

Watch Movement Specification and Drawing

Standard Chronograph Movement

VD53C



Movement Size: **12 ³/₄"**
Diameter: **Φ29.50mm**
Height: **4.57mm**

Items	Ver.	Items	Ver.
Specification	1		
Appearance	2		
Casing	2		
Hand Fitting	1		
Hand Setting Stem	1		
Dial - 1	1		
Dial - 2	1		
Dial - 3	1		
Dial - 4	1		
Dial - 5	1		
Assembly Plan - 1	1		
Assembly Plan - 2	1		
Hands	1		

CAL.VD53C 12 $\frac{3}{4}$ Ligne Quartz Movement

Three Hands with 3 Eyes & Date

Small Chronograph Second & Minute, 24 Hour Indicator Hands

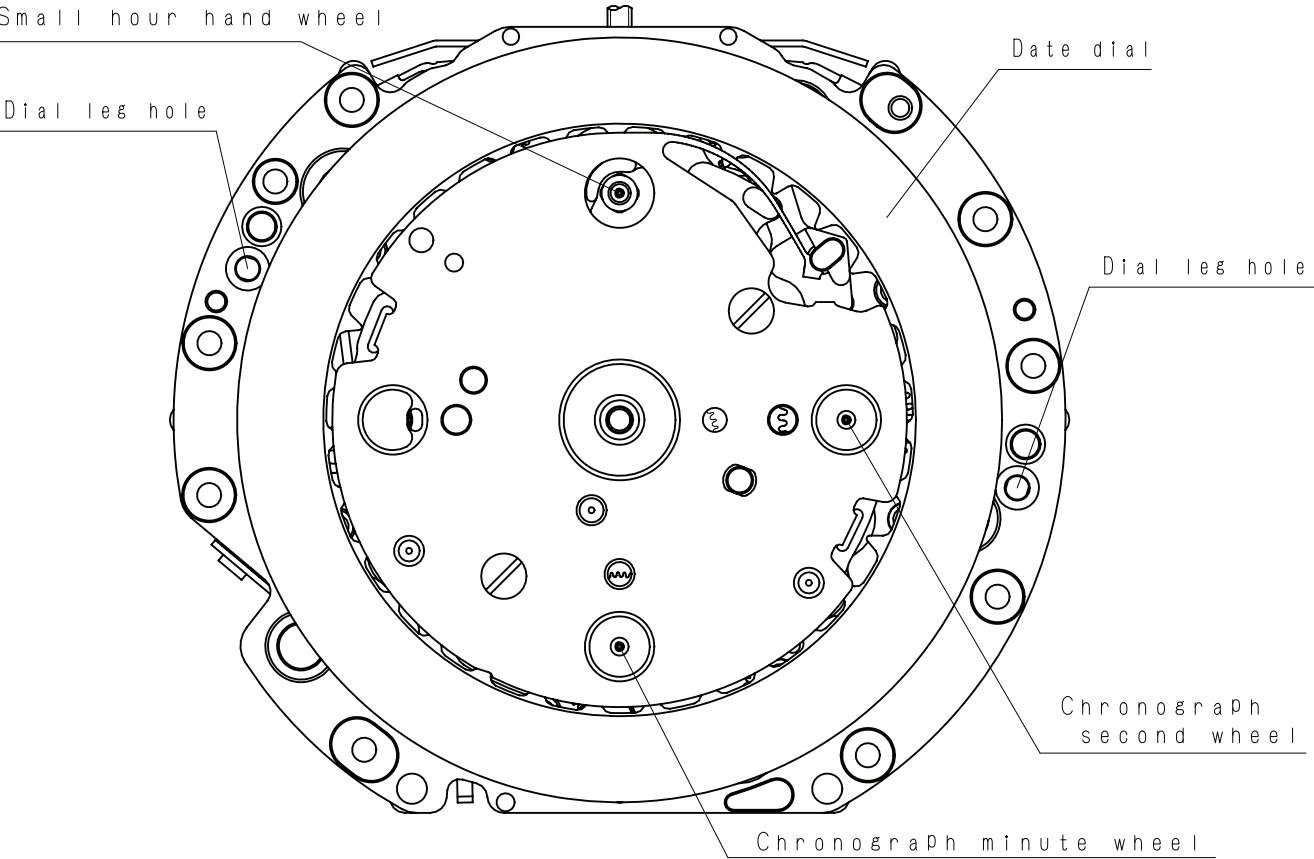
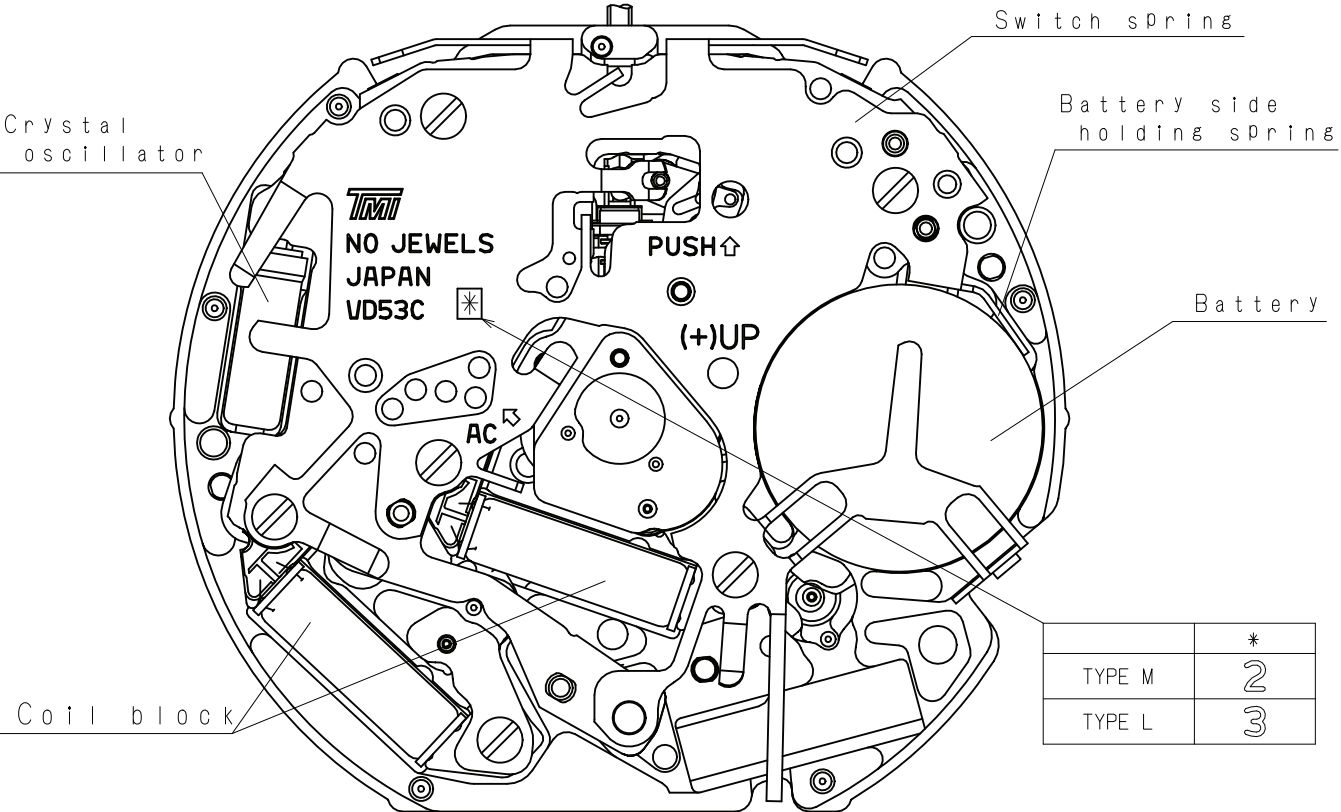
1. FUNCTION

