

# SCREEN PRINTING 생산 설비 카탈로그

LCD Window, Glass, Touch Screen - Producing Equipment



SINCE 1989  
(주) 옥일코퍼레이션  
WOOK IL CORPORATION., LTD.  
[www.wookil.net](http://www.wookil.net)

## Greeting from the president

### WELCOME TO WOOKIL CORPORATION., LTD.

#### **We are total support enterprise for screen printing.**

Since its founding in 1989, We've been making and providing screen Printing machines, Prepress equipments, many kinds of drying system for postpress in huge screen printing fields with unlimited applications to display manufactures, We are not only handing electronic-communication and semiconduct side in the IT industry but also selling fabric, inks, emulsions, squeegee etc. after importing them directly from famous overseas companies.

Rapid developments and changes in the industry structure of our society in the 21st century also request to change many things in the screen printing field. Previous analog process equipment has problem to meet small amount of production with various species in a short time. So, We are trying to improve digital process equipment that is suitable those requests.

As a sort of the advanced supply of all products, in 2004 May, We established a sister company

"WOOKIL SP TECH CO., LTD"

that produces various kinds of precision screen printing machines and the relevant machinery.

Your further interest and endless support will be the power of

"pioneer for new business area through printing technical development"

and We will always do our best to listen to the voice of customer's needs.

Thank you.



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## SCREEN PRINTING MATERIALS & EQUIPMENTS

- Screen printing machines
- Prepress equipments
- Postpress equipments

Machine Sales Division

- High quality stretching
- Precision stencil making
- Digital thickness measuring machine

Stencil Making Division

- Screen Inks
- Screen meshes
- Emulsions
- Other materials

Material Sales Division

- Special Materials Import
- Plant Equipment Export

Overseas Sales Division



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Sister company: **Wookil SPtech Co.,Ltd.**  
Produce 80 types of screen print-related equipments



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# CONTENTS

내용	페이지
• CNC 조각기 (Vertical CNC High Speed Machine )	1
• 홀 드릴기 (Hole Drilling Machine)	2
• 홀 펀칭기 (Hole Punching Machine)	2-1
• 자동 필름 절단기 (Automatic Roller Full Cutting Machine )	3
• 보호테이프 절단기 (Protect Tape Cutting Machine)	3-1
• 아크릴 재단기(Acryl Cutting Machine)	4
• 평면 반자동 스크린인쇄기 (Semi Automatic Screen Printing M/C)	5
• 화상방식 반자동 스크린 인쇄기 (Vision Type Semi Auto Screen Printing M/C)	6
• 화상인식 반자동 스크린 인쇄기 (Automatic Roller Full Cutting Machine)	6-1
• 반자동 스크린 인쇄기(그라스 전용) (Semi Automatic Screen Printing M/C)	6-2
• 평면 스크린 인쇄기 (Fat Screen Printing Machine)	6-3
• 패드 인쇄기 (Pad Printing Machine)	6-4
• 먼지 제거기 (Cleaning Machine)	7
• 수동 흡착기 (Manuel Screen Printing Machine)	8
• 박스형 건조기 (Box Oven WISP-1BO)	9
• 박스형 건조기 (Box Oven WISP-2BO)	10
• 원적외선 건조기 (I.R Dryer)	11
• 복합 건조기 (I.R & U.V Combination Dryer)	12
• U.V 건조기 (U.V Curing M/C)	13
• 라미네이팅기 (Laminating Machine)	14
• 멀티 라미네이팅기 (Multi Laminating Machine)	14-1
• 자동 스퀴지 연마기 (Automatic Squeegee Sharpener)	15
• 기계식 견장기 (Mechanical Stretching Machine)	16
• 자동 유제 도포기 (Automatic Emulsion Coating M/C)	17
• 제판 노광기 (U.V Box Machine)	18
• 스크린판 건조기 (Screen Dryer)	19
• 자동 스크린 제판 현상기 (Automatic Screen Wash-Out Machine)	20
• 수동 제판 현상기 (Manual Stencil Developing Machine)	20-1
• 자동 스크린 제판 탈막기 (Automatic Ultra Remover Machine)	21
• 진동식 잉크 교반기 (Vibration Type Ink Mixer)	22
• 잉크 교반기 (Ink Mixer)	23
• 디지털 두께 측정기 (Digital Thickness Measuring Machine)	24
• 텐션 게이지 (Screen Tension Gauge)	25
• 검사대 (Inspect Table)	26
• 멀티부식 세정라인 (Multi Etching & Washing Line)	27
• 원단 세척기 (Combi sheet degreasing & Washing M/C)	28
• 최종 제품 세척기 (Final Washing Machine)	29
• 고청정 가습기 (Clean Humidification Equipment)	30
• 열 성형기 (Hot Forming Machine (Only Acrylic Plate))	31

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# 평면 반자동 스크린인쇄기

## Semi Automatic Screen Printing M/C

### WISP-S Series



Clamp



Position Table



Swing  
Device



Control  
Panel



### Characteristic

- With squeegee running controlled by air pressure mechanism, printing pressure is strong and uniform (suitable for printing a high viscosity ink)
- The change of stencil is easily handled by clamber of air pressure mechanism, thus working arrangement time is saved.
- Built-in high & low controller of printing table by digital mode.
- Safety system for emergency stop is attached to protect printers from the accident.
- By the adoption of double table system, speedy and precise registration is facilitated.

