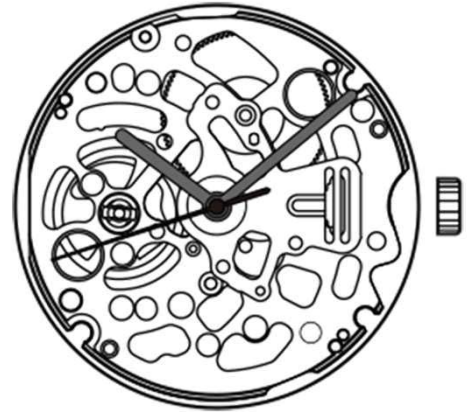


Watch Movement Specification and Drawing

Basic Mechanical Movement

NH70A



Movement Size: **12'''**
 Diameter: **Φ27.40mm**
 Height: **5.32mm**

Items	Ver.	Items	Ver.
Specification	1		
Appearance - 1	1		
Appearance - 2	1		
Casing	1		
Hand Fitting	1		
Hand Setting Stem	1		
Dial	1		
Casing Ring	1		
Dial support	1		
Assembly Plan	1		
Hands	1		
Casing clamp	1		

CAL.NH70A 12 Ligne Mechanical Movement

Three Hands (skeleton)

Nickel plating

1. FUNCTION

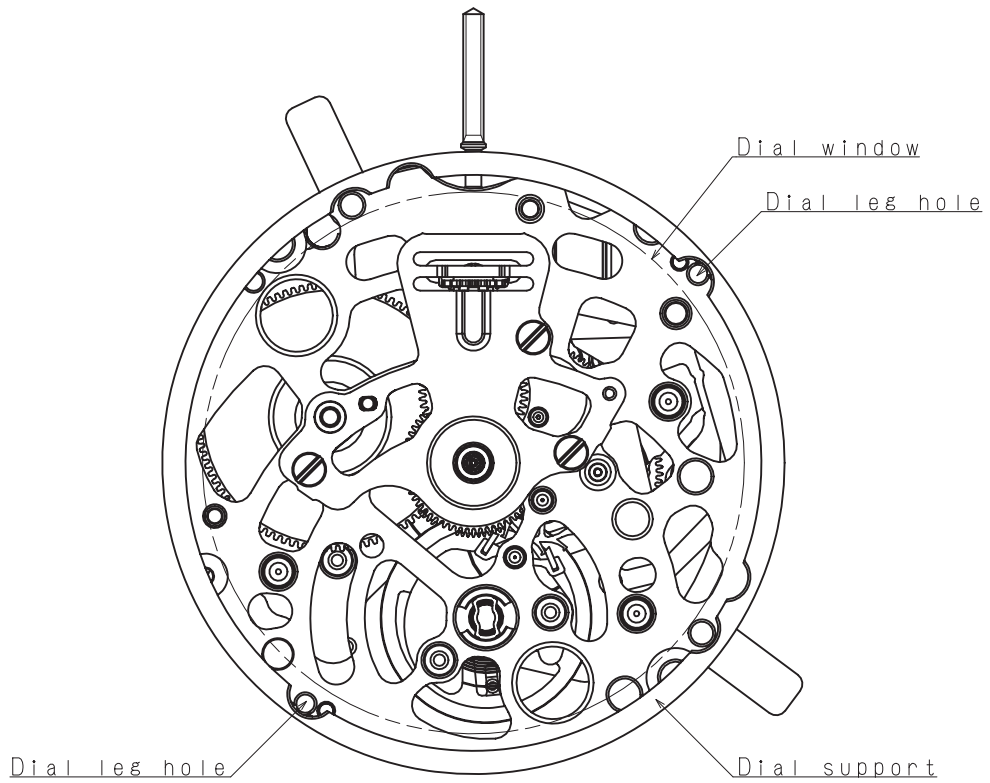
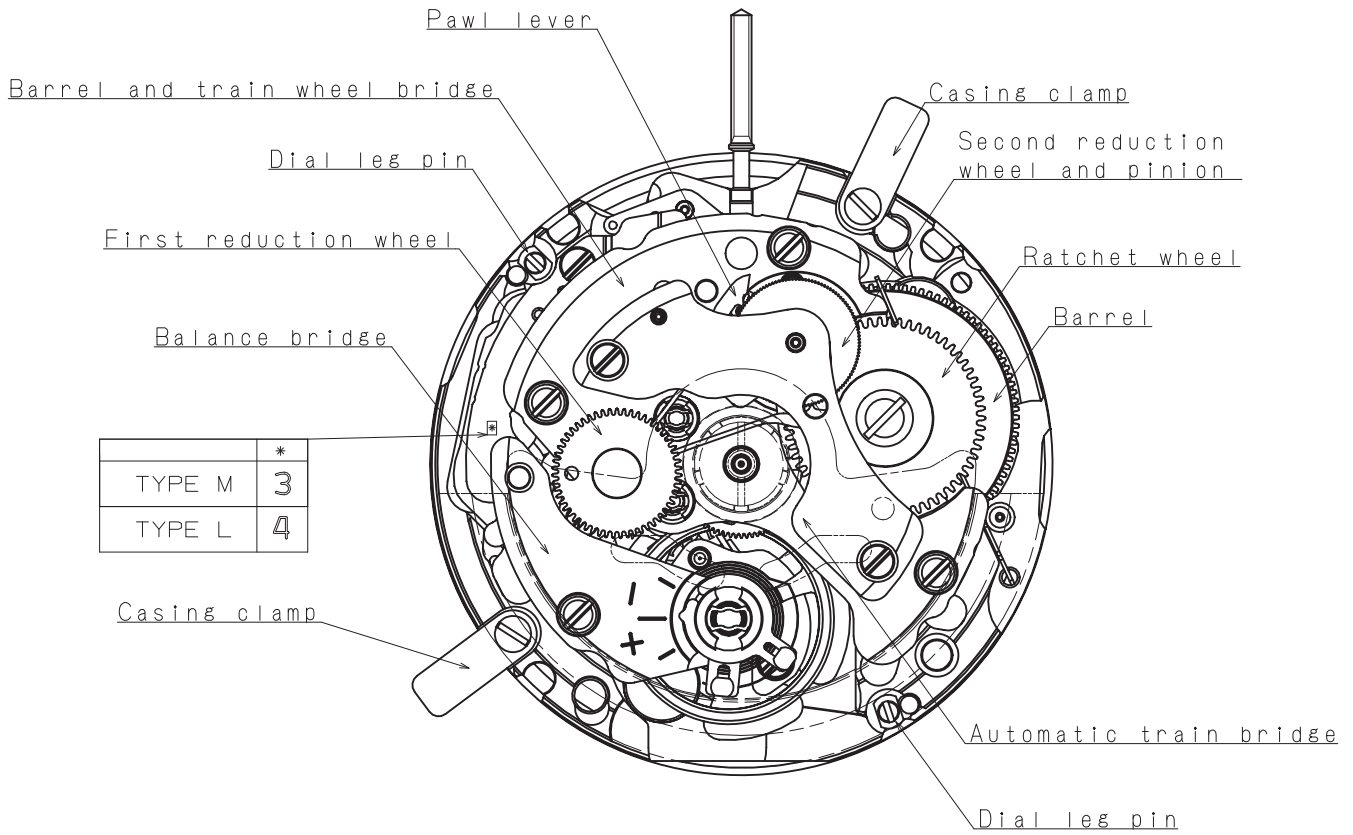
- Jewel 24 jewels
- Accuracy -20 ~ +40 seconds / day (23 ± 2 °C)
- Regulation hands unbalance
 - Hour hand : Less than 1.50 $\mu\text{N}\cdot\text{m}$ (150 mg·mm)
 - Minute hand : Less than 1.25 $\mu\text{N}\cdot\text{m}$ (125 mg·mm)
 - Second hand : Less than 0.60 $\mu\text{N}\cdot\text{m}$ (60 mg·mm)

