 38 hours</p> <p>Functions : Hours, Minutes, Sweep Seconds, Date</p> <p>Diameter : Ø25.60mm</p> <p>Height : 4.60mm</p> <p>Jewels : 25 Jewels</p> <p>Frequency : 28800 vph, 4 Hz</p>                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Self-winding mechanism with ball bearing</p> <p>Power Reserve : 38 hours</p> <p>Functions : Hours, Minutes, Seconds, Date</p> <p>Diameter : 26.00mm</p> <p>Height : 4.60mm</p> <p>Jewels : 26 Jewels</p> <p>Frequency : 28800 vph, 4 Hz</p> | <p>Self-winding mechanism with ball bearing</p> <p>Power Reserve : 36 hours - 38 hours</p> <p>Functions : Hours, Minutes, Seconds, Date</p> <p>Diameter : 28.00mm</p> <p>Height : 5.15mm</p> <p>Jewels : 29 Jewels</p> <p>Frequency : 28800 vph, 4 Hz</p> |
| Shock-absorber System | <p><b>The Double-Cone Shock Absorber</b></p> <p>The enduring classic recognised by the Swiss watch industry for more than 80 years. Its exclusive design ensures that automatic recentering of the bushing and endstone while keeping the line of travel perpendicular to the axis of the balance staff. The pivots therefore come under no pressure. With only two contact points, the lyre-spring maximises its active length</p>  <p>the screw turning adjustment system</p>  | <p><b>Shock Absorber for Normal Calibres</b></p> <p><b>NOVODIAC®</b></p>                                                                                    | <p><b>Shock Absorber for Normal Calibres</b></p> <p><b>NOVODIAC®</b></p>                                                                                                |

# CATENA S.A.

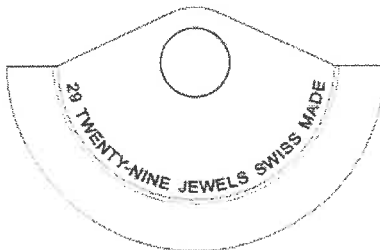
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|                      |   |                                                |
|----------------------|---|------------------------------------------------|
| RÉFÉRENCE            | : | SA100                                          |
|                      | : | MOUVEMENT AUTOMATIQUE / 3 AIGUILLES / DATE     |
| DIAMETRE             | : | 28.00MM                                        |
| ÉPAISSEUR            | : | 5.15MM                                         |
| FRÉQUENCE            | : | 28800AL/H                                      |
| AMPLITUDE            | : | 230° À 325°                                    |
| TOLÉRANCE s/d        | : | +30s / -5S                                     |
| POSITION             | : | 0H, 6H, 9H                                     |
| REPAIRE              | : | ≤ 0.6                                          |
| RÉSERVE DE MARCHÉ    | : | ≥ 36 HEURES                                    |
| NOMBRE DE RUBIS      | : | 29 RUBIS                                       |
| POSITION DU GUICHET  | : | SELON DEMANDE DU CLIENT                        |
| COULEUR DISQUE       | : | SELON DEMANDE DU CLIENT                        |
| MARQUAGE SUR LA      | : | "LOGO"                                         |
| MASSE OSCILLANTE     | : | "29 TWENTY NINE JEWELS SWISS MADE"             |
| MOUVEMENT LIVRE AVEC | : | CERCLE DE CADRAN 2 VIS ET 2 BRIDES DE FIXATION |