- Jewel 0 jewel
- Accuracy Less than ± 20 seconds / month (Normal temperature range)
- Battery life Approx. 3 years
- Regulation hands unbalance
 - Hour hand : Less than $0.60 \mu\text{N}\cdot\text{m}$ (60 mg $\cdot\text{mm}$)
 - Minute hand : Less than $0.90 \mu\text{N}\cdot\text{m}$ (90 mg $\cdot\text{mm}$)
 - Second hand : Less than $0.09 \mu\text{N}\cdot\text{m}$ (9 mg $\cdot\text{mm}$)
 - Small chronograph hands : Less than $0.05 \mu\text{N}\cdot\text{m}$ (5 mg $\cdot\text{mm}$)
 - Small 24 hour indicator hand : Less than $0.07 \mu\text{N}\cdot\text{m}$ (7 mg $\cdot\text{mm}$)
- The moment of inertia
 - Small 24 hour indicator hand (Disc hand) : Less than 400 mg $\cdot\text{mm}^2$
- Additional function
 - Date display with quick date correction
 - Chronograph : up to 60 minutes in 1 second split time
 - 24 hour indicator (Synchronized regular hour hand)

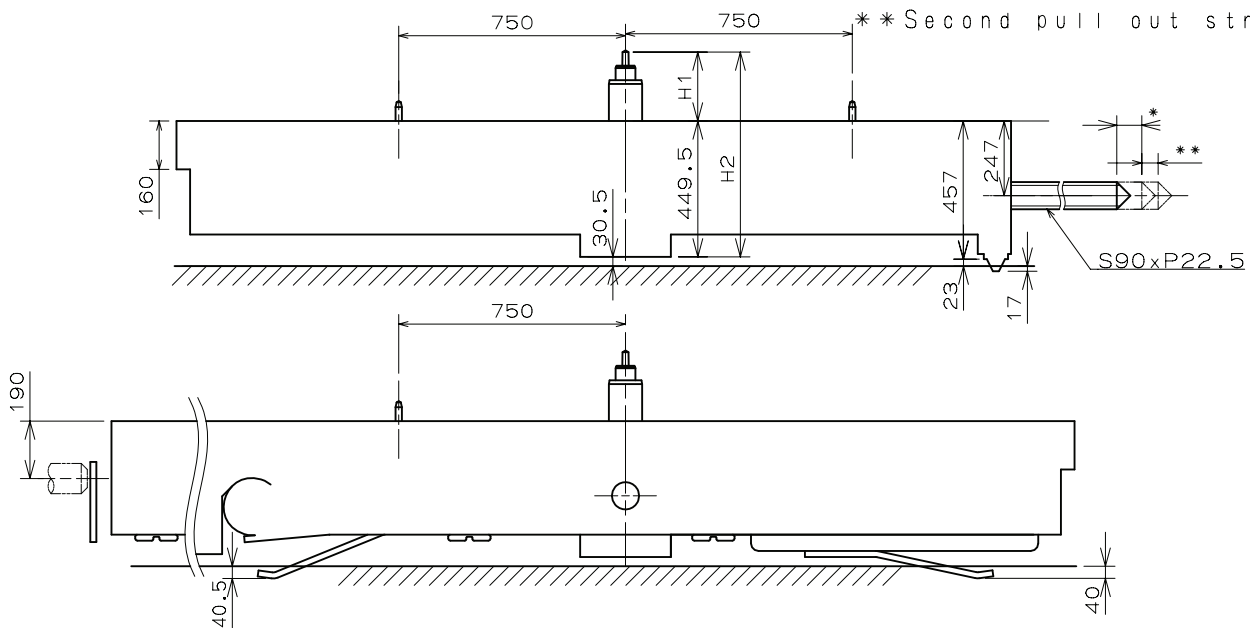
2. USE AND TEST CONDITION

- Battery SR920SW (Recommended battery is SEIZAIKEN)
- Operation temperature range From - 5 °C to + 50 °C
- Antimagnetic $\geq 1600 \text{ A / m}$ (Direct current magnetic field)
- Test of accuracy 10 seconds (Duration of measurement)

*** All specifications are subject to change without notice.**

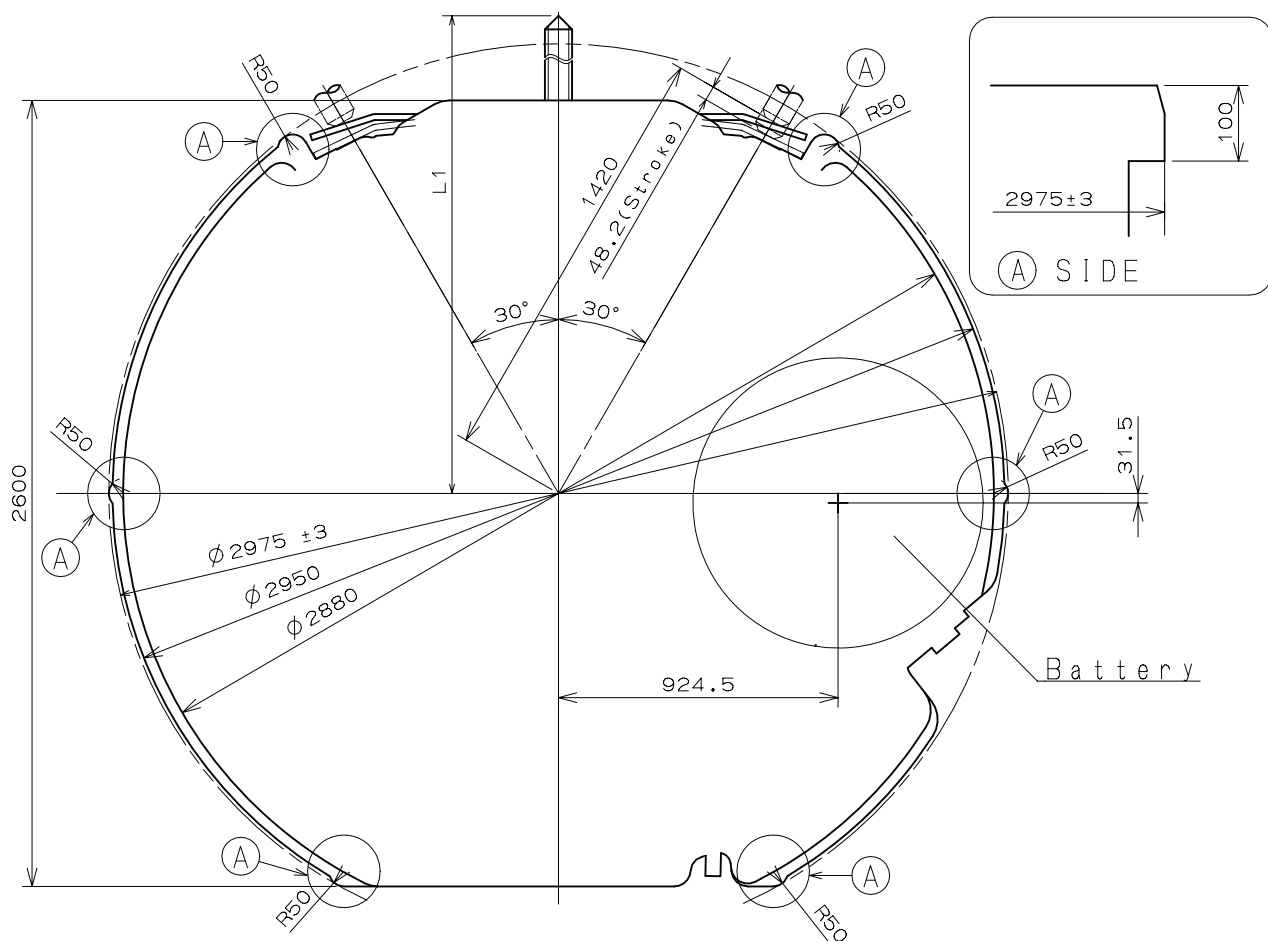


*First pull out stroke 50.5
** Second pull out stroke 32.7



Center Post 中心柱位		TYPE M 一般針高	TYPE L 高針
Maximum height from main plate surface 與機芯平面的最大高度	H1	228	273
Total height incl. movement 機芯總高度	H2	677.5	722.5