- Additional function
 - Manual winding
 - Automatic winding with ball bearing
 - Both winding with one way clutch
 - Second hand stop mechanism

2. USE AND TEST CONDITION

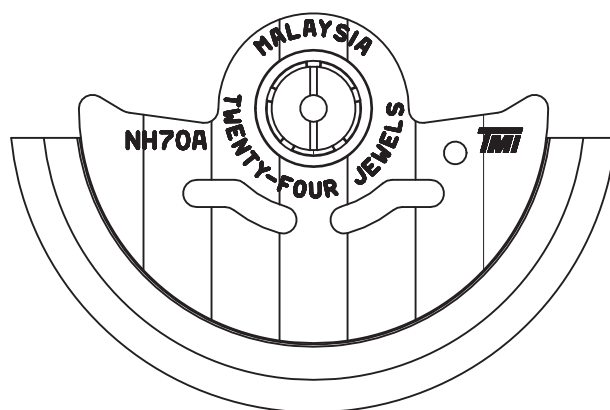
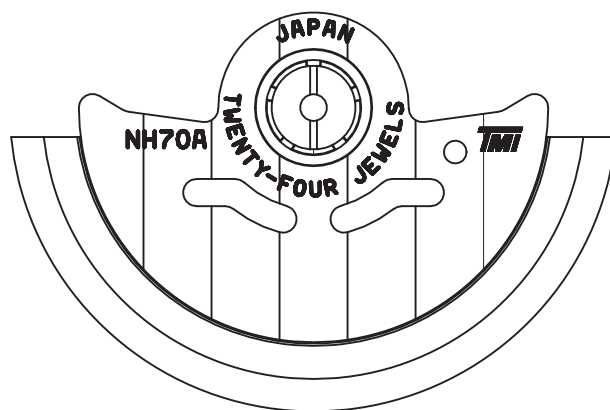
- Vibration frequency 21,600 vibrations per hour
- Duration time More than 41 hours
- Antimagnetic ≥ 4800 A / m (Direct current magnetic field)
- Test of accuracy 20 seconds (Duration of measurement)
- Casing Non-corresponding with Diver's watch