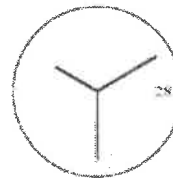
**SA 100**  
**29 JEWELS**



Ver. 1



Ver. 2



0633  
Automatic train bridge long screw

Z1420  
auxiliary reversing wheel

Z1430  
reversing wheel

B1491  
Reduction wheel

B1481  
Ratchet wheel driving wheel

B1511  
Automatic device lower bridge

0607  
Crown wheel screw

0442  
Crown wheel ring

B0440  
Crown wheel

0445  
Click spring

0624  
Intermediate crown wheel screw

0449  
Intermediate crown wheel

0450  
Intermediate crown wheel ring

0608  
Ratchet wheel screw

0447  
Ratchet wheel

B0521  
Barrel bridge

0448  
Floating crown wheel

Z0100  
Movement barrel, complete

0631  
Oscillating weight screw

ZC026X  
Oscillating weight, assembled

B1501  
Automatic device framework

B0631  
Train wheel bridge

B0201  
Intermediate wheel

B0241  
Second wheel

B0211  
Third wheel

0601  
Bridge screw

Z0330/Z0551  
Timed annular balance/  
balance bridge

0630  
Pallet bridge screw

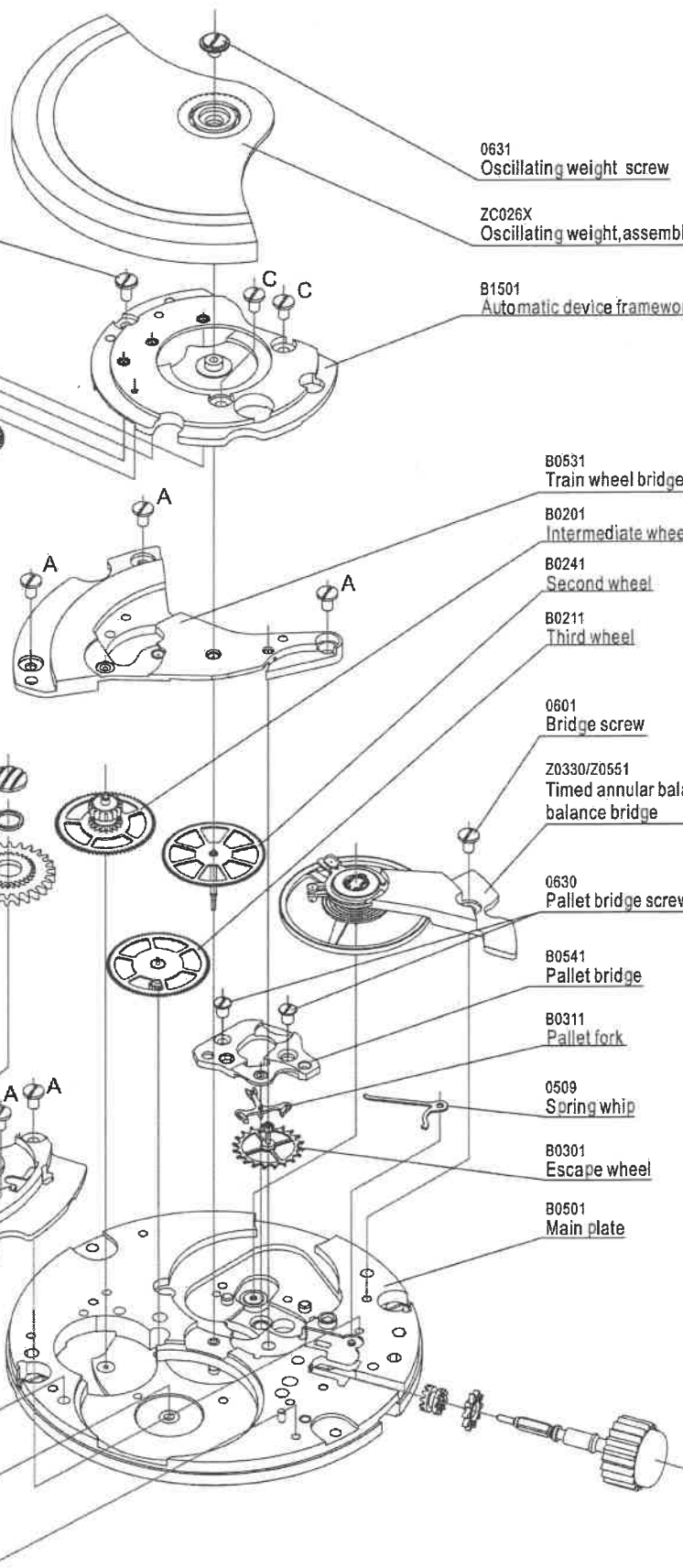
B0541  
Pallet bridge

B0311  
Pallet fork

0509  
Spring whip

B0301  
Escape wheel

B0501  
Main plate



Caliber **SA-100**

