

Cal. VJ33A/B

ϕ 23.70 mm

H 2.94 mm

Item	Version No.
Specification	Version 4
Appearance-1 (VJ33A)	Version 5
Appearance-2 (VJ33B)	Version 1
Casing	Version 6
Hand Fitting-1 (VJ33A)	Version 6
Hand Fitting-2 (VJ33B)	Version 1
Hand Setting Stem	Version 5
Dial - 1	Version 5
Dial - 2	Version 5
Dial - 3	Version 5
Dial - 4	Version 5
Dial - 5	Version 5
Dial - 6	Version 5
Dial - 7	Version 5
Dial - 8	Version 5
Dial - 9	Version 5
Dial - 10	Version 4
Dial - 11	Version 3
Dial - 12	Version 3
Dial - 14	Version 3
Dial - 15	Version 3
Dial - 16	Version 3
Dial - 17	Version 3
Casing Ring	Version 6
Assembly Plan	Version 5
Hands	Version 5



MOVEMENT SPECIFICATIONS

CAL.VJ33A/B 10 1/2 Ligne Quartz Movement Three Hands with Day & Date

1. MOVEMENT DIMENSIONS

• Outside diameter	22.60mm (12H~6H) x 22.60mm (3H~9H), ϕ 23.70mm
• Casing diameter	22.10mm (12H~6H) x 21.40mm (3H~9H), ϕ 23.30mm
• Total height	2.94 mm (including the battery)

2. TIME STANDARD

• Type of quartz oscillator	Tuning fork
• Frequency of quartz oscillator	32,768 H Z
• Accuracy	Monthly rate: Less than 20 seconds per month at normal temperature range
• Regulation device	Nil
• Regulation hands unbalance	Second : Less than 0.07 μ N·m (7mg·mm) Minute : Less than 0.30 μ N·m (30mg·mm) Hour : Less than 0.30 μ N·m (30mg·mm)

3. BATTERY

• Type	Silver oxide battery
• Size	ϕ 6.8 x t 2.1 (mm)
• Battery life	Approx. 3 years
• Recommended battery	SR621SW (SEIZAIKEN)

4. STEPPING MOTOR

• Type	Two pole stepping motor
• Step	180° every second

5. JEWEL

0 jewel

6. ANTIMAGNETISM

(direct current magnetic field)

≥ 1600 A / m

7. SHOCK RESISTANCE

On equal level with general quartz movement

8. OPERATING TEMPERATURE RANGE

From - 5°C to + 50°C

9. SETTING MECHANISM

• Crown at normal position	Free
• Crown pulled out to 1st click	Clockwise : Instant day change Counterclockwise : Instant date change
• Crown pulled out to 2nd click	Time setting, second setting and reset switch

10. TEST OF ACCURACY

• Equipment to be used	Quartz Tester QT - 99 Greiner Quartz Timer - C Witschi Q-Tester 4000
• Duration of measurement	10 seconds
• Microphone to be used	Electromagnetic detection type (DM-1)

11. ATTACHED PARTS

Parts Name	Parts Code
Silver oxide battery	3016 - 17G0
Hand setting stem	0351-3320 (Regular) / 0351-0010 (Long)

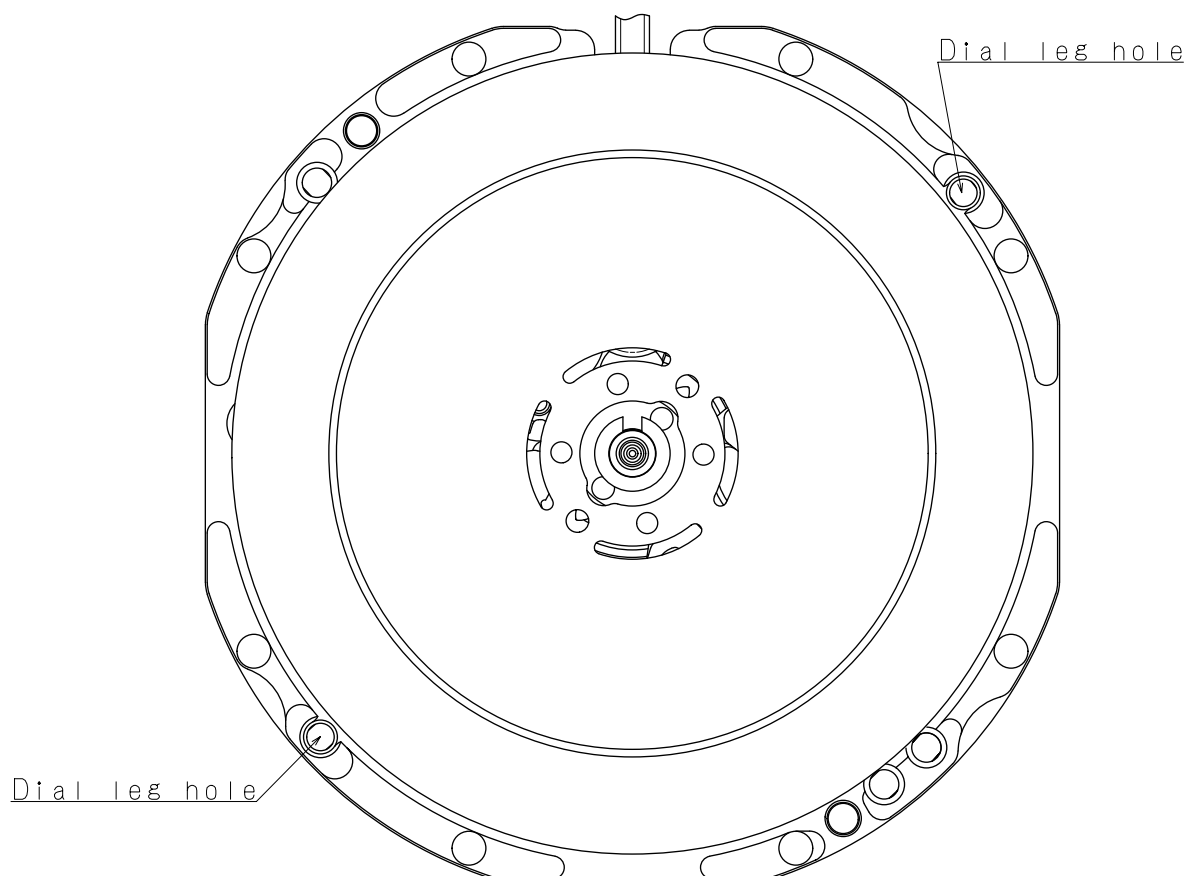
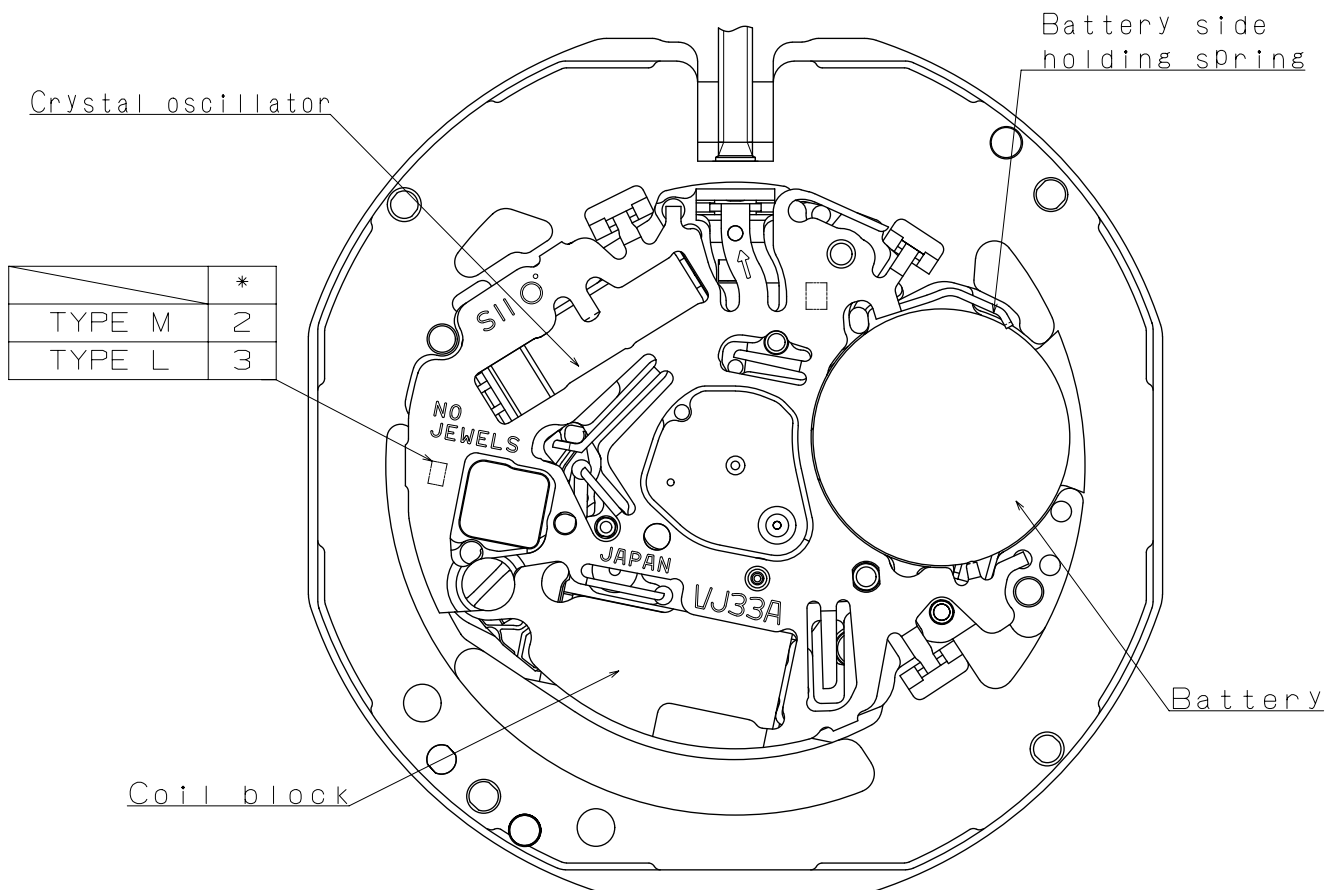
*** All specifications are subject to change without notice.**

