

## Cal. 8205/15/0A/1A

AUTOMATIC & MANUAL WINDING MOVEMENT WITH DATE & WIDE DAY

### Basic specification

Calibre	8205	8215	820A	821A
Ligne	11-1/2"			
Overall diameter	Φ26.0mm			
Case fitting diameter	Φ25.6mm			
Total height	5.67mm			
Date	○	○	○	○
Day	○	N/A	○	N/A
Vibration frequency	21600 vibrations per hour			
Jewels	21 Jewels			

### Function

Automatic & manual winding  
 Display by means of hands: hour, minute, second  
 Date calendar  
 Wide Day calendar (8205/820A)  
 Shock-absorber for balance staff

### Technical characteristics

#### Hands fitting force

Second hand	MAX. 30N
Minute hand	MAX. 50N
Hour hand	MAX. 50N

**Lift angle** 49°

**Casing** Non-corresponding to "Divers' watches" defined by ISO6425

### Time performance

Accuracy	-20~+40 seconds/day
Posture difference	Under 50 seconds/ day
Running time	More than 40 hours

※Accuracy of the mechanical watch is different from the daily rate of the quartz watch and the accuracy will change maximum of several ten seconds during rewinding the spring, then the accuracy of the half winding condition will be different from that of full winding condition.

### <Time performance measurement condition>

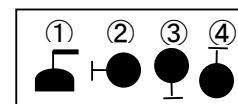
#### Accuracy

Measure within lapse of 10 ~ 60 minutes from full winding.

#### Posture difference

Measure accuracy in 4 different postures shown on the right picture within lapse of 10 ~ 60 minutes from full winding.

※Direction of 4 postures ①Date Dial side Up ②6 o'clock side up ③9 o'clock side up ④3 o'clock side up



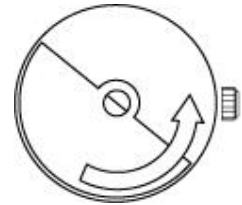
#### Running time

Measure the running time from full winding.

※The mainspring becomes fully wound by rotating the ratchet wheel 7.5 times (turning the crown 40 times).

## Automatic winding structure

**Winding direction** : Counter-clockwise (seeing from case back side)



## Operating method

### (1) Winding the Mainspring

Automatic winding watch can also be hand winded by turning the crown in "A" position. Wind 15 ~ 20 times clockwise. It will start to move naturally after shaking slightly.

### (2) Setting the Date

1. Pull the crown to "B" position.

2. Turn the crown counter-clockwise to set the date.

\*If the date is set between the hours of around 9:00 PM and 1:00 AM, the date may not change on the following day.

3. After the date has been set, push the crown back to the normal position.

### (3) Setting the Day

1. Pull the crown to "B" position.

2. Turn the crown clockwise to set the day.

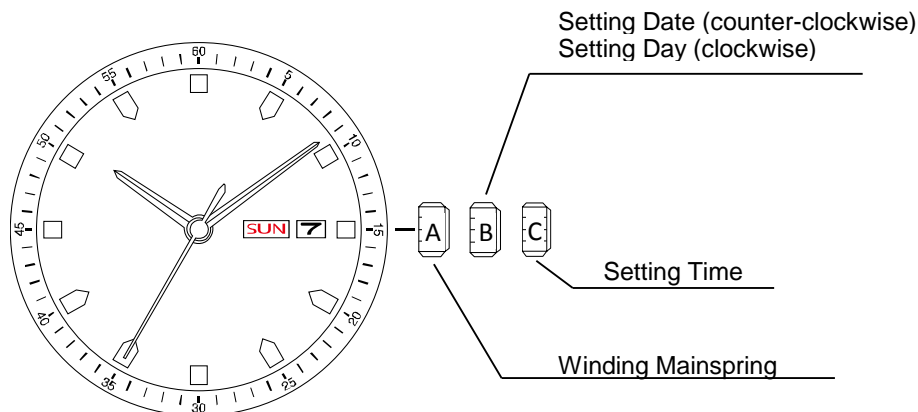
\*If the day is set between the hours of around 1:00 AM and 4:30 AM, the day may not change on the following day.

