

Watch Movement Specification and Drawing

STANDARD

Cal. YR67A

Movement Size

10 1/2'''

Casing Diameter

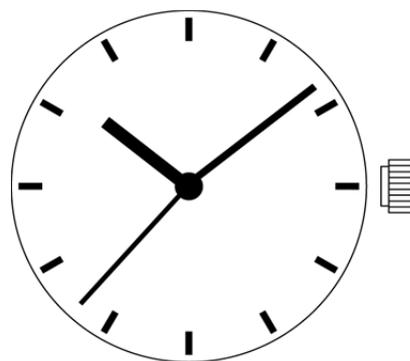
Ø 23.3mm

Height

3.05mm

Battery Life

1.5 years



Date: 27/Dec./16

Cal. YR67A

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**Analog Quartz 10 1/2" Standard Series Movement / Three Hands (H/M/S)
(High power torque)**

1. MOVEMENT DIMENSIONS

Outside diameter	$\phi 24.00\text{mm} \times 21.30\text{mm}(3\text{-}9\text{H}) \times 22.50\text{mm}(12\text{-}6\text{H})$
Casing diameter	$\phi 23.30\text{mm} \times 21.30\text{mm}(3\text{-}9\text{H}) \times 22.50\text{mm}(12\text{-}6\text{H})$
Total height	3.05mm (including battery)

2. TIME STANDARD

Type of quartz oscillator	Tuning fork
Frequency of quartz oscillator	32,768 Hz
Accuracy	± 20 seconds per month (on wrist)
Operating temperature range	-5°C to $+50^{\circ}\text{C}$
Regulation device	Nil (Pre-adjusted)

3. INDICATOR / FUNCTIONS

3 Hands	Hour / Minute / Second (High power torque)
Reset switch	
Setting mechanism	Crown at normal position : Free Crown pulled out 1st click : Time setting / Reset

4. FEATURES

Jewels	0 Jewels
Anti-magnetism	Over 1600A/m (Direct current magnetic field)
Maximum unbalance of hands	Minute hand : $0.6 \mu\text{N}\cdot\text{m}$ Hour hand : $0.5 \mu\text{N}\cdot\text{m}$
Moment of Inertia	Second hand : less than $3 \mu\text{g}\cdot\text{m}^2$ (Disc hand available)

5. BATTERY

Type / Size	Silver oxide battery / $\phi 9.5\text{mm} \times t 2.73\text{mm}$
Recommended battery	SR927SW (Maxell, Sony, Seizaiken)
Nominal voltage	1.55 V

	Second hand (standard)	Second disc hand
Battery life	Approx. 1.6 years	Approx. 1.5 years
Driving current consumption	Approx. $3.8 \mu\text{A}$	Approx. $3.9 \mu\text{A}$
Operation stopping voltage	1.1 V	1.3 V

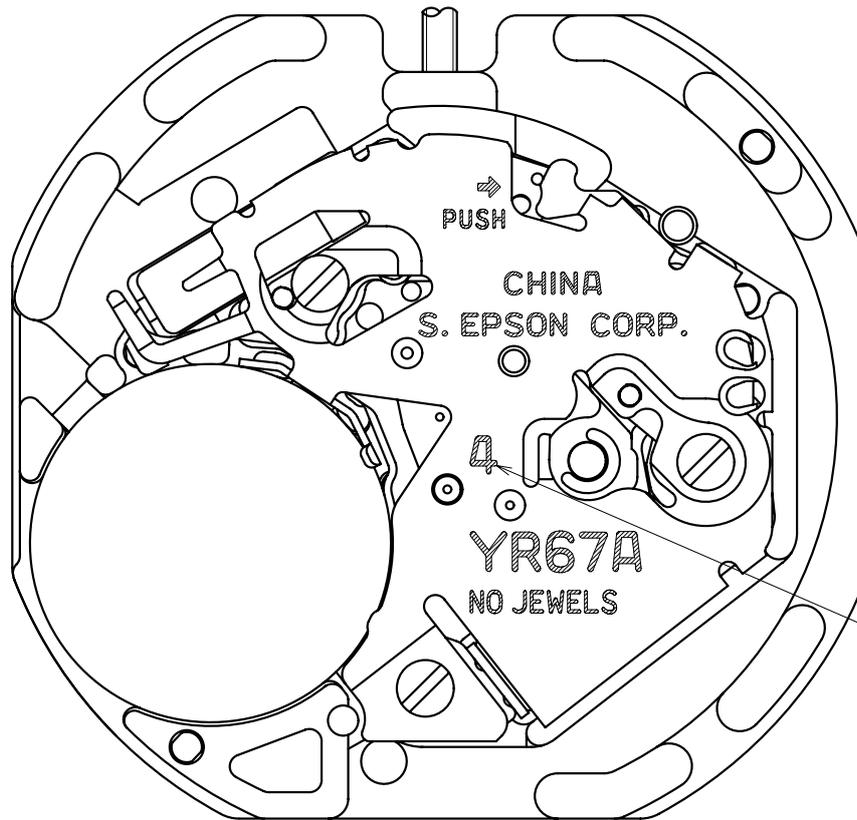
6. SEPARATED PARTS (Parts code)