SII Products

Version: 4

Appearance - 1

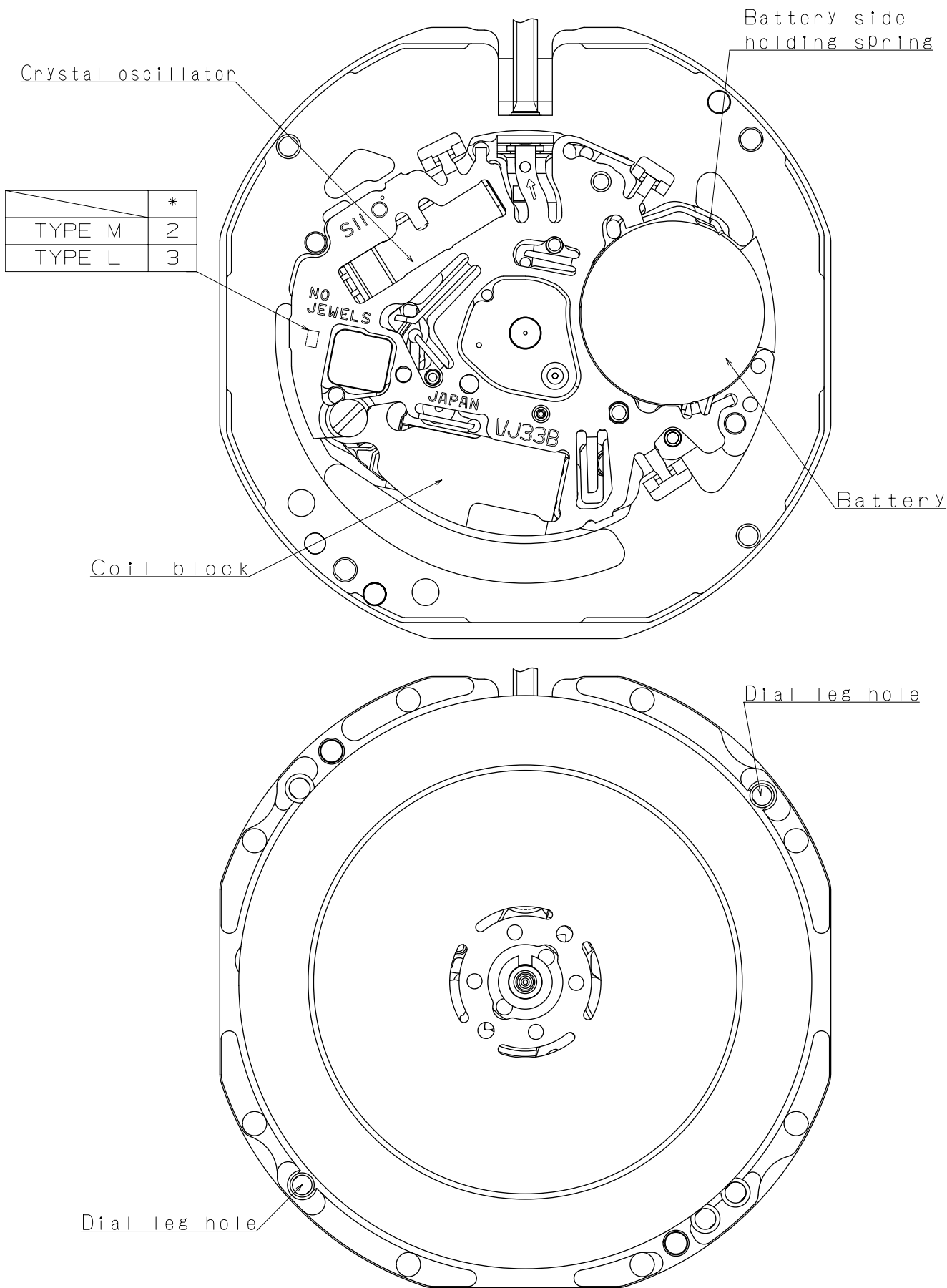
Cal. VJ33A



Scale : 5/1

Unit : 1=1/100mm

Version:5



Scale : 5/1

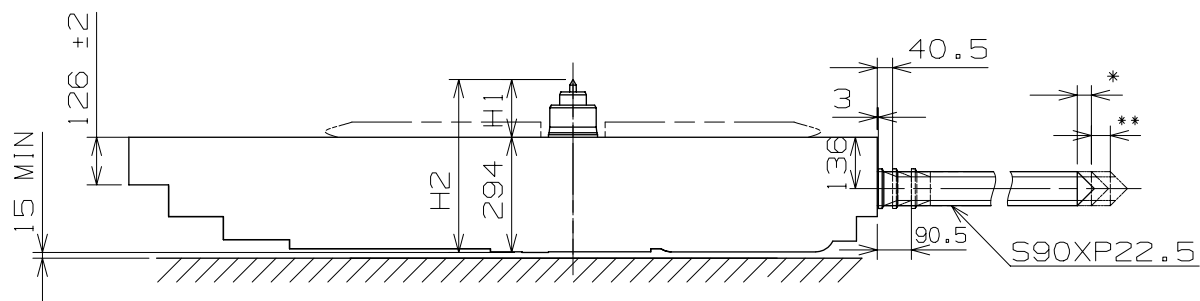
Unit : 1=1/100mm

Version:1

Battery Side holding spring Type.

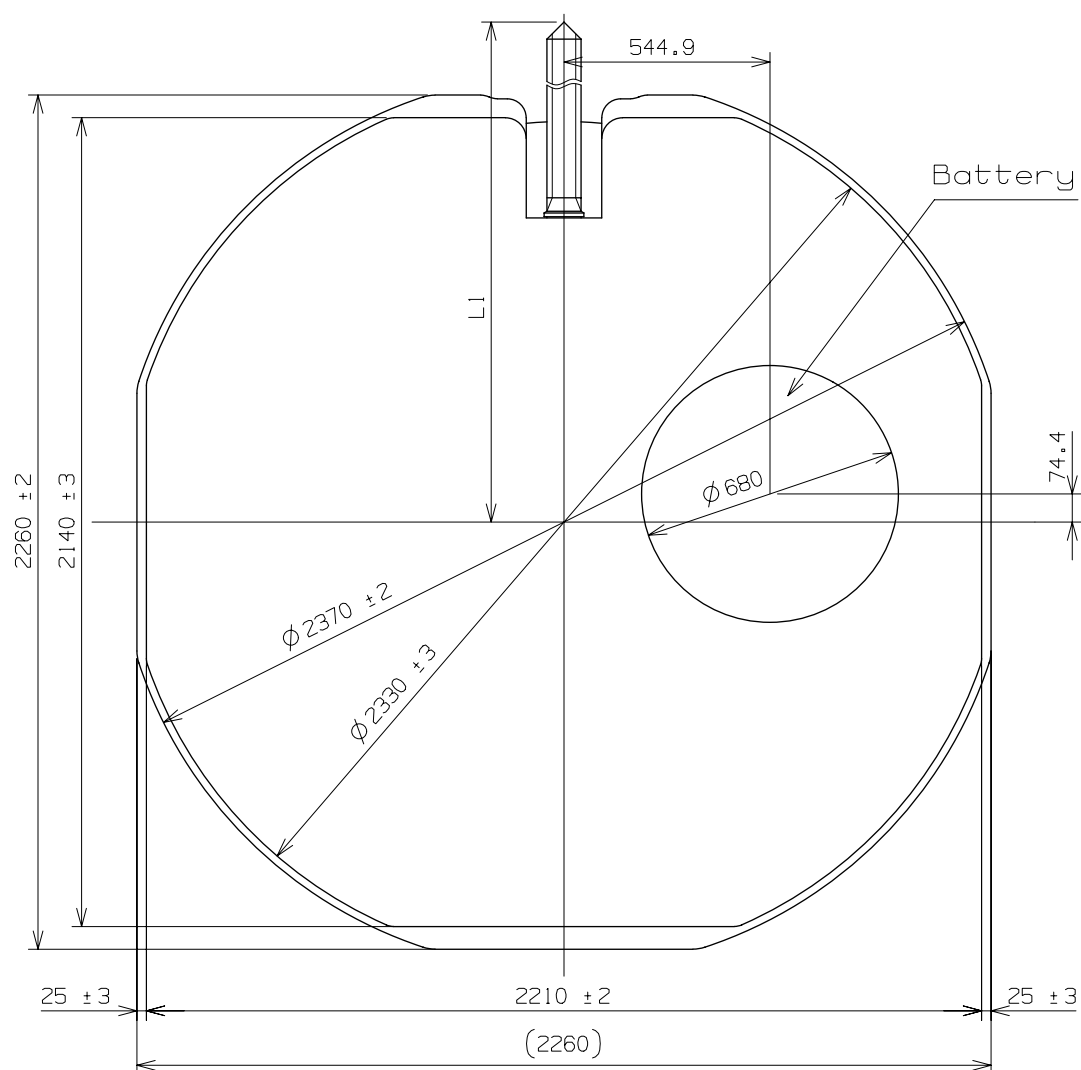
* First Pull out Stroke 37.5

**** Second Pull out Stroke 50**



Center post		TYPE M	TYPE L
Maximum height from main plate surface	H1	152.7	216.9
Total height incl. movement	H2	446.7	510.9

Hand Setting Stem	TYPE A	TYPE B
L1	2003	2413



Scale : 5/1

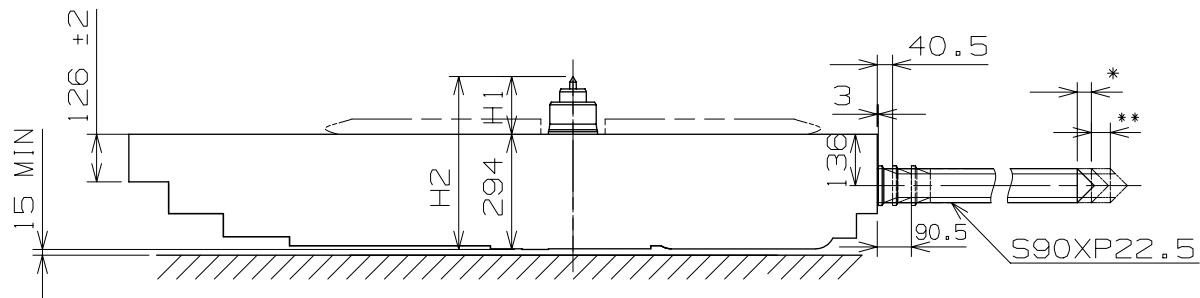
Unit : 1=1/100mm

Version:6

Battery Side holding spring Type.

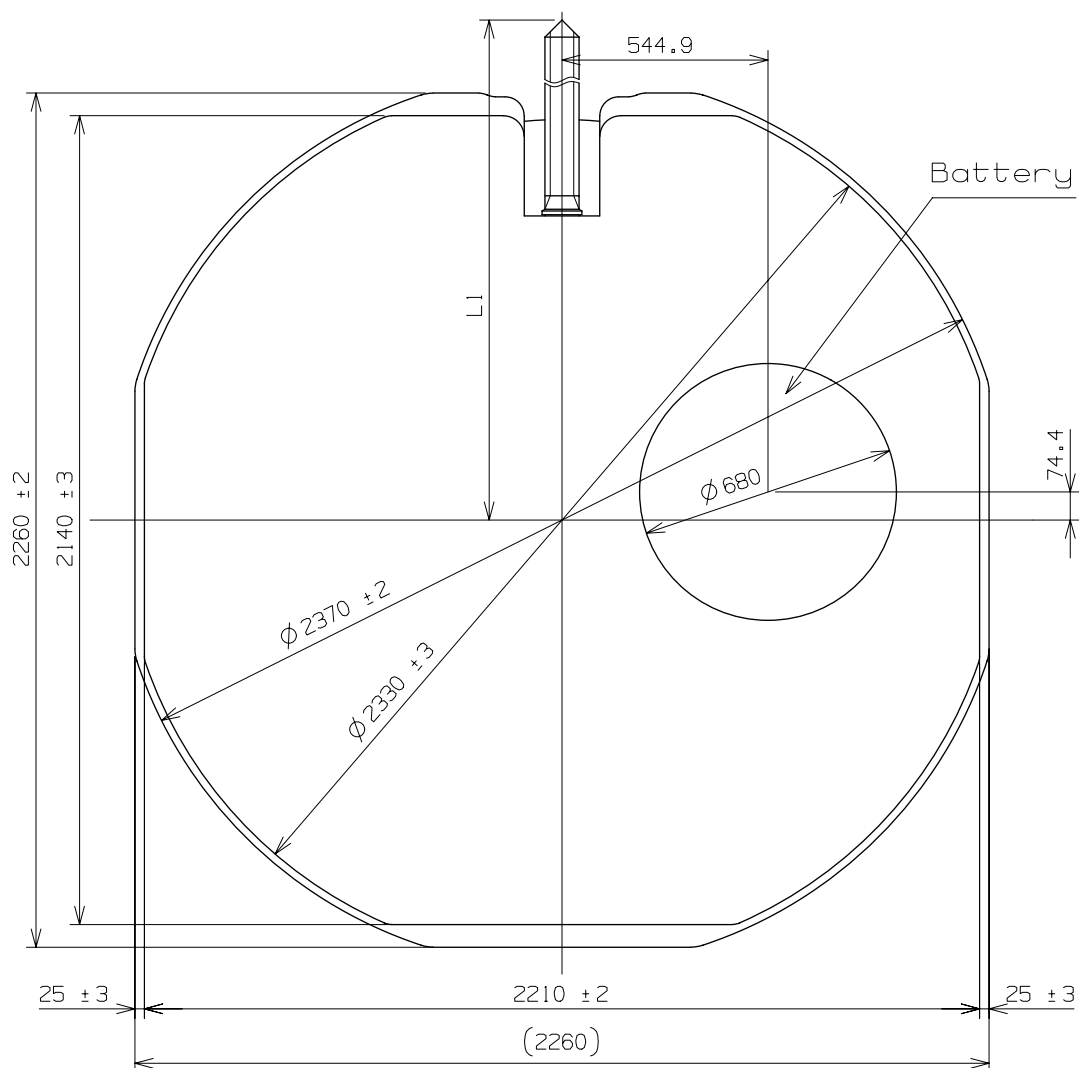
* First Pull out Stroke 37.5

** Second Pull out Stroke 50



Center post 中心柱位		TYPE M 一般針高	TYPE L 高針
Maximum height from main plate surface. 與機芯平面之最大高度	H1	152.7	216.9
Total height incl. movement. 機芯總高度	H2	446.7	510.9