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

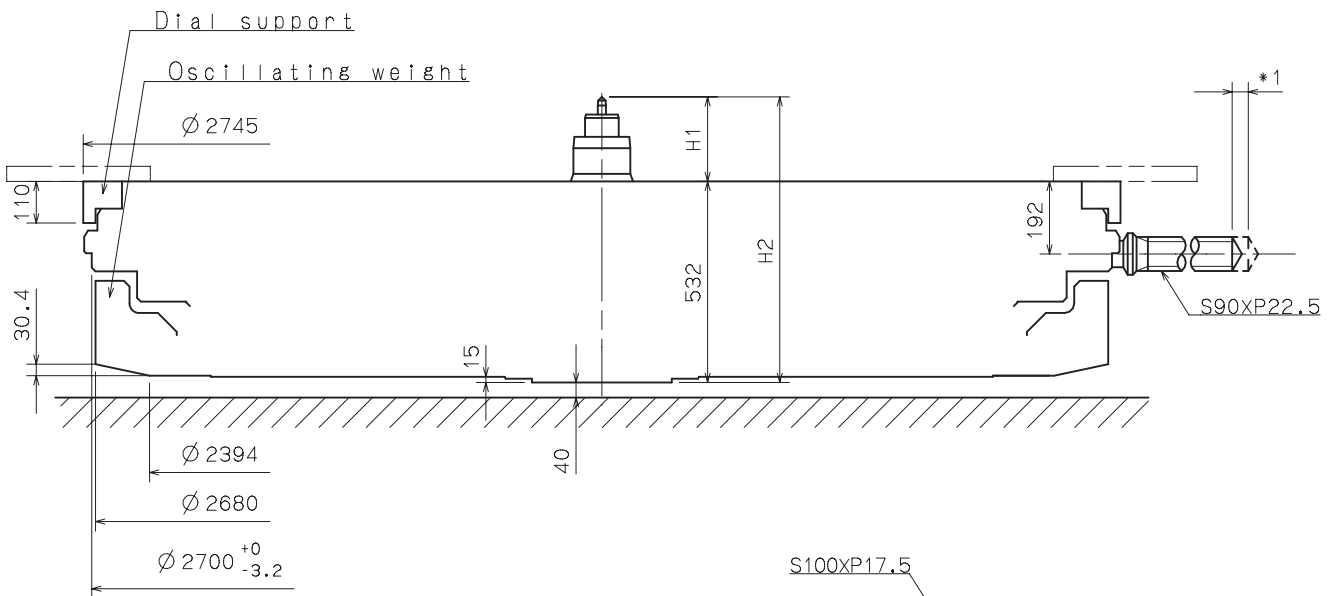


Oscillating weight

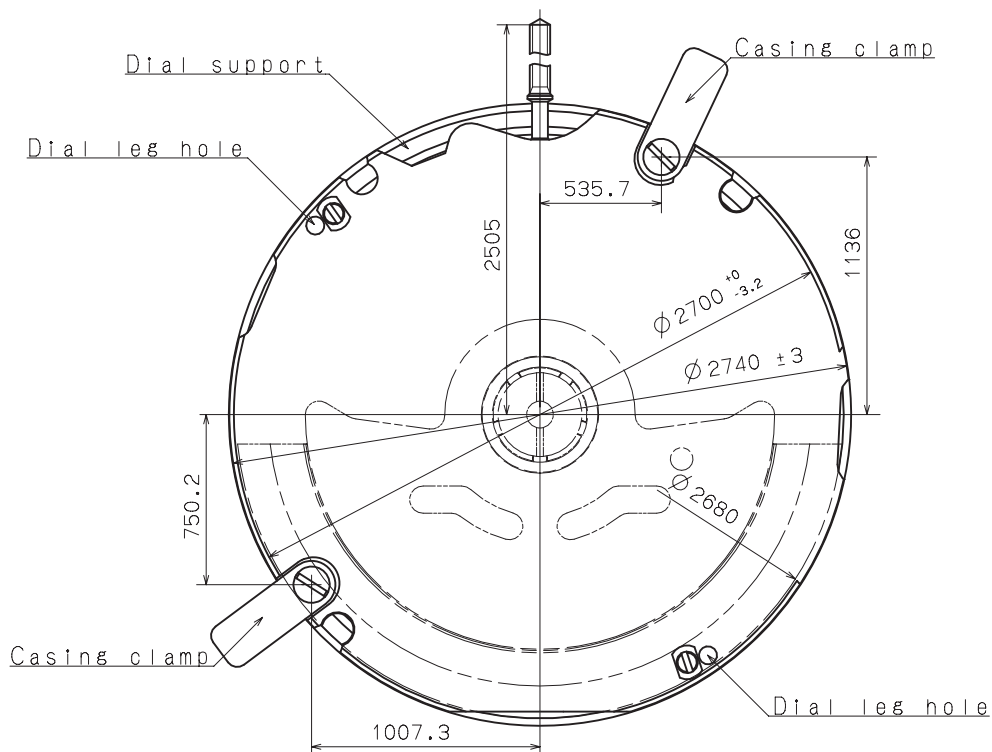
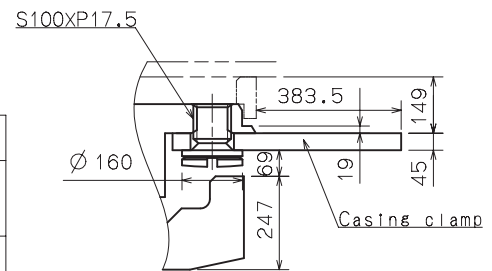
Marking	Country of origin
JAPAN	JAPAN
MALAYSIA	MALAYSIA



*1. Pull out stroke 42.7



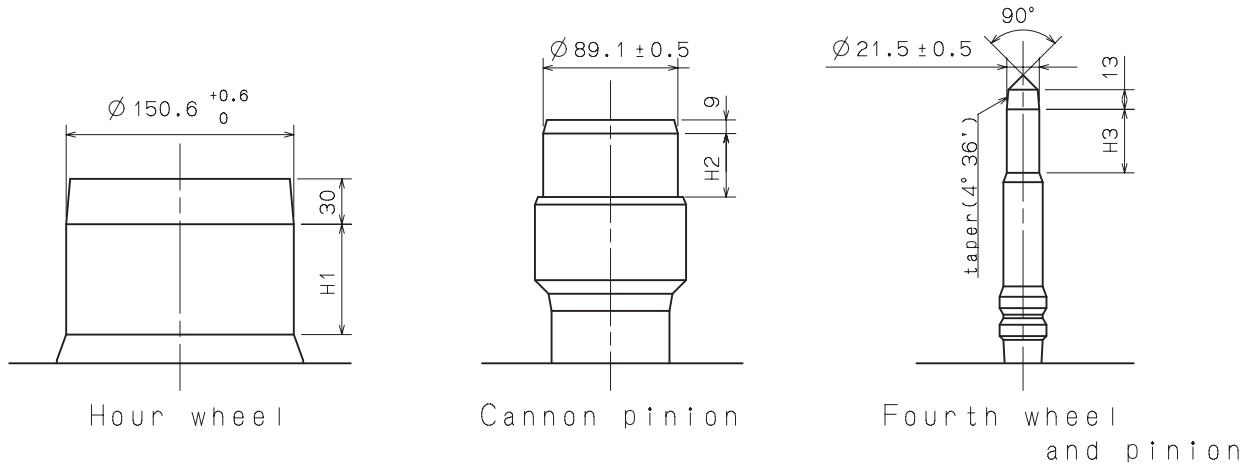
Center post 中心柱位		TYPE M 一般針高	TYPE L 高針
Maximum height from main plate surface 與機芯平面的最大高度	H1	226.7	266.7
Total height incl. movement 機芯總高度	H2	758.7	798.7



