

Watch Movement Specification and Drawing

STANDARD

Cal. Y127E

Movement Size

6 3/4 × 8'''

Casing Diameter

15.3 × 17.8 mm

Height

2.99mm

Battery Life

1.5 years

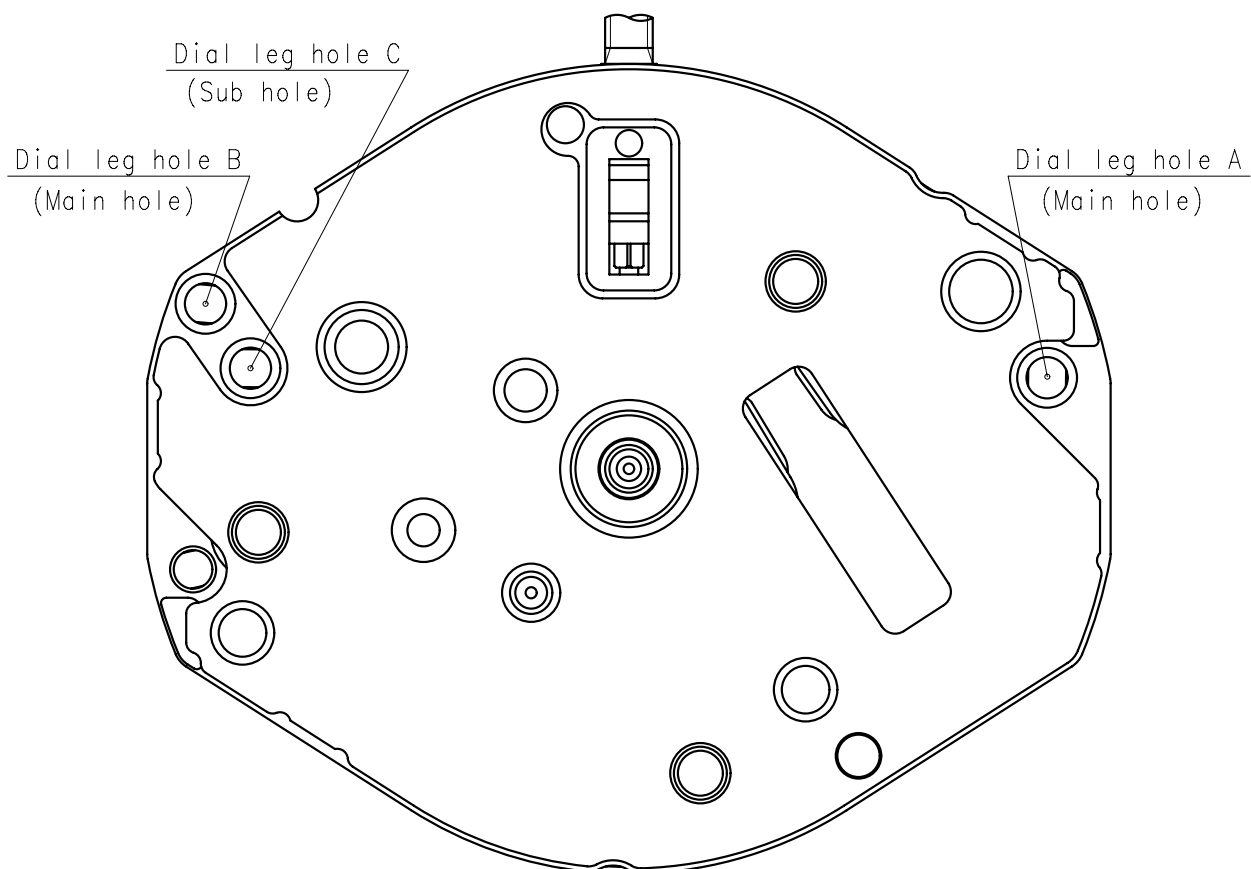
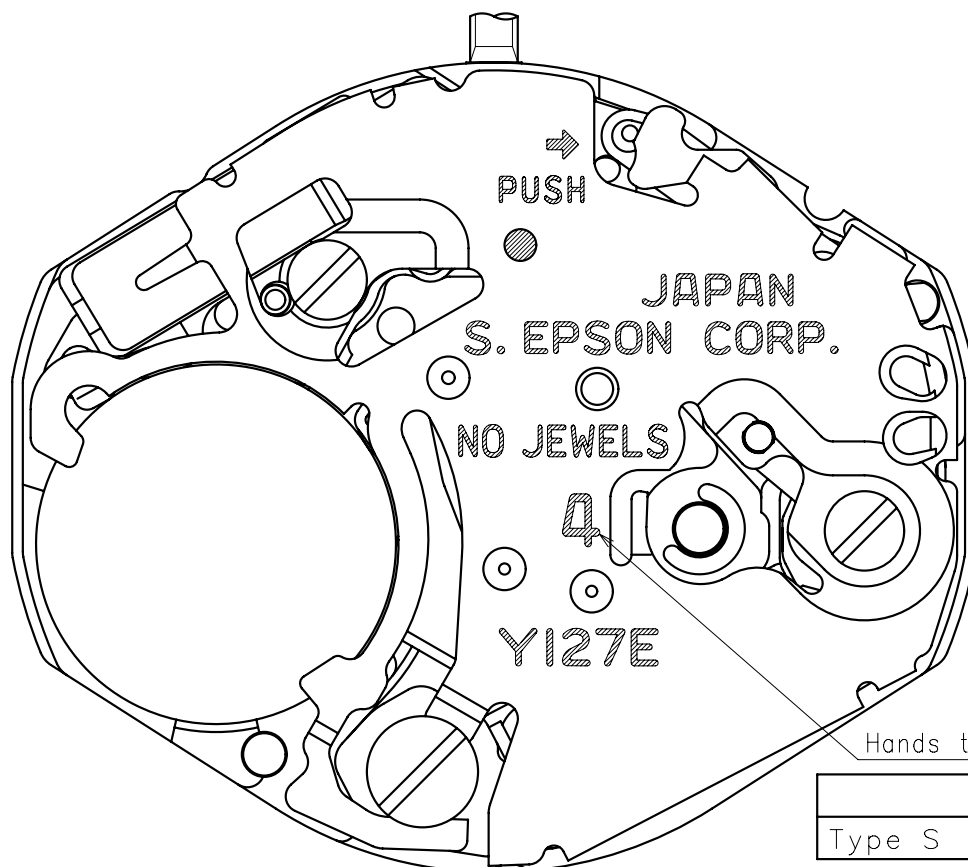