Hand Setting Stem	TYPE A	TYPE B
L1	2003	2413



Scale : 5/1

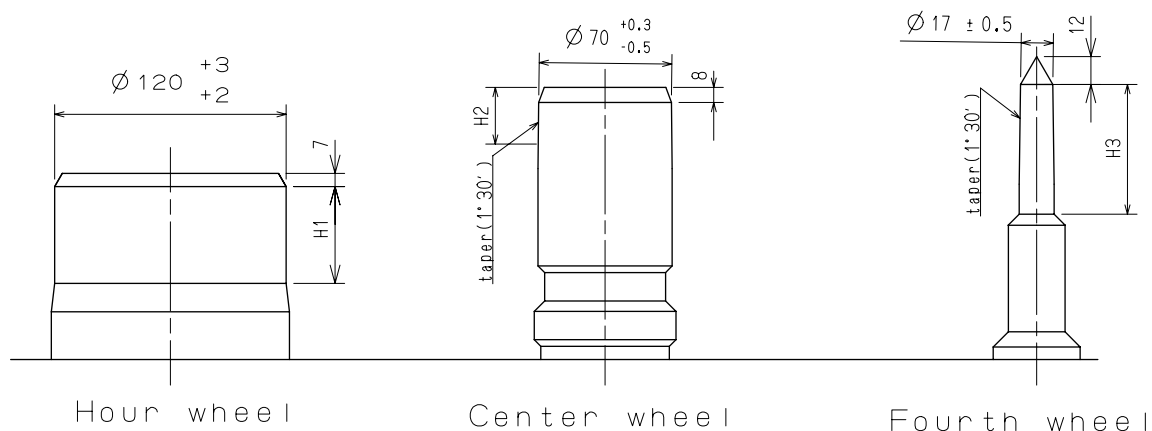
Unit : 1=1/100mm

Version:6

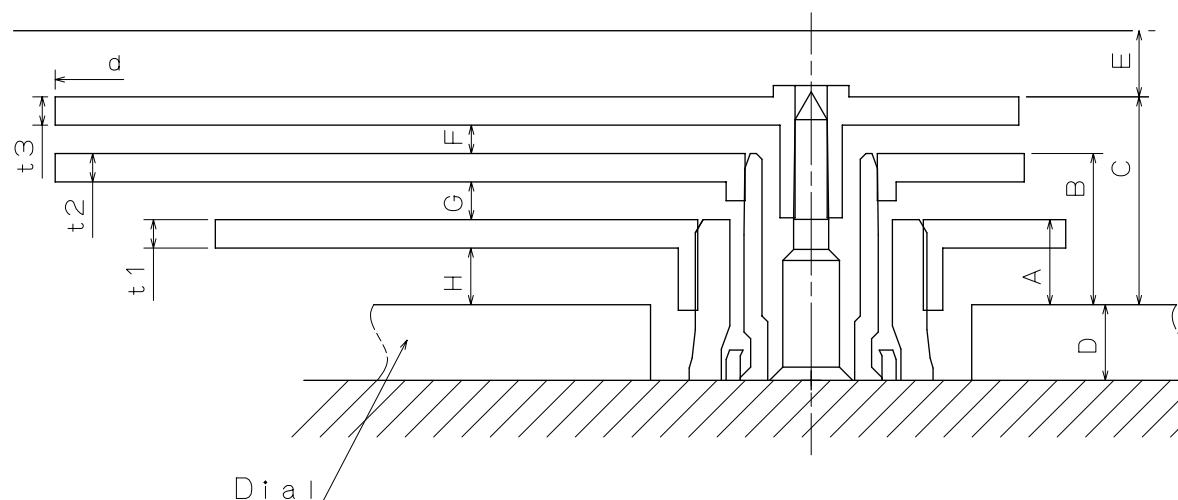
Hand Fitting - 1

Cal. VJ33A

Hour hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07 \mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel	Center wheel	Fourth wheel	H1	H2	H3
TYPE M	0273 0170	0221 0610	0241 2470	51	27	69
TYPE L	0273 0250	0221 0630	0241 2740	96	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M	45	80	110	40	35	15	20	30	15	15	15	Ø 2500MAX
TYPE L	45	94	129	85	35	20	34	30	15	15	15	Ø 2500MAX

Scale : 25/1

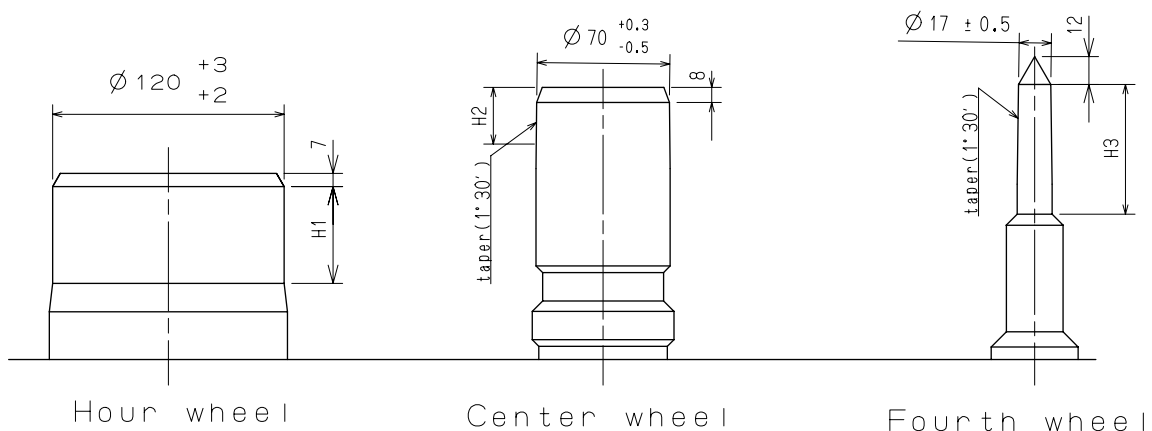
Unit : 1=1/100mm

Version:6

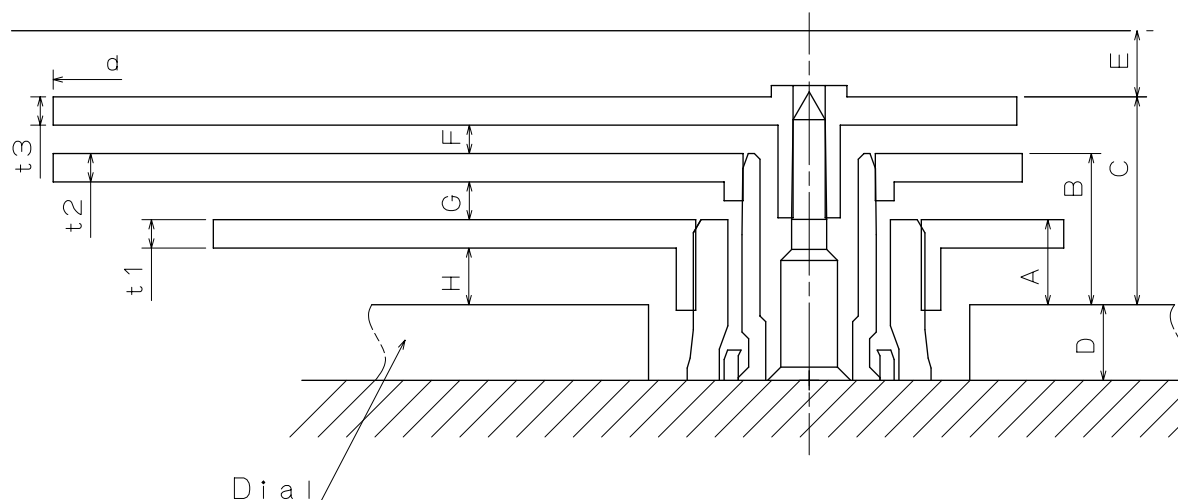
Hand Fitting - 1

Cal. VJ33A

Hour hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07 \mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel 時針輪	Center wheel 分針輪	Fourth wheel 秒針輪	H1	H2	H3
TYPE M 一般針高	0273 0170	0221 0610	0241 2470	51	27	69
TYPE L 高針	0273 0250	0221 0630	0241 2740	96	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M 一般針高	45	80	110	40	35	15	20	30	15	15	15	∅ 2500MAX
TYPE L 高針	45	94	129	85	35	20	34	30	15	15	15	∅ 2500MAX

Scale : 25/1

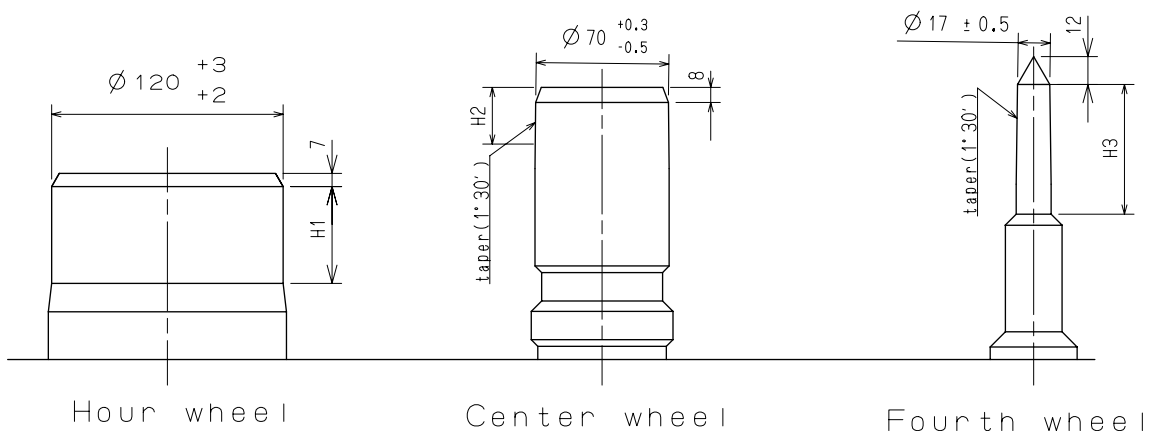
Unit : 1=1/100mm

Version:6

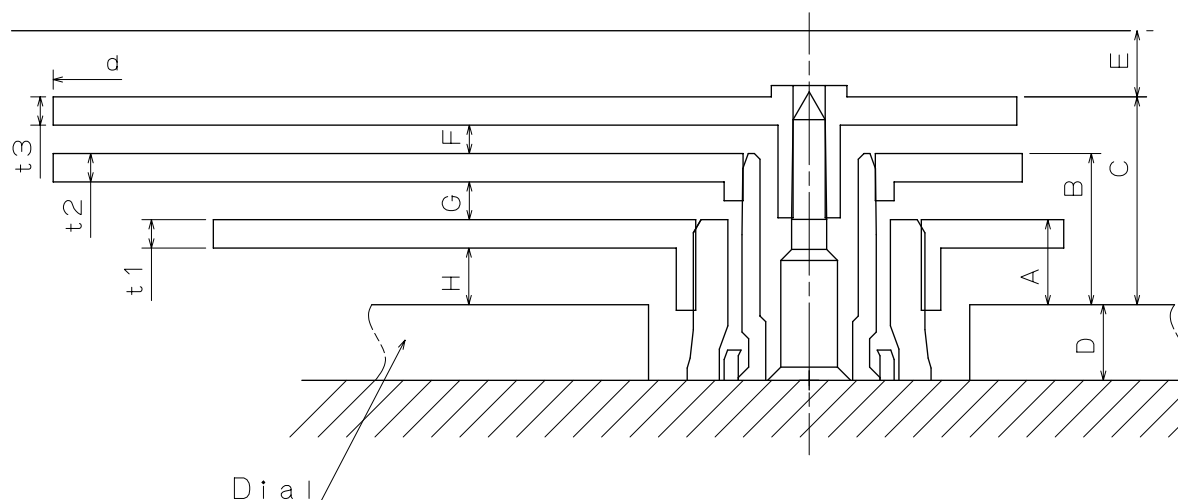
Hand Fitting-2

Cal. VJ33B

Hour hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07 \mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel	Center wheel	Fourth wheel	H1	H2	H3
TYPE M	0273 0170	0221 0610	0144 1020	51	27	69
TYPE L	0273 0250	0221 0630	0144 1030	96	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M	45	80	110	40	35	15	20	30	15	15	15	Ø 2500MAX
TYPE L	45	94	129	85	35	20	34	30	15	15	15	Ø 2500MAX