### Specification

- Model : WISP-5060S(WISP-6080S, WISP-90130S)
- Dimension : 830X1480X1360(970X1570X1360,1470X1800X1360)mm
- Max. Printing Size : 500 X 600(600X800,900X1300)mm
- Table Size : 700X700(800X900,1100X1400)mm
- Max. Printing Speed: 1100(1000,900)Cycle/h
- Peel Off : 0~25mm
- Squeegee Speed : 0.2~800mm/sec
- Table Positioning : ±10mm
- Air Source: 4~6 kg/cm<sup>2</sup>
- Elec. Source : 1.5Kw(1.9Kw,2.5Kw)
- Weight : 520(570,720)kg





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# 화상방식 반자동 스크린 인쇄기

Vision Type Semi Automatic Screen Printing M/C

WISP-4040,5060VSP

- High quality printing by maintaining evenness of table, low noise & vibration.
- Advanced numerical control function.
- Even a non-experienced worker can be operate the machine because cleaning & Anti Static electricity functions are added.



## Characteristic

- One-touch screen fixing method is available to use easily.
- Built-in CCD camera allows you to check the print through monitor.
- Servo motor for squeegee unit drive allows to control accurate speed.  
Low vibration because start/stop is operated softly.
- It is simple to change the up & down movement and angle of the and squeegee.
- It offers high quality prints by precise numerical control.

## Specification

- Model : WISP-4040VSP (WISP-5060VSP)
- Dimension : 2180 x 1100 x 1760(H)mm
- Max. Printing size : 400X400 (500X600)mm
- Max. Frame size : 800X800 (900X1000)mm
- Table size : 600X600 (600X800)mm
- Max. Printing size: 450/H(400/H)
- Squeegee Angle : 60° ~ 90°
- Elec. Source: 380V x 3ph x 2.7kw
- Peel-off: 0~10mm
- Table Positioning : X-5, Y-5,
- Camera Positioning : X,Y-5mm
- Camera View : 20X





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# 화상인식 전자동 스크린 인쇄기

Vision Type Fully Automatic Screen Printing M/C

WISP-4050VFT, 5060VFT



- Table position repeatability accuracy: 0.01mm
- High quality of products can be acquired with an excellent flatness of printing table and low vibration and noise.

## Characteristic

- A position align of printing stock is performed automatically by using Vision System.
- Easy to use and data based of printing process by Touch Screen Control.
- There are hardly errors during operation by digital pressure sensor.
- Servo motor allows to control accurate positioning and high quality.

## Specification

- Model : WISP-4050VFT (WISP-5060VFT)
- Dimension : 3250 x 1190 x 1760(H)mm, 36200 x 1290 x 11760(H)
- Max. Printing Size : 400X500 (500X600)mm
- Max. Frame Size : 800X800 (900X1000)mm
- Table Size : 550X700 (600X800)mm
- Max. Printing Speed : 350 cycle/H(340 cycle/H)
- Printed Matter Thickness : 0.05 – 20mm
- Elec. Source: 380V x 3Φ x 2.7kw



# 반자동 스크린인쇄기(글라스전용)



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## Semi Automatic Screen Printing M/C (only Glass)

### WISP-S Series



Clamp



Position Table



Swing



Operation Panel



### Characteristic

- Only for window glass.
- Fix the products with table align system.
- Can be printed replacing JIG according to size and shape of products.
- Table height adjustment device by digital mode.
- Can be operated in vacuum pad and grip mode according to the products.
- Printed matter can be discharged rapidly by an exhaust equipment.