Hand Setting Stem	TYPE A	TYPE B
L1	2285	2861



*Unbalance

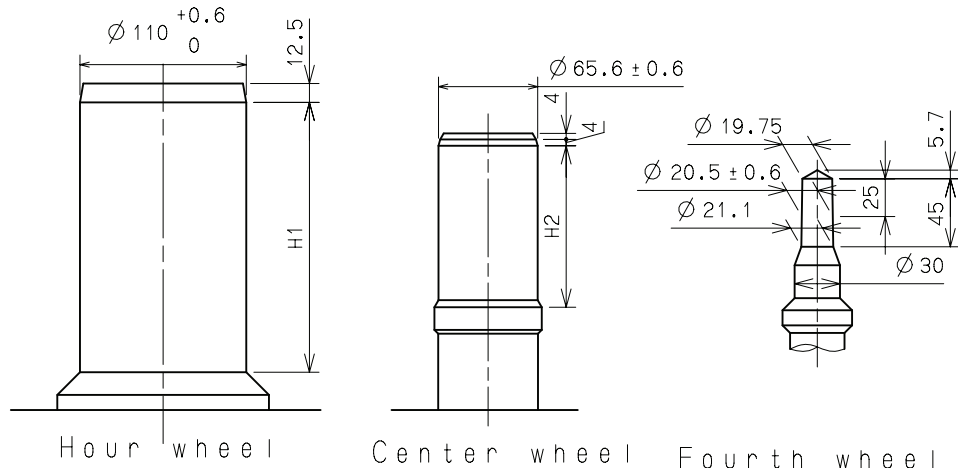
*Hour hand	≤	$0.6 \mu\text{N} \cdot \text{m}$ ($60\text{mg} \cdot \text{mm}$)
*Minute hand	≤	$0.9 \mu\text{N} \cdot \text{m}$ ($90\text{mg} \cdot \text{mm}$)
*Second hand	≤	$0.09 \mu\text{N} \cdot \text{m}$ ($9\text{mg} \cdot \text{mm}$)
*Chronograph hand	≤	$0.05 \mu\text{N} \cdot \text{m}$ ($5\text{mg} \cdot \text{mm}$)
*Small hour hand	≤	$0.07 \mu\text{N} \cdot \text{m}$ ($7\text{mg} \cdot \text{mm}$)

*Moment of inertia

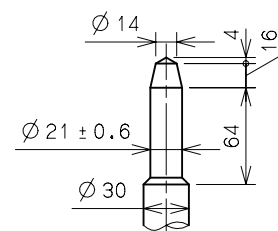
·24hour indicator	≤	$0.4 \mu\text{g} \cdot \text{m}^2$ ($400\text{mg} \cdot \text{mm}^2$) (Disc hand available)
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TYPE M/L

	H1	H2
TYPE M 一般針高	178.5	109
TYPE L 高針	223.5	154



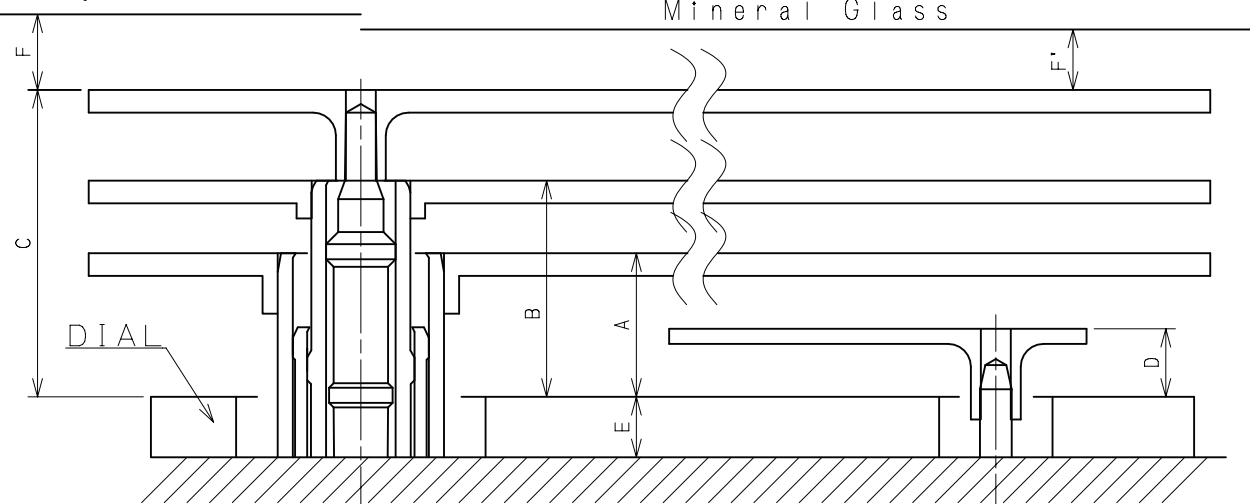
Part name		Part No.	
		TYPE M 一般針高	TYPE L 高針
Hour wheel	時針輪	0271 407	0273 037
Center wheel	分針輪	0221 203	0221 202
Fourth wheel	秒針輪	0241 178	0241 489
Chronograph minute wheel	計時分針輪	0902 008	0902 004
Chronograph second wheel	計時秒針輪	0888 009	0888 011
Small hour hand wheel	小時針輪	0157 006	0157 007