Hand setting stem	0354788 or 0354787
Battery	SR927SW

7. TEST OF ACCURACY

Equipment to be used	SEIKO quartz tester QT-99, Greiner quartz timer-C , Witschi Q-tester 4000
Duration of measurement	10 seconds
Microphone to be used	Electromagnetic detection type

All specifications are subject to change without notice.



Hands type

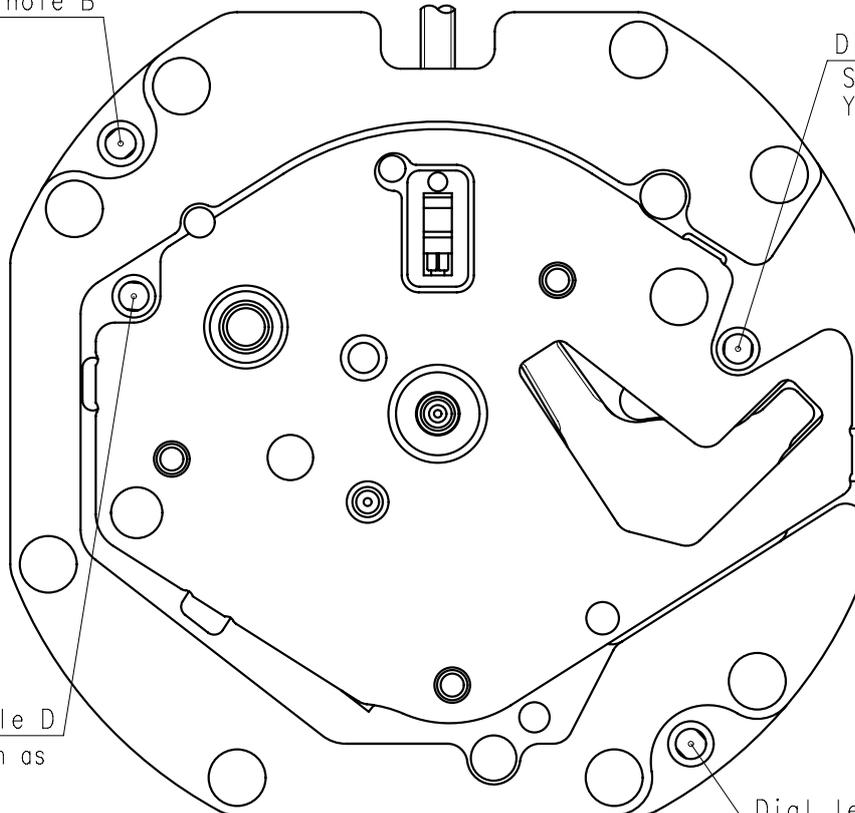
Type S	Mark
	4

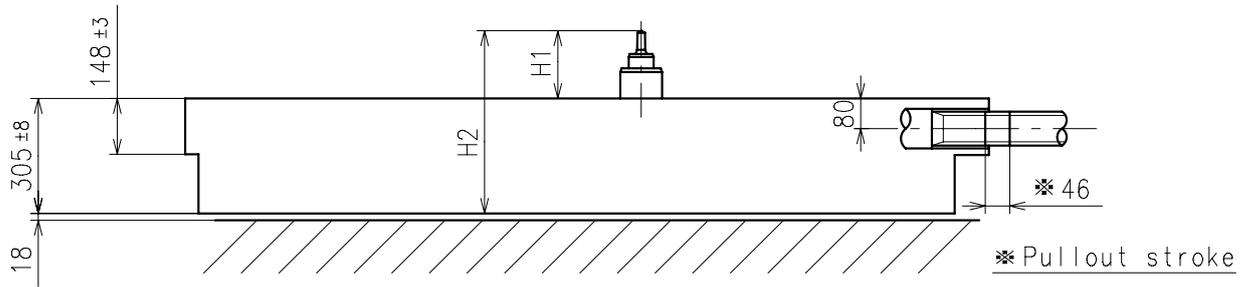
Dial leg hole B

Dial leg hole C
Same position as
Y12 and AL2

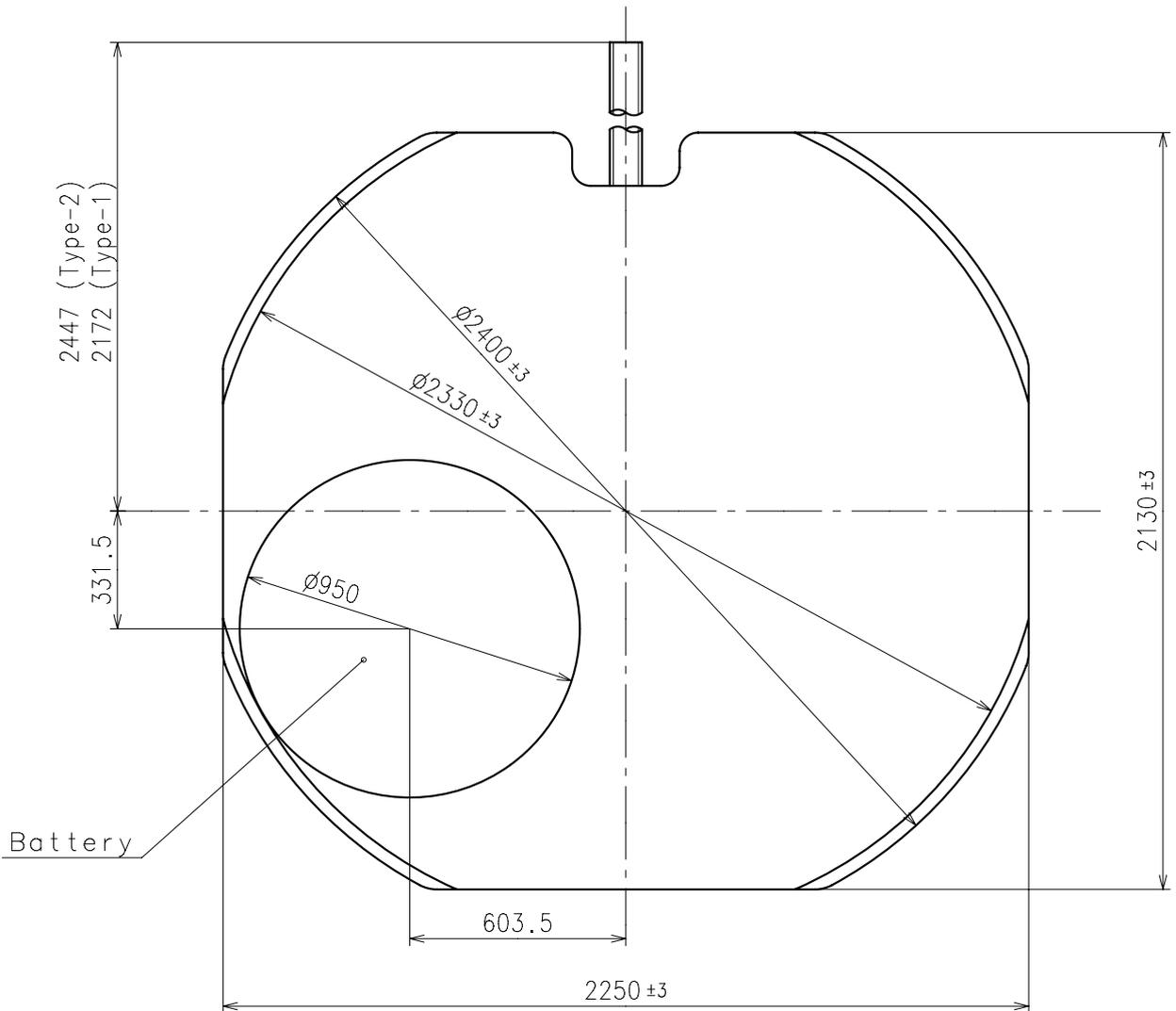
Dial leg hole D
Same position as
Y12 and AL2

