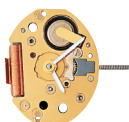


Technische Anleitung Instructions techniques No. 303.4 Technical Instructions



5 1/2'''



751



753



751.24



6 3/4''' x 8'''



762



763



763.24

1. Werkdimensionen

1. Dimensions des mouvements

1. Movement dimensions

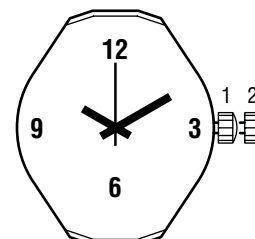
| Kaliber Calibre Caliber | Ø Total | Ø Werksitz Ø Encageage Ø Case fitting | Werkhöhe Hauteur mouvement Movement height | Höhe Batterie Hauteur pile Height of battery | Höhe Stellwelle Hauteur tige Height of stem | Höhe Werkauflage Hauteur filet Movement rest |
|--|---------------|---|--|--|---|--|
| Einh./ Unité/ Unit | mm | mm | mm | mm | mm | mm |
| 751/753/751.24 | 13,00 x 15,55 | 13,00 x 15,15 | 2,50 | 2,65 | 1,00 | 0,40 |
| 762/763/763.24 | 15,30 x 18,20 | 15,30 x 17,80 | 2,50 | 2,65 | 1,00 | 0,40 |
| Stellwellingewinde/ Filetage de la tige/ Stem thread: Ø 0,90 mm | | | | Weg/ Chemin/ Length of travel: 0,40 mm | | |

2. Funktionen

2. Fonctions

2. Functions

| Kaliber Calibre Caliber | Stellwellenpos. Pos. de tige Stem position | Funktionen Fonctions Functions |
|-------------------------------|--|---|
| 751 | 1 | Normale Position / Position normale / Running position |
| 751.24 | | Zeiger stellen, mit Unterbruch der Motorimpulse |
| 762 | 2 | Mise à l'heure, avec interruption des impulsions moteur Hand setting, with interruption of motor pulses |
| 753 | 1 | Normale Position / Position normale / Running position |
| 763 | 2 | Mise à l'heure, stop-seconde avec interruption des impulsions moteur Hand setting, stop-second with interruption of motor pulses |
| 763.24 | | |



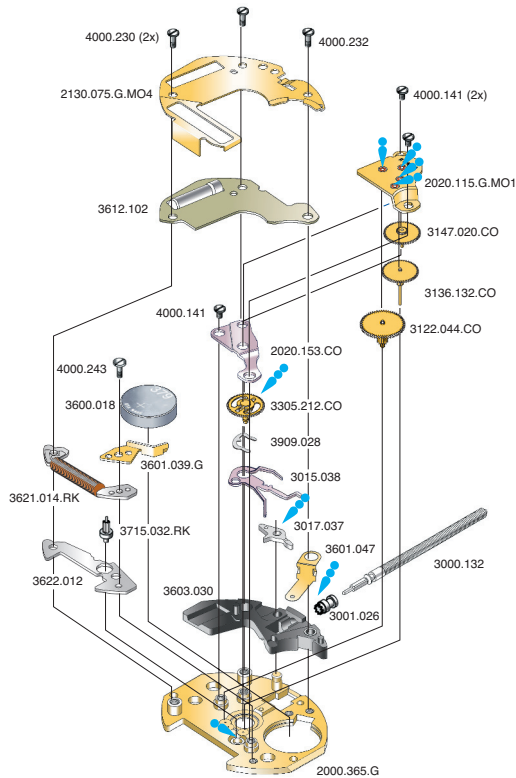
Werkaufbau

Assemblage

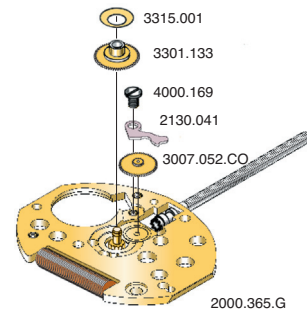
Assembling

5 1/2''' 751, 753, 751.24

5 1/2''' 751, 753, 751.24



- Düninflüssiges Öl Moebius 9030 (cal. 753)
- Düninflüssiges Öl Moebius 9014 (cal. 751, 751.E)
- Fett Moebius, Microgliss D5, Jisma 124



