

Big Cock - Tower Clock System

Catalog

To:
VALUED CUSTOMER
INDONESIA

Date: 14 August 2021

Specifications

- Custom diameter 1 meter up to 30 meter
- Single Sides, Double sides, Multi sides
- Illumination at Night with Back Light of Dial (optional)
- Independent Clock / Master Clock System
- Bell Music Hour striking (optional)



<http://clock.mstel.co.id>



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Contents

BIG COCK - TOWER CLOCK SYSTEM	1
MITRASARANA TELEMATIKA	2
CONTENTS	2
REVISION HISTORY	3
DISTRIBUTION DOCUMENT	3
DOCUMENT RELATED	3
CLOCK MOVEMENT - SPECIFICATIONS	4
GFA SERIES FOR 1 – 6 METER DIAMETER	4
WIRING INSTALLATION.....	8
MASTER CONTROL	10
DIALS & HANDS.....	11
PICTURE REFERENCES	17

Revision History

Date	Version	Description	Author
7 July 2021	0.1	Initial Draft	Anggono Basuki

Distribution Document

This document is to be distributed to:

Name	Title
Anggono Basuki	GFClock Yasa Persada
VALUED CUSTOMER INDONESIA	

Document Related

- N/A

Clock Movement - Specifications

GFA Series for 1 – 6 Meter Diameter

Two hands: Hour and Minute



Available for 1 - 6 Meter diameter of Dial

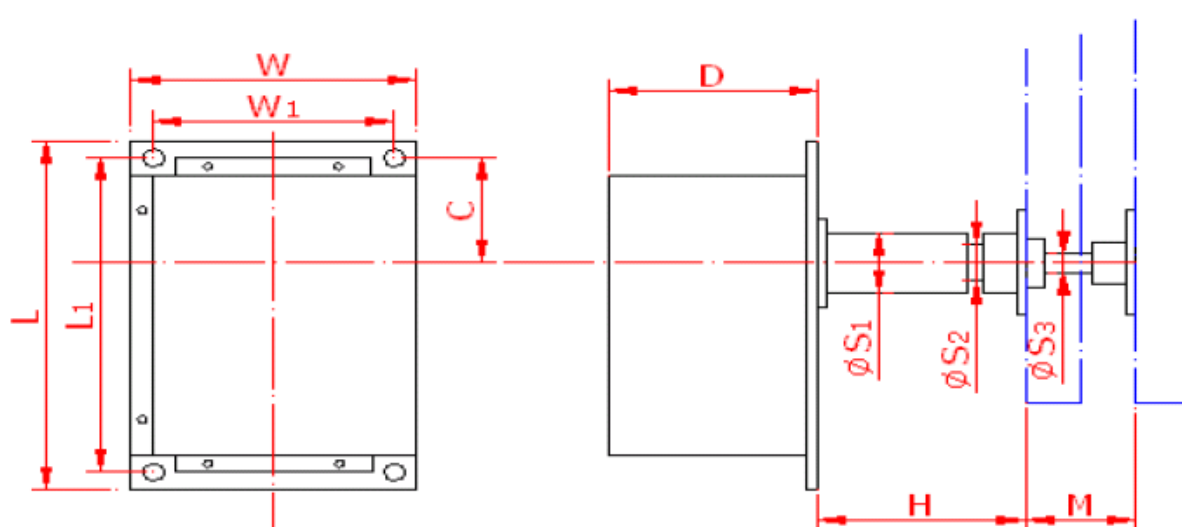
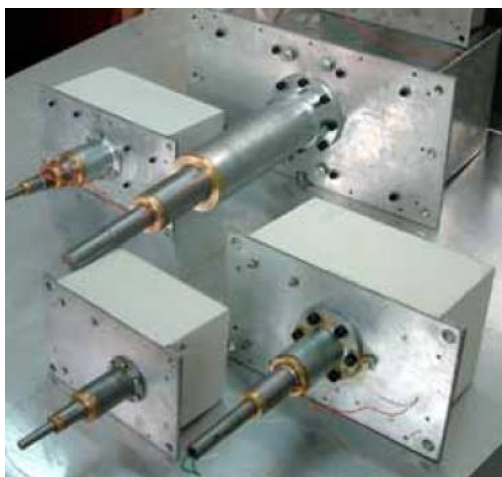
- ☐ Micro-processor based self-setting movement
- ☐ Ideal for open-air tower clock system
- ☐ All metal fabric with stepping motor
- ☐ Remote control enabled
- ☐ Compact design with multiple functions

