

# Auto Mold System Specification (ASM)

REV A

## 1. Standard

### 1-1 System standard

- Model : ASM IDEALmold R2R(1chases mold)

ITEM	Quantity	Note
System	1 set	80 ton press
Mid-plate	1 set	
Top chase /bottom chase	1 set	
PRP	1 set	

- Remarks: Mold chase can compensate substrate thickness +/- 0.06mm

### 1-2 System configurations

- 1) Machine time: 28-30 sec
- 2) LCD monitor: 12.1 Inch Touch Screen
- 3) Clamp pressure: 80Ton max  
(+/- 1% full scale around 0.8 ton)
- 4) Transfer pressure: 3 Ton Max (+/- 1% full scale around 0.03 ton)  
Set point = within Spec. actual is depending on tolerance spring compensation.
- 5) Mold temperature & pre-heater: (+/-5 degree C)

## **2. System**

### **2-1 General specification**

- . MTBA: 120 min.
- . Machine Time: 28-30 sec. (exclude process delay)
- . Clamp pressure: set +/- 5%
- . Transfer pressure: set +/- 5%
- . Mold Temp.: set +/- 5°C
- . Conversion Time: Max. 10 min. (\* for middle plate conversion only)

### **2-2 Film Loader system**

- 1) Reel to reel feeding system which is enable to expend 70mm width  
(With optional conversion kit)
- 2) Full automation and easy wheel loading feature
- 3) Vacuum cleaning for Protection from EMC particle
- 4) Detect function of presence of film
- 5) Tape orientation detection

### **2-3 EMC Loader system**

- 1) Full automatic EMC loading system
- 2) EMC chamber temperature control
- 3) EMC loading capacity: (~5 kg)
- 5) Automatic EMC pellet expiry reject function
- 6) EMC powder self-cleaning system
- 7) EMC pellet detect function (Size, Broken pellet)

### **2-4 Press/Mold part**

- 1) PGS Molding Technology
- 2) Vision inspection system to detect tape mis-load
- 3) Working pressure of transfer/clamp displayed and checked.
- 4) Film thickness compensation function
- 5) Mold chase total length= (350mm max, 2 reels)
- 6) Flexible plunger pitch
- 7) Material: ASP23, SST403
- 7) Pressure
  - Clamp: 80 tons max
  - Transfer: 3 tons max
- 10) Cycle time
  - Machine cycle time: 28-30 sec (exclude process delay)

- Transfer time: process dependent
- 11) Max Mold open size
- Top chase: day-light height 180mm
  - Bottom chase: day-light height 180mm
- 12) Cull discharged inside the equipment inside.

### **2-5 Communications**

- 1) Communication with host (LAN) (Optional)
- 2) Compatible with Bar code system (Optional)

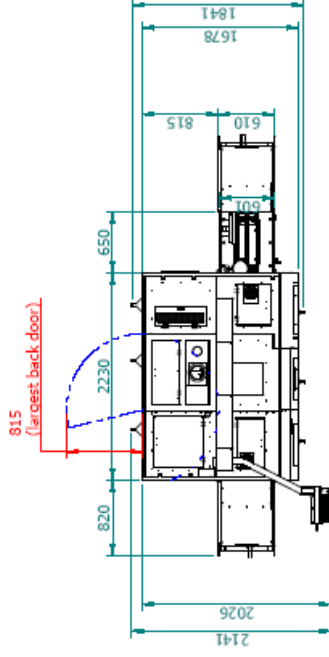
### **2-6 HMI Program (Soft ware)**

- 1) Windows XP
- 2) Programmable parameter and Parameter display system
- 3) Parameter/data filing system (Save, delete, Open etc.)

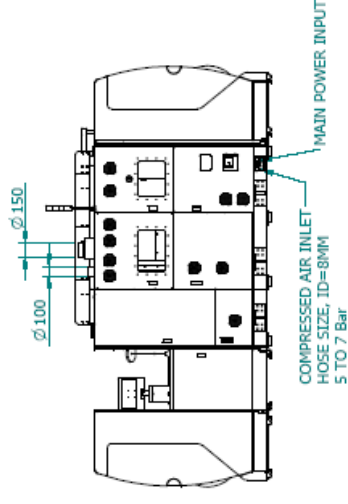
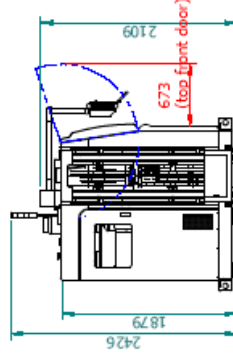
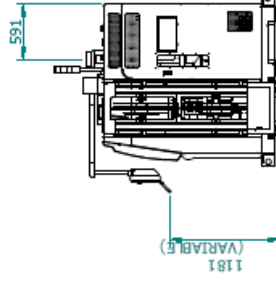
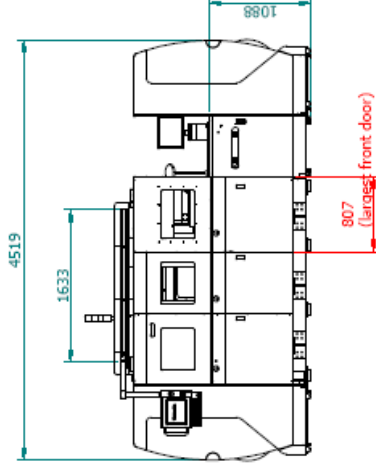
### **3. Utility**

VOLTAGE INPUT	: THREE PHASE, MULTI INPUT VOLTAGE
CAPACITY	: 440/415/380/220/208
FREQUENCY	: 50/60 Hz
CONSUMPTION	: 10 Kw (PEAK 20 Kw)
AIR PRESSURE	: 5-7 Bar
AIR CONSUMPTION	: 500 NL/Min
WEIGHT	: 4 TON (APPROXIMATED)
EXHAUST	: 300 CUBIC METRES/ Hr

# IDEALmold R2R OVERALL DIMENSION



- MANUFACTURER : ASM TECHNOLOGY SINGAPORE
- ADDRESS : 2 YISHUN AVE 7, SINGAPORE 768924
- TELEPHONE NO : (65)-67526311
- MODEL : IDEALmold R2R AUTOMOLDING SYSTEM
- SERIAL NO : \_\_\_\_\_
- MANUFACTURE DATE : \_\_\_\_\_
- VOLTAGE INPUT : THREE PHASE, MULTI INPUT VOLTAGE
- CAPACITY : 440/415/380/220/208
- FREQUENCY : 50/60 HZ
- CONSUMPTION : 10 Kw (PEAK 20 Kw)
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 UNLESS OTHERWISE SPECIFIED  
 ALL DIM ARE IN  
 ALL RESISTORS ARE IN Ω  
 ALL CAPACITORS ARE IN μ F  
 TOLERANCES:  
 ISO STANDARD

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DOWN BY : FIRST USED ON  
 INCURRED BY :  
 CHECKED BY :  
 ORIGINATOR :

ASM Technology Singapore

DESCRIPTION

SHEET : OF :  
 FILE :  
 DWG FILE :  
 SIZE : A3  
 PART NO. :

D.REV

P.REV