| Plan No. | Bestandteile | Fournitures | Spare Parts |
|----------------|-------------------|-------------------|--------------------|
| 2000.365.G | Werkplatte | Platine | Main plate |
| 2020.115.G.MO1 | Räderwerkbrücke | Pont rouge | Train w. bridge |
| 2020.153.CO | Zentrumbrücke | Pont centre | Centre bridge |
| 2130.075.G.MO4 | Modul-Abdeckpl. | Couvre module | Module cover pl. |
| 3000.132 | Stellwelle | Tige | Stem |
| 3001.026 | Kupplungstrieb | Pignon coulant | Sliding pinion |
| 3015.038 | Kuppl.-triebhebel | Bascule | Yoke |
| 3017.037 | Winkelhebel | Tirette | Setting lever |
| 3122.044.CO | Kleinbodenrad | Roue moyenne | Third wheel |
| 3136.132.CO | Sekundenrad | Roue secondes | Second-wheel |
| 3147.020.CO | Zwischenrad | Roue interméd. | Intermed. wheel |
| 3305.212.CO | Minutenrohr | Chaussée | Cannon pinion |
| 3600.018 | Batterie | Pile | Battery |
| 3601.039.G | Batteriehalter | Bride de pile | Battery clamp |
| 3601.047 | Batterie-Kontakt | Bride contact | Battery contact |
| 3603.030 | Kunststoffzw.teil | Potence plastique | Setting m. cover |
| 3612.102 | Modul | Module | Module |
| 3621.014.RK | Spule | Bobine | Coil |
| 3622.012 | Stator | Stator | Stator |
| 3715.032.RK | Rotor | Rotor | Rotor |
| 3909.028 | K.-trieb.-feder | Clavette bascule | Pillar spring clip |
| 4000.141 | Schraube | Vis | Screw |
| 4000.230 | Schraube | Vis | Screw |
| 4000.232 | Schraube | Vis | Screw |
| 4000.243 | Schraube | Vis | Screw |

Batterien / Piles / Batteries

| | | |
|--------------|------------|------------|
| 751, 753, | Nr. 379 | SR 521 SW |
| 751.24, 751E | Dim.Ø x H: | 5,8 x 2,16 |

Abweichungen / Divergences / Deviations

| Cal. 751 Werkseite / Côté mouvement / Movement side | | | |
|---|-----------------|---------------|------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2020.104.CO | Zentrumbrücke | Pont centre | Centre bridge |
| 2020.116.G.MO1 | Räderwerkbrücke | Pont rouge | Train w. bridge |
| 2130.075.G.MO1 | Modul-Abdeckpl. | Couvre module | Module cover pl. |
| 3122.045.CO | Kleinbodenrad | Roue moyenne | Third wheel |
| 3305.174.CO | Minutenrohr | Chaussée | Cannon pinion |
| 3612.063 | Modul | Module | Module |
| 3622.018 | Stator | Stator | Stator |

| Cal. 751E Werkseite / Côté mouvement / Movement side | | | |
|--|--------------|-------------|---------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 3305.198.CO | Minutenrohr | Chaussée | Cannon pinion |

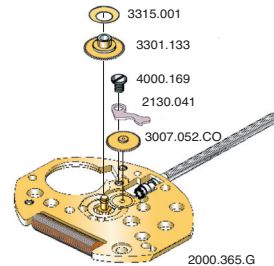
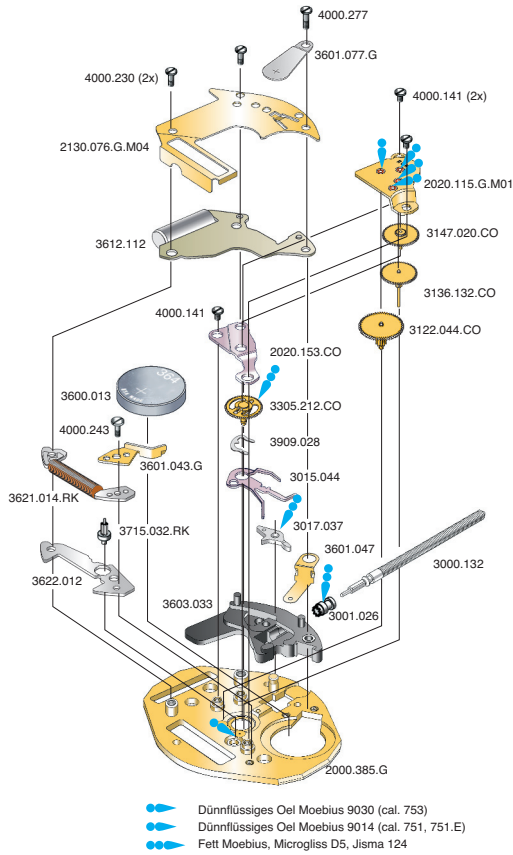
| Cal. 751, 753 Zifferblattseite / Côté cadran / Dial side | | | |
|--|-------------------|-----------------|-------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2130.041 | Zeigerwerkplatte | Plaque maintien | Maintaining plate |
| 3007.052.CO | Wechselrad | Minuterie | Minute wheel |
| 3301.133 | Stundenrad | Canon | Hour wheel |
| 3315.001 | Spreizfeder 2 1/2 | Clinquant 2 1/2 | Washer 2 1/2 |
| 4000.169 | Schraube | Vis | Screw |