FEATURES

Microprocessor based open-air tower clock movement
Suitable for open-air dial diameter from 1.2m to 12m
Self-setting with master clock upon power recovery from failure
Controlled & synchronized by master clock or PC connected
Operation reservation upon power failure
High efficiency with low power consumption
Applicable with or w/o master clock and UT tower clock software

OUTDOOR-USE DESIGN	:	- Entirely metal fabric from internal parts to outer case (GFA12 is exceptional with ABS outer case) - Dust-proof, anti-rust, and weather-resistant
LOW CONSUMPTION	:	- Lower power consumption by 50%
HIGH EFFICIENCY	:	- Cylinder & gears design enables high efficiency with low abrasion
SELF-SETTING	:	- Automatically synchronized with master clock
TIME RESERVATION	:	- 3 months' operation reservation enables auto correction to master clock's time on power recovery from a mains power failure
WIRING	:	- Ordinary double-twisted pair wire
INTERFACE	:	- RS485 output & input
REMOTE OPERATION	:	- Central supervised and controlled with master clock or PC - No operation on movement needed - Wiring distance to master clock or PC up to 1200m - Feedback running status to master clock or PC
TIME ACCURACY	:	- 0.3 s/d at 25° (independent)
HANDS ILLUMINATION	:	- Hollow shafts design enables LED
OTHER PARAMETER	:	- Power supply DC 12V - Shafts Hour & minute - Working Temp. -30 – 85° - Humidity 0 – 95%

DIMENSIONS



MODEL	W	W1	L	L1	D	C	S1	S2	S3	H	M
GFA12S	67	-	99	-	50	27	15	7	-	25	15
GFA25N	130	110	200	180	95	60	34	21	11	95	50
GFA25L	130	110	200	180	95	60	34	21	11	230	50
GFA40N	150	130	230	210	100	68	58	33	16	124	65
GFA40L	150	130	230	210	100	68	58	33	16	250	65
GFA60N	200	180	300	280	159	92	64	39	22	154	95
GFA60L	200	180	300	280	159	92	64	39	22	270	95

GFA Series

COMPARISON & SELECTION TABLE OF GFA MOVEMENT

MODEL	Dial Size (cm)	Dial Thickness (mm)	Hour Shaft Length (mm)	Hands Illumination	Operation	Buttons for Adjusting Hands
GFA12SFP	~ 120	~ 10	25	-	w/o Master	* *
GFA12SFS	~ 120	~ 10	25	-	with Master	-
GFA12SFB	~ 120	~ 10	25	-	with or w/o Master	* *
GFA12SHP	~ 120	~ 10	25	Enabled	w/o Master	* *
GFA12SHS	~ 120	~ 10	25	Enabled	with Master	-
GFA12SHB	~ 120	~ 10	25	Enabled	with or w/o Master	* *
GFA25NFP	120 ~ 250	~ 60	90	-	w/o Master	* *
GFA25NFS	120 ~ 250	~ 60	90	-	with Master	-
GFA25NFB	120 ~ 250	~ 60	90	-	with or w/o Master	* *
GFA25NHP	120 ~ 250	~ 60	90	Enabled	w/o Master	* *
GFA25NHS	120 ~ 250	~ 60	90	Enabled	with Master	-
GFA25NHB	120 ~ 250	~ 60	90	Enabled	with or w/o Master	* *
GFA25LFP	120 ~ 250	~ 200	230	-	w/o Master	* *
GFA25LFS	120 ~ 250	~ 200	230	-	with Master	-
GFA25LFB	120 ~ 250	~ 200	230	-	with or w/o Master	* *
GFA40NFP	250 ~ 400	~ 60	115	-	w/o Master	* *
GFA40NFS	250 ~ 400	~ 60	115	-	with Master	-
GFA40NFB	250 ~ 400	~ 60	115	-	with or w/o Master	* *
GFA40NHP	250 ~ 400	~ 60	115	Enabled	w/o Master	* *
GFA40NHS	250 ~ 400	~ 60	115	Enabled	with Master	-
GFA40NHB	250 ~ 400	~ 60	115	Enabled	with or w/o Master	* *
GFA40LFP	250 ~ 400	~ 200	263	-	w/o Master	* *
GFA40LFS	250 ~ 400	~ 200	263	-	with Master	-
GFA40LFB	250 ~ 400	~ 200	263	-	with or w/o Master	* *
GFA60NFP	400 ~ 600	~ 60	154	-	w/o Master	* *
GFA60NFS	400 ~ 600	~ 60	154	-	with Master	-
GFA60NFB	400 ~ 600	~ 60	154	-	with or w/o Master	* *
GFA60NHP	400 ~ 600	~ 60	154	Enabled	w/o Master	* *
GFA60NHS	400 ~ 600	~ 60	154	Enabled	with Master	-
GFA60NHB	400 ~ 600	~ 60	154	Enabled	with or w/o Master	* *
GFA60LFP	400 ~ 600	~ 200	270	-	w/o Master	* *
GFA60LFS	400 ~ 600	~ 200	270	-	with Master	-
GFA60LFB	400 ~ 600	~ 200	270	-	with or w/o Master	* *