### Specification

- Model : **WISP-4060SG**
- Dimension : 750X1465X1450(H)
- Max. Printing Size : **400X600mm**
- Table Size : **700X700mm**
- Max. Printing Speed: 1200 Cycle/h
- Work Thickness: 0~50mm
- Table positioning Adjustment:  $\pm 10\text{mm}$
- Elec. Source : 380VX3 $\Phi$ X1.5Kw
- Air Source : 6 kg/cm<sup>2</sup>
- Weight : 450kg





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# 먼지 제거기

## Cleaning Machine

### WISP-CM650D



#### Characteristic

- Cleaning & Anti static function
- Dive direction control system
- Automatic reciprocating cleaning system

#### Specification

- Dimension : 1100 X 860 X 1124(H)mm
- Material Width : 650mm
- Material thickness : 0.1 ~ 2.0mm
- Speed : 0 ~ 12M/min
- Elec. Source : 220V X 1PH X 90W





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# 수동 흡착인쇄기

## Manual Screen Printing Machine

WISP-6080M



### Characteristic

- Special materials (AL Honeycomb) for flatness and durability with table.
- Precise pint alignment by using precision screw knob.
- Vacuum on/off

### Specification

- Dimension: 1100 X 950 X 1150(H)mm
- Max. printing size : 600 X 800mm
- Table size : 800 X 900mm
- Elec. Source: 220V X 1Ph X 0.4Kw







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# 자동 필름 절단기

## Automatic Roller Full Cutting Machine

WISP-70RFC



### Characteristic

- Input every different length size at 0.1mm unit which you want by servo motor.
- Anyone will able to work easily in order by using air check and touch control panel.

### Specification

- Dimension : 1000 X 1800 X 1350(H) mm
- Elec. Source : 380V X 3PH X 1.3Kw
- Cutting width / Precision : 700 /  $\pm 0.1$ mm





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# 박스형 건조기

Box Oven

WISP-1BO



## Characteristic

- It is easy to control temperature through temperature controller.
- Low consumption of electricity with high-scale insulation
- All inside parts were made of stainless materials.

## Specification

- Dimension : 1695 X 1550 X 2350(H) mm
- Heater : Fin Heater
- Max. Temperature : 180°C
- Belt width: (220/380V, 3px) : 1HP X 1EA
- Elec. Source : 380V X 4PH X 18Kw X 35A
- Temp. Control : 940 X 1040 X 1650(H) mm



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# 박스형 건조기

Box Oven

WISP-2BO



## Characteristic

- Temperature distribution is excellent by accurate temperature control system.
- Low consumption of electricity with high-scale insulation
- All inside parts made of Stainless materials

## Specification

- Dimension: 1610 X 1660 X 2350(H)mm
- Inside size: 1240 X 1500 X 1650(H) mm
- Fin Heater
- Max. Temperature : 180°C
- Circulating fan(220/380V, 3상) : 1Hp X 2EA
- Elec. Source: 380V X 4PH X 26Kw X 50A



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# 원적외선 건조기

I.R Dryer

WISP-I/R 1520-16M



## Characteristic

- Extreme infra radiation system of I.R Dryer conveyor, equipped with cooling system where materials are dried.
- Possibly uniform heat inside on control system with infrared radiation control, inter heat circulation system and energy saving system. (Air conditioner is optional.)
- Belt wrap prevention device.

## Specification

- Dimension : 16000 X 1520 X 1570(H)mm
- Belt width & material : 1000mm .Teflon Mesh Belt
- Max. Temperature : 150°C
- Elec. Source : 380V X 3Ph X 85Kw







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# 복합 건조기

I.R & U.V Combination Dryer

WISP-IUCD1260



## Characteristic

- Can be use separation, combination of both far-infrared and ultraviolet rays, thus it's excellent for economy.  
Strengthen adhesion when curving with ultraviolet.
- Installed with Air conditioner, it provides fast process of working by Cooling the printed material.
- It is very effective according to the needs of customer by light projecting height control.

## Specification

- Dimension : 6000 X 1640 X 1570(H)mm
- Drying temperature : Max 120 °C
- Lamp : Metal 12Kw X Lamp 2
- Elec. Source : 220(380)V X 3Ph X 37Kw





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# UV 건조기

## UV Curing Machine

### WISP-UVCM56



#### Characteristic

- High productivity by fast curing time.
- Easy to open/shut Lamp housing
- The quantity of lighting is controllable according to characteristic of printed materials.
- Height of light is adjustable.
- The conveyor speed is controllable.

#### Specification

- Model : WISP-UVCM56 (WISP-UVCM72)
- Dimension : 2400x1020x1980mm (2400x1300x1980mm)
- Belt Width : 600mm (850mm)
- Ace Length : 560mm (720mm)
- Lamp Capacity : 5.6Kw (7.2Kw)
- Lamps : Mercury Lamp 2, Metal Halide Lamp 1
- Elec. Source : 220(380)V\*3ph





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# 라미네이팅기

## Laminating Machine

### WISP- 70LMD



#### Characteristic

- Taping machine is for protection where cover the outer materials that printed.
- double-side type
- Pressure adjustment method is optional.

#### Specification

- Width : 700 mm
- Speed : 20 m/min
- Pressure : Air Cylinder
- Elec. Source : 220V X 1PH X 0.5Kw
- Air Source : 4 ~ 6 Kg/cm<sup>2</sup>





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# 멀티 라미네이팅기

## Multi Laminating Machine

WISP- 50MLM



### Characteristic

- Multi laminating is possible simultaneous operation.
- Changing tape is simple by using Air Check.
- Equipped with Static Eliminator.
- Pressure adjustment method is the option.