| Cal. 751E Zifferblattseite / Côté cadran / Dial side | | | |
|--|--------------|-------------|-------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 3301.176 | Stundenrad | Canon | Hour wheel |

| Cal. 751.24 Zifferblattseite / Côté cadran / Dial side | | | |
|--|------------------|-----------------|-------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2130.102 | Zeigerwerkplatte | Plaque maintien | Maintaining plate |
| 3007.043.CO | Wechselrad | Minuterie | Minute wheel |
| 3301.194 | Stundenrad | Canon | Hour wheel |

6 3/4 x 8''' 762, 763, 763.24

6 3/4 x 8''' 762, 763, 763.24



| Plan No. | Bestandteile | Fournitures | Spare Parts |
|----------------|-------------------|-------------------|--------------------|
| 2000.385.G | Werkplatte | Platine | Main plate |
| 2020.115.G.M01 | Räderwerkbrücke | Pont rouge | Train w. bridge |
| 2020.153.CO | Zentrumbrücke | Pont centre | Centre bridge |
| 2130.076.G.M04 | Modul-Abdeckpl. | Couvre module | Module cover pl. |
| 3000.132 | Stellwelle | Tige | Stem |
| 3001.026 | Kupplungstrieb | Pignon coulant | Sliding pinion |
| 3015.044 | Kuppl.-triebhebel | Bascule | Yoke |
| 3017.037 | Winkelhebel | Tirette | Setting lever |
| 3122.044.CO | Kleinbodenrad | Roue moyenne | Third wheel |
| 3136.132.CO | Sekundenrad | Roue secondes | Second-wheel |
| 3147.020.CO | Zwischenrad | Roue interméd. | Intermed. wheel |
| 3305.212.CO | Minutenrohr | Chaussée | Cannon pinion |
| 3600.013 | Batterie | Pile | Battery |
| 3601.043.G | Batteriehalter | Bride pile | Battery clamp |
| 3601.047 | Batt.-Kontakt | Bride contact | Battery contact |
| 3601.077.G | Batteriehalter | Bride pile | Battery clamp |
| 3603.033 | Kunststoffzw.teil | Potence plastique | Setting m. cover |
| 3612.112 | Modul | Module | Module |
| 3621.014.RK | Spule | Bobine | Coil |
| 3622.012 | Stator | Stator | Stator |
| 3715.032.RK | Rotor | Rotor | Rotor |
| 3909.028 | K.-trieb-feder | Clavette bascule | Pillar spring clip |
| 4000.141 | Schraube | Vis | Screw |
| 4000.230 | Schraube | Vis | Screw |
| 4000.243 | Schraube | Vis | Screw |
| 4000.277 | Schraube | Vis | Screw |