Scale : 25/1

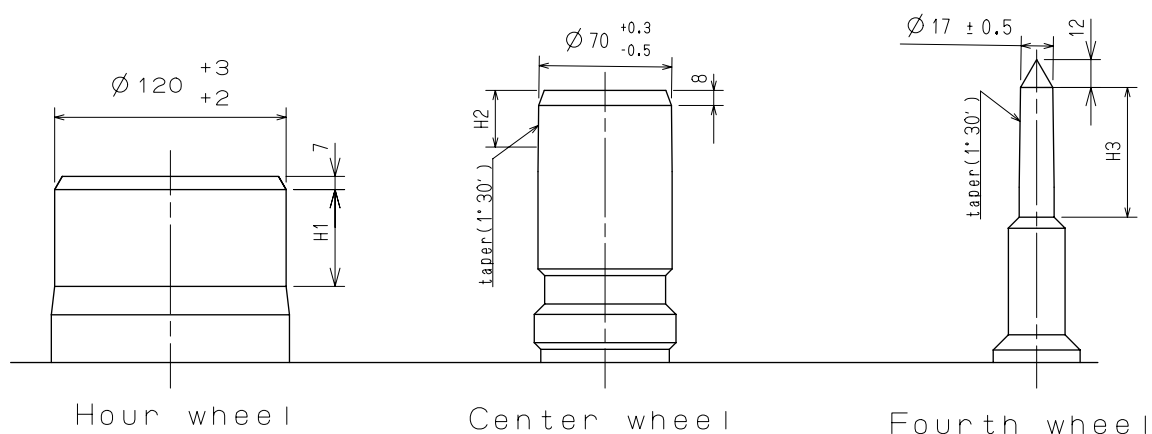
Unit : 1=1/100mm

Version:1

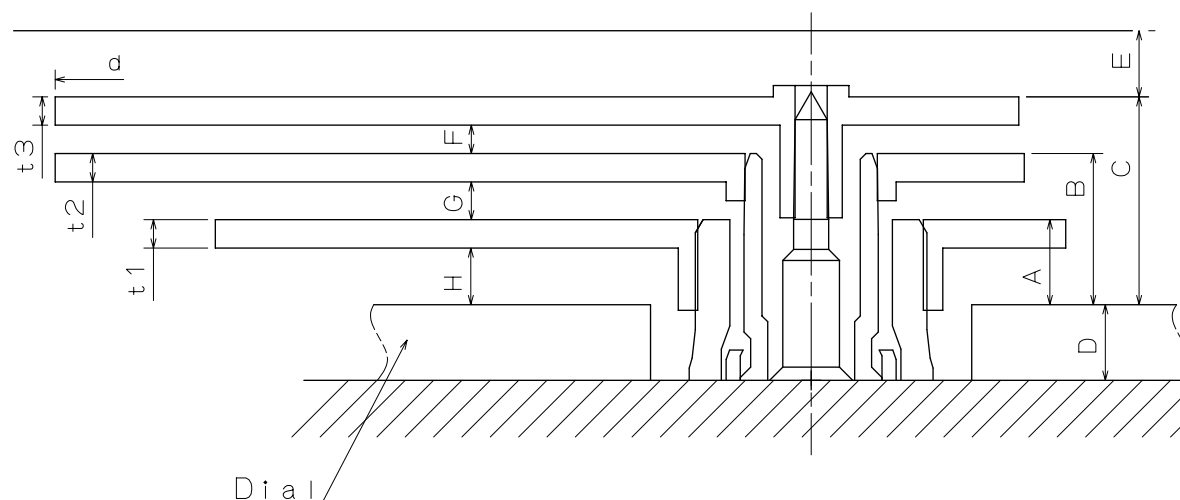
Hand Fitting-2

Cal. VJ33B

Hour hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07\mu\text{N}\cdot\text{m}$ (7mg·mm)



		Part. No.			Dimension		
		Hour wheel 時針輪	Center wheel 分針輪	Fourth wheel 秒針輪	H1	H2	H3
TYPE M	一般針高	0273 0170	0221 0610	0144 1020	51	27	69
TYPE L	高針	0273 0250	0221 0630	0144 1030	96	27	69

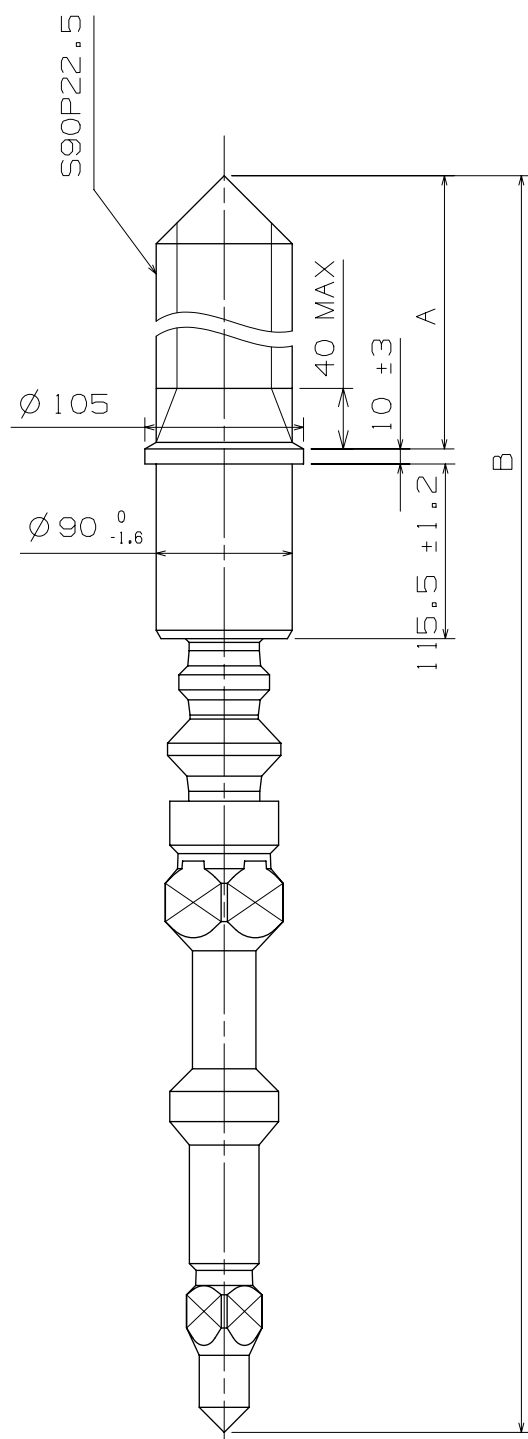


	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M 一般針高	45	80	110	40	35	15	20	30	15	15	15	∅ 2500MAX
TYPE L 高針	45	94	129	85	35	20	34	30	15	15	15	∅ 2500MAX