Dial leg hole A

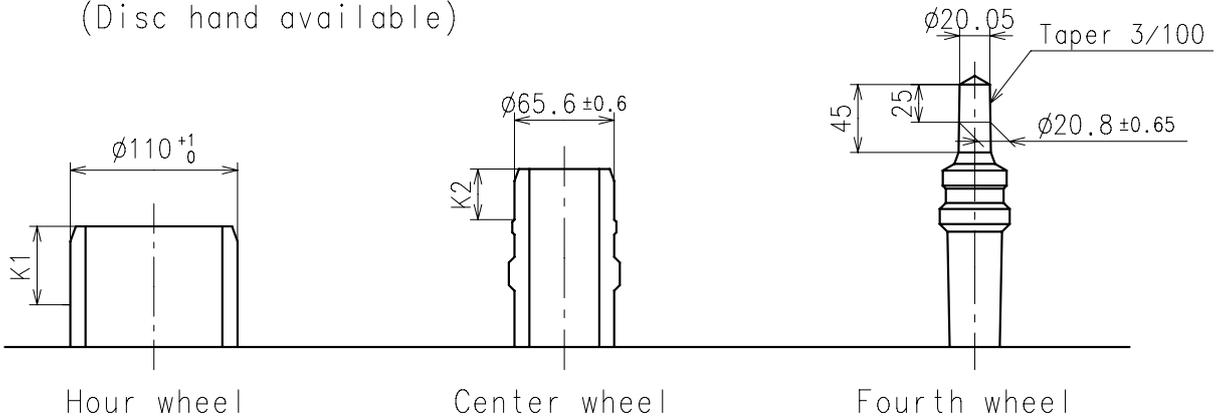




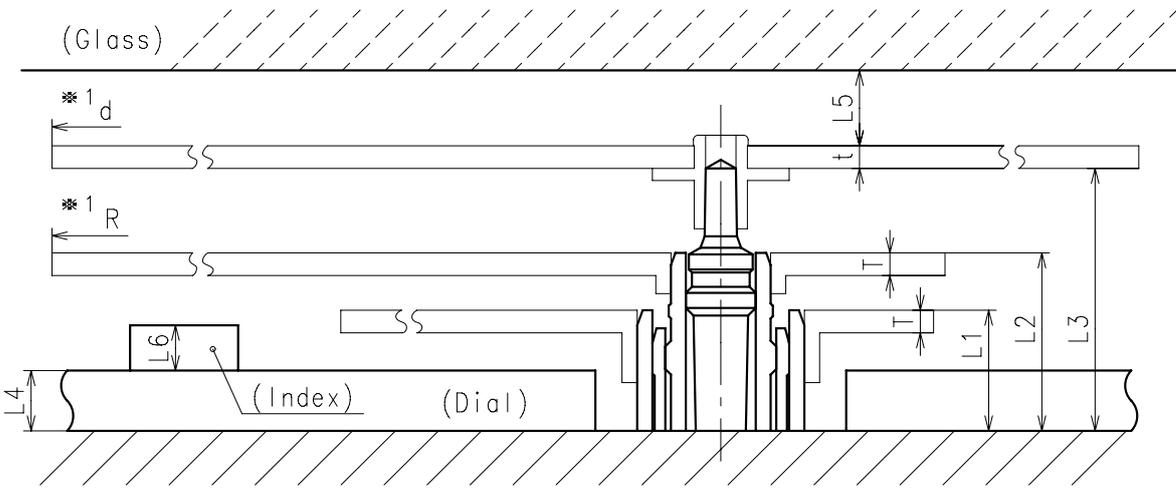
Center post		Type S (4) YR67A1
Maximum height from dial support	H1	174
Total height including movement	H2	479