3. After the day has been set, push the crown back to the normal position.

### (4) Setting the Time

1. Pull the crown to "C" position.

2. Turn the crown to set the hour and minute hands.

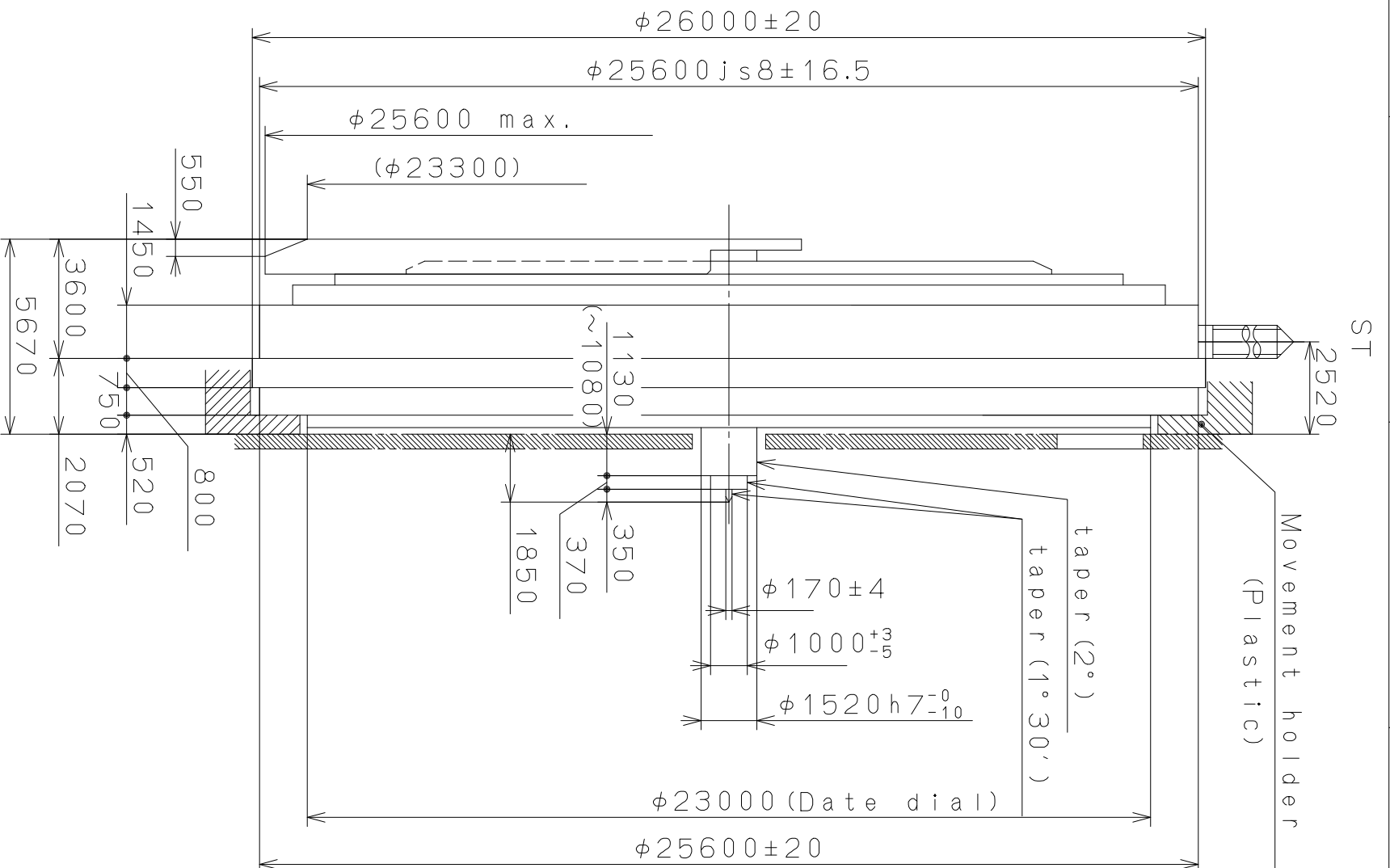
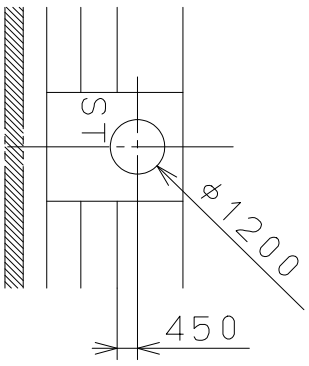
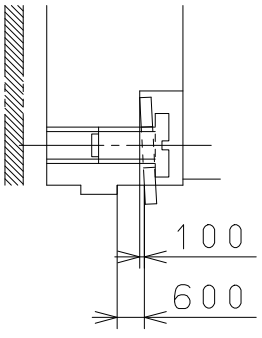
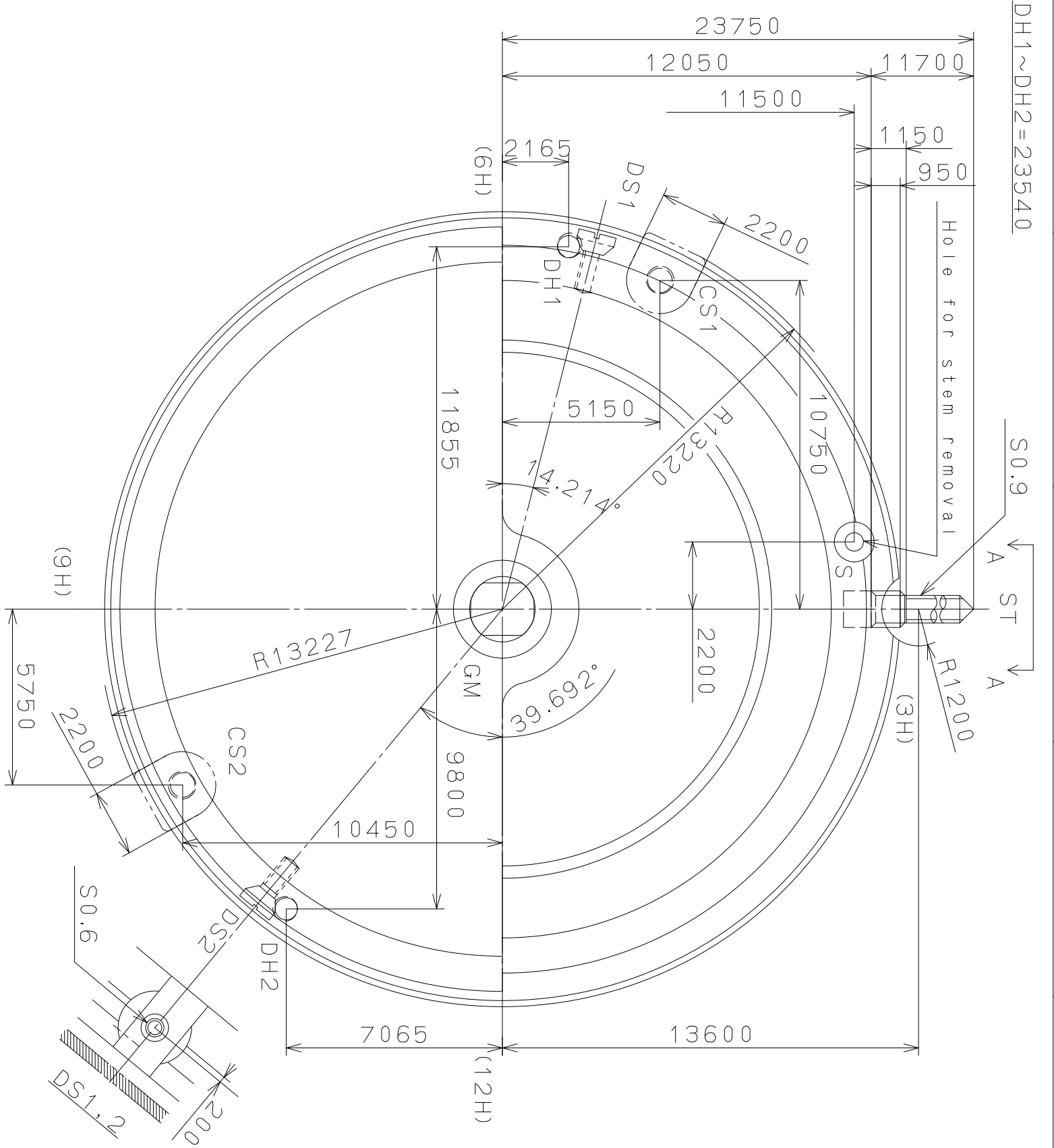