Abweichungen / Divergences / Deviations

| Cal. 762 | Werkseite / Coté mouvement / Movement side | | |
|----------------|--|---------------|------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2020.104.CO | Zentrumbrücke | Pont centre | Centre bridge |
| 2020.116.G.M01 | Räderwerkbrücke | Pont rouge | Train w. bridge |
| 2130.076.G.M01 | Modul-Abdeckpl. | Couvre module | Module cover pl. |
| 3122.045.CO | Kleinbodenrad | Roue moyenne | Third wheel |
| 3305.174.CO | Minutenrohr | Chaussée | Cannon pinion |
| 3612.096 | Modul | Module | Module |
| 3622.018 | Stator | Stator | Stator |

| Cal. 762, 763 | Zifferblattseite / Côté cadran / Dial side | | |
|---------------|--|-----------------|-------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2130.041 | Zeigerwerkplatte | Plaque maintien | Maintaining plate |
| 3007.052.CO | Wechselrad | Minuterie | Minute wheel |
| 3301.133 | Stundenrad | Canon | Hour wheel |
| 3315.001 | Spreifeder 2 1/2 | Clinquant 2 1/2 | Washer 2 1/2 |
| 4000.169 | Schraube | Vis | Screw |

| Cal. 763.24 | Zifferblattseite / Côté cadran / Dial side | | |
|-------------|--|-----------------|-------------------|
| Plan No. | Bestandteile | Fournitures | Spare Parts |
| 2130.102 | Zeigerwerkplatte | Plaque maintien | Maintaining plate |
| 3007.043.CO | Wechselrad | Minuterie | Minute wheel |
| 3301.194 | Stundenrad | Canon | Hour wheel |


Batterien / Piles / Batteries

| | | |
|------------------|-----------------------|--------------------------|
| 762, 763, 763.24 | Nr. 364 Dim.Ø x H: | SR 621 SW 6,80 x 2,16 |
|------------------|-----------------------|--------------------------|

3. Leistungen

3. Performances

3. Performances

| Kaliber Calibre Caliber | Bedingungen Conditions Conditions | Momentaner Gang March instantanée Instantaneous rate | Stromaufnahme Consommation courant Power consumption | Drehmoment Couple utile Torque | Gangreserve Autonomie Autonomy |
|---|---|--|--|--------------------------------------|--|
| | Einheit / Unité / Unit Typ.Wert / Valeur / Value | Mi (s/month) | I (µA) | T (µNm) sec. min. | A (Monat/mois/month) |
| 751/751.24/ 751E | 1,55 V 23°C Batt./ Pile 14,5 mAh | - 10/+ 20 | 0,34 < 0,50 | – 36 | 58 |
| 753 | 1,55 V 23°C Batt./ Pile 14,5 mAh | - 10/+ 20 | 0,67 < 1,08 | 5,3 190 | 29 |
| 762 | 1,55 V 23°C Batt./ Pile 20,5 mAh | - 10/+ 20 | 0,32 < 0,50 | – 29 | 87 |
| 763/763.24 | 1,55 V 23°C Batt./ Pile 20,5 mAh | - 10/+ 20 | 0,68 < 1,08 | 5,1 190 | 41 |
| Magnetfeldabschirmung / Résist. aus champs magn. / Resist. to magnetic fields | | | 18,8 Oe | 1500 A/M | |
| Betriebstemperatur / Température d'opération / Operating temperature | | | 0–50°C | | Norm  |
| Schockresistenz / Résistance au choc/ Shock resistance | | | NIHS 91–10 | | |

Anzeige Ende der Batterielaufzeit EOL

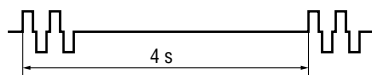
Der Sekundenzeiger hält während 4 Sekunden an und holt dann die 4 Sprünge kurzfristig nach.

Indication de fin de vie de pile

L'aiguille de seconde s'arrête durant 4 secondes puis fait rapidement 4 pas.

Battery end-of-life indication EOL

The second hand stops for 4 seconds before executing rapidly the 4 steps.