Chronograph minute wheel
Chronograph second wheel
Small hour hand wheel

Acrylic Glass

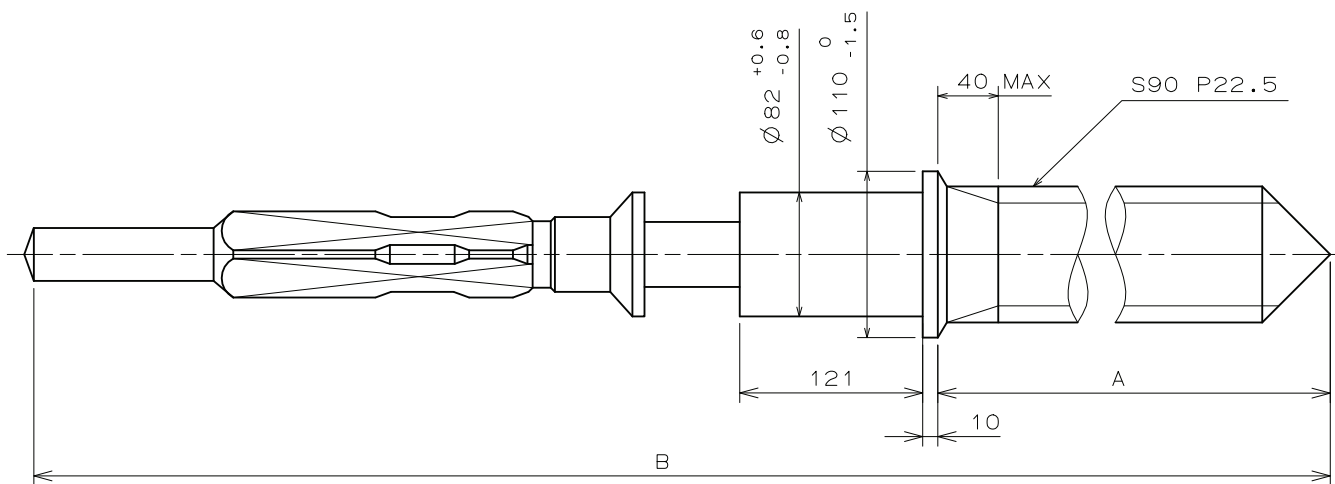
Mineral Glass



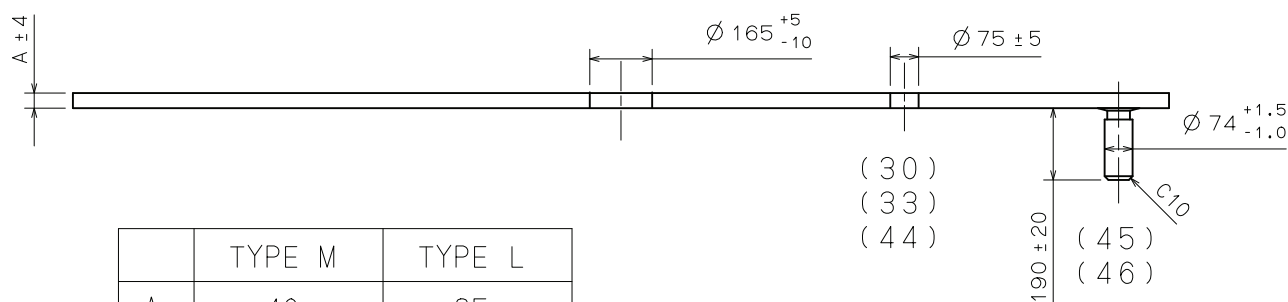
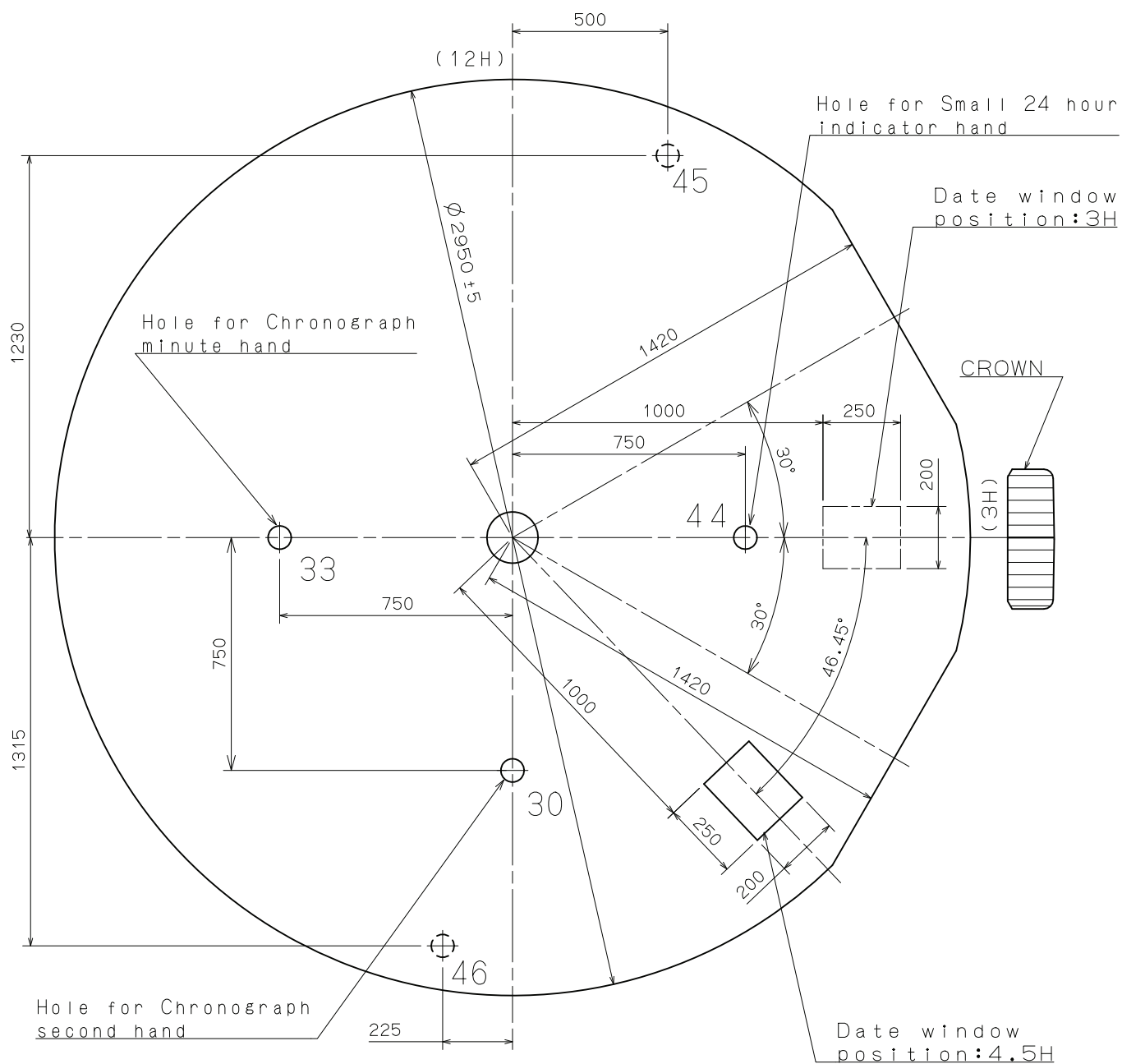
	A	B	C	D	E	F	F'
TYPE M 一般針高	95	143	203	45	40	50	40
TYPE L 高針	95	143	203	45	85	50	40