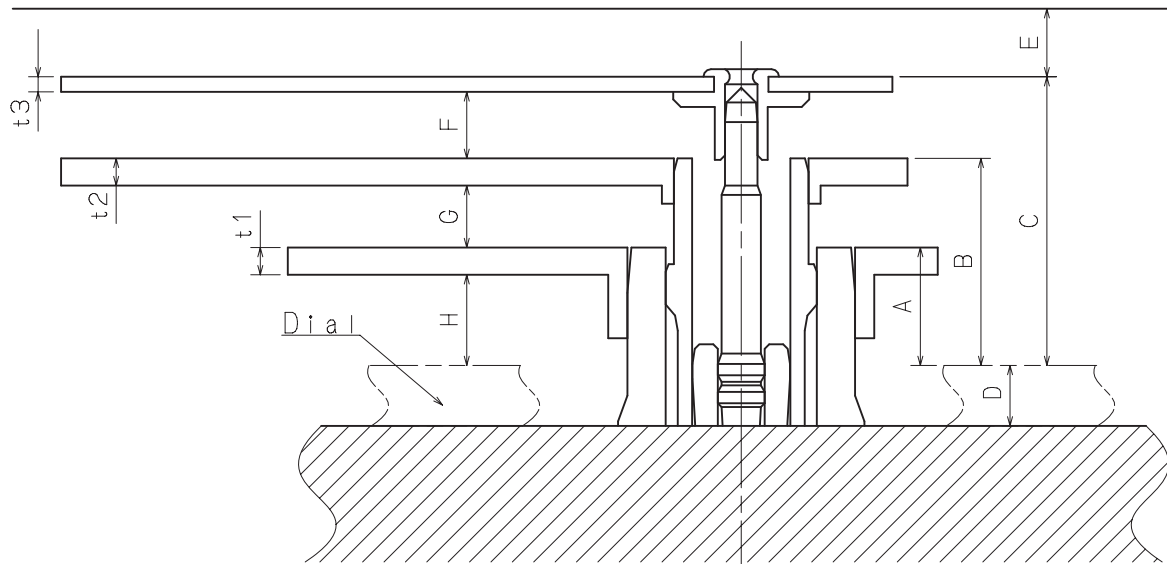
Unit : 1=1/100mm

Version : 1

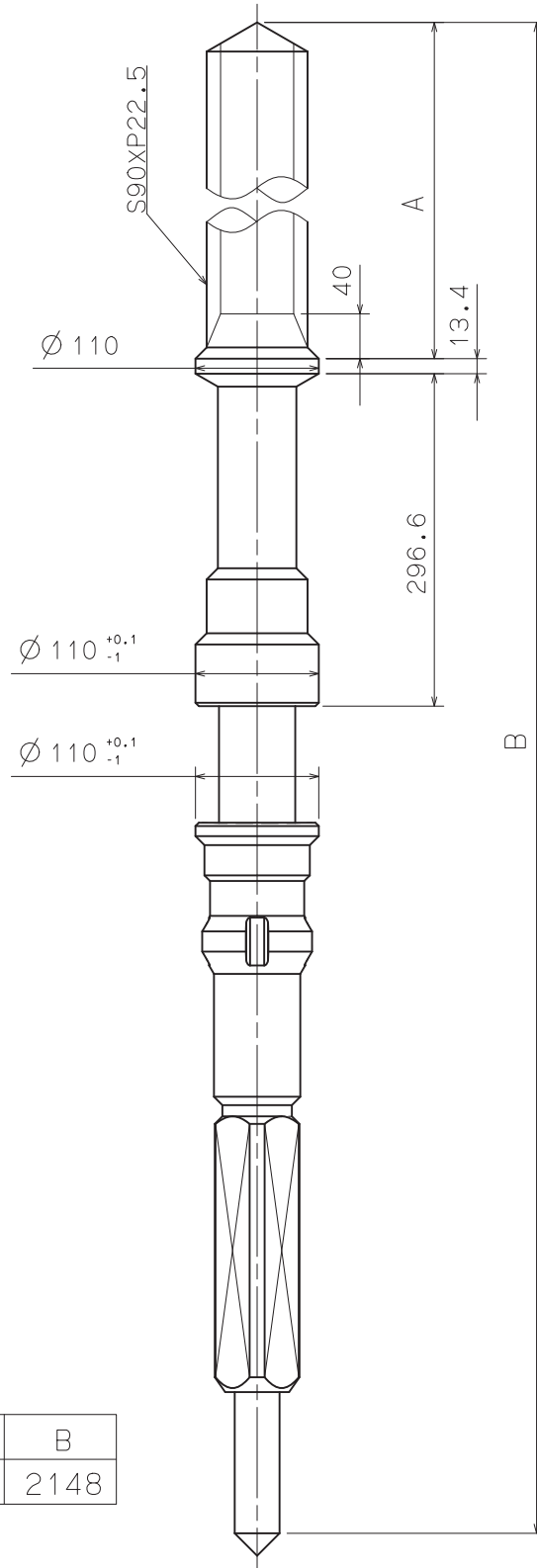
Hour hand unbalance $\leq 1.50\mu\text{N}\cdot\text{m}$ (150mg·mm)
 Minute hand unbalance $\leq 1.25\mu\text{N}\cdot\text{m}$ (125mg·mm)
 Second hand unbalance $\leq 0.60\mu\text{N}\cdot\text{m}$ (60mg·mm)