Note:

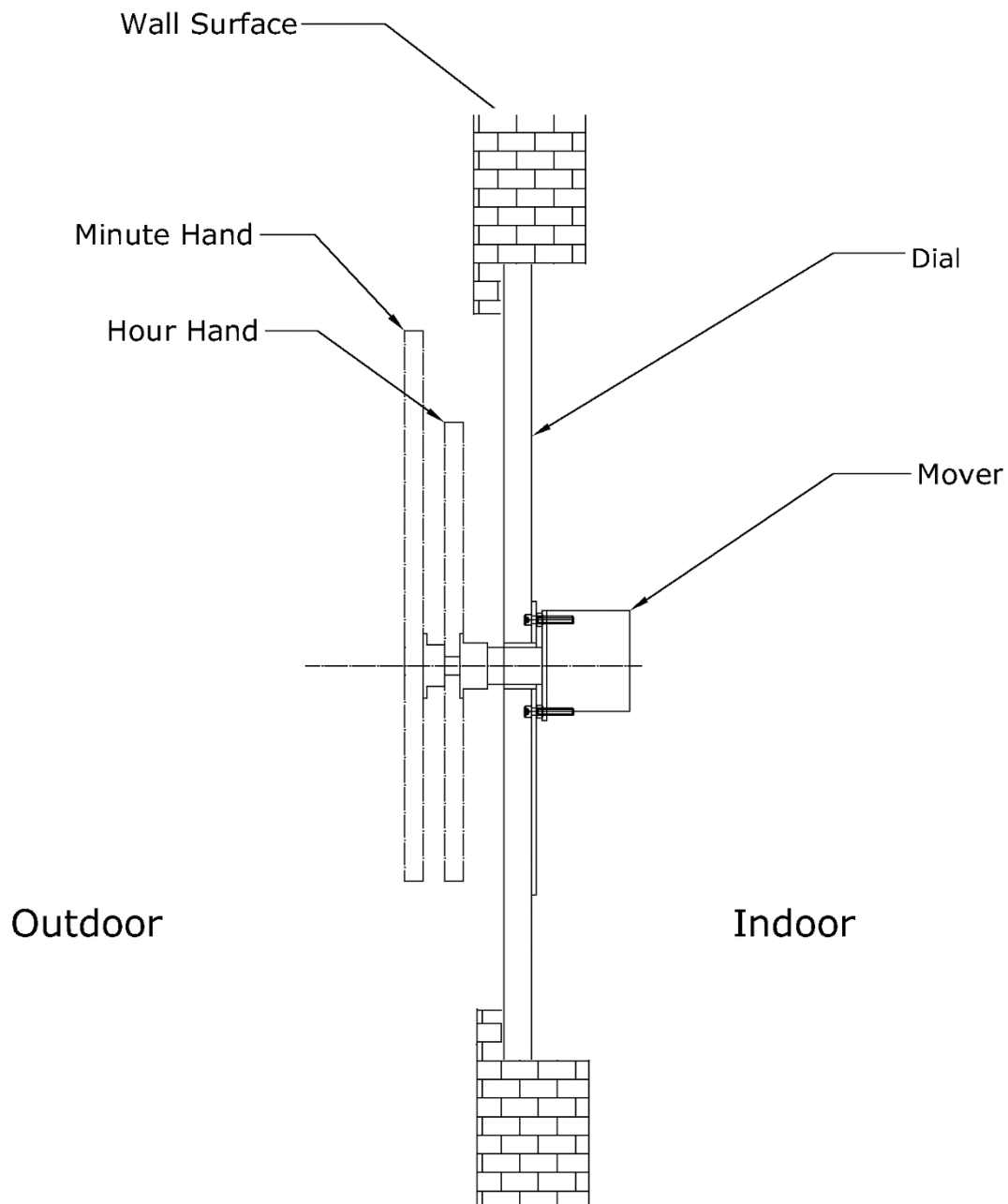
GFA25NFB adalah pilihan yang tepat dalam penawaran ini untuk support spesifikasi yang diinginkan, antara lain:

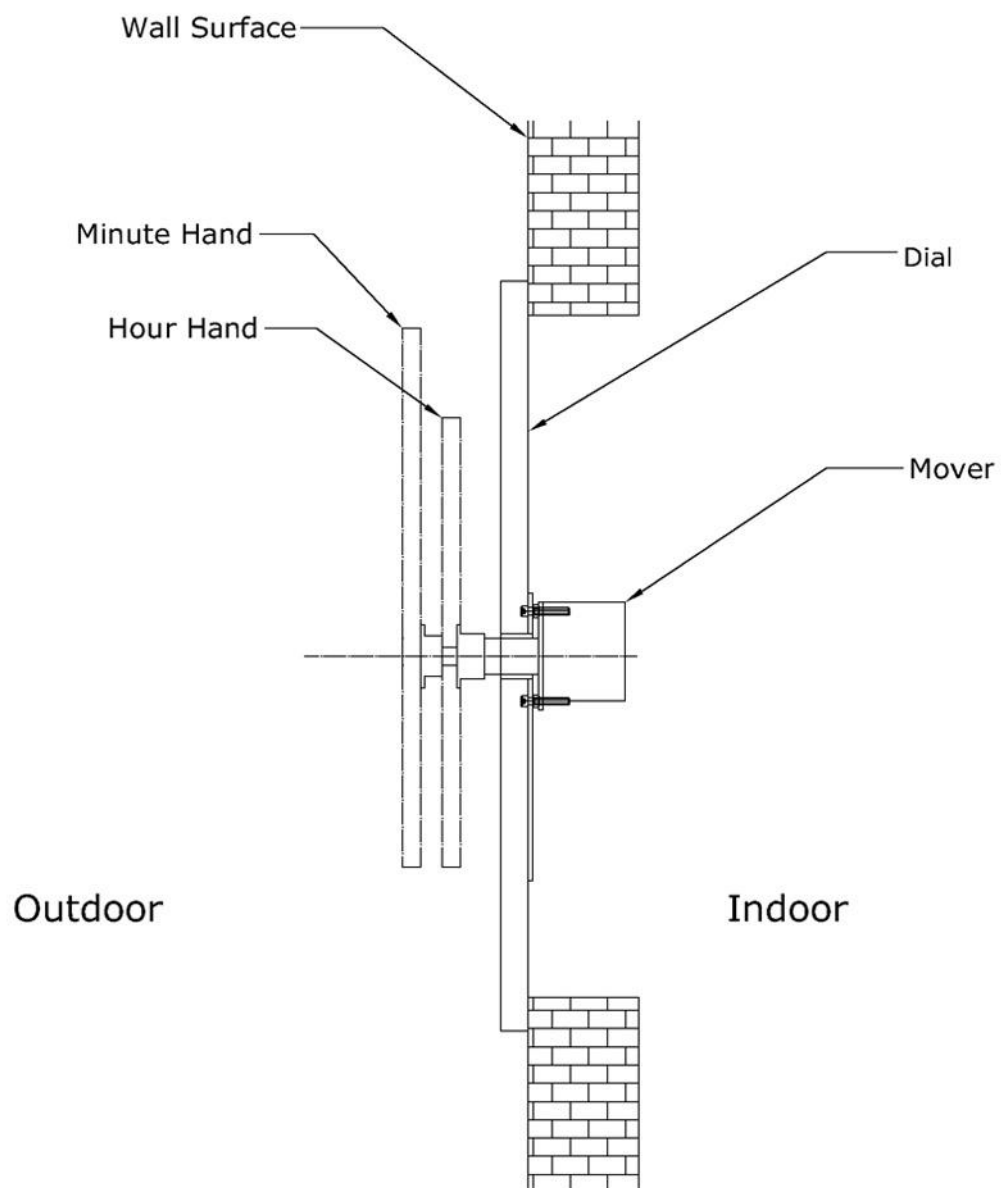
1. Diameter 3.0 meter, and working with Master clock and four slave clock
2. Support illumination at night of Hands