Scale : 25/1

Unit : 1=1/100mm

Version:1

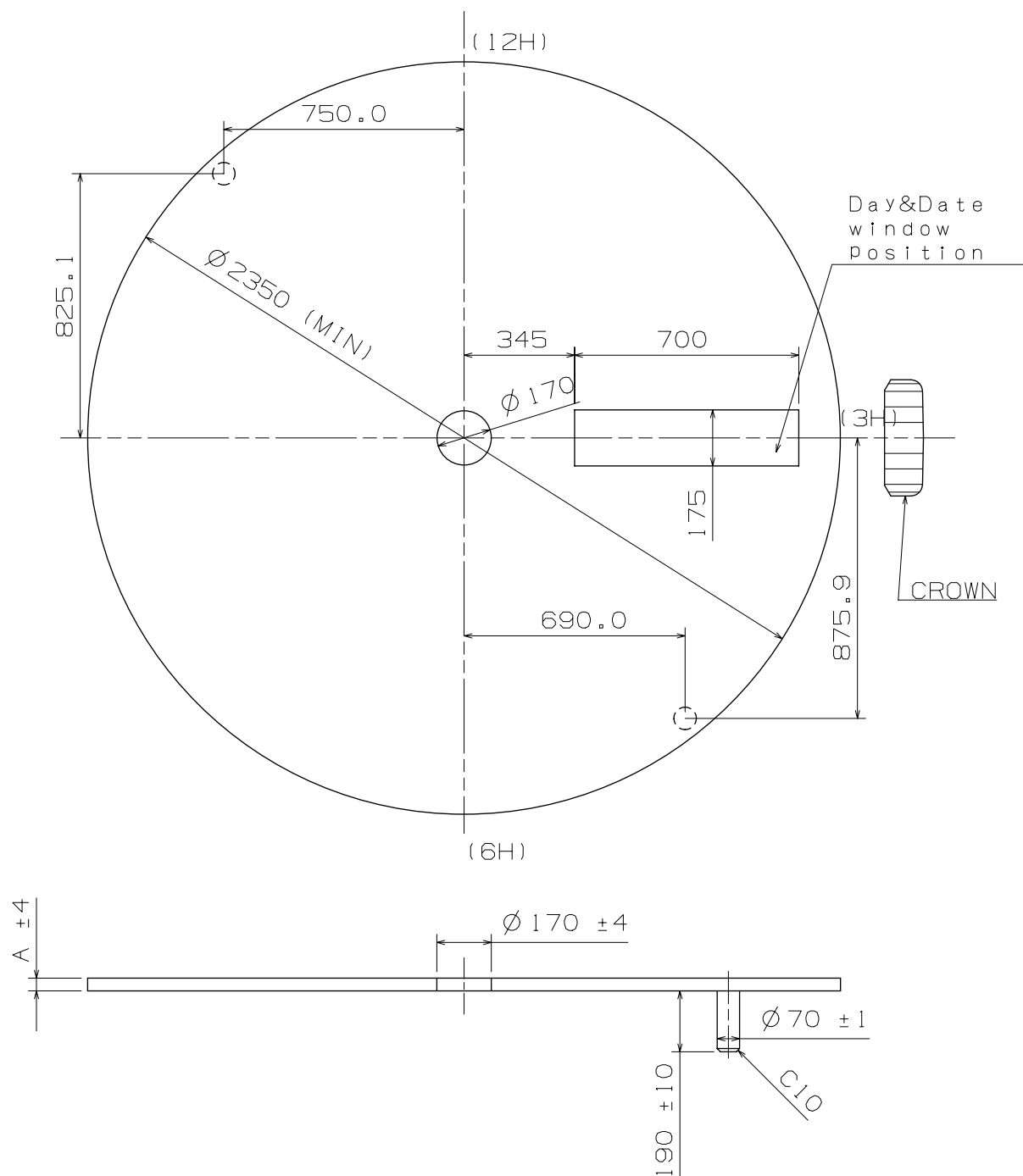


	Part.No.	A	B
TYPE A	0351 3320	1185	1835.5
TYPE B	0351 0010	1595	2245.5

Scale : 20/1

Unit : 1=1/100mm

Version:5

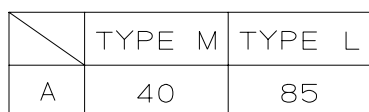


	TYPE M	TYPE L
A	40	85

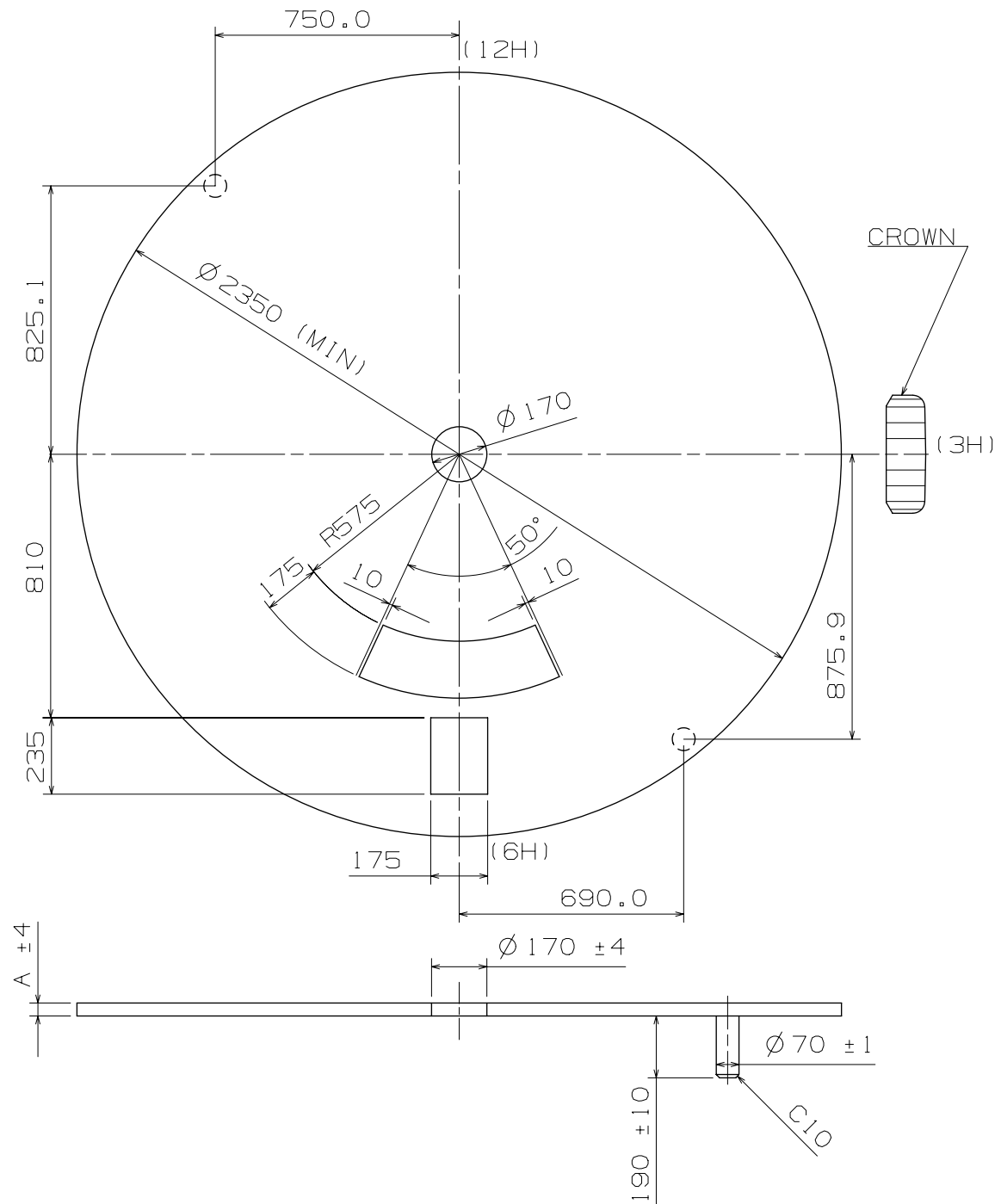
Scale : 5/1

Unit : 1=1/100mm

Version:5



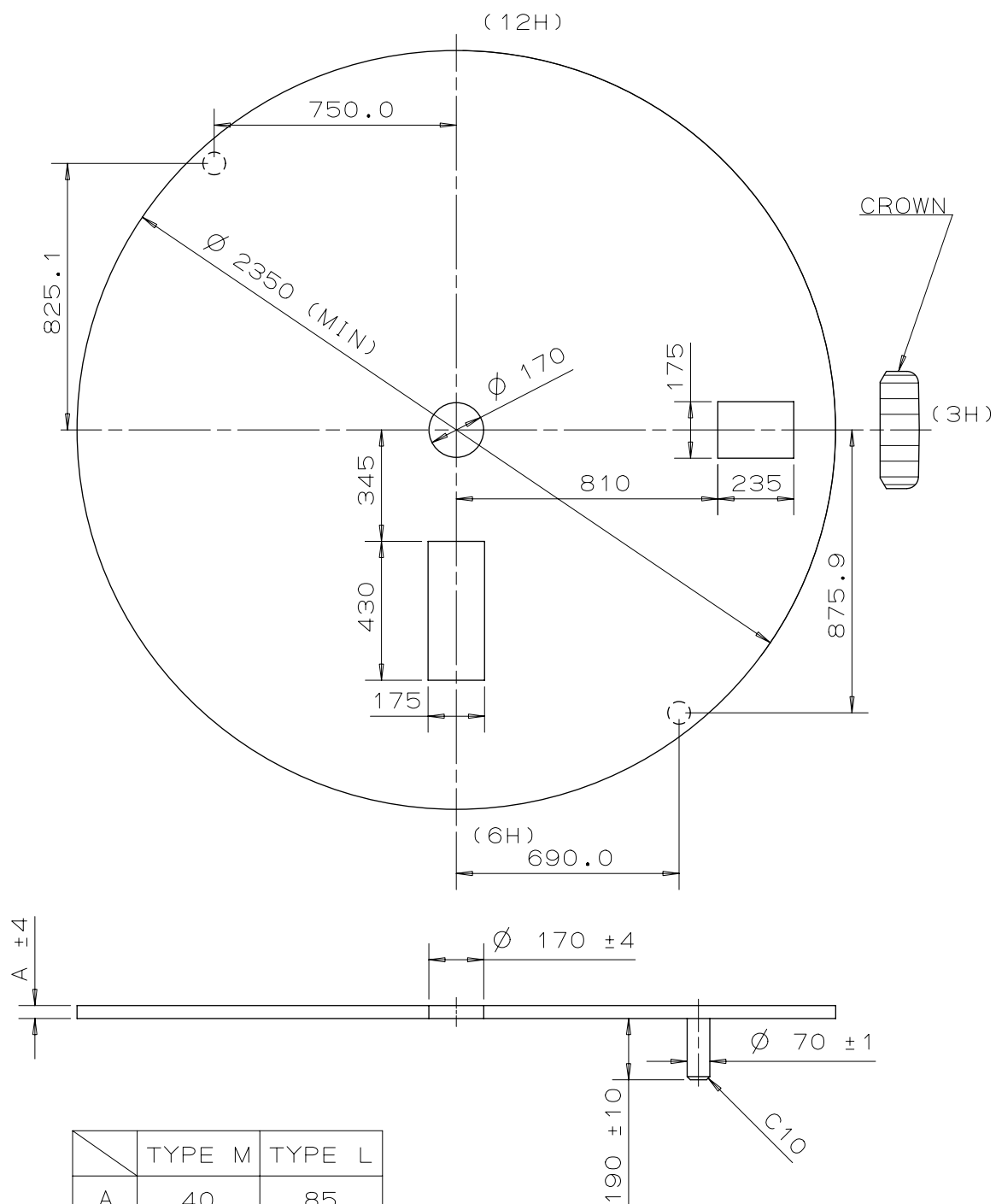
Version:5



	TYPE M	TYPE L
A	40	85

Scale : 5/1
Unit : 1 = 1/100mm

Version: 5



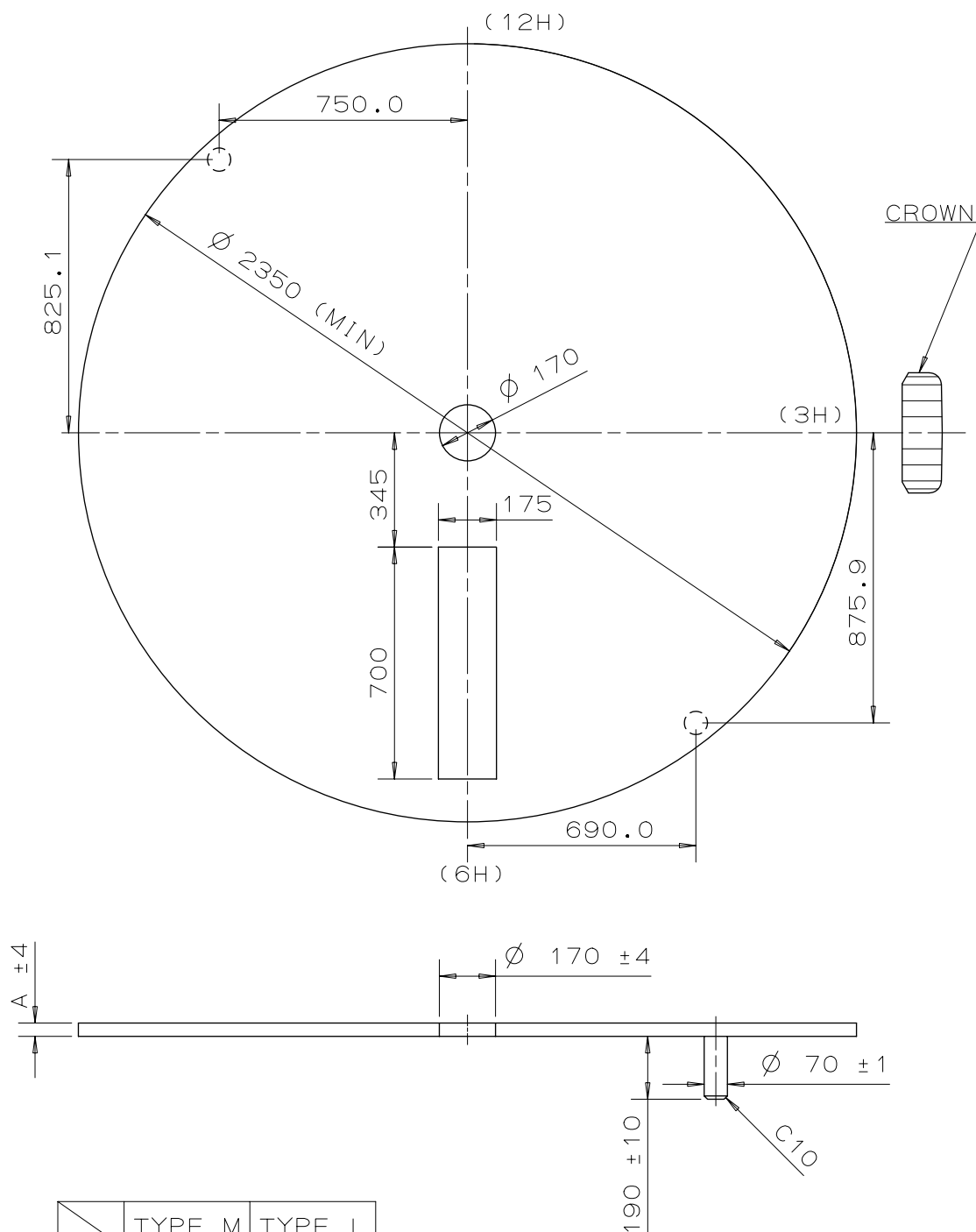
Scale : 5/1

Unit : 1=1/100mm

Version:5

Dial - 6