Folgende Kaliber sind mit dem EOL-System ausgerüstet:

Les calibres suivants sont munis du système EOL:

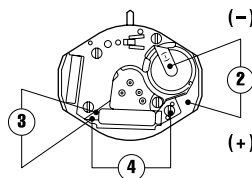
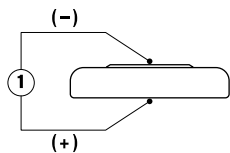
The following calibers are equipped with EOL:

Swiss Made 5¹/₂''' / 6³/₄ x 8''' – 753/763 5R

4. Elektr. Messungen

4. Contrôles électriques

4. Electrical checking



| Kaliber Calibre Caliber | Pos. Pos. Pos. | Einheit Unité Unit | Messwerte Valeurs mesurées Measured values | Kontrolle Contrôle Check | Bemerkungen Remarques Remarks |
|-------------------------------|----------------------|---------------------------------------|--|---|---|
| 751–763 751E | 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 |
| 751*, 762* by pulses | | µA | 0,32 < 0,50 ~ 2,20 | Stromaufnahme * (Puls Periode 10 Sekunden) Consom. de courant * (impulsion 10 secondes) | Ohne Batterie, mit externer Speisung Sans pile, avec alimentation externe |
| 753–763 | | µA | 0,71 < 1,08 | Power consumption * (pulse period 10 seconds) | Without battery, with external power supply |
| 751*, 762* 753, 763 | 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 |
| 751–763 751E | 3 | KΩ | 2,65–2,90 | Spulenwiderstand Résistance de la bobine Resistance of the coil | Ohne Batterie Sans pile Without battery |
| 751–763 751E | 4 | KΩ | ∞ | Spulenisolation Isolation de la bobine Coil insulation | Ohne Batterie Sans pile Without battery |
| 751–763 751E | | 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 |

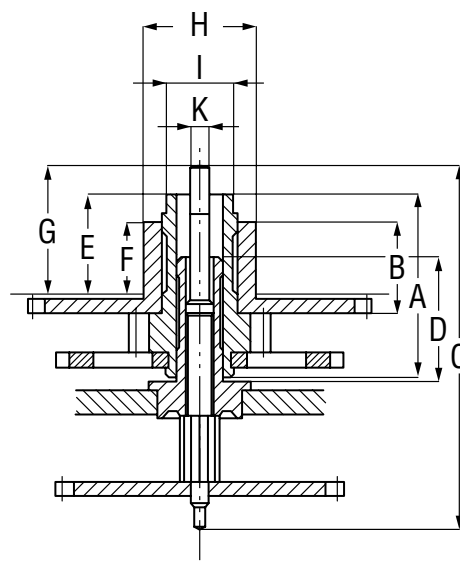
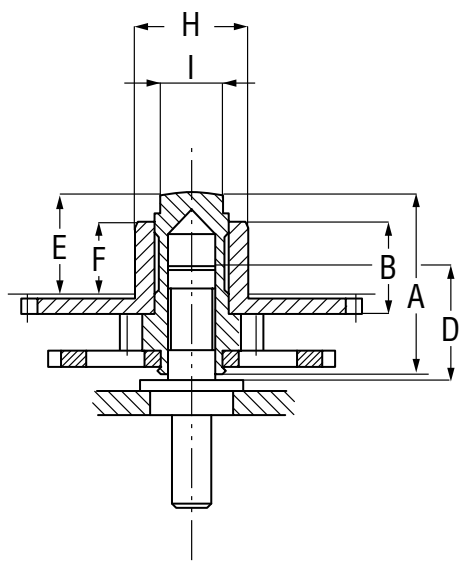
5. Zeigerwerk

5. Aiguillage

5. Dial-train

| Kaliber Calibre Caliber | Zeigerwerk Aiguillage Height of dial train | Einzelteil-Höhe mm Hauteur de la pièce ind. mm Height of individ. piece mm | | | | Höhe ab Zifferblattaufgabe mm Dépassement platine mm Height from base mm | | |
|-------------------------------|---|--|------|------|------|--|------|------|
| | | No. | A | B | C | D | E | F |
| 751-762 | 0 | 1,83 | 0,80 | - | 1,20 | 0,98 | 0,60 | - |
| | 1 | 1,98 | 0,95 | - | 1,20 | 1,13 | 0,75 | - |
| | 2 | 2,18 | 1,15 | - | 1,20 | 1,33 | 0,95 | - |
| 751E | 0 | 1,88 | 0,80 | - | 1,20 | 1,03 | 0,60 | - |
| | 1 | 2,08 | 1,00 | - | 1,20 | 1,23 | 0,80 | - |
| 753-763 | 0 | 1,80 | 0,80 | 3,62 | 1,30 | 0,95 | 0,60 | 1,20 |
| 753-763 | 1 | 1,95 | 0,95 | 3,87 | 1,50 | 1,10 | 0,75 | 1,45 |
| 753-763 | A * | 2,15 | 1,06 | 4,07 | 1,70 | 1,25 | 0,85 | 1,60 |
| 753-763 | 2 | 2,15 | 1,15 | 4,07 | 1,70 | 1,25 | 0,95 | 1,60 |