Wiring Installation

GFA Series for Two Hands

Berikut adalah model pemasangan di dalam bangunan menara, sebagai berikut:





Tower Clock - Installation

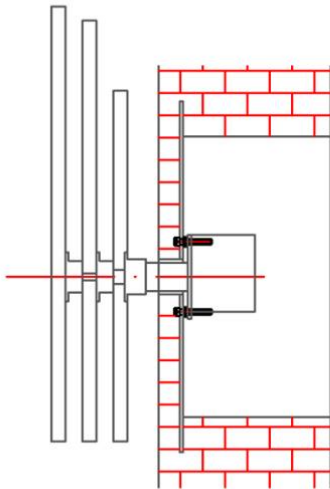


Fig. 1

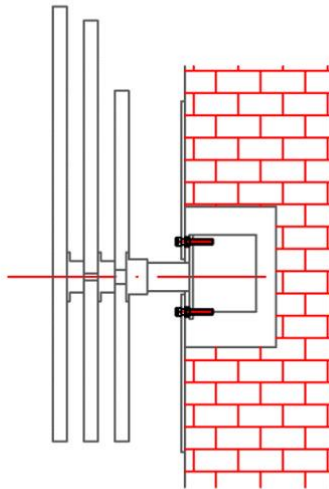


Fig. 2

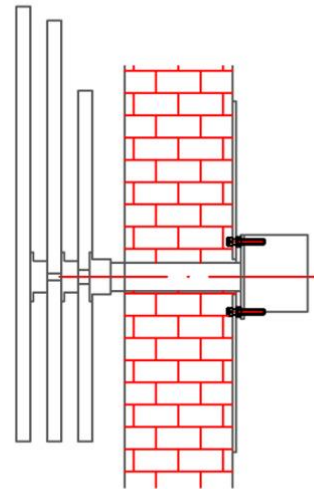


Fig. 3

Remark: in Fig. 3, movement with extended shaft is required

Building Clock - Installation

Master Control

Master Control

Digunakan untuk melakukan sinkronisasi waktu dari ke empat face mesin jam sehingga waktu tercatat dari masing-masing mesin jam akan sama, dan mempunyai fungsi RTC = Real Time Clock yang berguna untuk menyimpan informasi waktu jika sumber Listrik dalam keadaan mati (informasi waktu tersebut akan tersimpan selama 6 bulan, setelahnya bisa dilakukan reset ulang untuk kembali dapat menyimpan informasi waktu)

Master Clock ini juga mempunyai fungsi illumination sebagai pengontrol lampu akan menyala pada malam hari, auto correction time jika listrik PLN mati dan akan melakukan recovery waktu secara otomatis kepada masing-masing secondary clocks

Berikut adalah Master Control dalam penawaran ini adalah, sbb:

Master Control / Master Clock



Optional Functions:

1. Master Clock System
2. illumination light at night
3. Auto correction time
4. Control up to 120 meter cable

with Hours Striking Module + Speaker and Amplifier are support Melody/Chime

Master Control jenis ini adalah pilihan yang tepat dalam penawaran ini untuk support spesifikasi yang diinginkan, antara lain:

1. Tower Clock 4 Face dan masing-masing mesin jam akan saling tersinkronisasi waktunya
2. included RTC = Real Time Control (menyimpan informasi waktu sampai dengan 6 bulan selama Listrik Mati, dan bisa di reset kembali)
3. Auto correction Time, jika Listrik Mati akan melakukan perbaikan waktu secara otomatis pada saat Listrik kembali Hidup
4. Support illumination control, dan bisa diset untuk interval waktu yang diinginkan
5. Tambahan, chime generator yang akan berbunyi setiap menit 00:00 (ini dapat deprogram jam berapa saja akan berbunyi)