Date: 7/Aug./'20

Cal. Y127E

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Cal.	Y127E	Specifications		Date : 7/Aug./'20	
				Rev. : 04	
Analog Quartz 6 3/4 × 8''' Standard Series Movement / Three Hands (H/M/S) (High power torque)					
1. MOVEMENT DIMENSIONS					
Outside diameter		15.30mm(3-9H) × 18.20mm(12-6H)			
Casing diameter		15.30mm(3-9H) × 17.80mm(12-6H)			
Total height		2.99mm			
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°C			
Regulation device		Nil			
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		Second hand		: 0.06 μ N·m	
		Minute hand		: 0.6 μ N·m	
		Hour hand		: 0.5 μ N·m	
Moment of Inertia		Second hand		: less than 1.8 μ g·m ²	
		(Disc hand available)			
5. BATTERY					
Type / Size		Silver oxide battery / φ 6.8mm × t 2.6mm			
Recommended battery		SR626SW (Maxell, Murata, Seizaiken)			
Nominal voltage		1.55 V			
Battery life		Approx. 1.5 years			
Driving current consumption		Approx. 2.1 μ A			
Operation stopping voltage		1.2 V			
6. SEPARATED PARTS (Parts code)					
Hand setting stem		0354788 or 0354787			
Battery		SR626SW			
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.					