Cal. VJ33A/B



	TYPE M	TYPE L
A	40	85

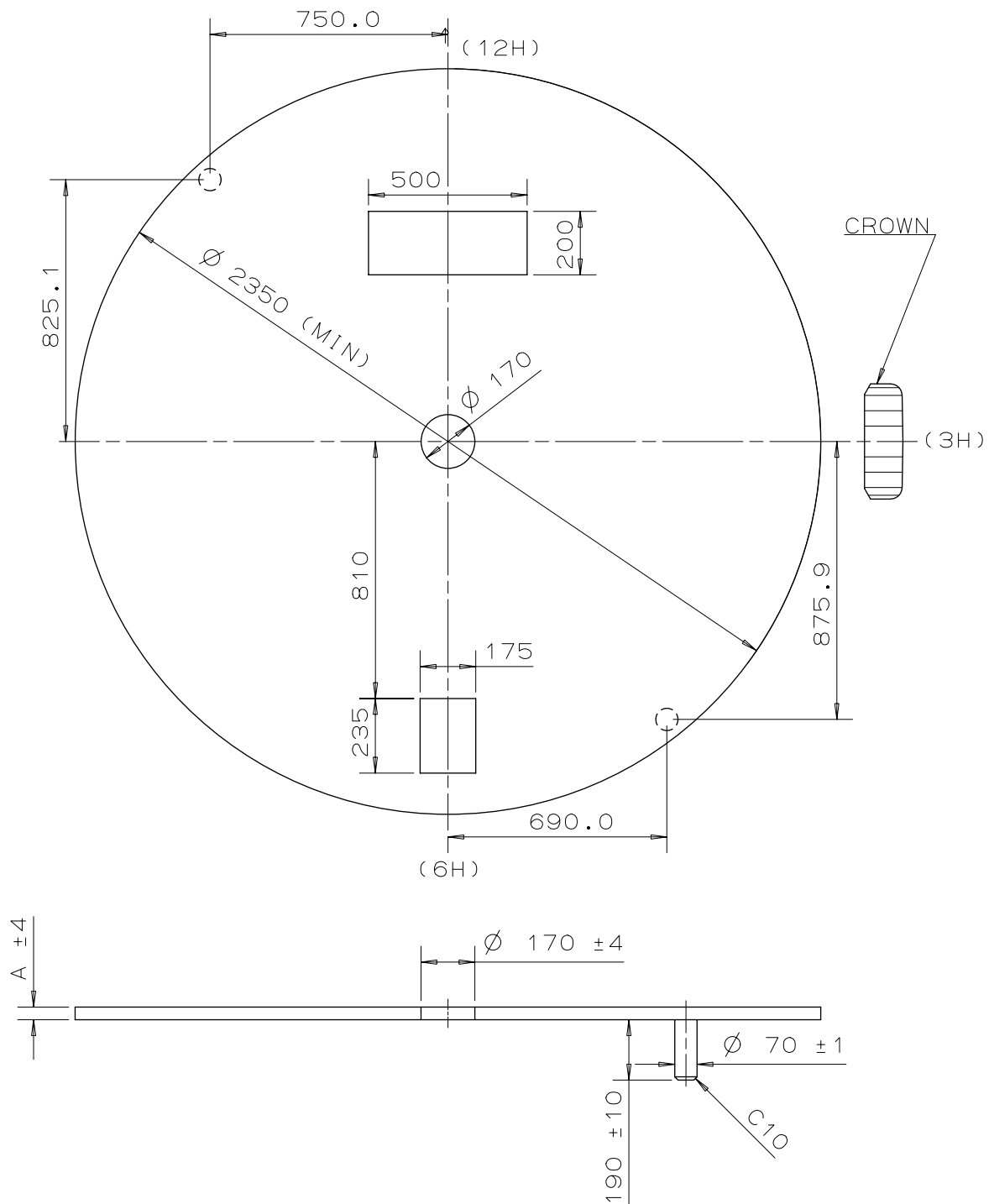
Scale : 5/1

Unit : 1=1/100mm

Version:5

Dial -7

Cal. VJ33A/B

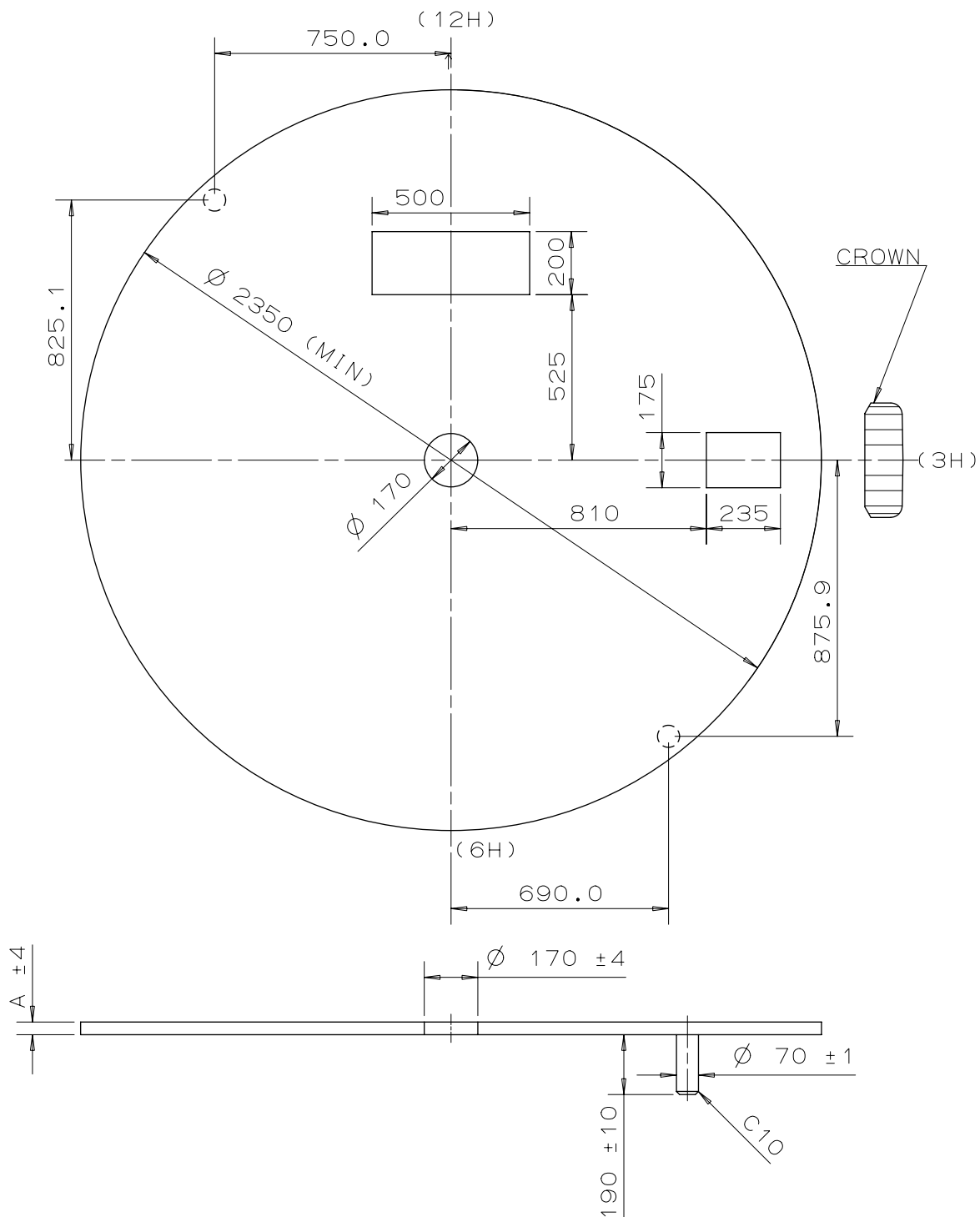


	TYPE M	TYPE L
A	40	85

Scale : 5/1

Unit : 1=1/100mm

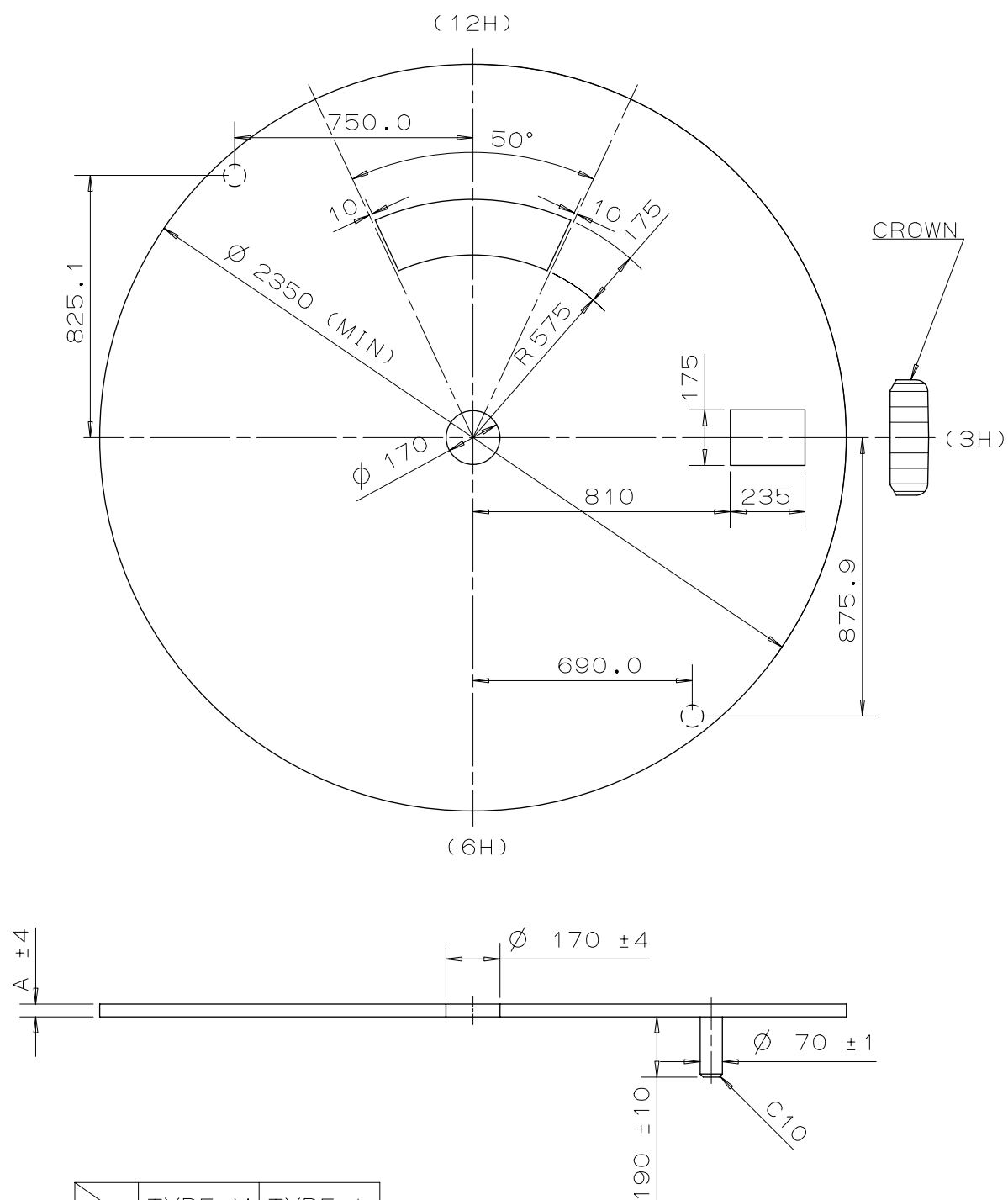
Version:5



	TYPE M	TYPE L
A	40	85

Scale : 5/1
Unit : 1=1/100mm

Version:5

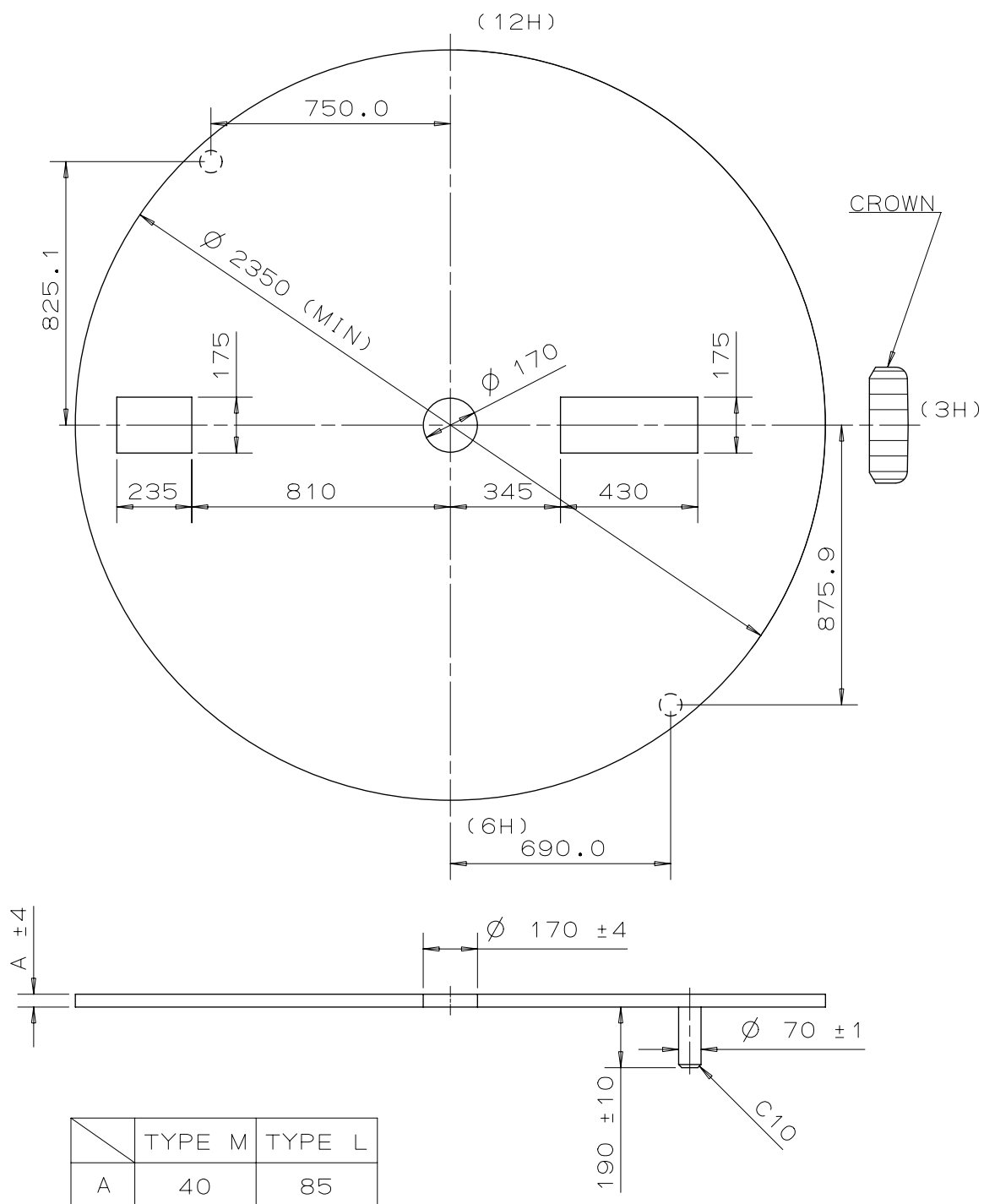


	TYPE M	TYPE L
A	40	85

Scale : 5/1

Unit : 1=1/100mm

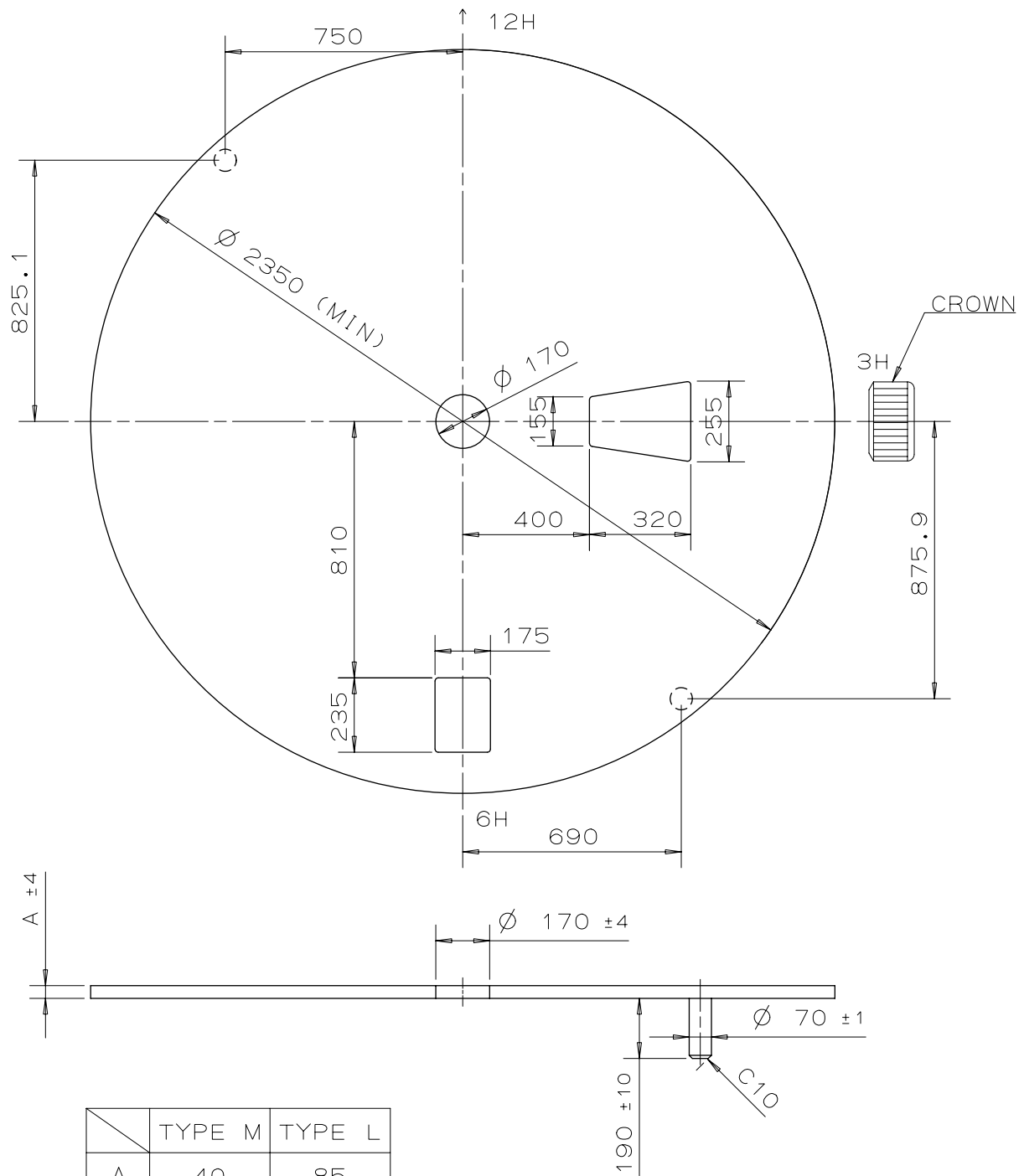
Version:5



Scale : 5/1

Unit : 1=1/100mm