Dials & Hands

Berikut ini hanya beberapa contoh Dials dan Hands yang dapat dipilih, namun untuk Penawaran ini dipilih model Dials dan Hands sesuai dengan gambar pada Bab: **Picture References**

Spesifikasi:

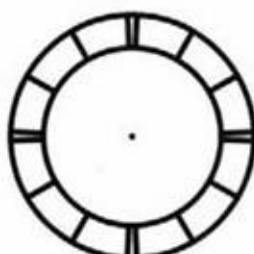
1. Dial diameter sesuai dengan penawaran
2. Dial dapat menyala pada malam hari disorot Lampu dari belakang.
3. Dial Warna dasar Putih, tulisan Angka warna Hitam
4. Dial terbuat dari Metal dan Acrylic
5. Hands (Jarum Menit dan Jarum Jam) dapat menyala di malam hari dengan LED berwarna
6. Hands Warna Hitam
7. Hands terbuat dari Metal atau Acrylic

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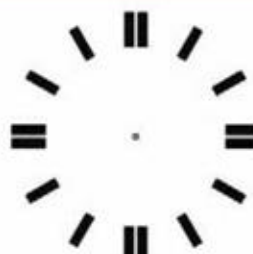
1/3



EB-302



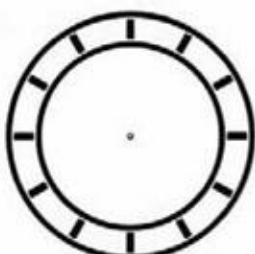
EB-303



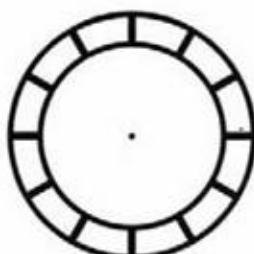
EB-303NR



EB-305



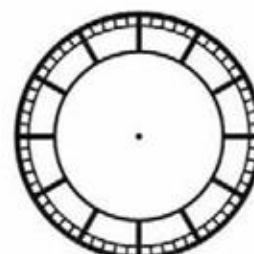
EB-306



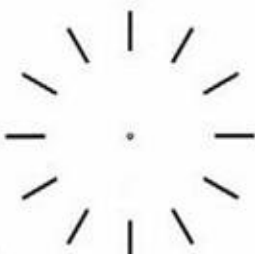
EB-306R



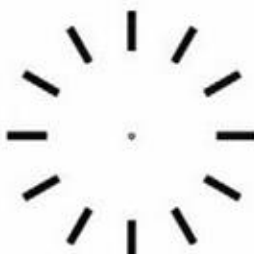
EB-307



EB-308



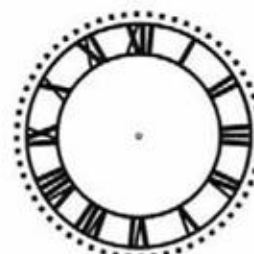
EB-309



EB-309M



EB-309H



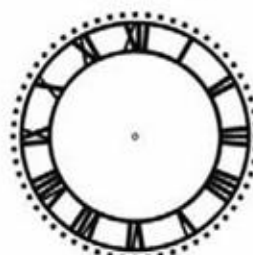
EB-311



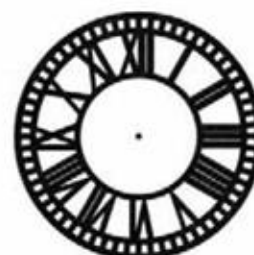
EB-312



EB-312V



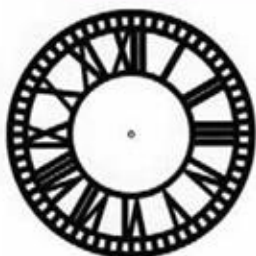
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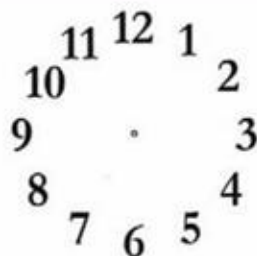
EB-314