Scale

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Dimensions in mm

**BASIC MOVEMENT**

**SA100 - 03**

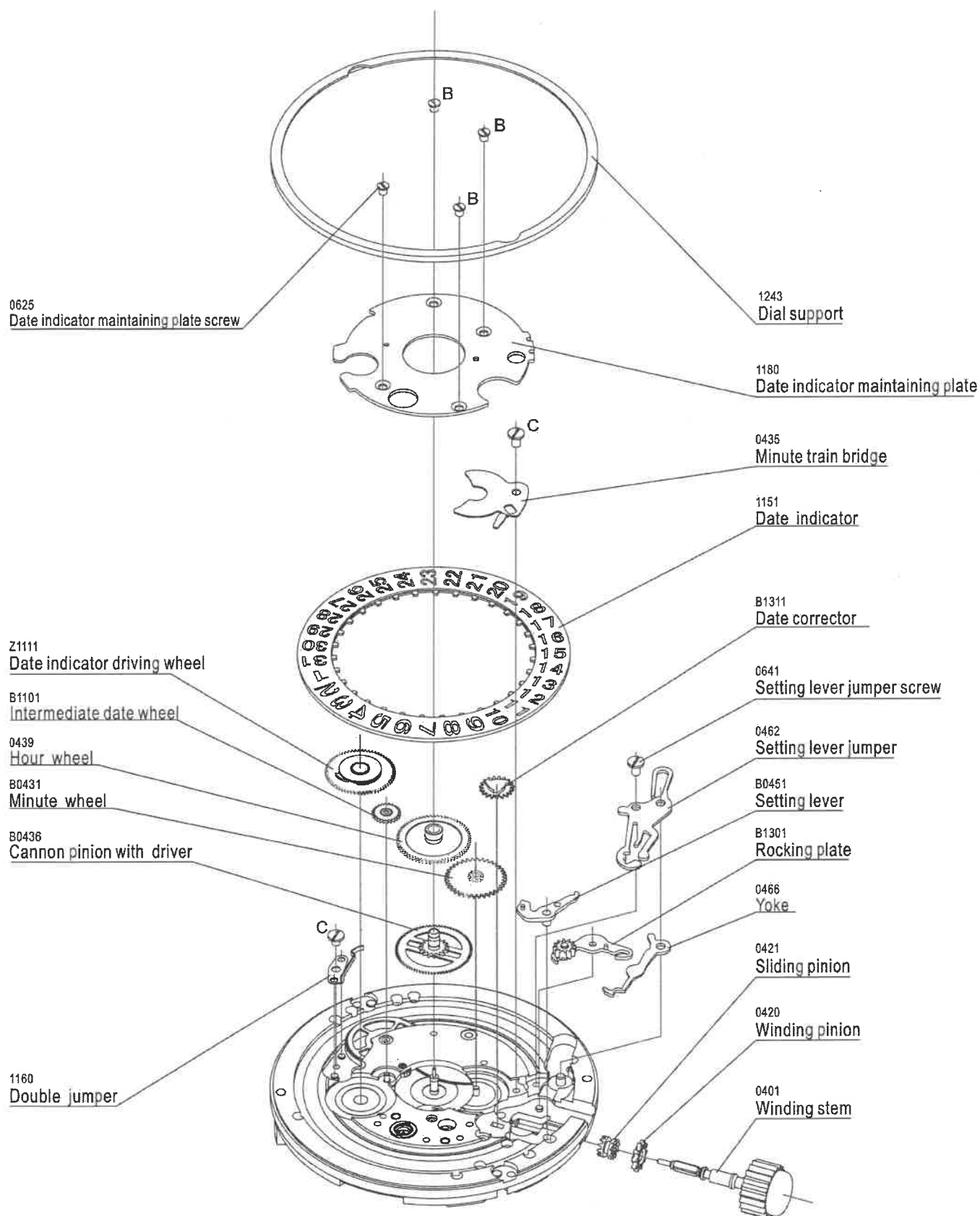
version **V1**

**CATENA S.A.**  
Les Vernets 2 - C.P. 69  
2035 Corcelles  
Switzerland

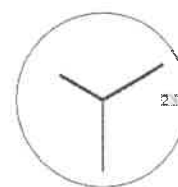
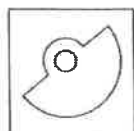
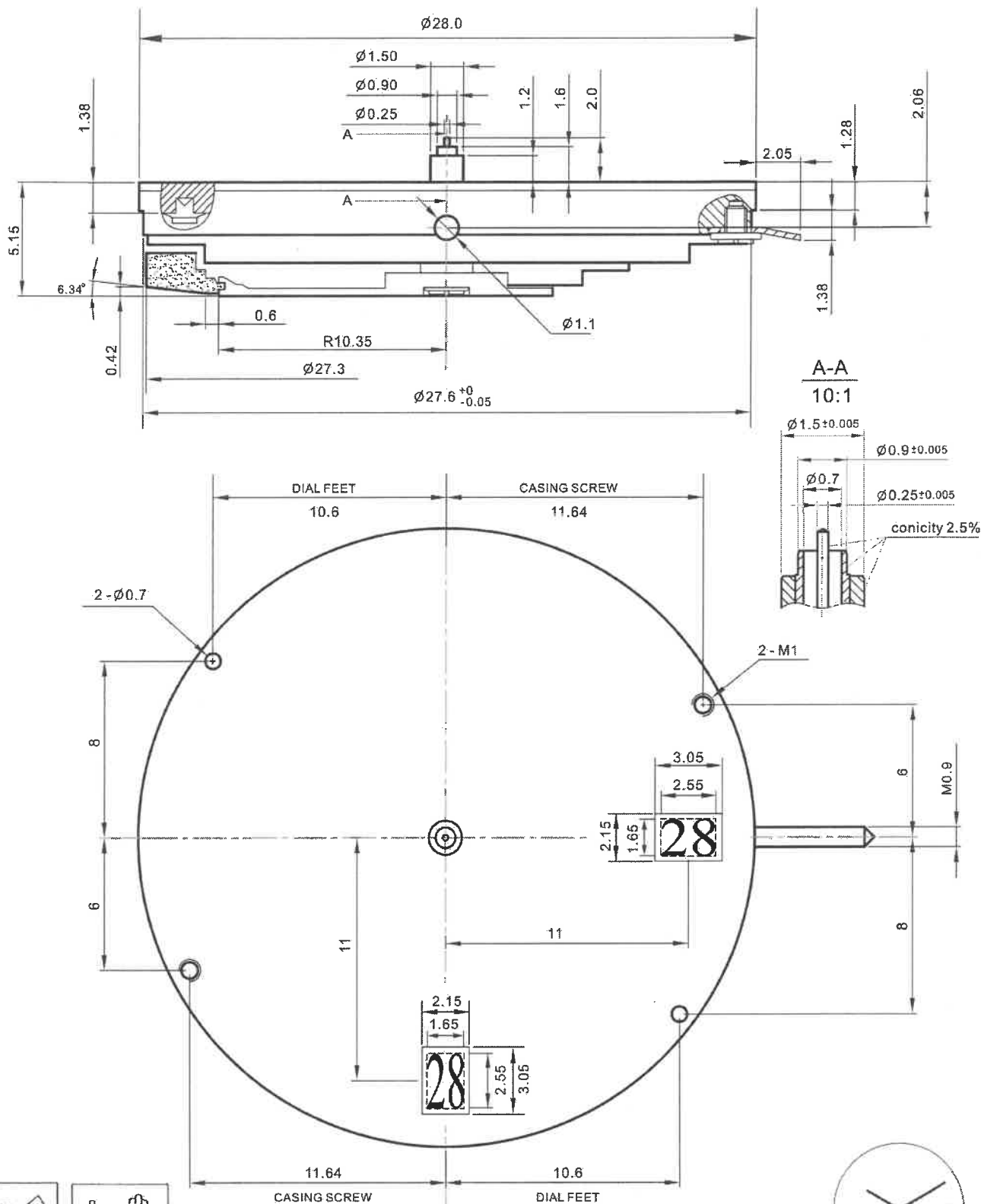
Created date

19-11-2012

Revised date



|                                                                         |  |                 |                                                                                                                                                                             |  |
|-------------------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Caliber<br><b>SA-100</b>                                                |  | Scale<br><br>-- |   |  |
|                                                                         |  |                 | Dimensions in mm                                                                                                                                                            |  |
| DATE AND HOUR COUNTER MECHANISM                                         |  | SA100 - 04      | version<br>V1                                                                                                                                                               |  |
| CATENA S.A.<br>Les Vernets 2 - C.P. 69<br>2035 Corcelles<br>Switzerland |  | Created date    | Revised date                                                                                                                                                                |  |
|                                                                         |  | 19-11-2012      |                                                                                                                                                                             |  |



Caliber

**SA-100**

Scale

**4 : 1**



Dimensions in mm

**TECHNICAL DRAWING**

**SA100 - 01**

version

**V1**

**CATENA S.A.**  
Les Vernets 2 - C.P. 69  
2035 Corcelles  
Switzerland

Suggested Feet Length : 1.90mm

Created date

**19-11-2012**

Revised date