Unit : 1=1/100mm

Version : 1

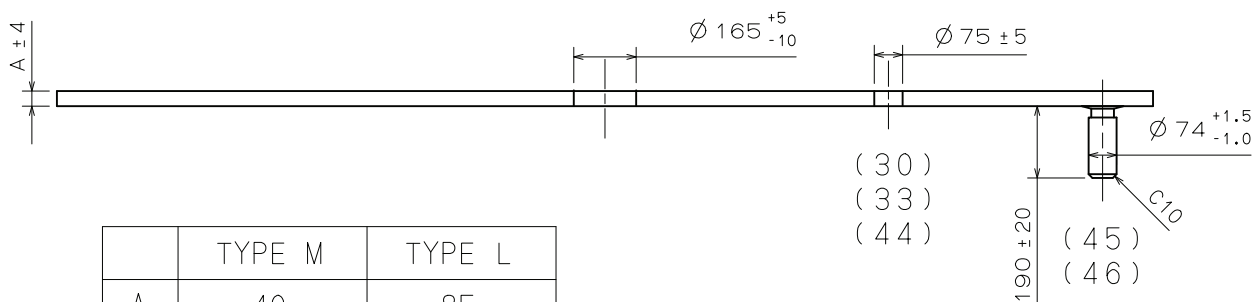
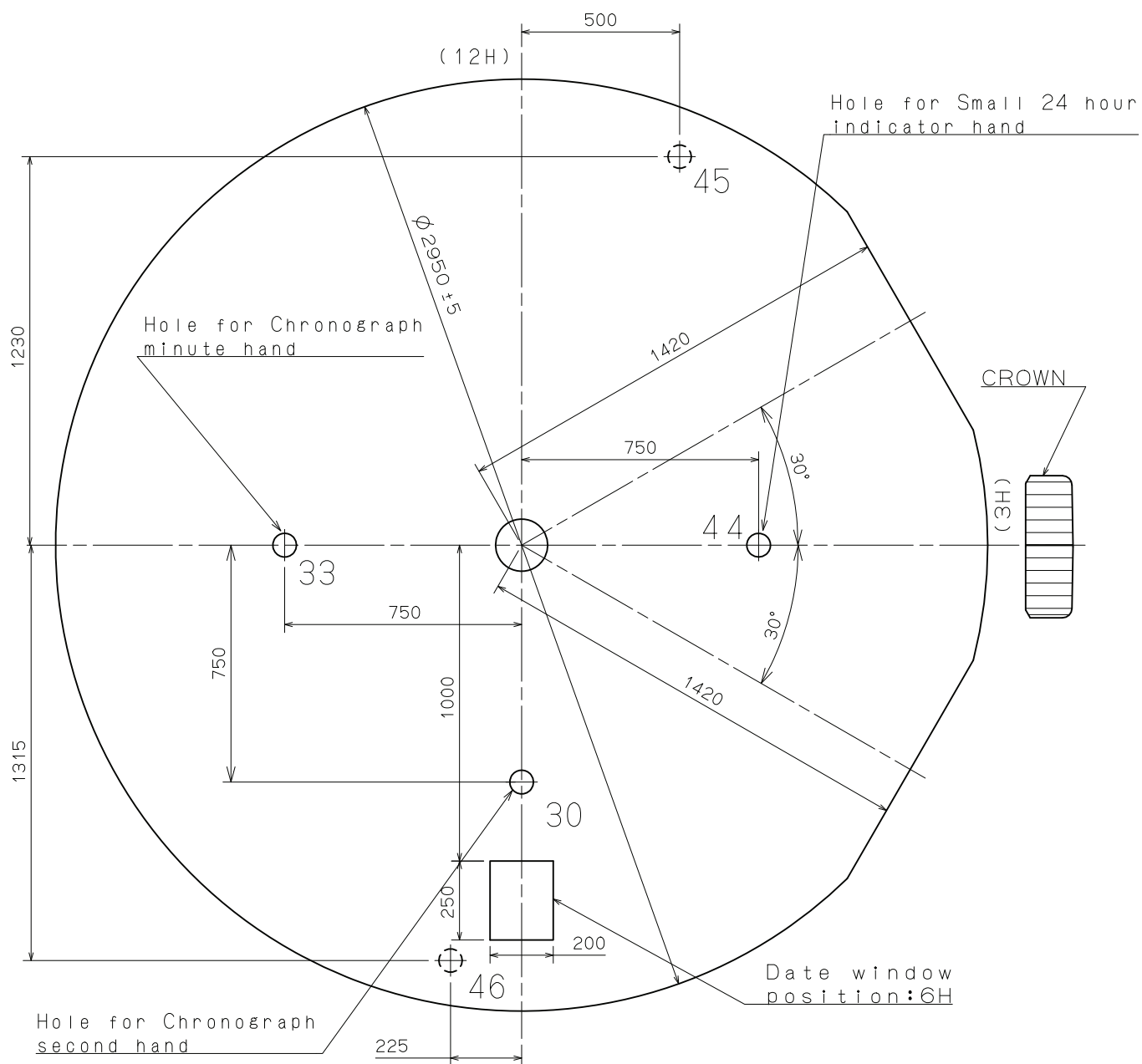


	Part No.	A	B
TYPE A	0351 177	1371	1969
TYPE B	0351 122	1947	2545

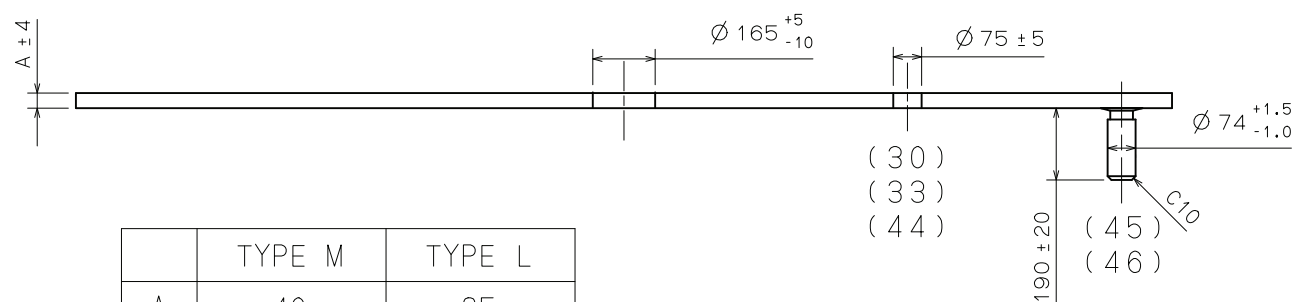
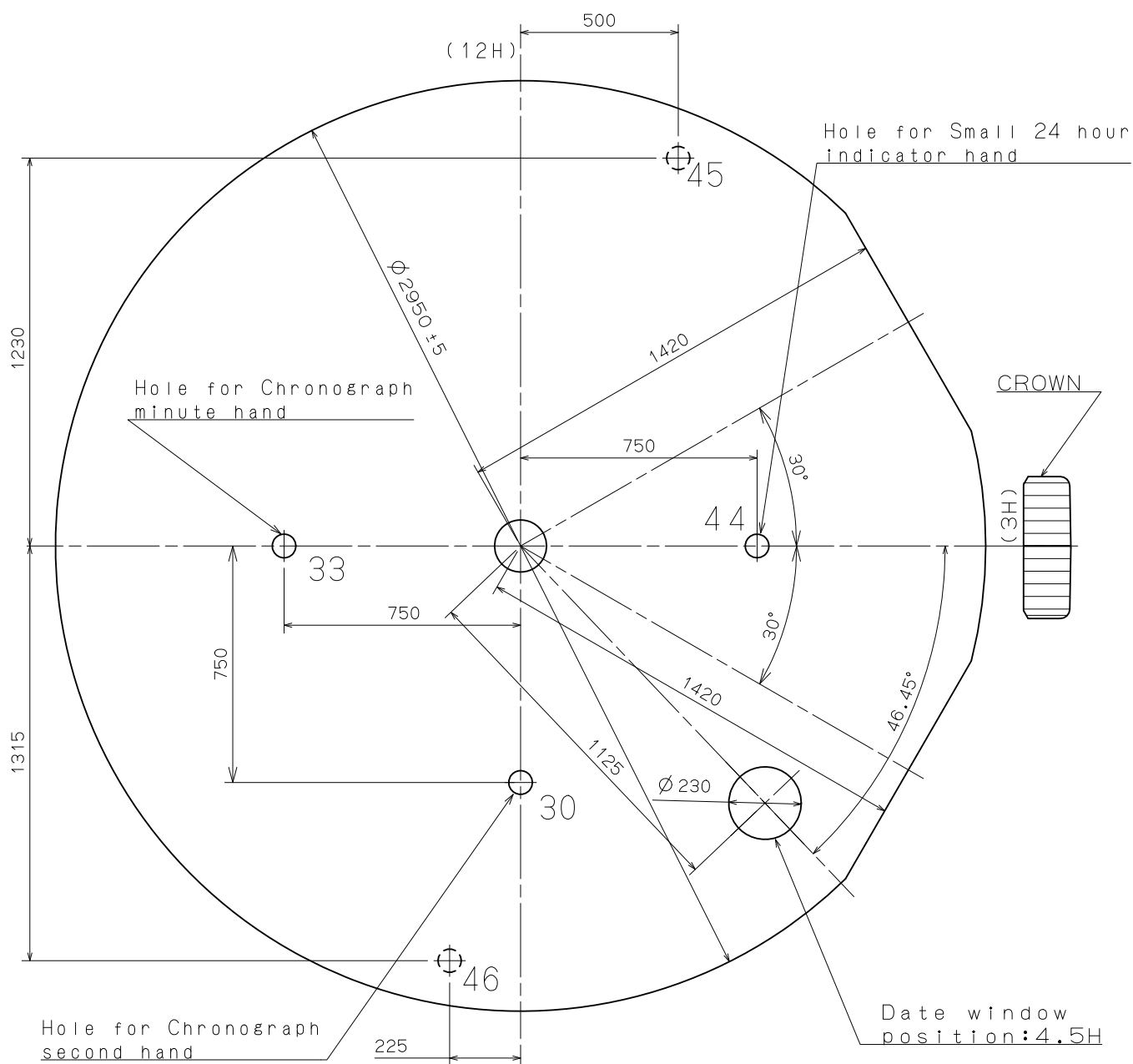