## 5. Separated Parts

Winding Stem	065-212	x1
Screw for dial fixing	929-610	x2
Movement holder	500-710	x1

These specifications might be changed without prior notice.

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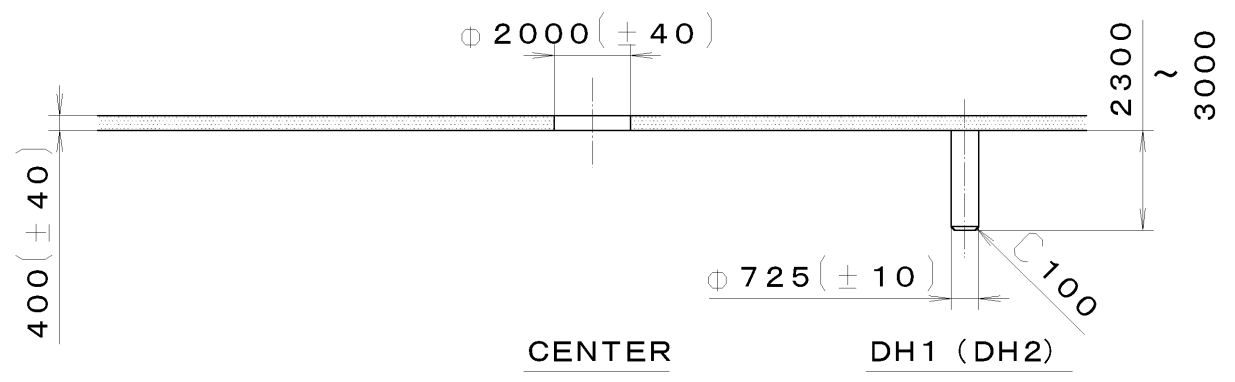
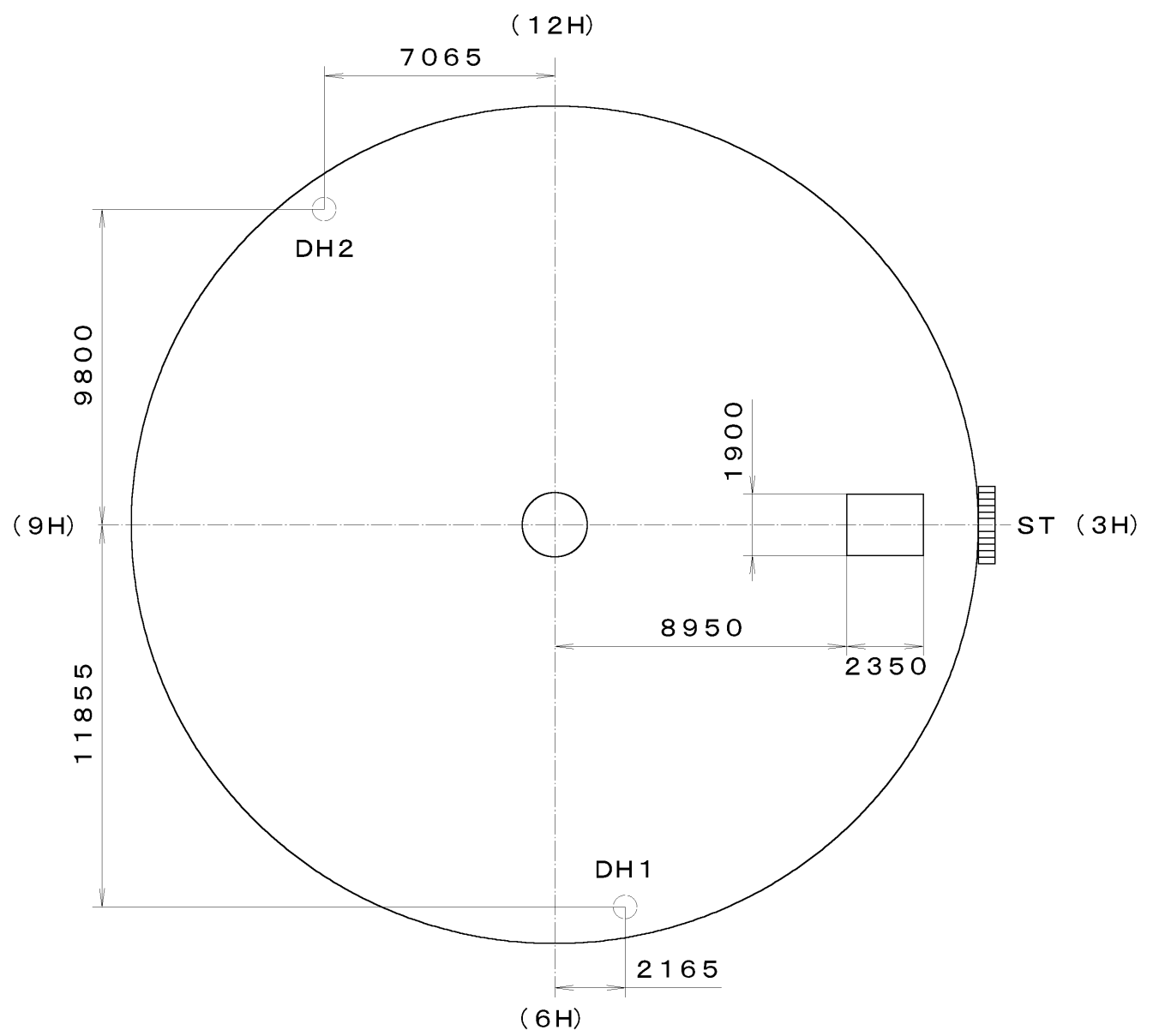
Section CS1, CS2