- * Unbalance
 - Minute hand $\leq 0.6\mu\text{N}\cdot\text{m}$ ($60\mu\text{g}\cdot\text{m}$)
 - Hour hand $\leq 0.5\mu\text{N}\cdot\text{m}$ ($50\mu\text{g}\cdot\text{m}$)
- * Moment of inertia
 - Second hand $\leq 3\mu\text{g}\cdot\text{m}^2$
(Disc hand available)



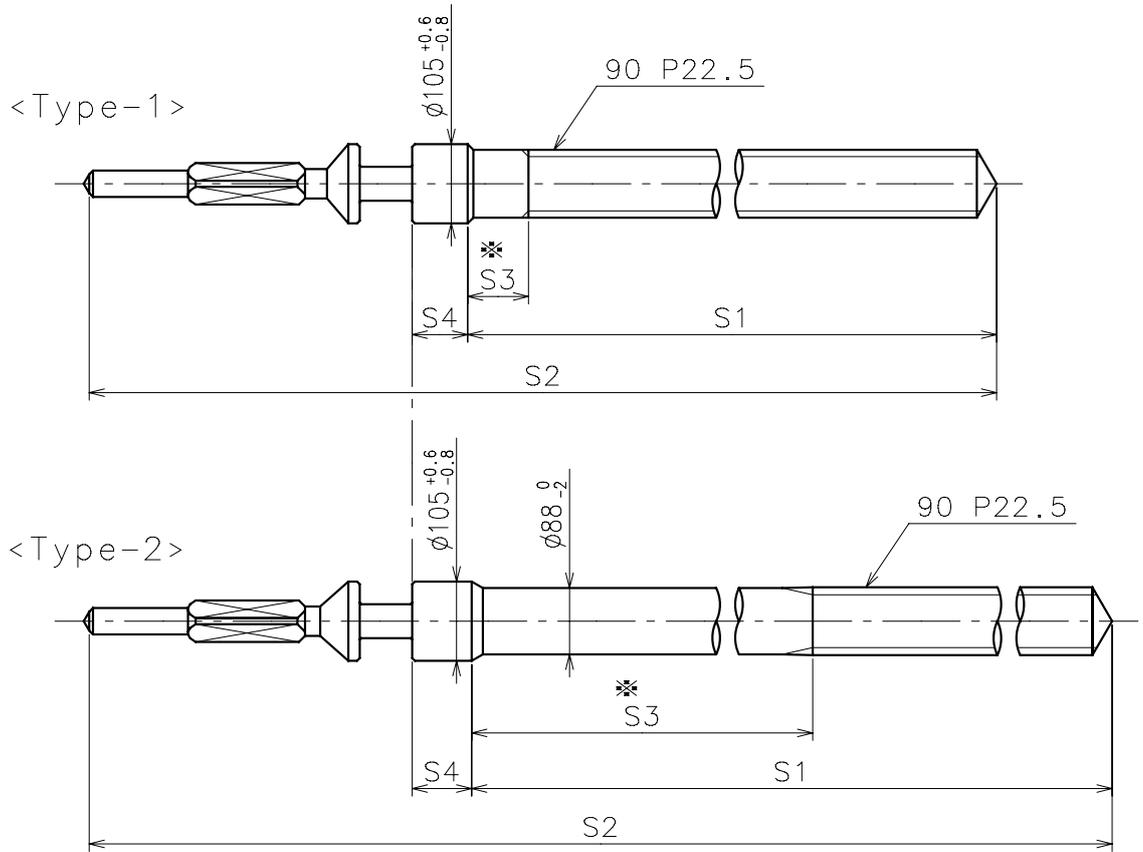
	Parts No.			Dimension	
	Hour wheel	Center wheel	Fourth wheel	K1	K2
Type S (4) YR67A1	0271796	0221797	0241763	52	33.5



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S (4) YR67A1	80	118	174	40	MIN: 50	MAX: 30	15	MAX: 1250

Second disc hand	t	d
Material:polyester ($\rho = 1.4\text{g}/\text{cm}^3$)	12.5	MAX: $\phi 2600$
	15	MAX: $\phi 2500$
	18	MAX: $\phi 2400$

*1: It is the size taken into consideration for hands attachment.
Please observe some standard value specified in unbalance and moment of inertia when using long or disc hands.