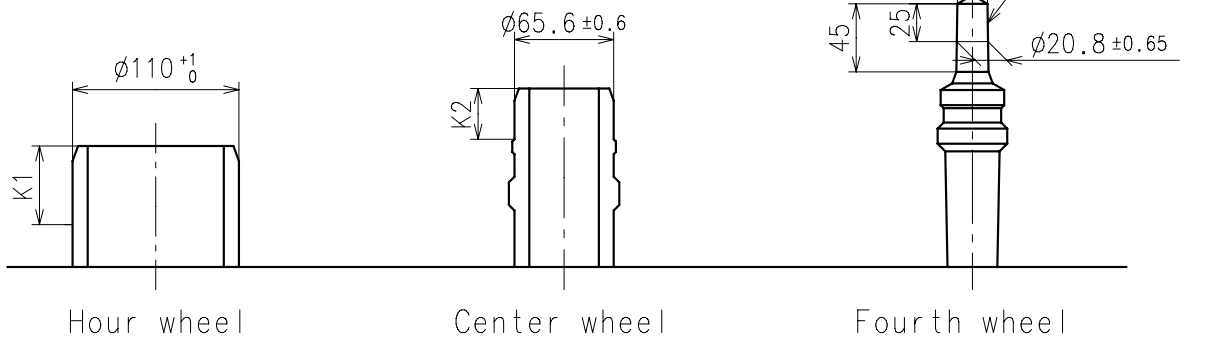


※ Unbalance

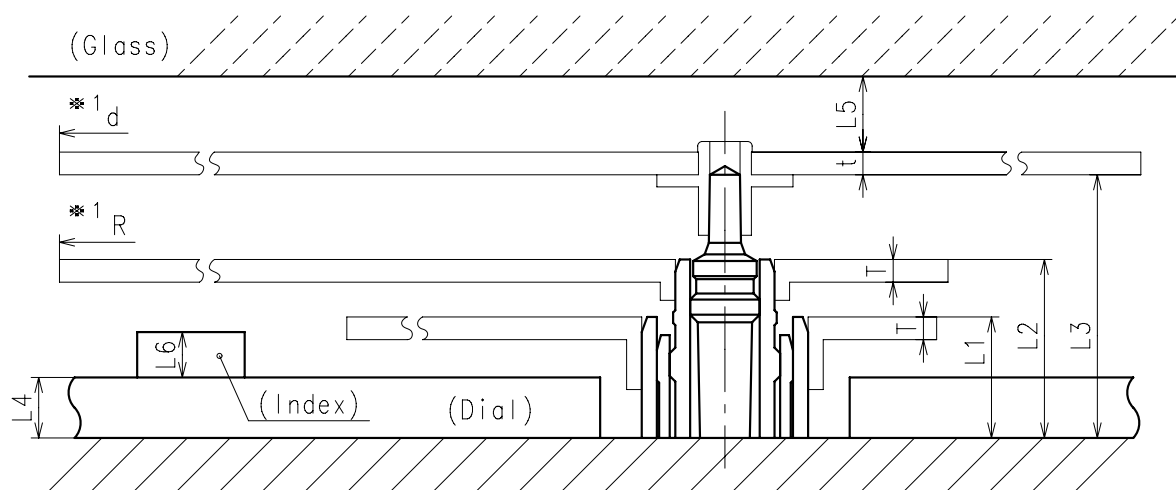
- Second hand $\leq 0.06\mu \text{ N} \cdot \text{m}$ ($6\mu \text{ g} \cdot \text{m}$)
- Minute hand $\leq 0.6\mu \text{ N} \cdot \text{m}$ ($60\mu \text{ g} \cdot \text{m}$)
- Hour hand $\leq 0.5\mu \text{ N} \cdot \text{m}$ ($50\mu \text{ g} \cdot \text{m}$)

※ Moment of inertia

- Second hand $\leq 1.8\mu \text{ g} \cdot \text{m}^2$
(Disc hand available)