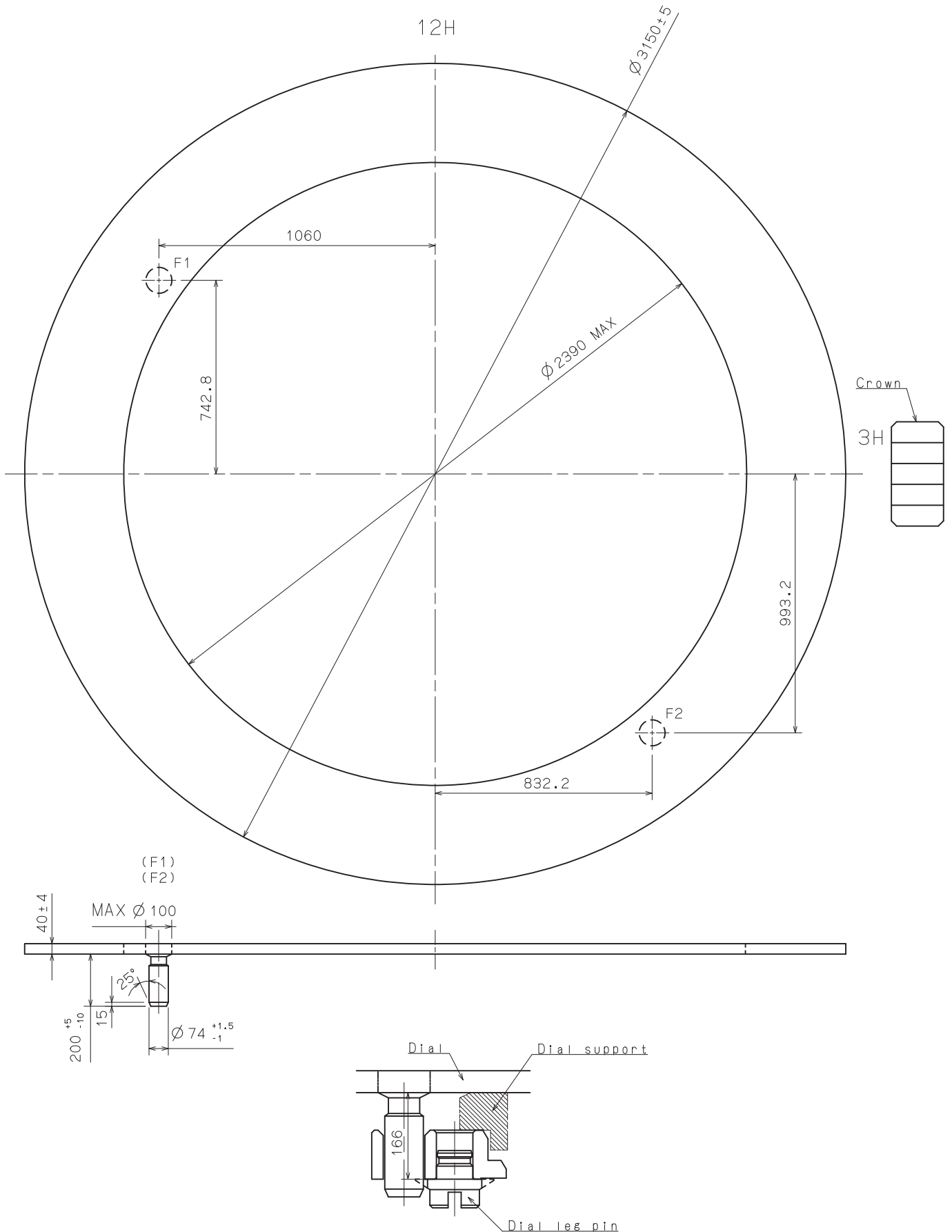
	Part No.			Dimension		
	Hour wheel 時針輪	Cannon pinion 分針輪(十反)	Fourth wheel and pinion 秒針輪	H1	H2	H3
TYPE M 一般針高	0273 183	0225 425	0144 184	68	61	42
TYPE L 高針	0273 185	0225 426	0144 185	108	61	42



	A	B	C	D	E	F	G	H	t1	t2	t3
TYPE M 一般針高	78	137	191	40	45	44	41	60	18	18	10
TYPE L 高針	118	177	231	40	45	44	41	100	18	18	10



