

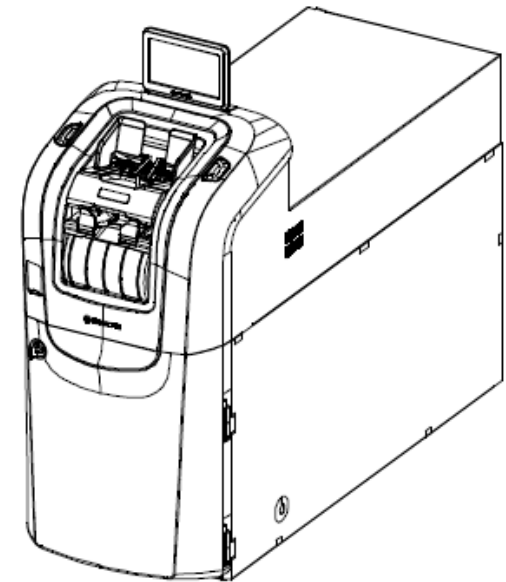
# HYOSUNG TNS

## MONiSAFE500EL

Site Preparation

---

V01.00.00



*In this document*, a licensed product of HYOSUNG TNS. INC (“HYOSUNG”) is described. Monisafe is a trademark of HYOSUNG.

Under the terms and conditions of an agreement you have with HYOSUNG, where creation of derivative works, modifications or copies of this HYOSUNG copyrighted documentation is permitted, HYOSUNG’s copyright notice must be included.

As new technology, components, software and firmware become available, HYOSUNG reserves the right to change specifications without prior notice.

All features, functions and operations described in this document may not be marketed by HYOSUNG in all parts of the world. In some instances, photographs are of equipment prototypes. sold by HYOSUNG in all regions worldwide. Therefore, before using this document, contact with your HYOSUNG representative or HYOSUNG office for information that is applicable and current.

---

HYOSUNG Proprietary Information – not to be disclosed or reproduced without written consent.

© 2022 HYOSUNG TNS. INC,, Seoul, Korea. <https://hyosung-tns.com>.

All Rights Reserved

## Table of contents

### Introduction

Audience .....	4
About This Document .....	4
Safety precautions .....	5
Document revisions .....	8

### Variant Details

Exterior .....	9
I. Front Elevation .....	9
II. Access for Device .....	9
III. Side Elevation .....	10
IV. Plan View .....	10
V. ISO View .....	10
VI. Weight .....	11
Service Area .....	11
I. Minimum Installation .....	11
II. Recommended Installation .....	12
III. Side Elevation .....	12

Installation Frame .....	13
I. Bottom of TCR .....	13
II. Anchor Point .....	13
III. Anchor Detail .....	14
Power Requirements .....	14

# Introduction

## Audience

This document is intended for those responsible for preparing a site prior to the arrival of this product.

## About This Document

This site preparation document is designed to be read on wide aspect ratio screens. For printing, A4 size paper is recommended.

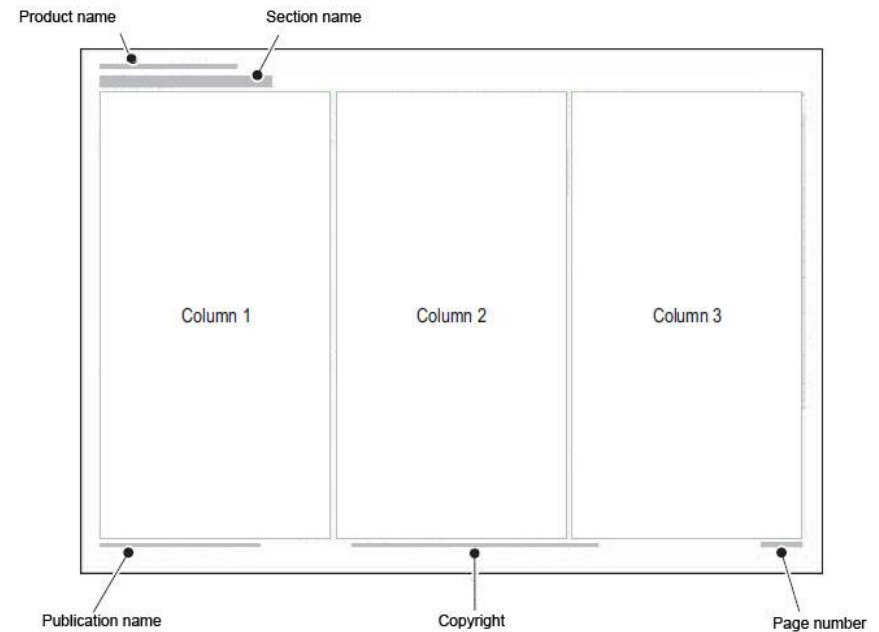
The document is organized into sections covering the following topics:

- Introduction - this section

- Power Requirements

- Variant Details

Each page has one column ~ three columns laid out as follows:



# Introduction

## Safety precautions

### Common safety precaution



- Safety Precautions in outlined this manual provide information on safe and proper handling of the product. Non-compliance of the safety precautions may result in injury or damage to the product.
- This precaution symbol with sample term tells you safety warnings during equipment handlings.

Please read the following instructions before operating equipment.

- Operate equipment in the order outlined in this manual.
- Follow precautions indicated in this manual, as well as the equipment itself. Failure to properly address these precautions may lead to injury or damage to the product.
- Avoid operations not addressed in this manual.
- If you cannot remedy system problems using the methods outlined in this manual, please refer to contact information listed in the manual.
- Any change or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### <Note!>

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### ► CAUTION

1. To reduce the risk of fire, use only No. 26 AWG OR LARGER Telecommunication cord
2. Risk of explosion if battery is replaced by an incorrect type. Dispose used batteries according to the instructions.
3. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
4. The equipment is to be secured to the building structure before operation
5. A security container shall be permitted to optionally be provided with a

# Introduction

secondary lock, but improper use of the secondary lock feature will reduce the security level of the ATM.

## Description of precaution symbols



### Electrical Shock Warning

- Do not remove cover. Only a maintenance engineer is allowed to open the cover.
- Do not touch. You may receive electric shock.
- Make sure to turn off the power when servicing the equipment.



### High Temperature Warning

- Do not touch the equipment when it is running.
- The equipment can get extremely hot and may cause a burn.
- Make sure to close the cover before running the equipment.



### Use Precaution when Moving

- The equipment is heavy. Make sure at least 2 people lift or move the equipment.
- Do not attempt to move the equipment alone. You may be injured from dropping the heavy equipment.



### Fire Hazard

- Place the equipment in an area away from any combustible materials.
- The equipment may catch on fire from overheating or short circuit of the power supply unit.



### Disassembly Warnings

- Do not disassemble or modify the equipment unless you are a certified engineer.
- Contact the service center for maintenance, adjustments and repairs.
- Improper disassembly may cause fire or electrical shock.



### Collapse Precautions

- Do not place the equipment where the floor cannot sustain the weight of the equipment, or on slanted or unstable surface.
- Equipment may fall and cause injury or damage.



### Unplug the Equipment

- Stop using the equipment immediately if it smokes, emits an unusual smell, makes abnormal sounds, or if liquids or other foreign materials enter the equipment.
- If the above-mentioned abnormalities occur, immediately turn off the power, unplug the equipment and contact the service center.

## Introduction

- If you ignore these symptoms, the equipment may catch on fire or cause electric shock.