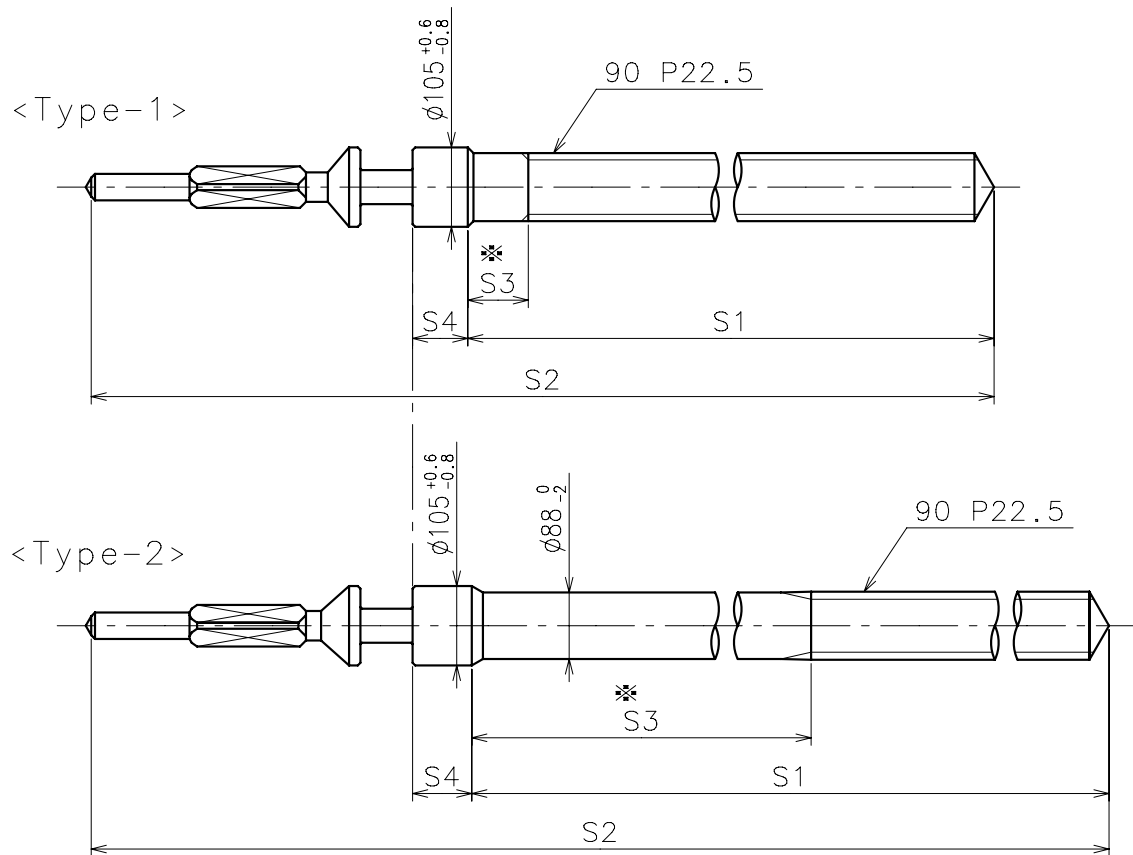
	Parts No.			Dimension	
	Hour wheel	Center wheel	Fourth wheel	K1	K2
Type S (4) Y127E1	0271796	0221797	0241763	52	33.5



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S (4) Y127E1	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: $\phi 1800$
	19	MAX: $\phi 1600$