### Specification

- Width : 500 mm
- Speed : 20 m/min
- Pressure : Air Cylinder
- Roller diameter : 124mm
- Elec. Source : 220V X 1PH X 0.5Kw





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# 자동 스퀴지 연마기

## Automatic Squeegee Sharpener

WISP-100SS/ WISP-150SS



Squeegee Sharper Wheel



Squeegee Sharper Panel



### Characteristic

- Easy fixing and removal squeegee by one touch.
  - Any material type of squeegee can be buffed.
  - Sharpening quantity can be controlled by manual.
  - Vias controlled.
- \* Special specification made to order.

### Specification

- Model : WISP-100SS (WISP-150SS)
- Dimension : 1445 X 540 X 1350(H)mm (2000 X 540 X 1350)
- Max. Sharpening Length : 1000 (1500)
- Weight : 160Kg(175Kg)
- Elec. Source : 380V X 3PH X 1.3KW





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# 자동 유제 도포기

Automatic Emulsion Coating M/C

WISP-1010CM



## Characteristic

- Required thickness of emulsion coating can be acquired by controlling the pressure of contact of bucket to screen.
- Fixed speed of coating due to high quality motor and timing belt.
- Equipped with speed controller & Counter function
- You can place any order such (one-side & double-side).

## Specification

- Dimension : 1720 X 720 X 1820(H)mm
- Max. Frame Size: 1000 X 1000mm
- Coating speed: 0.1~5m/min
- Elec. Source: 220V X 1Ph X 0.2KW





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# 제판 노광기

## Exposure Machine

WISP-1313EU/1013EU



### Characteristic

- Light openness method : Rapid start
- Cooling type : Air-Cooled
- UV Intensity : Light integrating sensor
- Vacuum method is the option.

### Specification

- Dimension : 1450 X 1400 X 1150(H)mm
- Opening & Shutting method
- Light source : G/L 5Kw / G/L 3Kw
- Elec. Source: 220V X 1Ph X 5.5Kw X 50A
- Operation current : 40A, Latching current : 20A





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# 스크린 판 건조기

Screen Dryer

WISP-SD950S



## Characteristic

- Temperature adjustor of E.G.O type
- SUS pipe 12.7 $\varnothing$  is adopted for inner part.
- Drying method: Hot-air
- Heater : Infrared ray 700W X 4EA
- Fan : 50w X 2EA

## Specification

- Dimension : 700 X 1125 X 1600(H)mm
- Max. Frame size : 950 X 950mm X 6EA
- Elec. Source: 220V X 1PH X 3Kw





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# 자동 스크린 제판 현상기

## Automatic Screen Wash-Out Machine

WISP-ASWM1010



### Characteristic

- It's very easy to set and operate and you can use both manual & automatic.
- Water for washing screen can be saved as sprayed water circulates continuously.
- It is very suitable for developing fine pattern as water is sprayed to both sides of screen simultaneously.
- After washing out Air knife type jet dryer is operated automatically to shorten drying time.
- Control of water pressure is capable according to type of screen.

### Specification

- Dimension : 2187 X 950 X 2140(H)mm
- Max. Frame Size : 1000 X 1000
- Water-out nozzle :
  - A) Circulation water 2 line
  - B) Clean water 1 line
- Elec. Source : 380V X 3PH X 5.5KW





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# 수동 제판 현상기

## Manual Stencil Developing Machine

WISP-MSD100S



### Characteristic

- Attached with high pressure spray device.
- Watering usage and water pressure adjustor.
- Performance/inspection lighting equipment.

### Specification

- Dimension : 1400 X 820 X 1980(H)mm
- Max. Frame Size: 1000 X 1000mm
- Pump Power : 1Hp
- Elec. Source : 220V X 1PH X 0.9Kw





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# 자동 스크린 제판 탈막기

Automatic Ultra Remover Machine

WISP-AURM1010



## Characteristic

- It is very simple to set and operate.
- It is excellent for productivity by supersonic and designed structure which considers your convenience.
- Cleaning can be controlled according to type of operation.
- All inside parts were made of SUS to protect corrosion.

## Specification

- Dimension : 3740 X 1000 X 2530(H)mm
- Max. Frame Size : 1000 X 1000
- Material : SUS 304
- Elec. Source : 380V X 3PH X 2.0KW
- Oscillator : 1200W
- Vibrator : 20KHZ





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# 진동식 잉크 교반기

## Vibration Type Ink Mixer

WISP-VIM5L



Fixing device



### Characteristic

- Can be used for low & high viscosity materials.
- Mixing time and speed can be adjustable.
- You can avoid cleaning, for it doesn't use impeller.
- Special specification made to order.