* Einfacheres Zeiger setzen bei Massenproduktion / Easier handsetting for mass production / Posage d'aiguille plus facile pour production en séries



Für Einzelheiten verlangen Sie bitte die entsprechenden Zeigerwerkpläne!
Pour plus de détails demandez nos plans d'aiguillage!
For more detailed information please ask for the corresponding hand drawings!

6. Einschalen

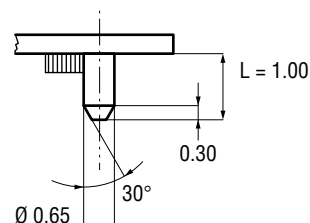
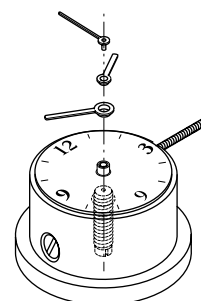
6. Emboîtement

6. Casing

Die Zeiger dürfen nur bei zentral abgestützter Räderwerkbrücke gesetzt werden.
Der Aufpressdruck darf 30 N (3,0 kp) nicht übersteigen.

Lors de la pose des aiguilles, le pont de rouage doit être soutenu.
La force de chassage ne doit pas dépasser 30 N (3,0 kp).

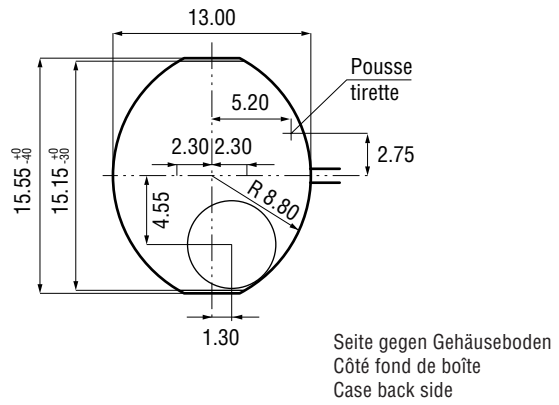
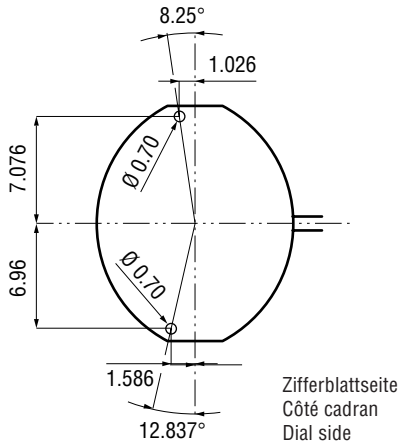
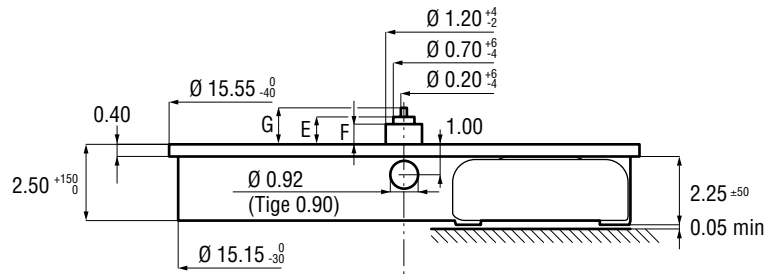
Hands can only be set if train wheel bridge is supported by a movement holder.
Pressure while setting hands must not exceed 30 N (3,0 kp).



| Ø Zeigeranpassung Ø Ajustement des aiguilles Ø Adjustment of hands | H | I | K |
|--|------|------|------|
| 751-763 | 1,20 | 0,70 | 0,20 |
| 751E | 1,00 | 0,55 | - |

| Zifferblattstärke Épaisseur du cadran Dial thickness | mm |
|--|------|
| 0 | 0,30 |
| 1 standard | 0,40 |

Gehäuseplan
Plan de cage
Case drawing



Gehäuseplan
Plan de cage
Case drawing