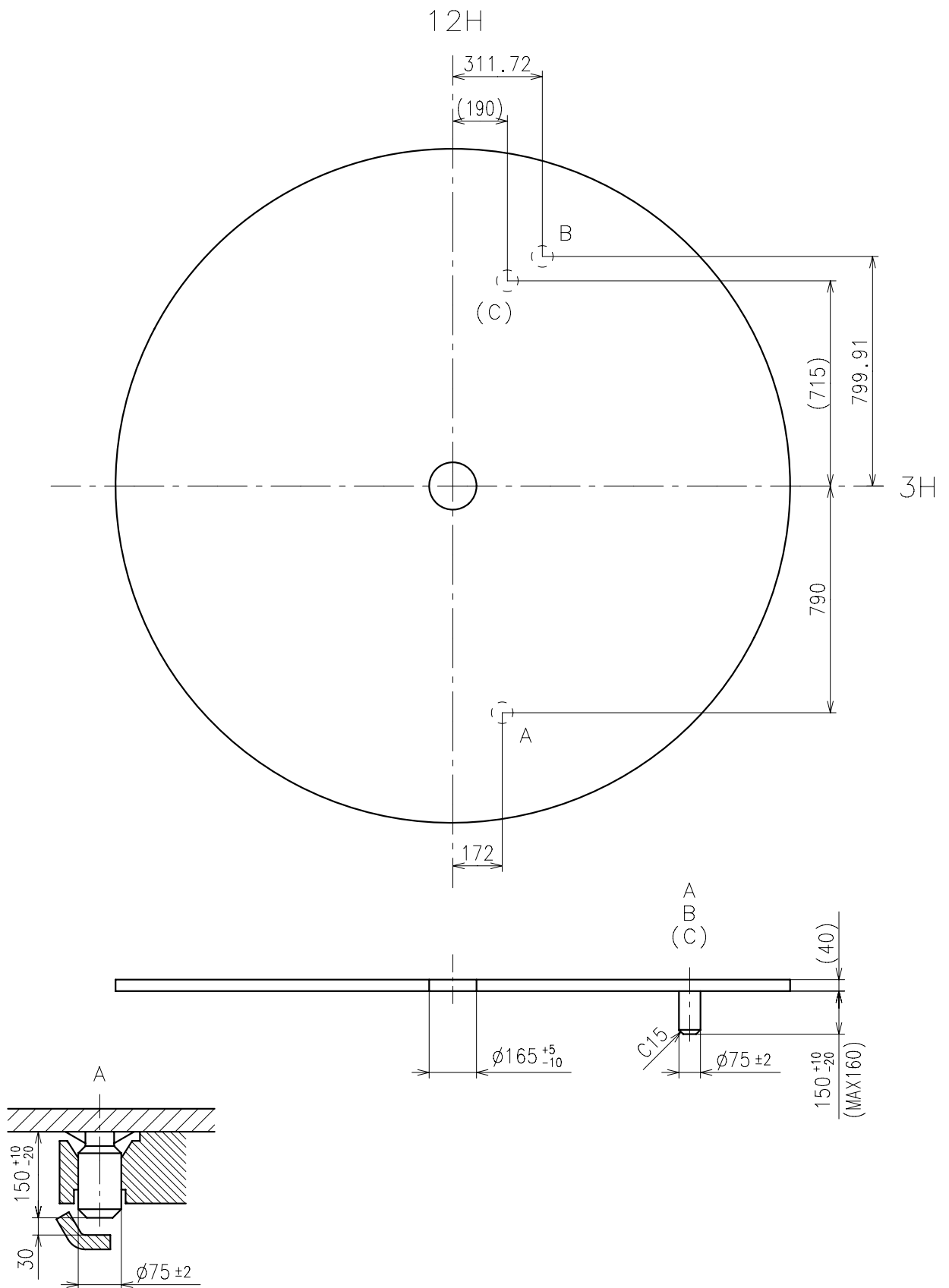
※ 1: It is the size taken into consideration for hands attachment.
Please observe some standard value specified in unbalance and moment of inertia when using long or disc hands.