### Specification

- Dimension : 480 X 480 X 1086(H)mm
- Max. Mixing Capa. : 5L
- Max. Frequency of vibration : 1750/min
- Elec. Source : 220V X 1PH X 0.5KW
- Air Pressure : 4 ~ 6 Kg /  $\text{cm}^2$



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# 잉크 교반기

Ink Mixer

WISP-IM5L



## Characteristic

- Very efficient mixer for ink or sensitizing liquid with emulsion.
- Mixing time and speed controlled.
- Equipped with buzzer for mixing time.

## Specification

- Dimension : 300 X 300mm x 720(H)mm
- Mixing Capa. : 5L
- Elec. Source: 220V X 1PH X 0.4KW(outlet)







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# 디지털 두께 측정기

## Digital Thickness Measuring Machine

WISP-DTMM45



### Characteristic

- Measuring machine by one touch.
- License number of new device : 0260096
- Design license number: 0301007
- Zero-Reset function.
- Data input-output available.
- Data printing available.

### Specification

- Dimension: 800 X 350 X 450(H)mm
- Resolution capacity : 0.001mm
- Measuring range : 0 ~ 48mm
- Elec. Source : 220V X 1PH X 0.1KW





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# 텐션 게이지

## Screen Tension Gauge

WISP-STG75NA



STG75D



STG80A



STG75NA

### Characteristic

- Resolution : 0.01mm
- Newton/mm
- STG80A : SUS Stencil only

### Specification

- Dimension : 56 X 100 X 180(H)mm





## Inspect Table

### WISP-SIT90/WISP-5060IT



WISP-SIT90



WISP-5060IT

#### Characteristic

- It is used to check printed materials finally.  
\*Special specification made to order.

#### Specification

- Dimension : 880 X 1100 X 500(H)mm
- Material : SS41, Coating with ivory
- Elec. Source : 220V X 1PH X 0.2KW



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# 멀티부식세정라인

Multi Etching & Washing Line

WIDS-MEW2L



→ The front

Etching slot →



## Characteristic

- Two kinds of etching can be used same time in a chamber.
- Adjustment of the upper and lower side of brush.

## Specification

- Dimension : 7500 X 2150 X 1365(H)mm
- Max. Width : 500mm(1000mm)
- Elec. Source : 380V X 3PH X 25KW





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# 원단 세척기

Sheet Rinse & Washing M/C

WIDS-SRW-R2W3



## Characteristic

- It is used for surface washing when you wash and etch at the same time.
- Excellent absorption (pore size: 5~10 $\mu$ m of hardening: within 10), Ruby cell roller with heat-resisting (110°C)
- It is designed to protect roller hardening in a dry condition due to excellent softness and absorption. (Ruby Cell roller is optional.)

## Specification

- Dimension : 4050 X 1020 X 1150(H)mm
- Max. Washing Width : 700mm
- Elec. Source : 380V X 3PH X 15KW





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# CNC 조각기

## Vertical CNC High Speed Machine

### U6M-1500Q Series



#### Specification

- A monolithic column construction integrated with the base helps the system to maintain high rigidity and high precision.
- This system is designed to inhibit or absorb vibration which may occur during high-speed processing stability and to provide stability against transformation and thermal displacement.
- As a side lock type of precision holder is used, the setting and tool exchange time can be shortened and precision is kept high and constant.
- A simultaneous five-axis ATC device is continent to set and control as placed on the front size.

#### Characteristic

- Dimension : 2580X1780X1920(H)mm
- Weight : 5,500Kg
- Elec. Source : 380X3ØX25Kw





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# 홀 드릴 기

## Hole Drilling Machine

DR-2004



### Characteristic

- CCD Guide hole drilling machine  
: Automatic guide hole drilling machine such as membrane S/W, name plate key pad, LCD window, EPC for high speed and precision

### Specification

- Model : DR-2004
- Dimension : 910 X 810 X 1370(H)mm
- Thickness range : 0.1 ~ 4.0 mm
- Accuracy : +/-0.02 mm
- Drilling speed : 1 hole / second
- Drilling size : 1.0 ~ 5.0 mm
- Target size : 0.3 ~ 4.0 mm
- Spindle speed : 30,000rpm / 60,000rpm (Optional)
- Weight : 250Kg
- Elec. Source: 220V\*1ph\*50/60Hz





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# 홀 펀칭기

## Hole Punching Machine

PR-2003



### Characteristic

- Automatic CCD target punching machine with high precision and speed under servo motor control system.
- Applications: Membrane overlays (nameplate), PET Film, Flexible PCB

### Specification

- Model : PR-2003
- Dimension : 864 X 810 X 1395(H)mm
- Material Thickness : 0.08 ~ 1.0 mm
- Accuracy :  $\pm 0.02$  mm
- Punch Speed : 0.55sec/pcs
- Punch Size : 0.8 ~ 5.0 mm
- Target Size : 0.3 ~ 4.0 mm
- Operation : Mouse + Control Pad
- Weight : 250Kg
- Elec. Source : 220V\*1ph\*0.2kw\*50/60Hz





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# 열 충격기

## Thermal Shock Tester

OST-7040-2ZE



### Characteristic

- This is reliability equipment is designed to measure state of change giving extreme "shocking" to finished prints.
- Used for Plastic, rubber, paper, wood, metal and nonmetal etc. and designed precisely control from a low to high temperature uniformly.