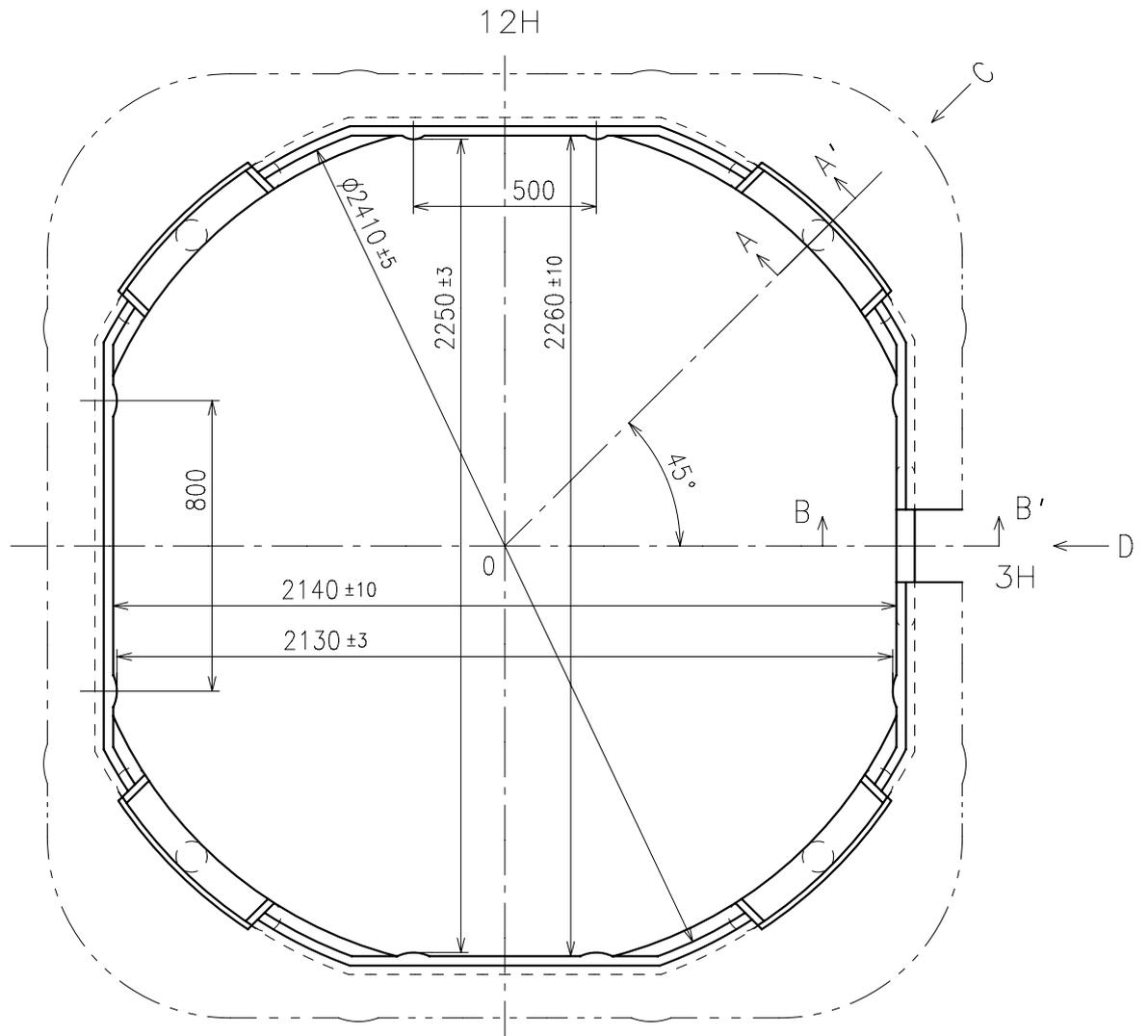


* Not threaded

	Part No.	S1	S2	* S3	S4
Type-1 (Standard)	0354788	1473	1971	80	73
Type-2	0354787	1743	2246	887	78

Material : Steel

Hardness : Vickers 530±50



C view

A-A' section

B-B' section

D view