# Introduction

## Document revisions

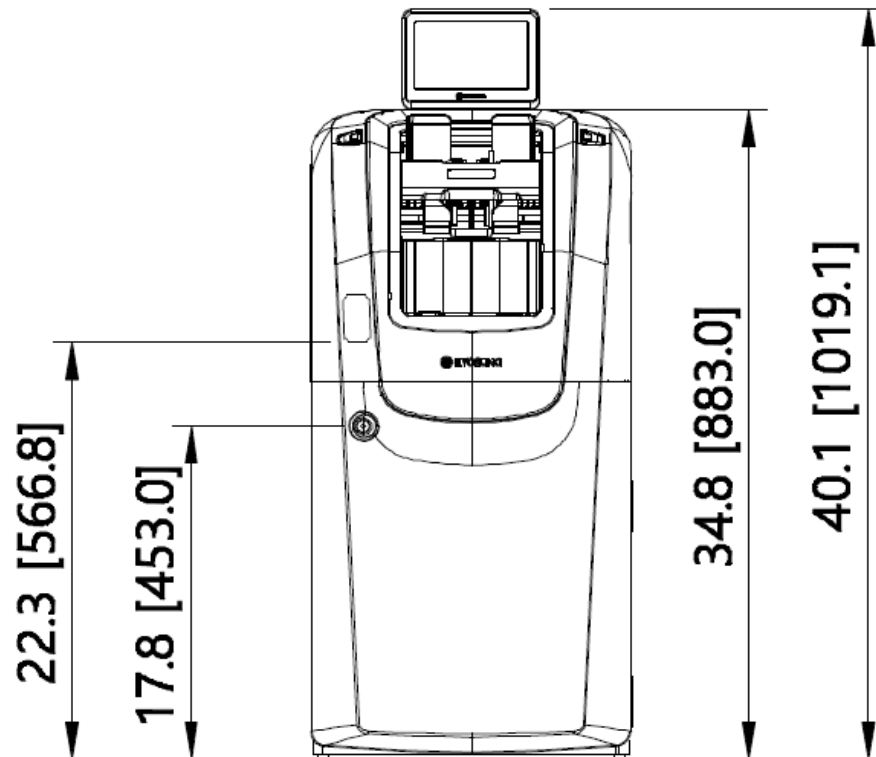
Revision	Date	Change summary
V01.00.00	2022-7-1	New Publication



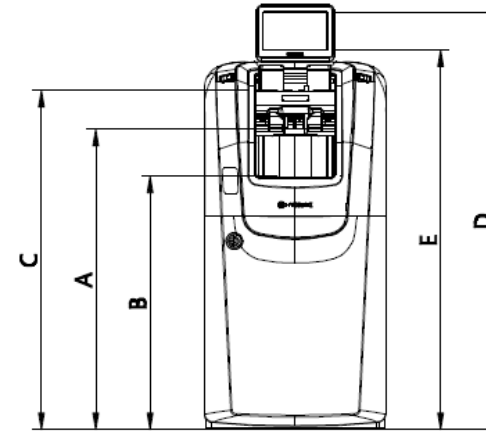
## Variant Details

### Exterior

#### I. Front Elevation



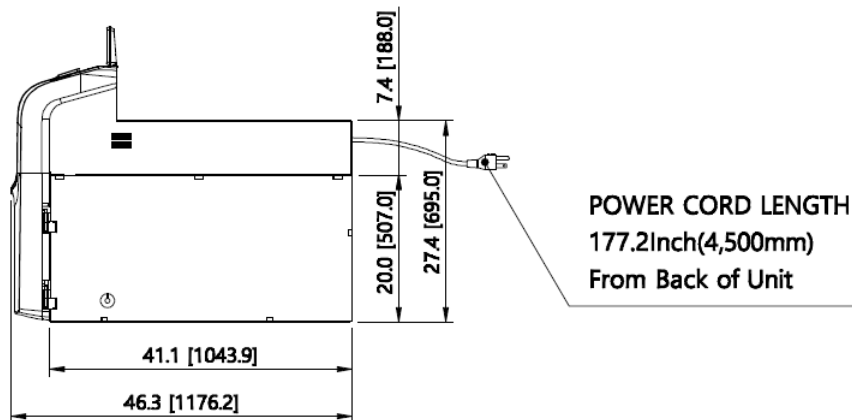
#### II. Access for Device



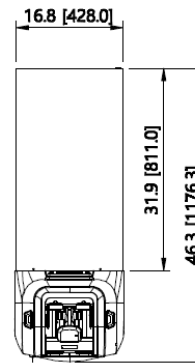
	Device	Height (from base of TCR)	Depth (from front of Bezel)
A	Reject pocket	720.7mm [28.4inch]	75.5mm [3.0inch]
B	Dispense pocket	607.2mm [23.9inch]	58.9mm [2.3inch]
C	Deposit pocket	813.9mm [32.0inch]	95.3mm [3.8inch]
D	Screen Top	1001.8mm [39.4inch]	331.6mm [13.1inch]
E	Screen Bottom	911.0mm [35.9inch]	331.6mm [13.1inch]