### Specification

- Power : 380V \* 3PH \* 18KW
- In size : 300 \* 300 \* 300(H)mm
- Outsize : 1640 \* 1390 \* 1800(H)mm
- Temp. Range : -40°C ~ 150°C
- Type : 2 Zone
- Heater : AC380 \* 3PH \* 6KW
- Refrigerator : 3HP \* 2SET





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# 항온 항습기

Temp. & Humid. Chamber

OSC-4050 PTH



## Characteristic

- Perfectly temperature & humidity control for any kinds of materials such as plastic, rubber, paper, metal and nonmetal etc.
- Designed to control temperature & humidity uniformly.
- Fan which has high efficiency function for precise temperature & humidity range
- Safety functions
  - Leakage breaker for power supply.
  - Over-temperature protector.
  - Automatically control the water level.

## Specification

- Power : 380V \* 3PH \* 8KW
- Dimension : 500 \* 500 \* 600(H)mm
- Outsize : 1020 \* 940 \* 1500(H)mm
- Temp. Range : RT ~ +120°C
- Humid. Range : 30% ~ 98% R.H
- Heater : AC380 \* 3P \* 2.4Kw
- Refrigerator : 0.5PH \* 1SET





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# 염수 분무 시험기

Salt Spray Tester

OSS-3590S



## Characteristic

- The tester is for checking corrosion-resistance of products after treatment, such as metal, organic film and non organic film etc.
- Water spray method
- Temperature range : +5°C ~ +50°C
- Timer, buzzer and temperature digital controller

## Specification

- Power : 220V \* 1PH \* 6KW
- Inner size : 900 \* 600 \* 600(H)mm
- Outer size : 1600 \* 750 \* 1300(H)mm
- Temp. Range : RT ~ +35°C
- Pressure : 2 ~ 4kgf/cm<sup>2</sup>





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# 내산성 테스트기

## Water Bath

### CT-PWB



#### Characteristic

- Precise temperature control by Digital P.I.D controller
- Heater is located under the bath, thus it's available to maintain uniform temperature and in a chamber.
- Used special heater to protect corrosion by high acidic.

#### Specification

- Dimension : 700 X 370 X 280(H) mm
- Type : Natural Circulation Type
- Temperature range : - Amb+5°C ~ 80°C
- Controller : Digital P.I.D controller
- Capacity : 22 Liter
- Heater Capacity : 1,000W
- Elec. Source : 220V X 1PH X 1KW





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# PH 농도계

## PH Meter

### PH06



#### Characteristic

- Microprocessor
- Calibration up to 3 point (ph 4,7,10)
- Hold function is added.
- Include automatic temperature compensation and temperature display.
- Automatic shutoff

#### Specification

- Dimension: 75 X 155 X 50(H) mm
- Range : 0.00~14.00pH / 0.0~100°C -1,000~1,000mV
- Solution : 0.01pH / 0.1°C / 1mV
- Measuring range :  $\pm 0.01\text{PH}$  ,  $\pm 0.5^\circ\text{C}$  ,  $\pm 2\text{mV}$
- Elec. Source : AAA Type Battery X 4

## Salt Meter

### SK-10S



#### Characteristic

- Easy to use and quick to read
- Portable and lightweight

#### Specification

- Dimension : 60 X 20 X 145(H) mm
- Electric resistance
- Measuring range : 0.0 ~ 10.0%
- Resolution : 0.1%
- Elec. Source: 9V
- Measuring range : 0~1%(within  $\pm 0.1$ ), 1%~(within  $\pm 0.2$ )  
2%~(within  $\pm 0.3$ ), 3%~(within  $\pm 0.5$ ),  
5%~(within  $\pm 1$ ), 8%~(within  $\pm 1.5$ )



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# 낙구 시험기

## Falling Ball Tester

WIDS-FBT36



### Characteristic

- The falling impact tester is used for evaluating the impact strength of materials.
- Place the printed specimen and drop a ball at selected height.
- Falling height of above standard made to order.