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2/3



EB-314R



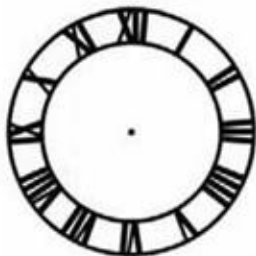
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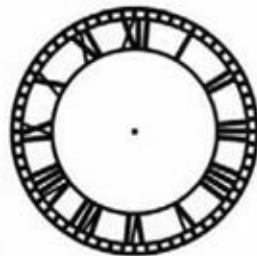
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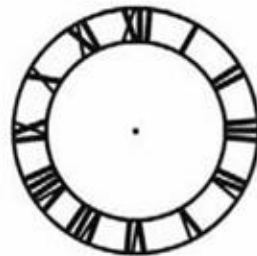
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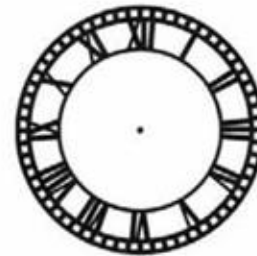
EB-316R



EB-316MR



EB-320



EB-320M



EB-321



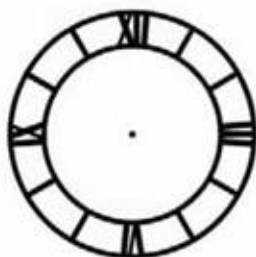
EB-321V



EB-322



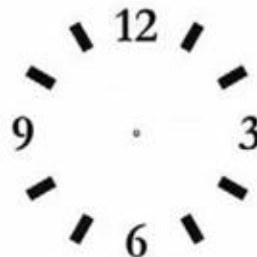
EB-323



EB-323R



EB-325



EB-326



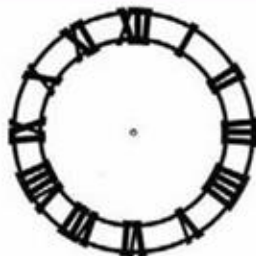
EB-328

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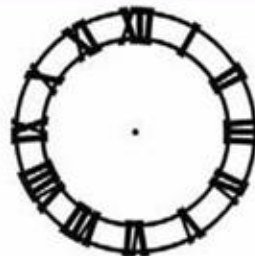
3/3



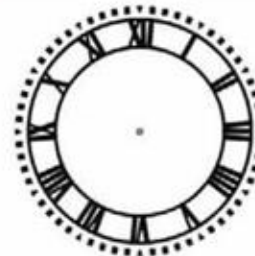
EB-328V



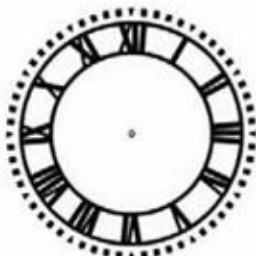
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EB-333R



EB-334



EB-334V



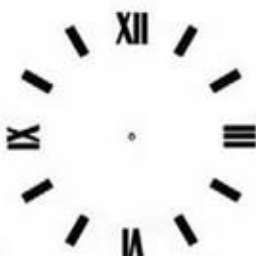
EB-335D



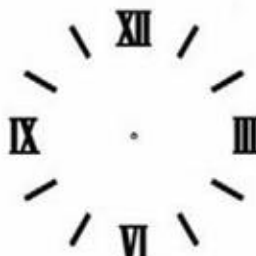
EB-335DV



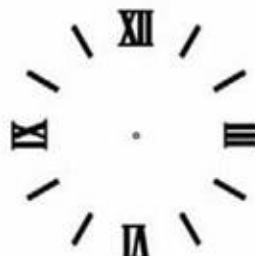
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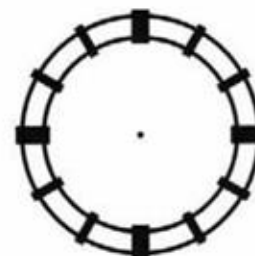
EB-336V