## Variant Details

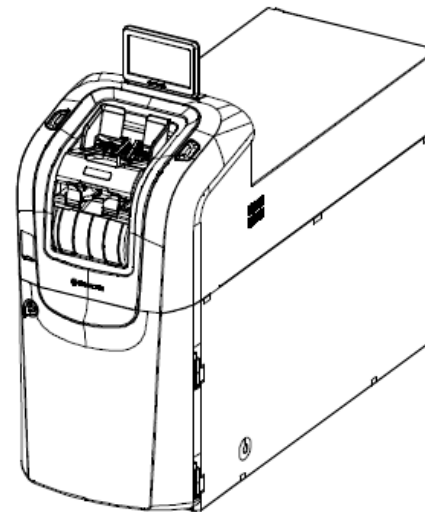
### III. Side Elevation



### IV. Plan View



### V. ISO View



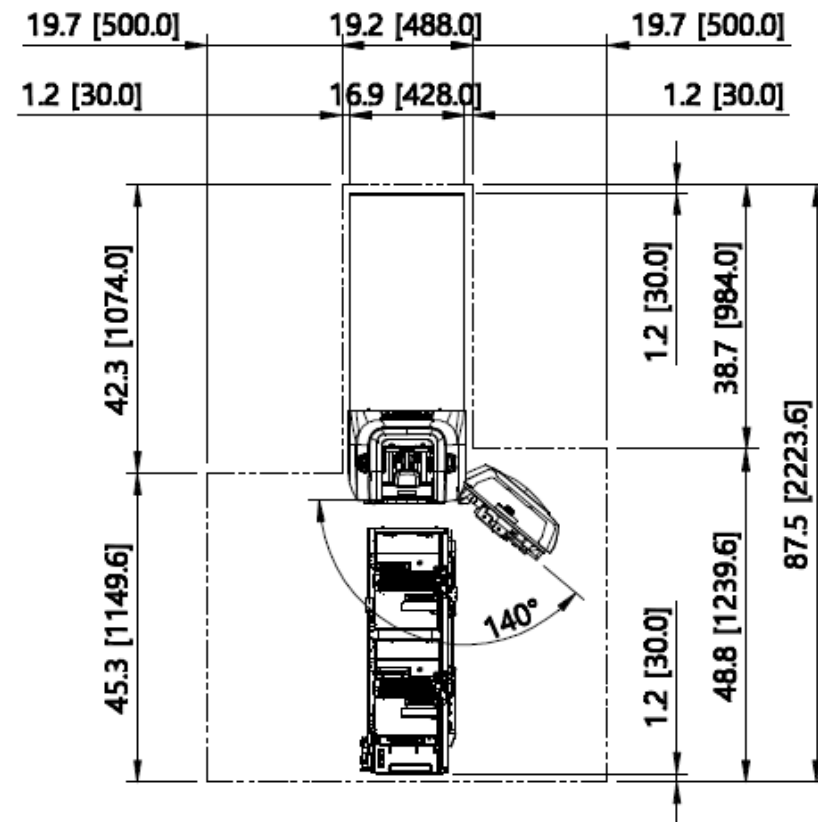
## Variant Details

### VI. Weight

925.9lbs (420kg)