### Specification

- No electric supply needed.
- Falling height : 0 ~ 400 mm
- Falling interval : 1mm
- Weight of ball : 36g
- Elec. Source : 190 X 240 X 520(H) mm
- Weight: 7Kg







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# 통전 시험기

## Insulation Resistance Tester

HIOKI-3454



### Characteristic

- Auto-Power Save
- This tester is to measure electric resistance and insulation of materials.

### Specification

- Dimension : 175 X 148 X 56(H) mm
- Elec. Source : 1.5V X 4 EA
- Weight : 530g



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# 연필 경도 시험기

## Pencil Hardness Tester

WIDS-PHT1



### Characteristic

- This machine is a tester standardized for measurement of hardness of different materials.

### Specification

- Dimension : 350 X 160 X 270(H) mm
- No Electric supply needed.
- Thickness angle : 45°
- Weight of balls: 500g, 1Kg
- Weight : approx. 8Kg



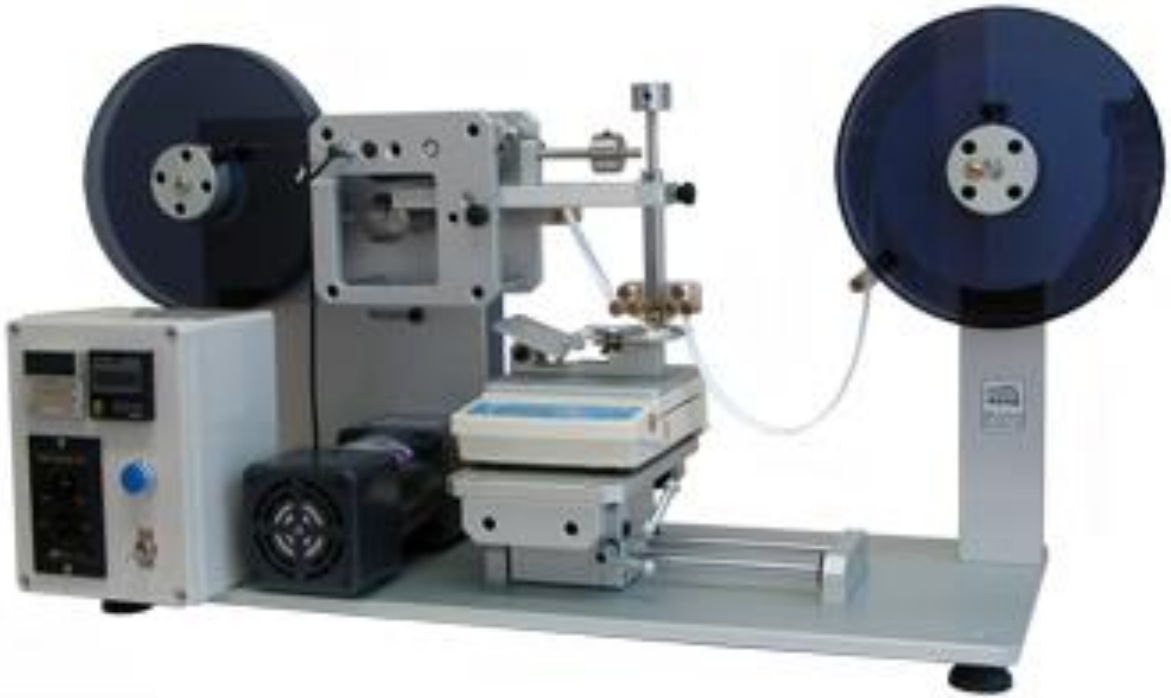


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# RCA 시험기

## RCA Test Machine

WIDS-RCA275



### Characteristic

- It is applicable in a abrasion tester of plastic, rubber, film , metal and non metal etc. by paper tape.
- Load : 0 ~ 300g
- The number of times is adjustable.(0 ~ 9999)
- rpm is adjustable.

### Specification

- Dimension : 850 X 470 X 450(H) mm
- The number of test : 0 ~ 9,999
- Test speed: 0 ~ 60rpm
- A balance weight : 50g ~ 300g
- Elec. Source : 220V X 1PH(outlet) X 50Hz
- Machine weight : Approx. 30Kg



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# 자외선 시험기

## Ultraviolet Tester

### CT-UVT



#### Characteristic

- It's for Ultraviolet exposure test emitted plastic like cell-phone and car parts.
- ON/OFF switch
- Test timer by 500 hours
- The distance of UV lamp and sample is adjustable.(13mm)  
Used Japanese Sankyo Denki Ultraviolet lamp

#### Specification

- Dimension : 680 X 300 X 670(H) mm
- UV Lamp : 15W, UV-B Type
- Distance with sample: 200mm (Distance control is available : 13mm)
- Elec. Source : 220V X 1PH(outlet)





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# XRF 성분분석기

X-ray fluorescence spectrometer

UDX- 300S



## Characteristic

- Optimized analyzer for various elements including RoHS harmful stuff.
- Device for X-Y control is added.
- Precise and safe analysis by high voltage power supply.
- Able to analyze liquid, powder and solid etc.
- Analyze Cr6, coating thickness, various elements (Optional)