Unit : 1=1/100mm

Version : 1

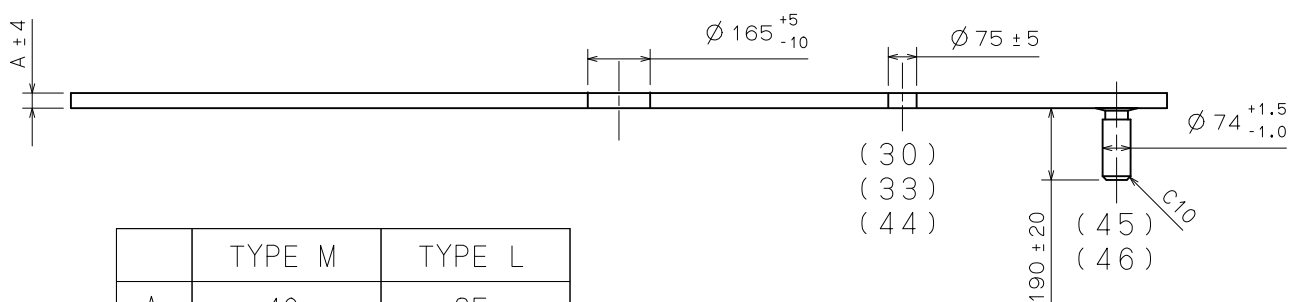
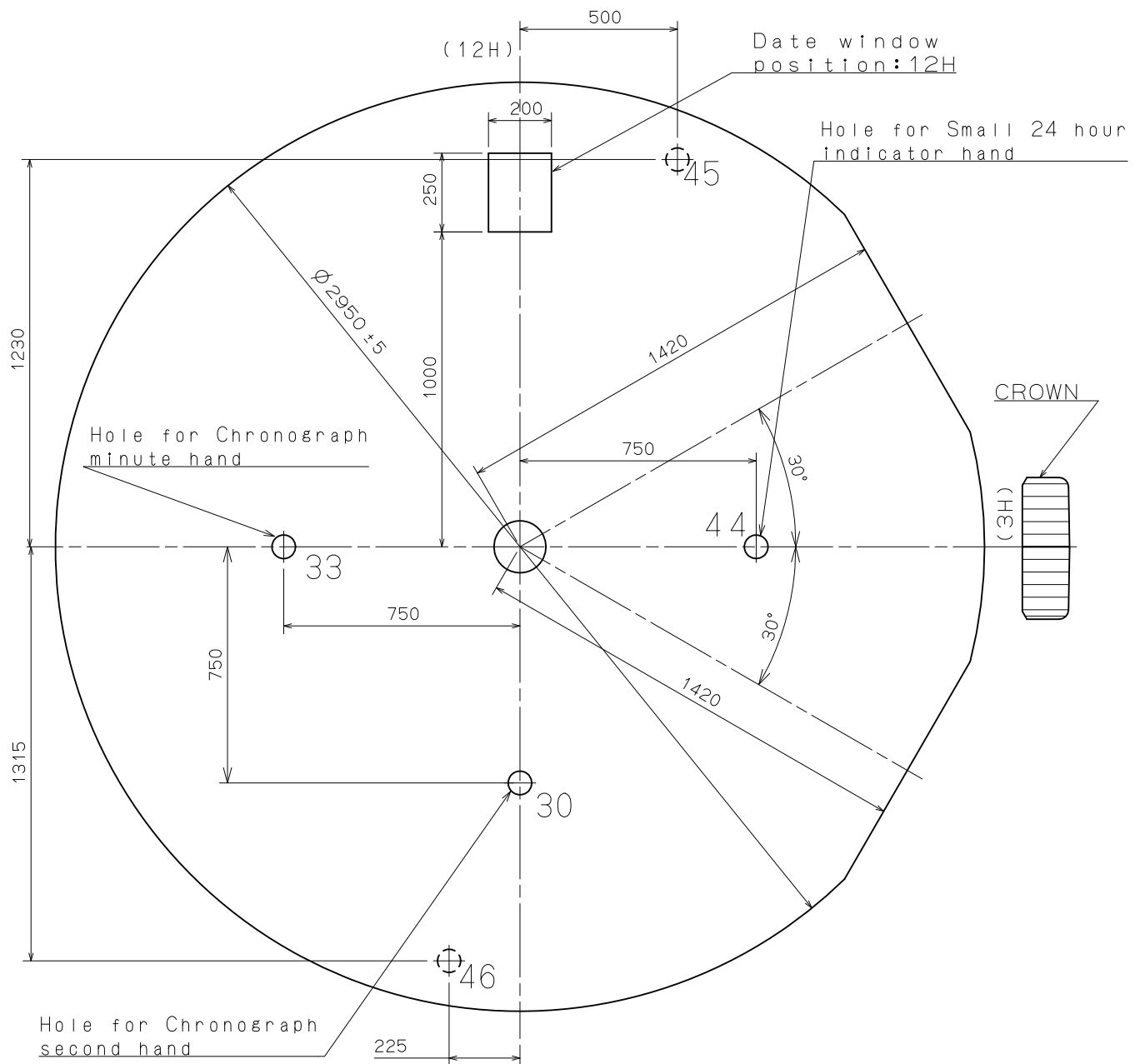