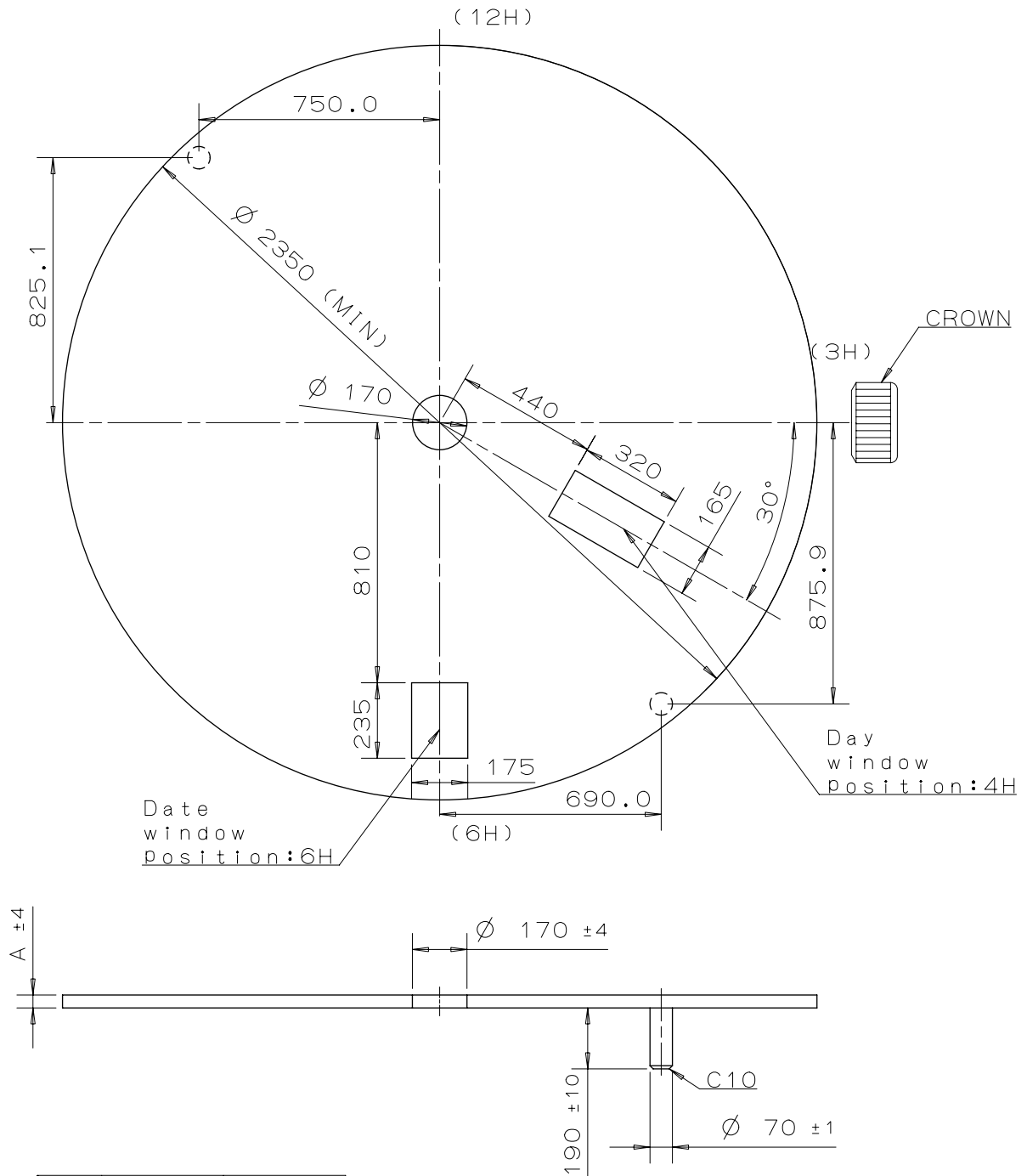
Version:3



	TYPE M	TYPE L
A	40	85

Scale : 5/1
Unit : 1 = 1/100mm

Version: 3



	TYPE M	TYPE L
A	40	85

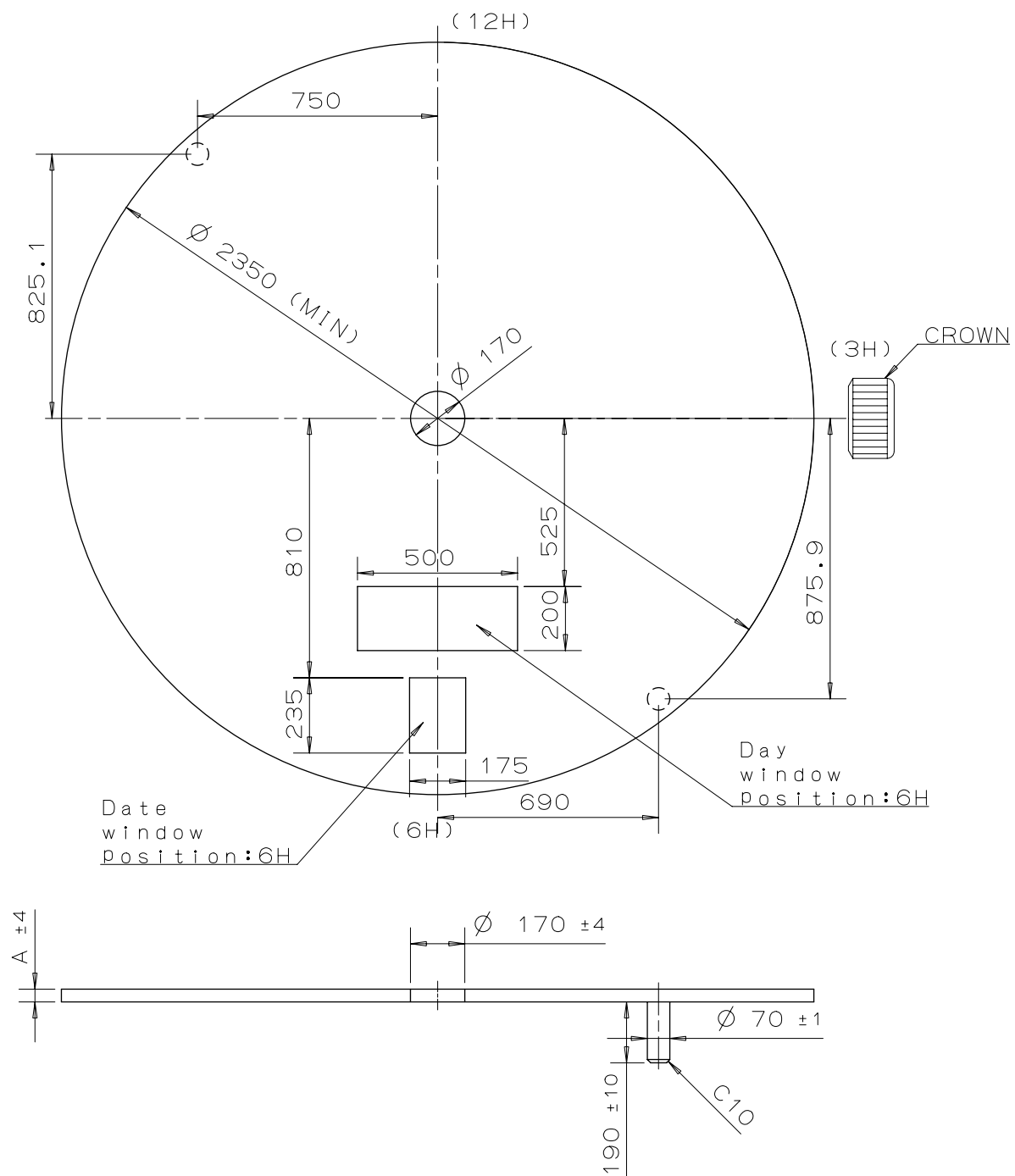
Scale : 5/1

Unit : 1=1/100mm

Version:3

Dial - 16

Cal. VJ33A/B



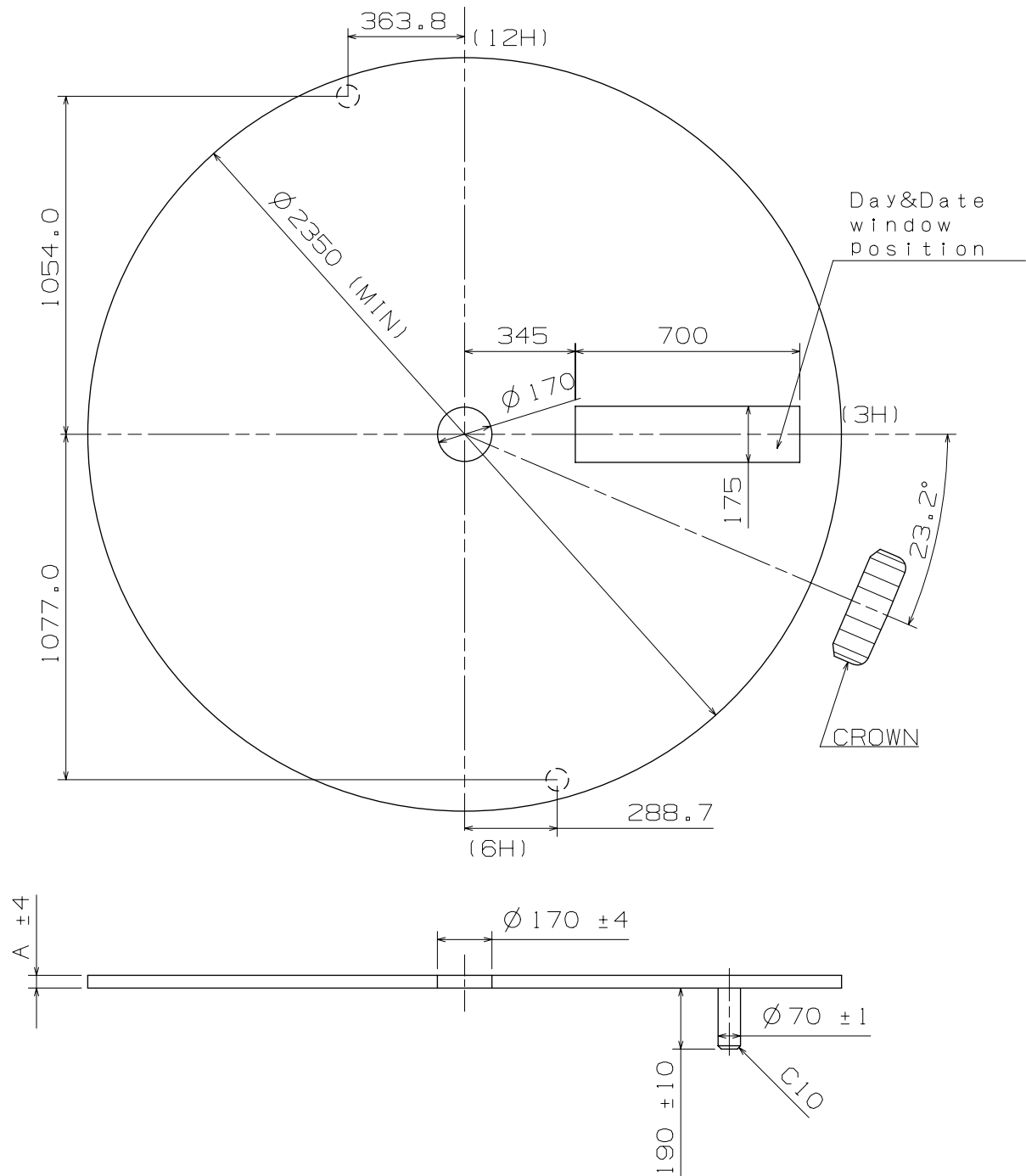
	TYPE M	TYPE L
A	40	85

Scale : 5/1
Unit : 1=1/100mm

Version:3

Dial - 17

Cal. VJ33A/B



	TYPE M	TYPE L
A	40	85

Scale : 5/1

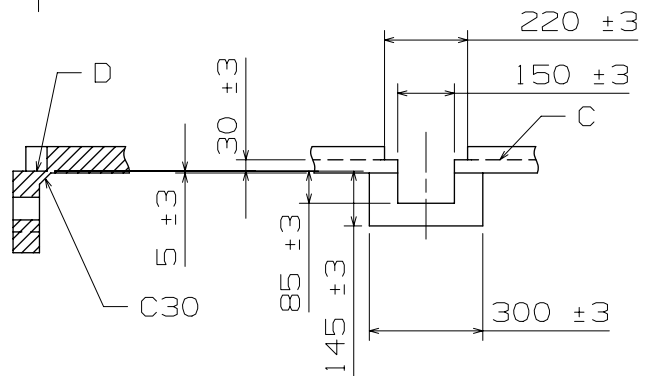
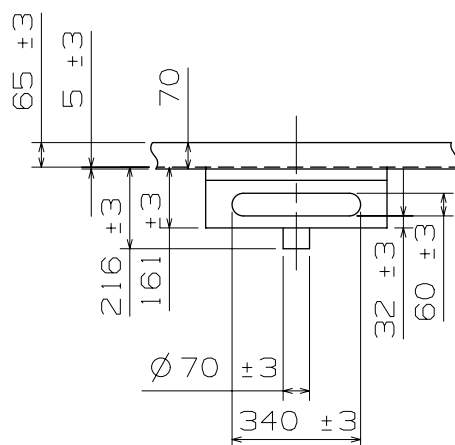
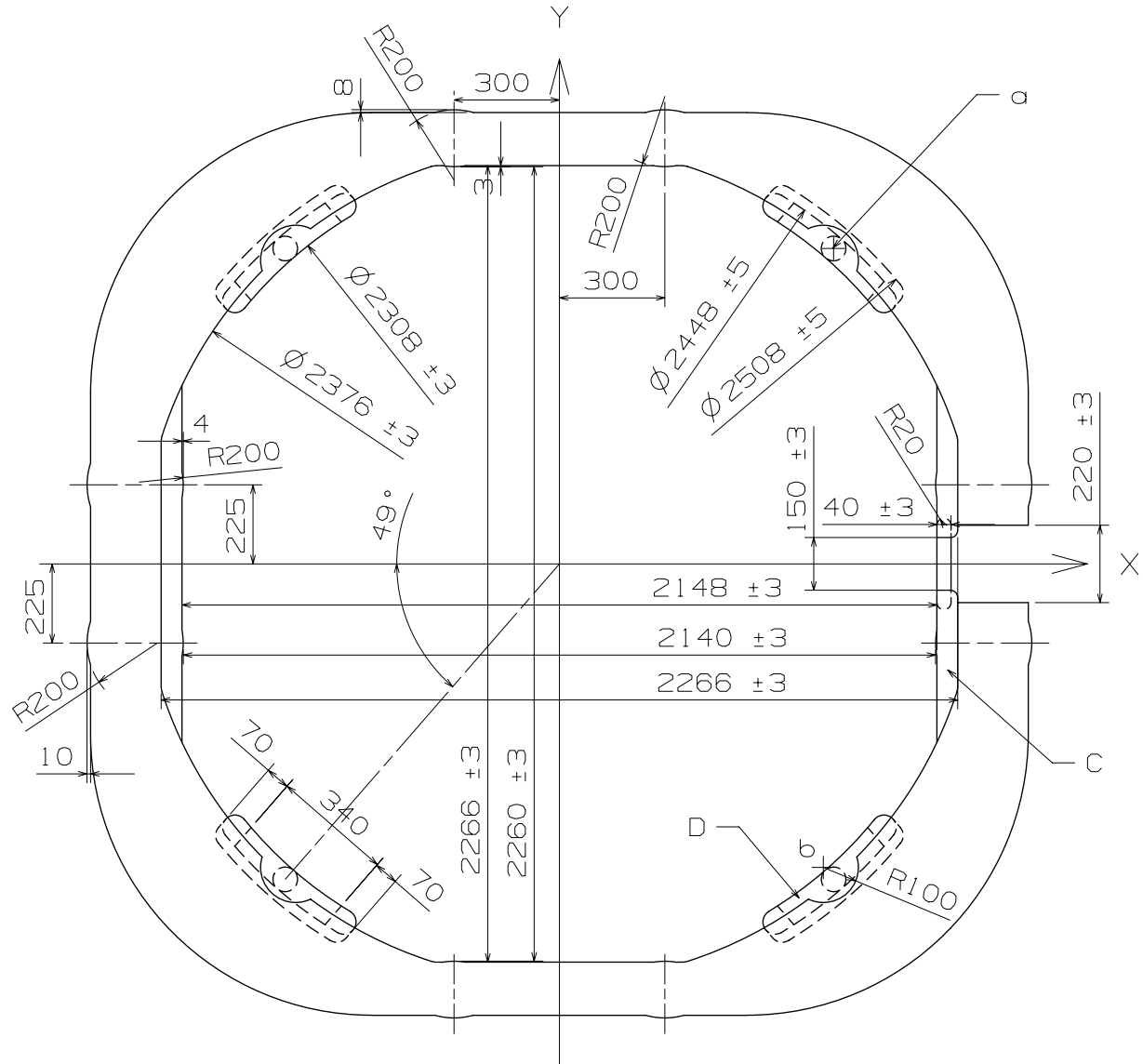
Unit : 1=1/100mm

Version:3