## Specification

- Dimension: 550(W) x 450(D) x 450(H) mm
- Element range : S16 ~ U92 (76 elements)
- Detection limitation : Cd/Cr/Hg/Br-under 2ppm, Pb-under 5ppm
- Analysis time: 120 ~ 200 seconds
- Detector resolution : 149eV
- Size of test room: 300(W) x 300(D) x 100(H) mm
- Types of samples: liquid, powder, solid
- Type of detector : Pin diode semiconductor







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# 내마모성 테스트기(R/T)

## Rubbing Tester

### WIDS-RT1S



#### Characteristic

- Used for rubbing test like plastic, rubber, film and metal according to various applications
- rpm & the number of times control are possible.(up to 999)  
Sample angle & reciprocating control are possible,
- Reset & Hold function

#### Specification

- Dimension : 530 X 330 X 500(H) mm
- Distance of reciprocation : 0 ~ 100 mm
- The number of test: 0 ~ 9,999
- Test speed : 0 ~ 60 rpm
- The number of axis: 1
- Elec. Source : 220V X 1PH(outlet) X 50Hz
- Machine weight :approx. 24Kg
- Weight : 500 / 750 / 1000 g





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# 3차원 측정기

CNC Vision Measuring System

Sprint CNC200 with Basic-X



## Characteristic

- Operation using software of eBx full version for automatic measurement
- LED same axle type, flood light, Vector light
- Color camera of high resolution and 6.5:1 auto optical zoom
- Magnification: 33~176x
- XYZ stage of precise bearing with 0.5 $\mu$ m linear scale

## Specification

- Measuring range : 200 X 150 X 150(X,Y,Z)mm
- Elec. Source : 220V X 1PH
- Weight : About 110Kg

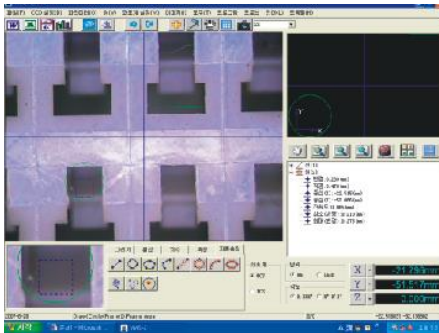


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# 2차원 측정기

## 2D Vision Measuring System

SVM-2515



### Characteristic

- Designed human engineering system
- Automatic detection and date numerical analysis
- DXF File input/output with Auto-CAD compatible
- Made of high precision granite
- LED lamp adjustment by button
- Z axis adjustment by control wheel
- The unit of worktable and PC cabinet

### Specification

- Resolution: 0.001mm
- Magnification rate : 12X ~180X
- 1/2"Color CCD camera
- Operating distance (W,D) : 90mm
- Precision: (4+L/300)um
- Max. Load: 30Kg
- Elec. Source: 200V, 50Hz, 10A





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# 인장 압축 시험기

Digital Force Gauge & Stand

DS2-500N & MX-500N



## Characteristic

- Gauge
  - Precision: Within  $\pm 0.2\%$  F.S
  - Measuring unit : Exchange system of N, kgf(gf), lb(oz)
- Stand
  - Semi-Automatic type
  - For both Tensile and Compression tester
  - Setting up the section with upper/lower limit switch.
  - Motor backlash function

## Specification

- Dimension : 214 X 428 X 574(H)mm
- Max. Capacity : 2kgf
- Min. display : 1gf
- Elec. Source : 220V X 1PH(Outlet)





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# 크로스커터

Cross Cutter

CT-CC1



## Characteristic

- Cross-Cut tester is a tool for testing adhesion of paint and coating on substrate. Cross-Cut test is drawn on sample in horizontal and vertical direction. Squares are cut on the sample. Try to tear off squares from the sample by adhesive tape. Adhesion is assessed and ranked by amount of squares torn off.

## Specification

- Interval of cutting blade : Cross-Out Test 1mm
- The number of cutting interval: 11 strings



# UV 광량계



## UV Integrator

### UVI-D



### Characteristics

- UV-Curing Systems, UV-Dryer, UV-Exposure systems and other graphic applications.
- The integrator passes on a transportation belt through the radiation zone of the UV plant
- The sensor is located on one side of the device which registers UV radiation in the spectral range of 250-410nm.
- Special filters and photo diodes absorb the visible and IR-range of the radiation, so that only the required is measured.

Model	UVI-D		
Display	6-digit LCD-display 0-999999 mj/cm <sup>2</sup>	Operation Hours	approx. 10,000 hours
Spectra Range	250~410nm	Elec. Source	3, 6V Lithium Battery
Made in Germany(Beltron)			