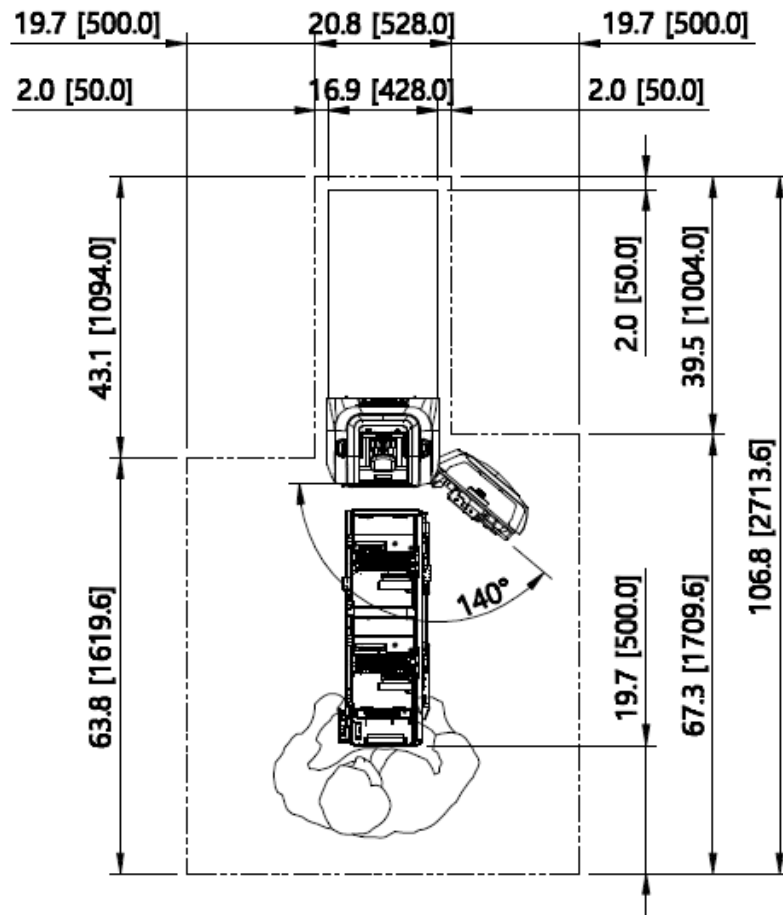
### Service Area

#### I. Minimum Installation

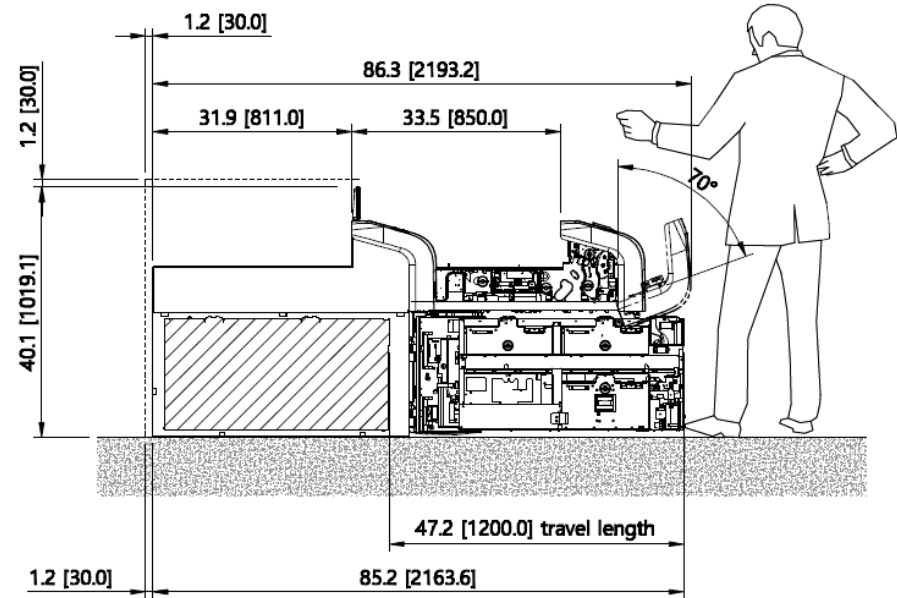


## Variant Details

## II. Recommended Installation



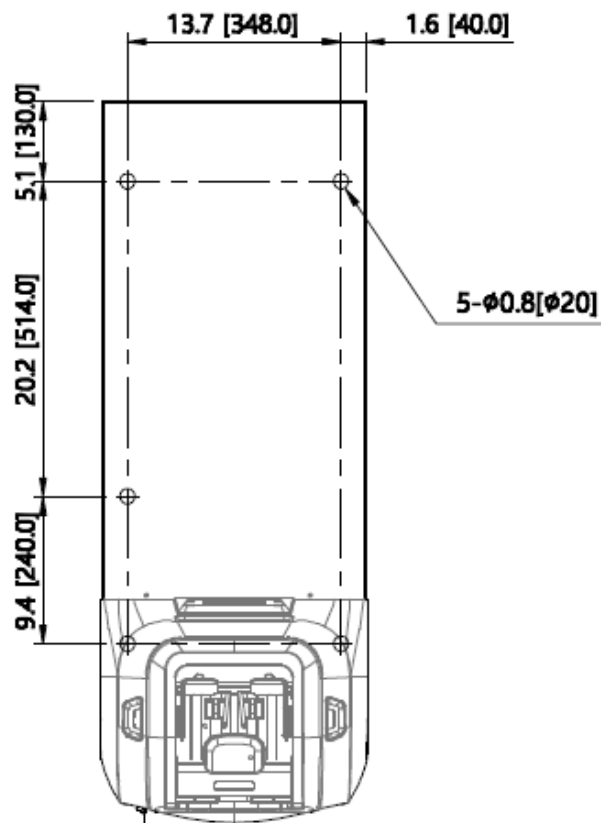
### III. Side Elevation



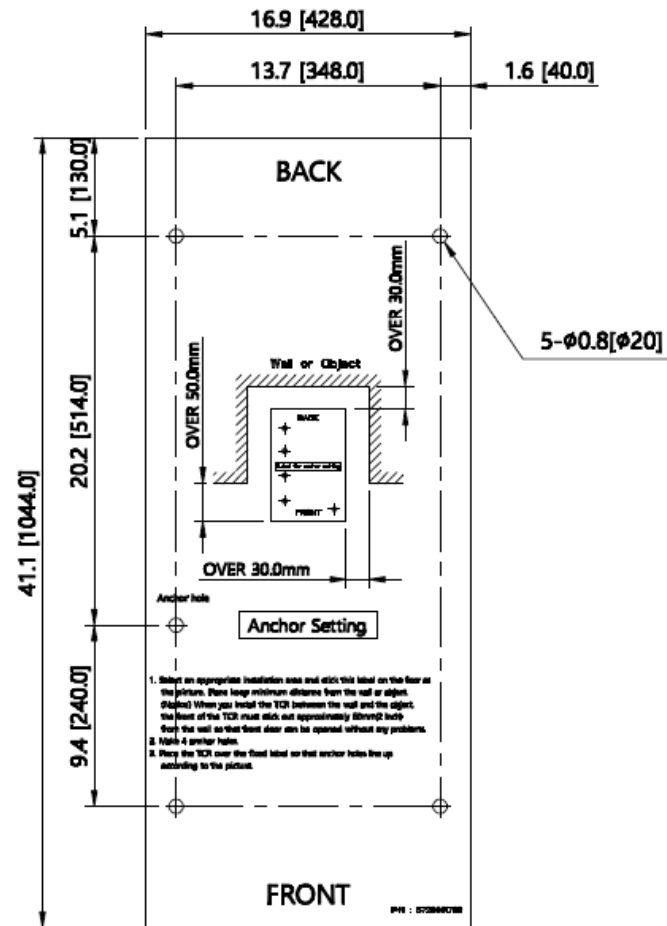
# Variant Details

## Installation Frame

### I. Bottom of TCR

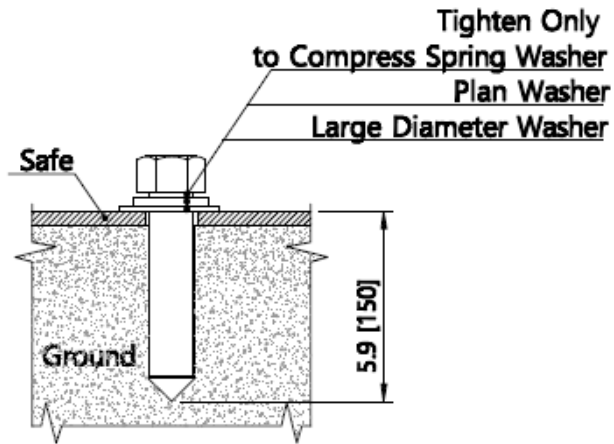


### II. Anchor Point



## Variant Details

### III. Anchor Detail



#### Bolts

- Type-either resin anchor or shield anchor bolts
- Size-5/8 in.(M16)
- Minimum Length-5.9 in.(150mm)
- Strength-high tensile(minimum ISO property class 8.8)

#### Washers

- Type-flat,steel(as per DIN7349 or equivalent)
- Size-5/8 in.(M16)
- Outer diameter-no greater than 1.58 in.(40mm)
- Minimum thickness-0.2in.(6mm)

## Power Requirements

### I. The power for the site

- 100~240Vac( $\pm 10\%$ ), Max 9A, 50/60Hz, Single-phase

### II. Power Consumption

- Idle (Min) : 152W
- Transaction (Max) : 440W

### III. Thermal Output

- Idle (Min) : 518.99 BTU/hr
- Transaction (Max) : 1502.35 BTU/hr

Note 1: "MS500EL must have a dedicated 20A Service or a Hyosung certified power conditioner"

Note 2: "Power backup is an electrical requirement for each MS500EL"

The power use depends on the number and type of devices present in the recycler/dispenser and the type of transaction the recycler/dispenser is performing