Casing Ring

Cal. VJ33A/B

	X	Y
a	780.05	897.35
b	750.53	-863.39



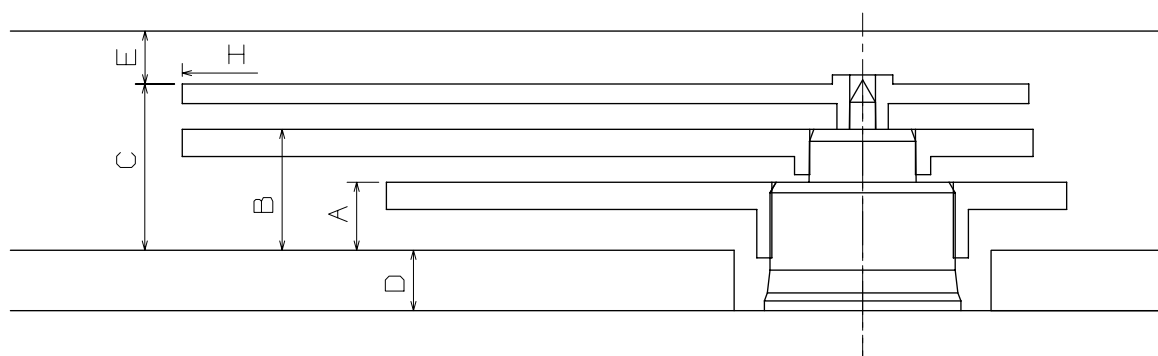
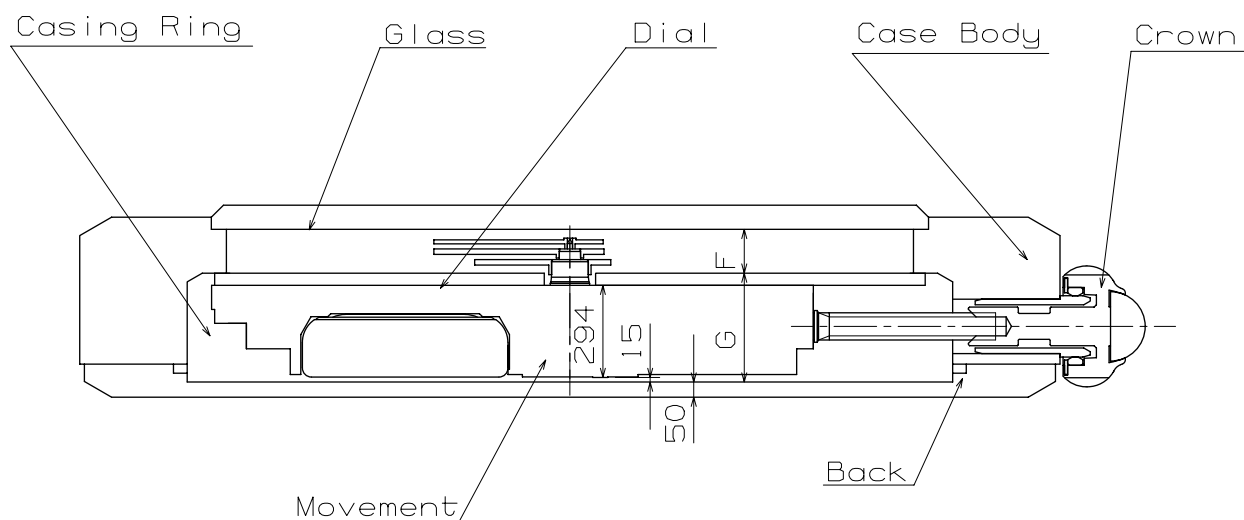
Scale : 7/1

Unit : 1=1/100mm

Version:6

Assembly Plan

Cal. VJ33A/B



	A	B	C	D	E	F	G	H
TYPE M	45	80	110	40	35	145	349	∅ 2500MAX
TYPE L	45	94	129	85	35	145	394	∅ 2500MAX

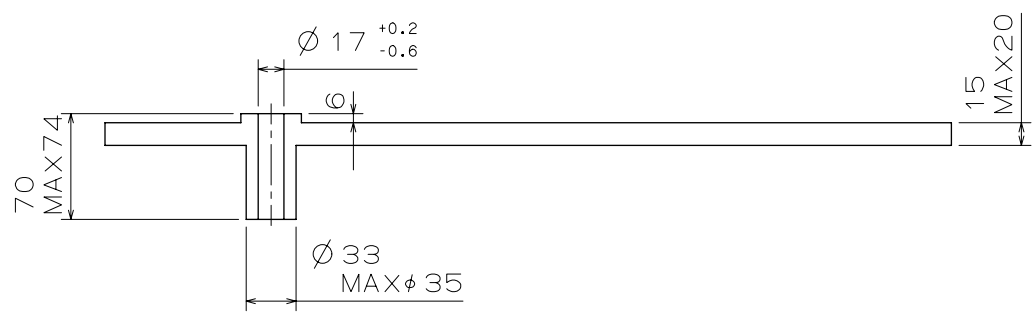
Scale : -
Unit : 1=1/100mm

Version:5

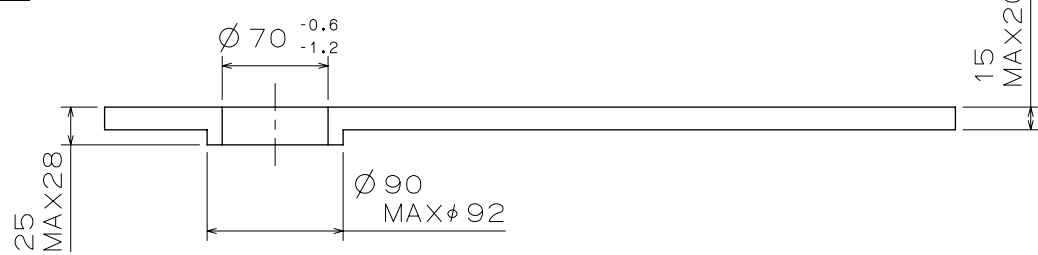
Hands

Cal. VJ33A/B

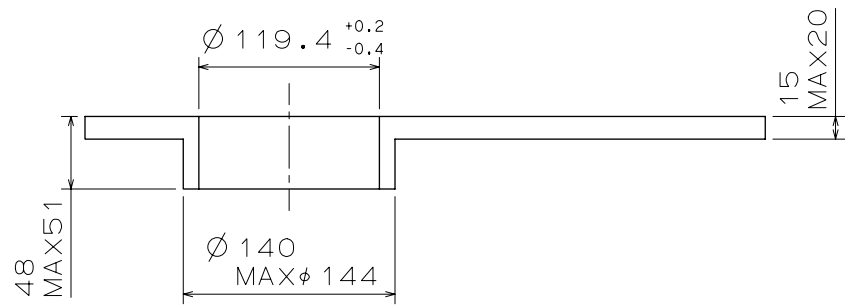
SECOND



MINUTE



HOUR



Scale : 20/1
Unit : 1=1/100mm

Version:5