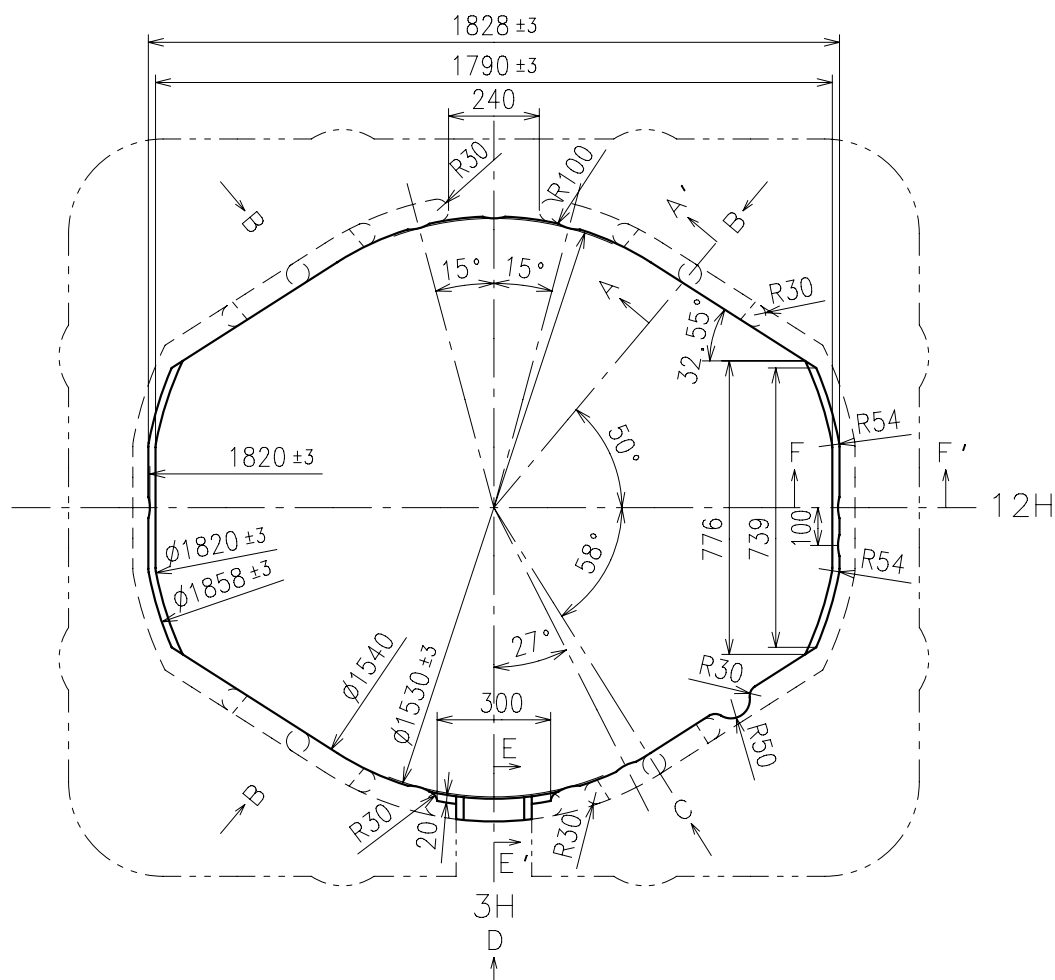
	Part No.	S1	S2	※ S3	S4
Type-1 (Standard)	0354788	1473	1971	80	73
Type-2	0354787	1743	2246	887	78

Material : Steel

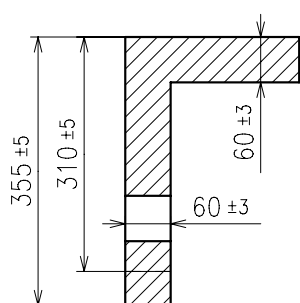
Hardness : Vickers 530±50



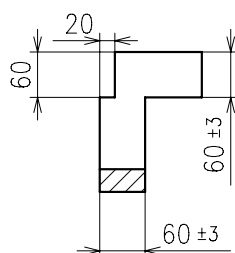
Use dial leg A-B(Main) or A-C(Sub)



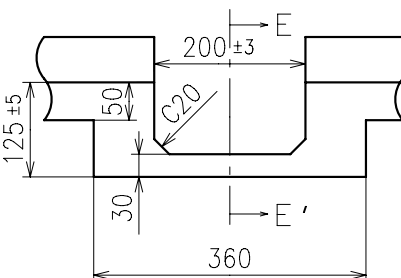
A-A' section



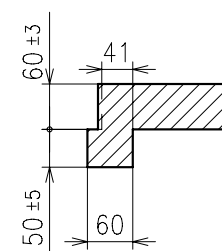
E-E' section



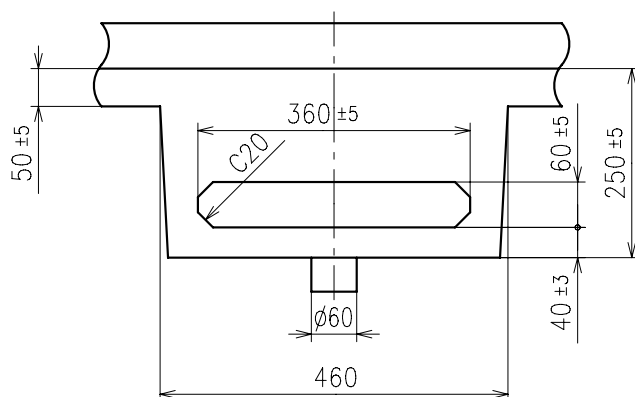
D view



F-F' section



B view



C view