EB-337



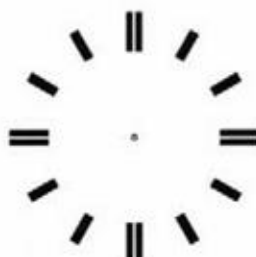
EB-337V



EB-346



EB-347



EB-348

HANDs by Mitrasarana Telematika 1/2



EB-401



EB-402



EB-403



EB-404



EB-405



EB-405T



EB-406



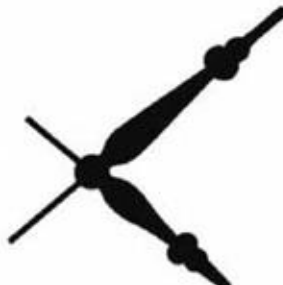
EB-407



EB-408



EB-409



EB-410



EB-412

HANDs by Mitrasarana Telematika 2/2



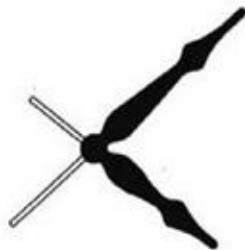
EB-412-H



EB-413



EB-414



EB-415



EB-416



EB-417



EB-418



EB-418-H



EB-419



EB-420

Picture References

Berikut adalah gambaran jenis Dials dan Hands yang dipilih untuk diimplementasikan dalam Tower Clock pada penawaran ini.

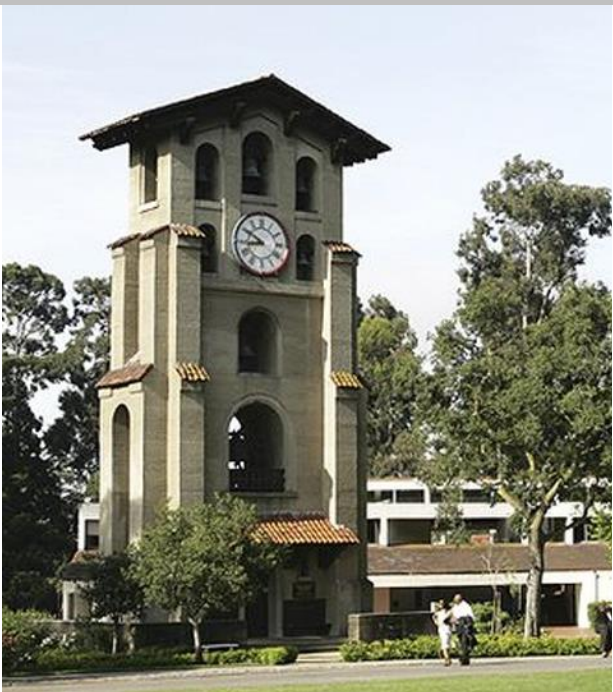
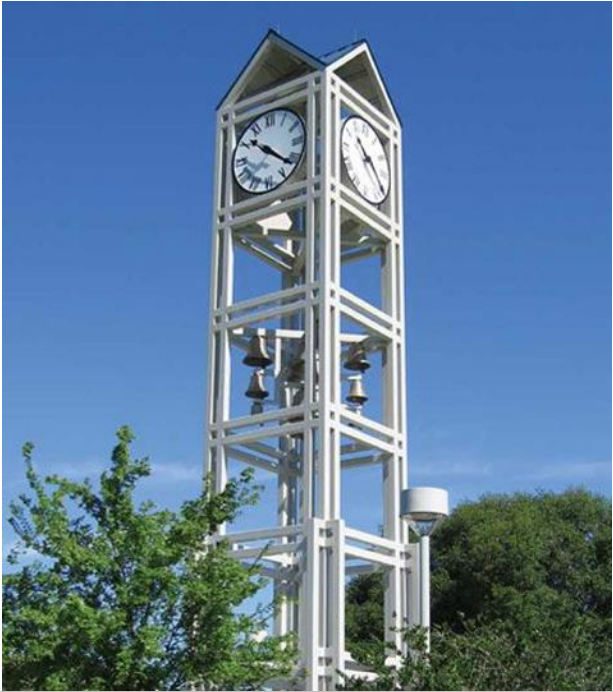


Dial with illumination at Night



BIG Clock Solutions

Berikut adalah gambaran jenis Jam Tugu lainnya, bisa dipilih sebagai referensi model dan bentuk yang diinginkan:





Anda bisa melihat beberapa koleksi bentuk jam Tower Clocks, Outdoor Clocks, dan Street Clocks di website kami di <http://clock.mstel.co.id>

atau bisa kontak kami secara langsung ke:

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