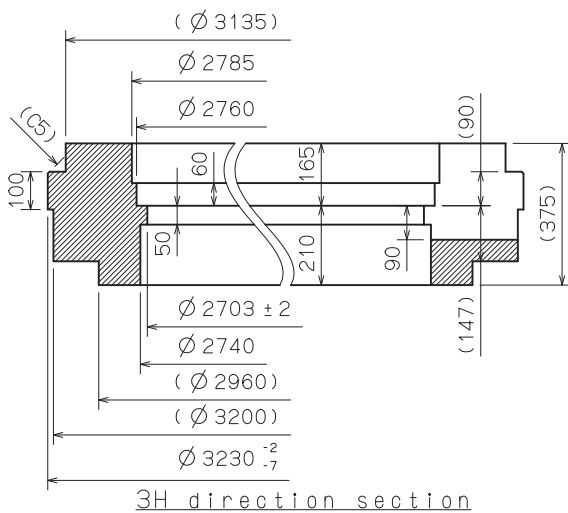
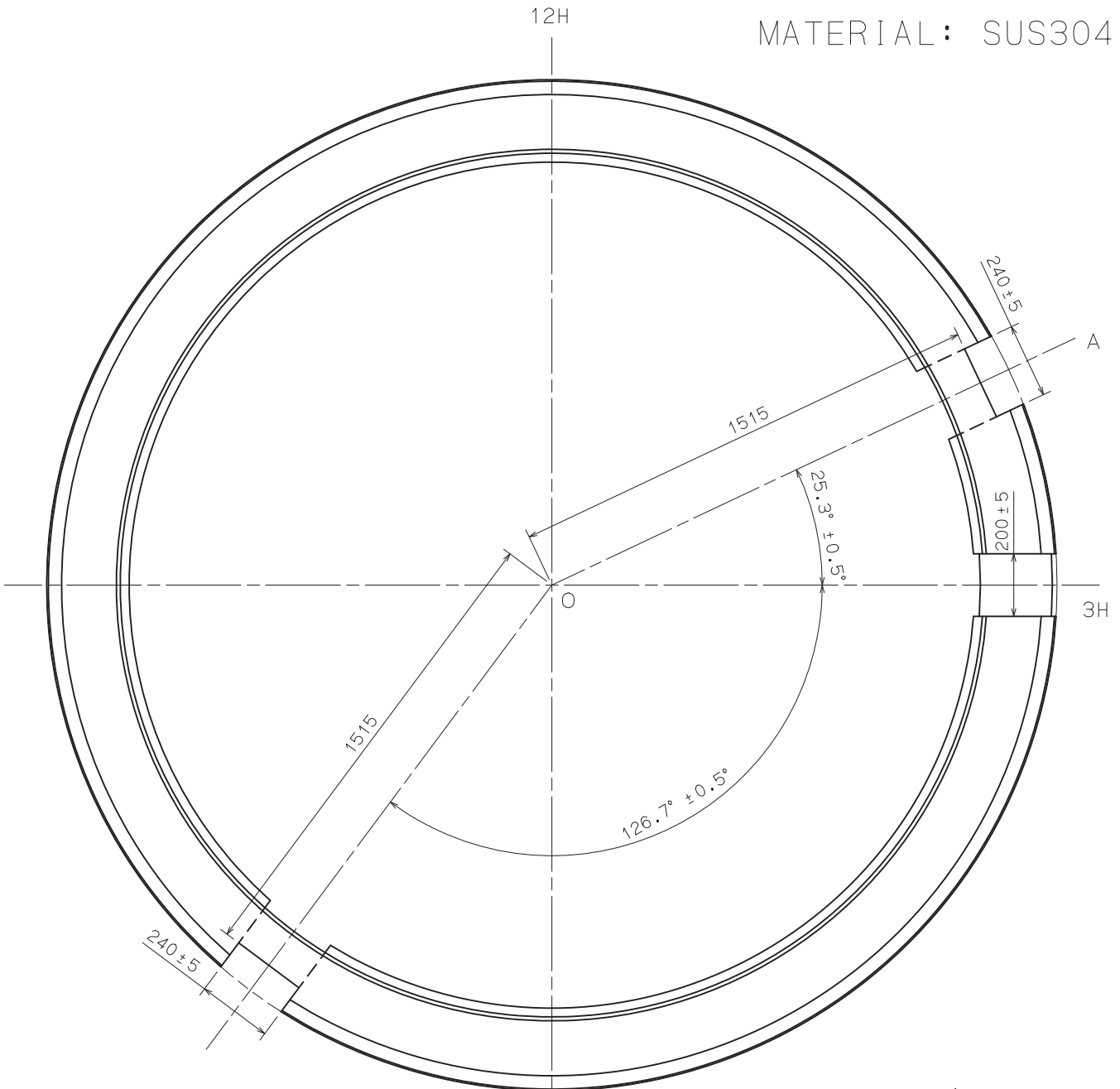
Part No.	A	B
0351 200	1100	2148