Section A-A

Material	Alterations	Quantity	Cal. NO.:
Heat Treatment	Date	Unit	8215
Hardness	Description	Scale	Parts No.:
Plating	Appro.	Drawn	
	Checked	N. Suzuki	Name:
	Approved		Frame for Case
			Drawing No.: 8215C010
			<b>MIYOTA</b>
			CITIZEN WATCH CO., LTD. TOKYO, JAPAN

This drawing is provisional and subject to our reconfirmation and/or revision without notice.

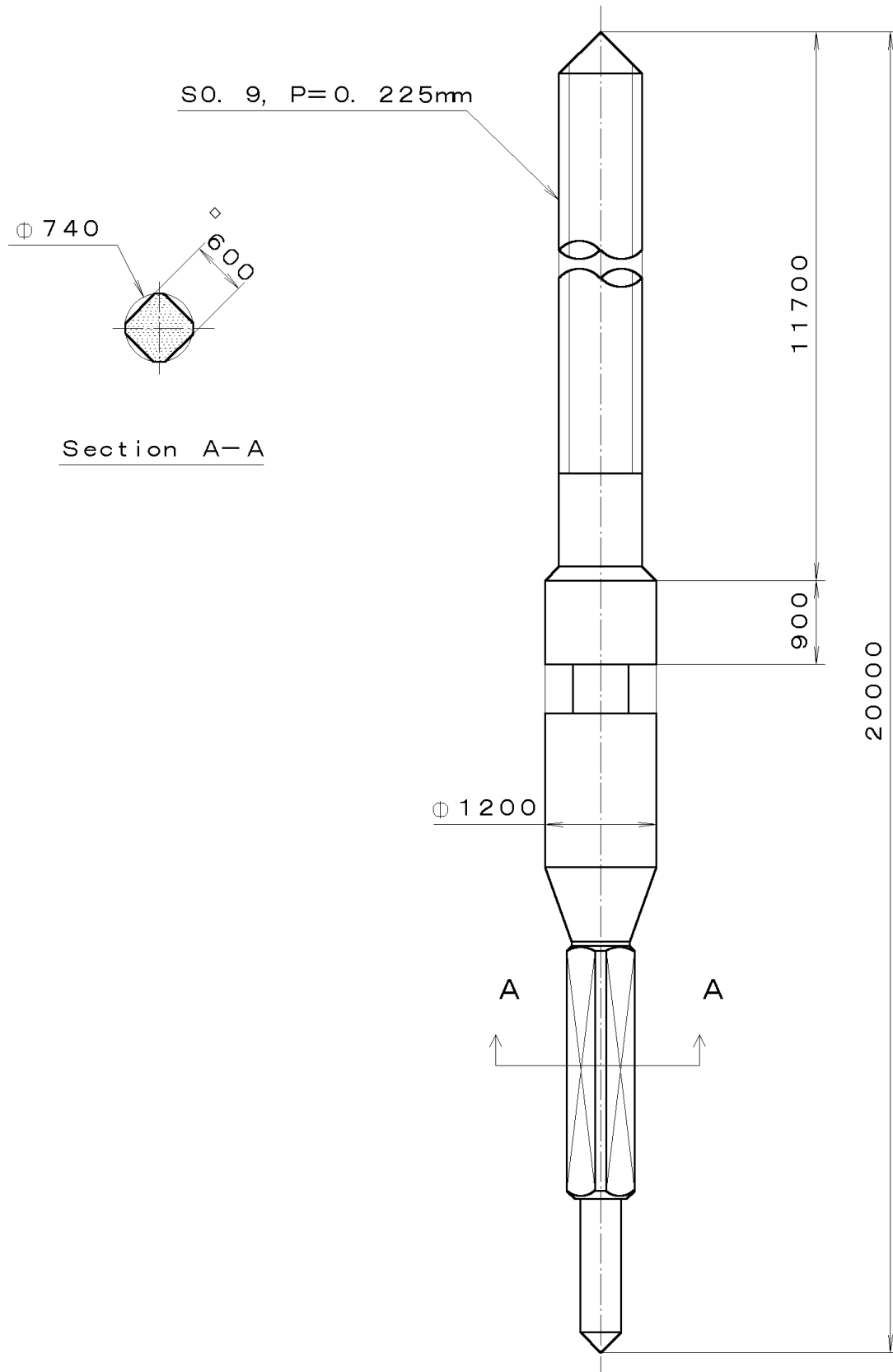
\*\*\* T I P W 8215-21A (01) \*\*\* (2100 1121) 02-03-11