	TYPE M	TYPE L
A	40	85



Unit : 1=1/100mm

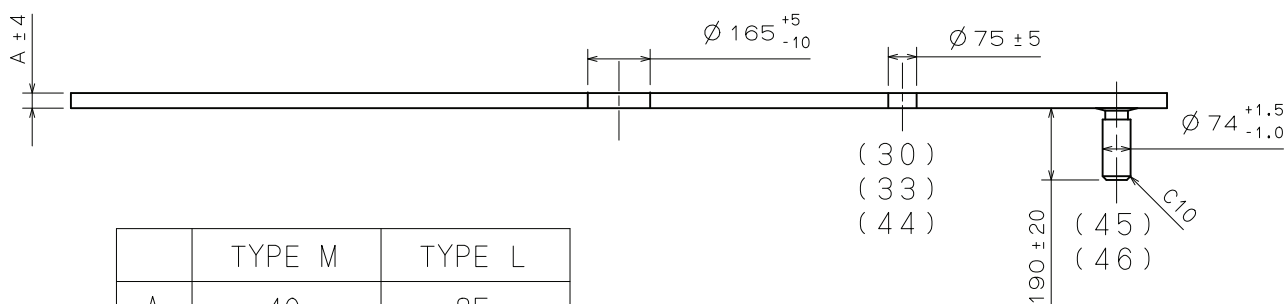
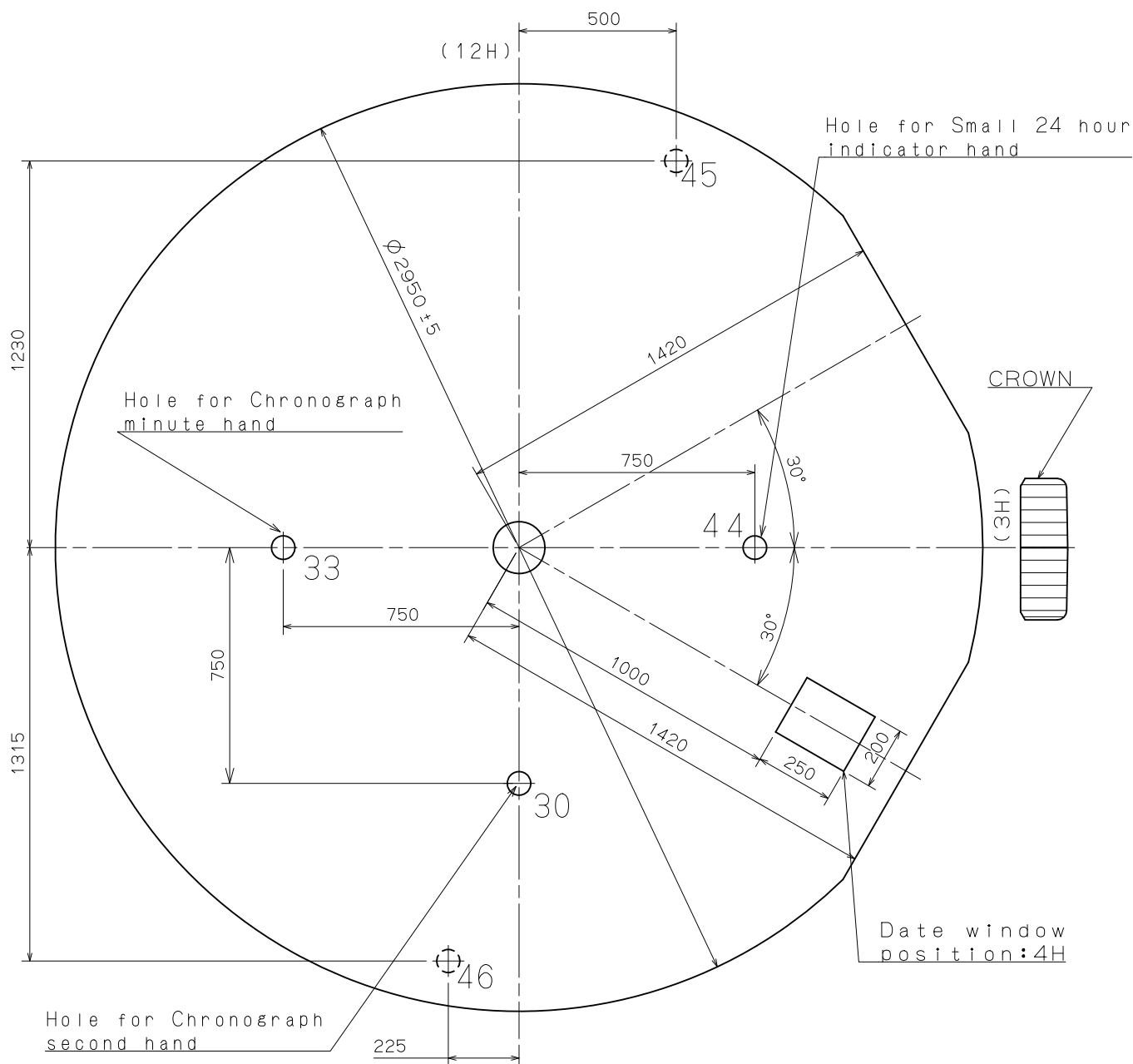
Version : 1