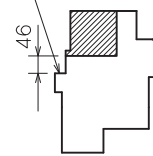
Casing Ring

NH70A

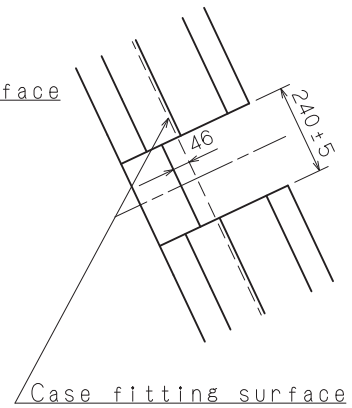
MATERIAL: SUS304



Case fitting surface



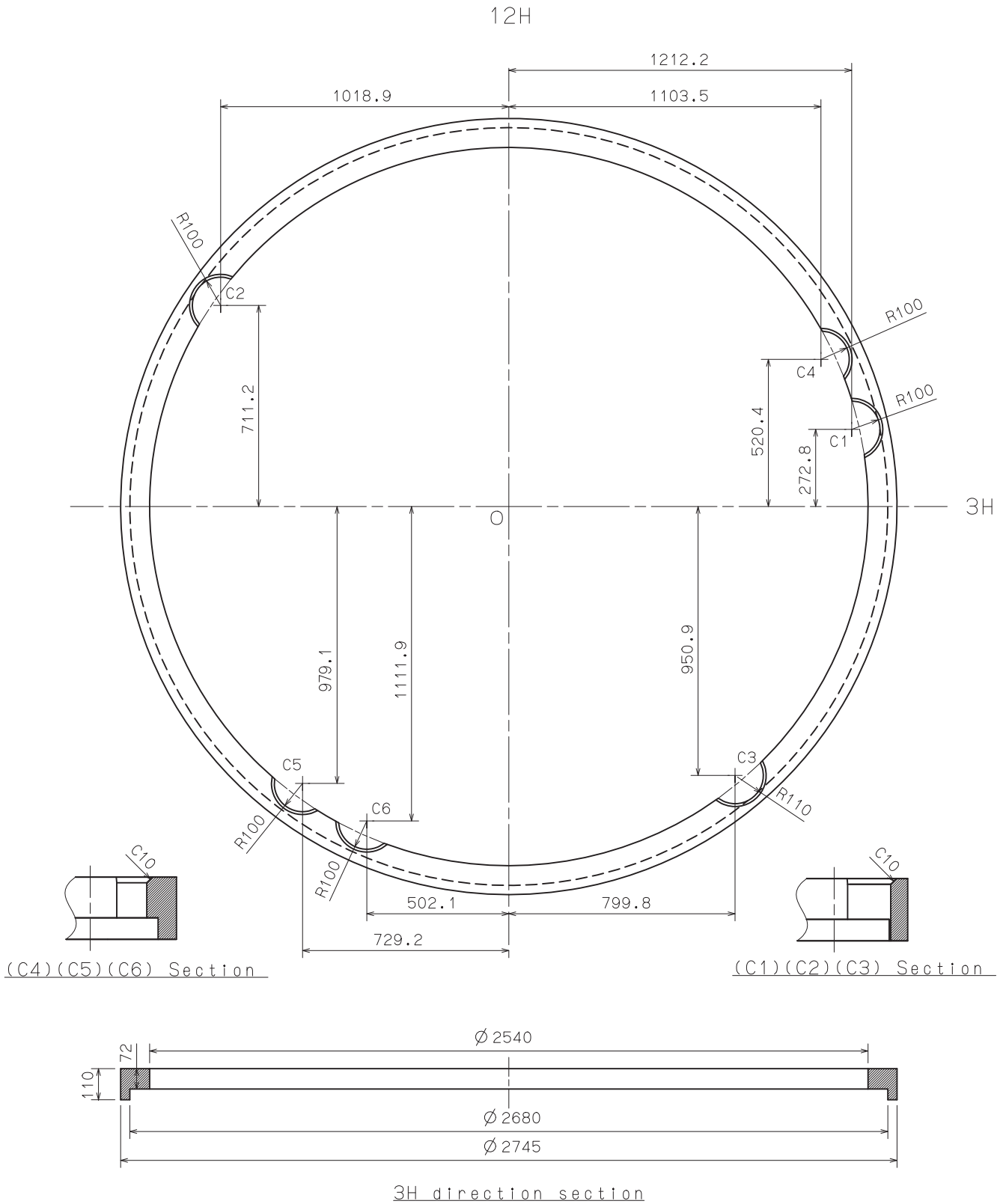
O-A section



A direction view

Unit : 1=1/100mm

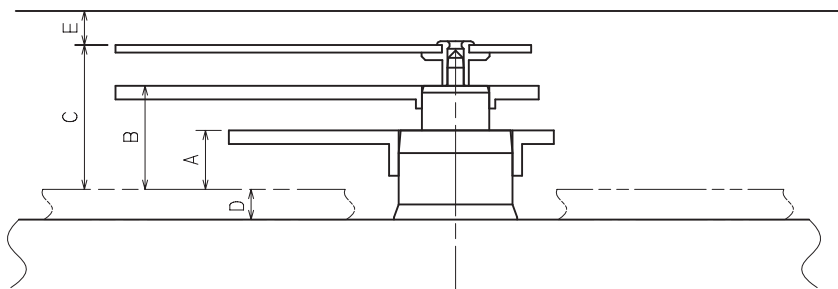
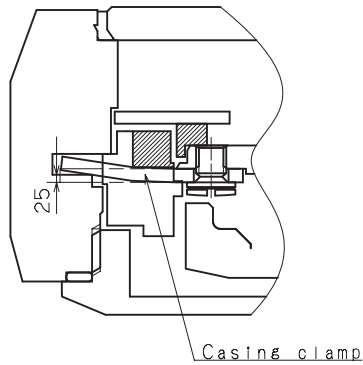
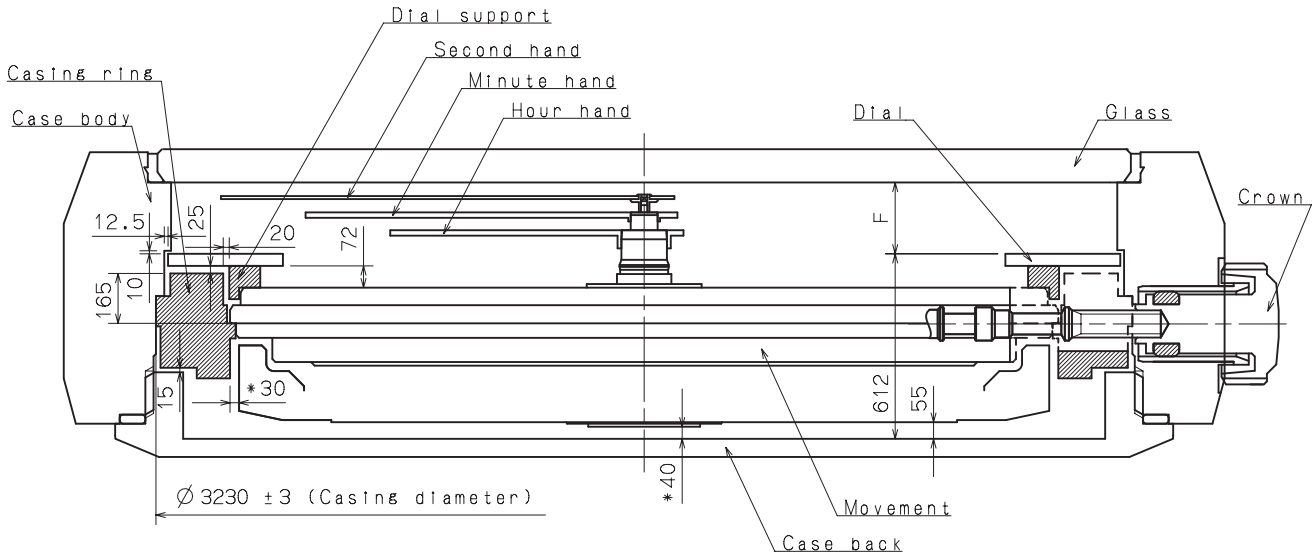
Version : 1