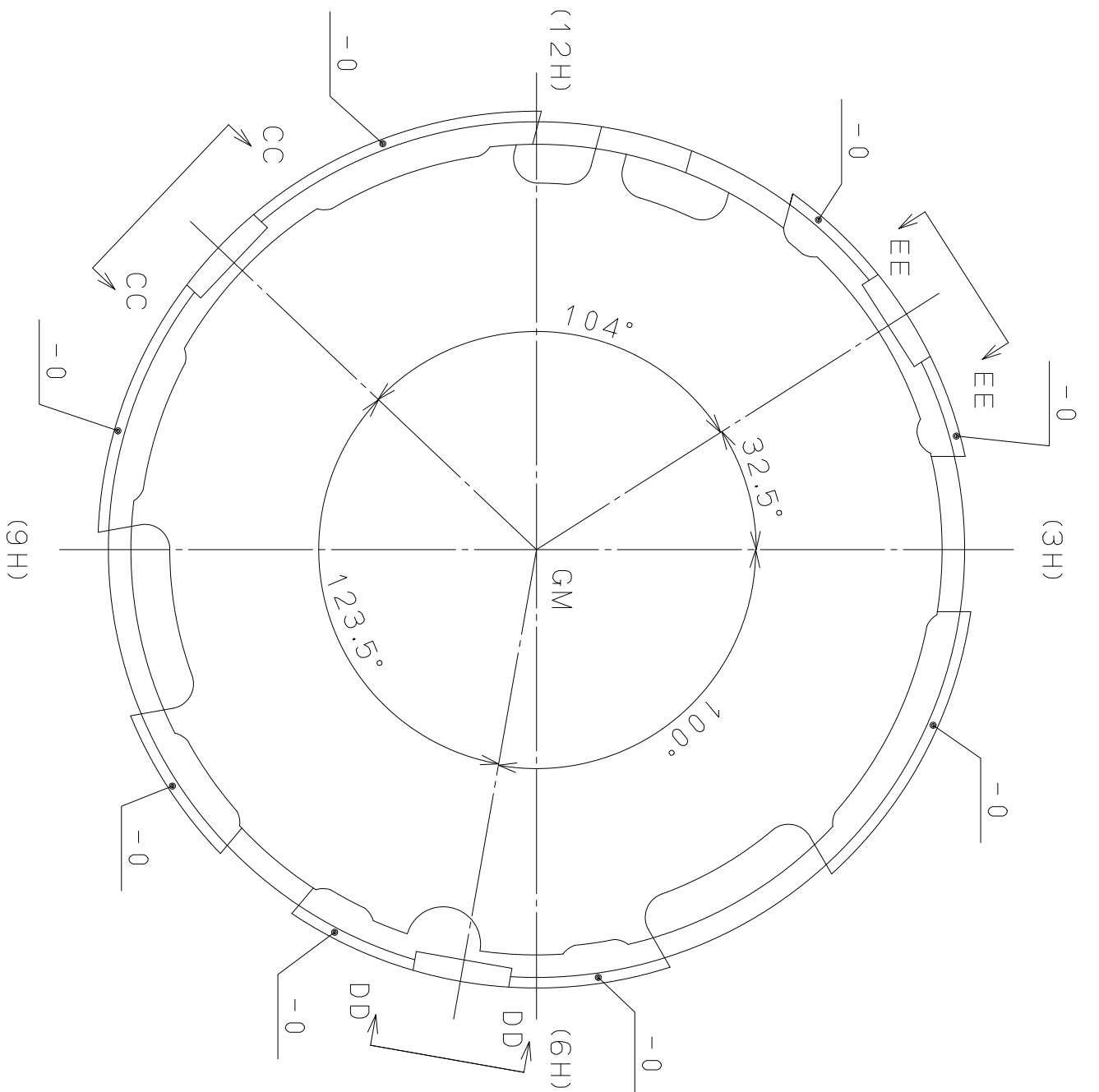
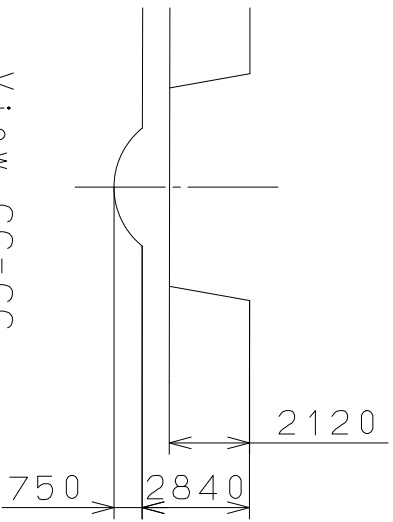
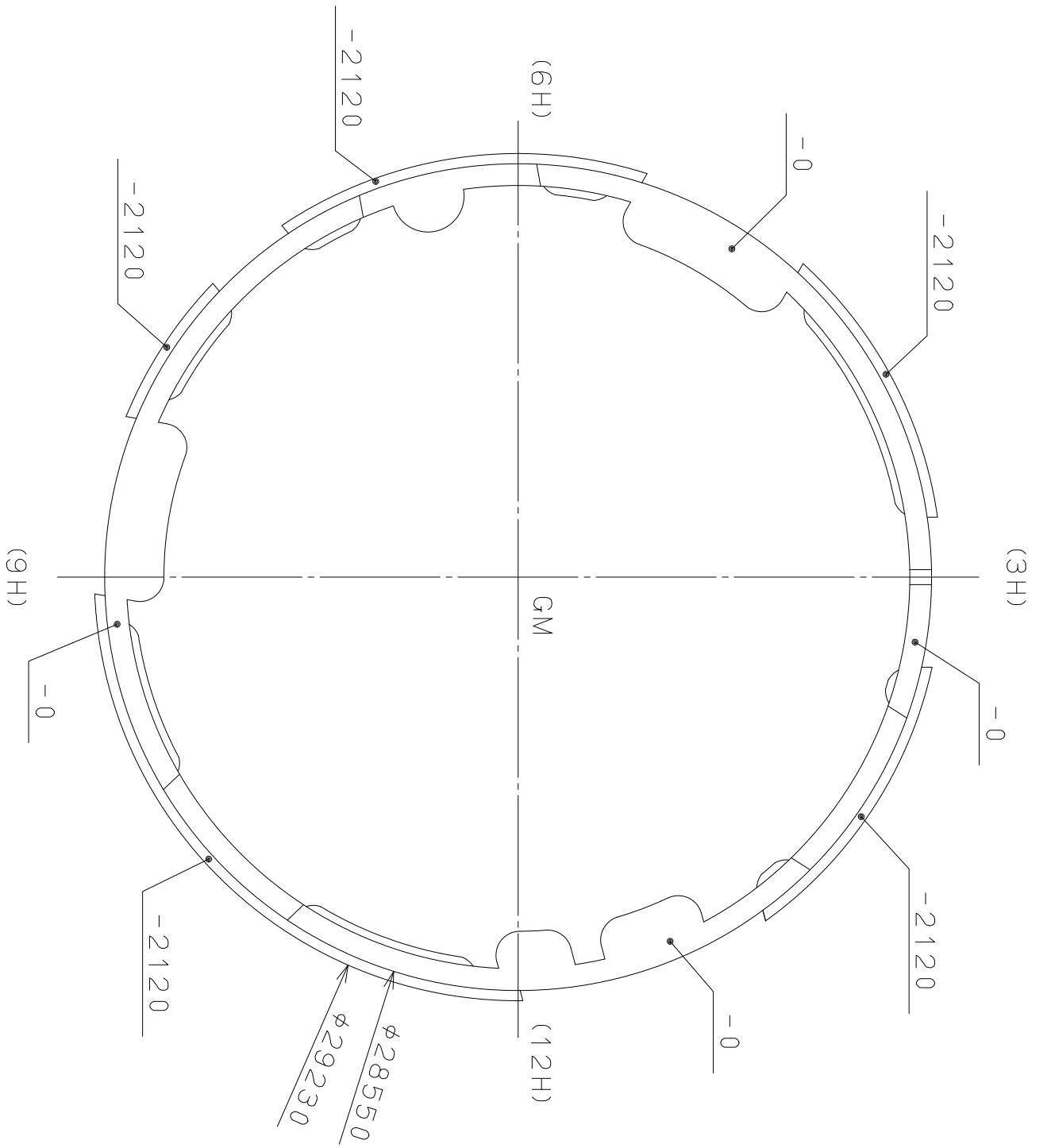
7			Quantity		Cal. No. :	8215-21A
6			Unit	1/1000 mm		
5			Scale	5:1	Parts:	
4			Date			
3			Drawn			
2			Checked	T. Hiruta	Name:	
1			Approved		Indications for Dial	
Material			Drawing No. : 8215D001			
Heat Treatment			General Tolerances		<b>MIYOTA</b>	
Hardness			Dimensions			
Plating			Angles			

This drawing is provisional and subject to our reconfirmation and/or revision without notice.

\*\*\* T I P W (01) \*\*\* (2100 1121) 00-09-18



7			Quantity		Ca l. No. :
6			Unit	1/1000 mm	
5			Scale	15:1	Parts:
4			Date		065-212
3			Drawn		
2			Checked	T. Hiruta	Name:
1			Approved		SETTING STEM
Material					Drawing No. : 2120S000
Heat Treatment			General Tolerances		<b>MIYOTA</b>
Hardness			Dimensions		
Plating			Angles		



Quantity	1/1000 mm	Cal. NO.:
Unit	5 : 1	Parts No.:
Scale	Date	500-710
Drawn	Checked	Name:
Approved	N. Suzuki	Casing Holder
Material	Approved	Drawing No.: 8200E002
Heat Treatment	General Tolerances	<b>MIYOTA</b>
Hardness	Dimensions	
Plating	Angles	
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