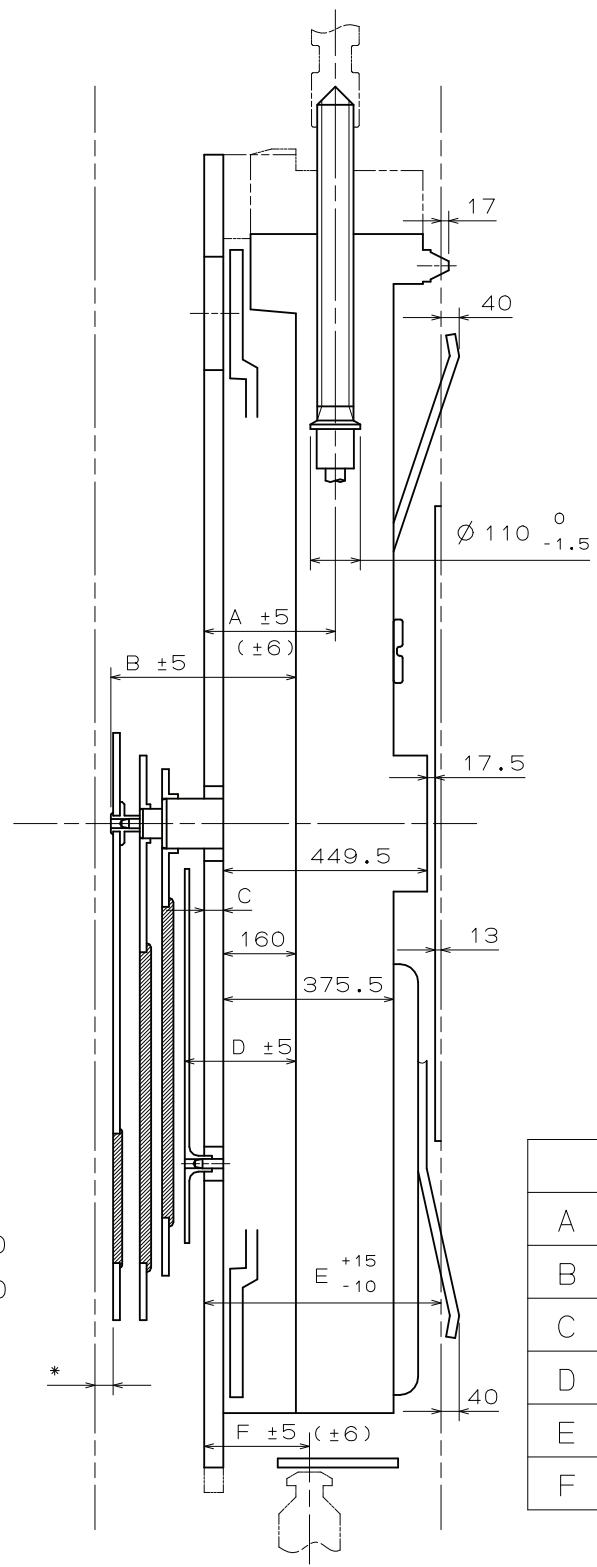


	TYPE M	TYPE L
A	40	85

Unit : 1=1/100mm

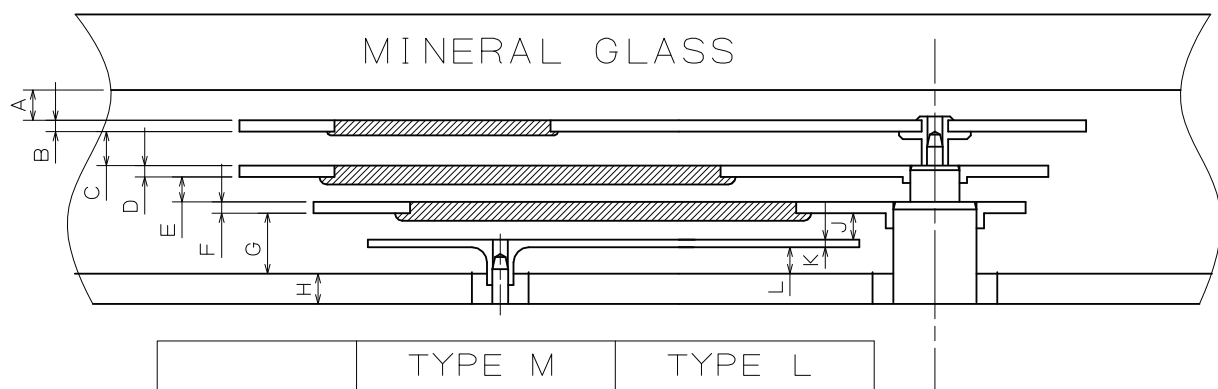
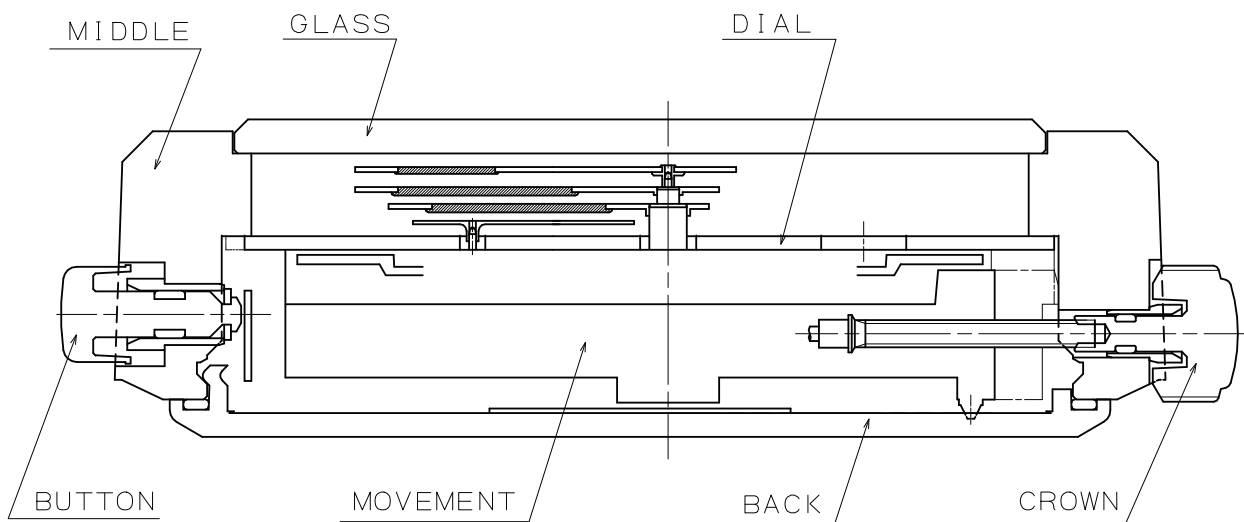
Version : 1



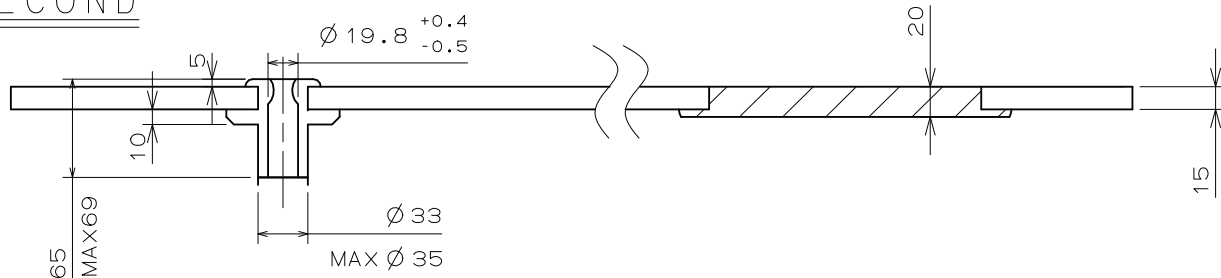
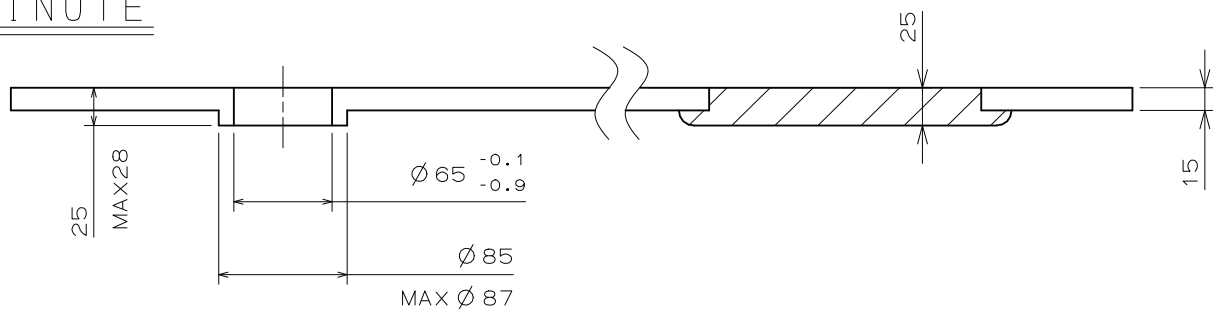
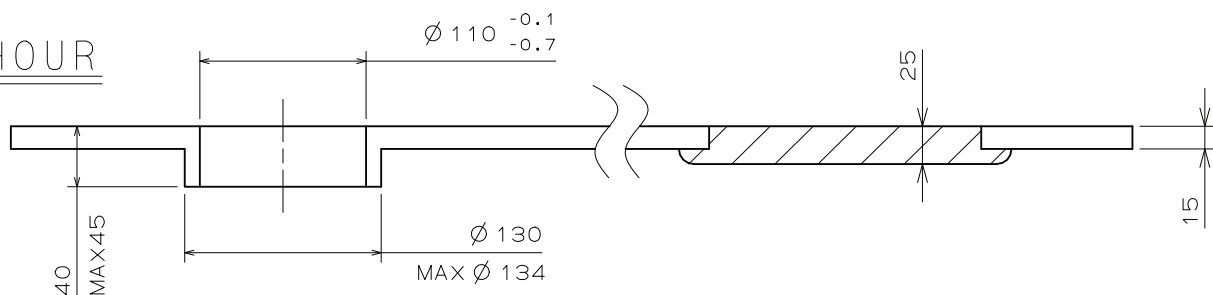


- * Acrylic Glass 50
- * Mineral Glass 40

	TYPE M	TYPE L
A	287	332
B	403	448
C	40	85
D	245	290
E	520	565
F	230	275



	TYPE M	TYPE L
A	40	40
B	15	15
C	45	45
D	15	15
E	33	33
F	15	15
G	80	80
H	40	85
J	35	35
K	10	10
L	35	35

SECONDMINUTEHOURLCHRONO
SMALL HOUR