Assembly Plan

NH70A

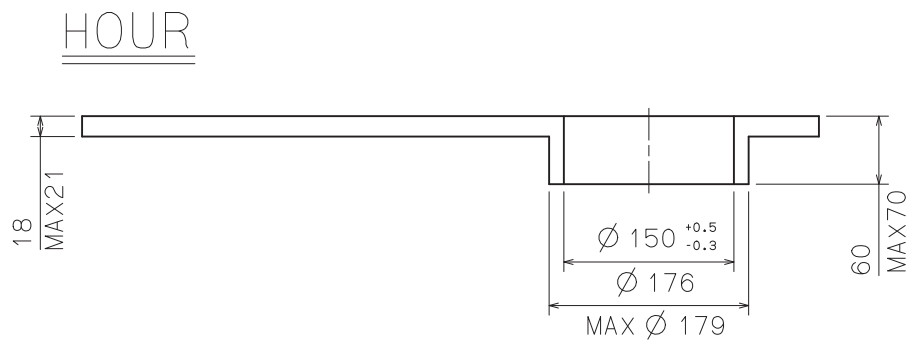
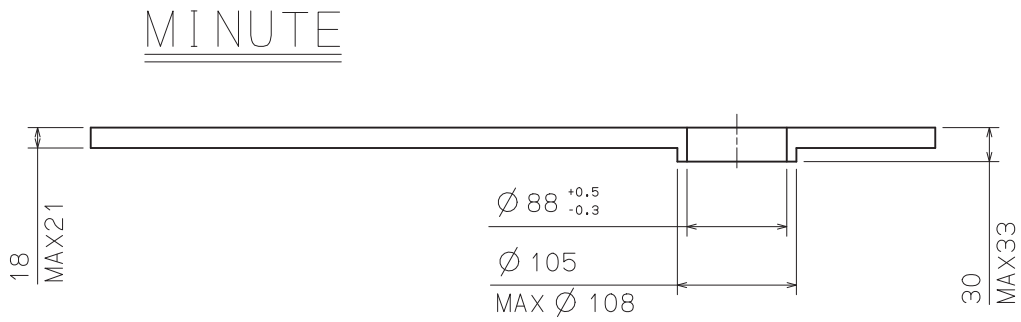
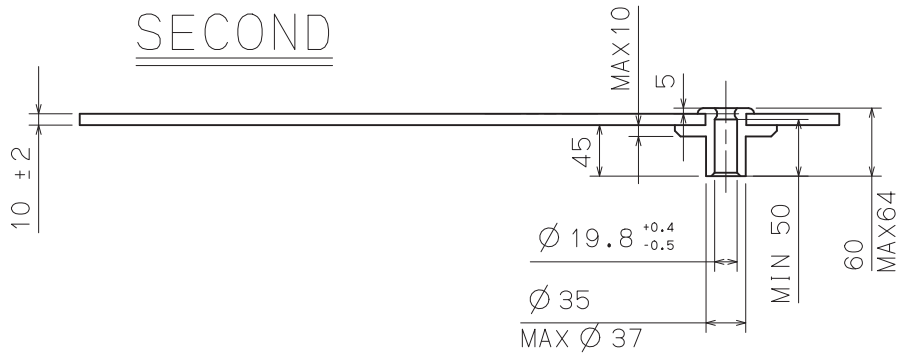
(Note for clearance *30and*40)
It is STRONGLY RECOMMENDED that these clearances should be applied without modifications.



	A	B	C	D	E	F
TYPE M	78	137	191	40	45	236
TYPE L	118	177	231	40	45	276

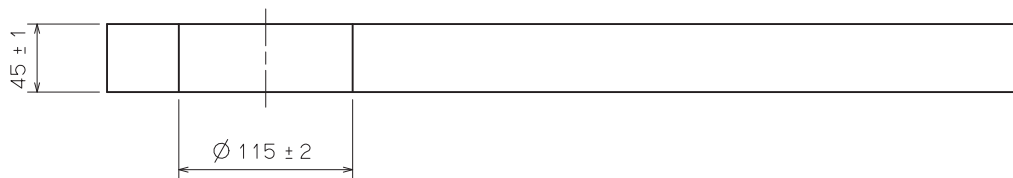
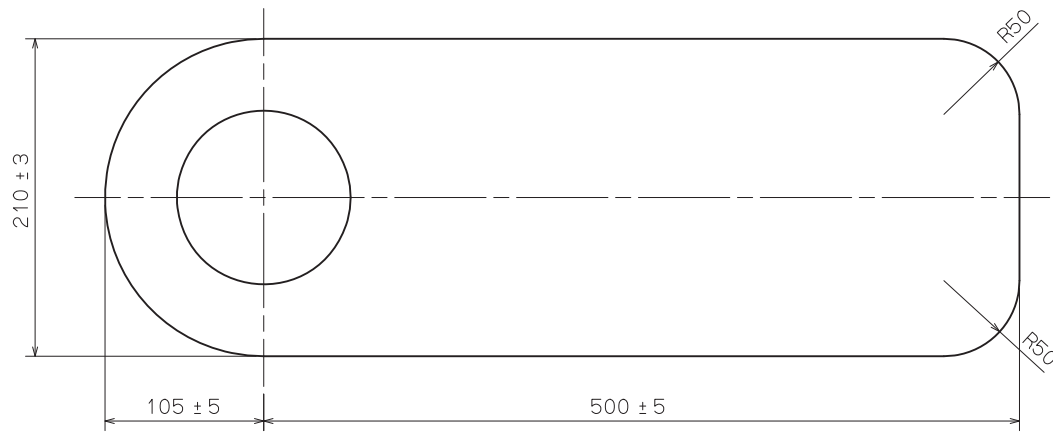
Unit : 1=1/100mm

Version : 1



Casing Clamp

NH70A



MATERIAL: SUS631 - CSP3/4H
HARDNESS: Hv500 \pm 30

Unit : 1=1/100mm

Version : 1