

## Auto Assembly Machine

Manufacturing Process Name :  
Sealing and Testing

Equipment Specification :  
Grind, Sealant dispenser, part feeder

Equipment Specification :  
20ton Load Cell Qty(2)



## Sand Blast Machine

Manufacturing Process Name :  
Sanding & Cleaning

Equipment Specification :  
Auto conveyer type



## Binder Coating Machine / Dry Oven

Manufacturing Process Name :  
Binder Coating and Drying

Equipment Specification :  
1,700RPM

Equipment Specification :  
Heater 4.5kW Qty(5), 9kW Qty(2)



## Injection Molding Machine

Manufacturing Process Name : Injection

Equipment Specification :  
600ton 7,000cc Qty(1)

Equipment Specification :  
600ton 11,000cc Qty(4)



## Auto Ultrasonic Cleaning Machine

Manufacturing Process Name :  
Cleaning for end fitting

Equipment Specification :  
Four(4) dipping chamber  
Two(2) ultrasonic 1200W



## Swaging Machine

Manufacturing Process Name : Swaging

Equipment Specification : 3,200kN Qty(3)

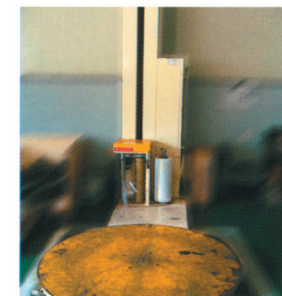
Equipment Specification : 5,000kN Qty(1)



## Wrapping Machine

Manufacturing Process Name :  
Packing

Equipment Specification :  
9RPM



PARTNER

**SPT CORPORATION**

# OVERVIEW OF SPT CORPORATION PRODUCT TESTING AND MANUFACTURING CAPABILITY

## Manufacturing Process



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## Material Tester & Analyzer



**Aging or Accelerated Weather Tester**

Test standard :  
ASTM G 26 or ASTM D2565  
Duration of the test : 1,000 hour  
Test method : Xenon - Arc



**Spectrometer**

Channel of the metal element : 16  
Measurement type : Argon spectrum.  
Luminous frequency : 1 ~ 1,000Hz.  
Argon purity : 99.998%

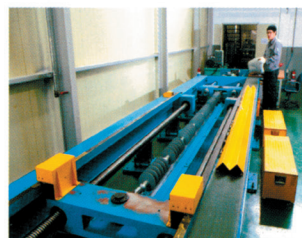


**Material Test Lab**

## Mechanical Tester

### Mechanical Load - Time Tester

Maximum load capability : 30,000kgf  
Tensile load test.  
Mechanical load - time test.  
Failing load test.



### Tensile Load Tester

Maximum load capability : 100,000kgf  
Tensile load test.  
Mechanical load - time test.  
Failing load test.



### Thermal- Mechanical Tester I

Maximum load capability : 20,000kgf.  
Chamber Temp. : -40 °C ~ 150 °C.  
Chamber size : 1200X1600X3585.  
Tensile load test.  
Mechanical load - time test.  
Thermal - mechanical test.



### Thermal - Mechanical Tester II

Maximum load capability : 30,000kgf.  
Chamber Temp. : -40 °C ~ 150 °C.  
Chamber size : 1800X1100X1800.  
Tensile load test.  
Mechanical load - time test.  
Thermal - mechanical test.



## Electrical Tester

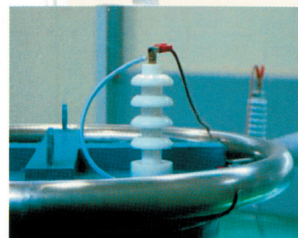
### Power-Frequency Voltage Tester I

Maximum output voltage : 250kV.  
Transformer capability : 62.5kVA.  
Limit current : 250mA



### Power-Frequency Voltage Tester II

Maximum output voltage : 100kV.  
Transformer capability : 25kVA.  
Limit current : 250mA.



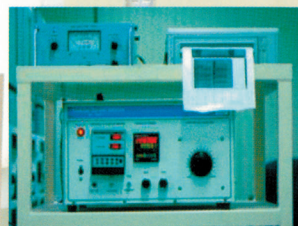
### Partial Discharge Tester

Maximum output voltage : 75kV.  
Transformer capability : 75kVA.  
Limit current : 100mA.  
Measurement range : 0 ~ 50pC



### Leakage Current Test System

Maximum output voltage : 22kV.  
Transformer capability : 2.2kVA.  
Limit current : 100mA.  
Measurement range : 10mA(Ir)  
Can be measured the resistive current.  
Can be measured the power loss.



## Electrical Aging Tester

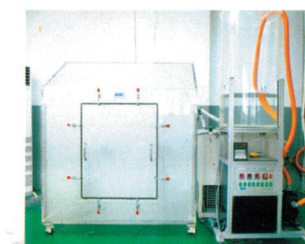
### Accelerated Aging Tester

Test standard : IEC 60099-4  
Duration of the test : 1,000 hour  
Chamber Temp. : 150 °C  
Maximum output voltage : 22kV.  
Transformer capability : 2.2kVA.  
Limit current : 100mA.



### Salt Fog Tester

Test standard : IEC 61109  
Duration of the test : 1,000 hour  
Water flow rate :  $(0.4 \pm 0.1) \ell / (m^2 \times h)$   
Size of droplets : 5 $\mu$ m- to 10 $\mu$ m  
Temperature : 20 °C  $\pm$  5K  
NaCl content of water :  $(10 \pm 0.5) \text{kg/m}^3$



## Tracking and Erosion Tester



### Tracking and Erosion Tester I

Test standard : CEA LWTWG - 01.  
Duration of the test : 1,000 hour  
NaCl content of water :  $(0.22 \pm 0.01) \text{g} / \ell$   
Maximum output voltage : 50kV.  
Transformer capability : 20kVA.  
Limit current : 400mA.

### Tracking and Erosion Tester II

Test standard : IEEE std C62.11  
Duration of the test : 1,000 hour  
Wetting agent : NaCl water of 400~ 500 $\Omega$ cm  
Maximum output voltage : 80kV.  
Transformer capability : 20kVA.  
Limit current : 250mA.

## Electrical Impulse Tester

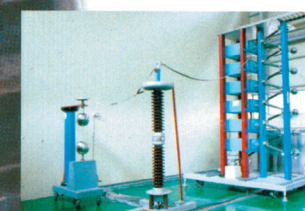
### Impulse Current Generator(ICG)

Output impulse Current : Max 20kA  
Impulse wave shape : 8X20 $\mu$ s



### Impulse Voltage Generator(IVG)

Output impulse voltage : Max 800kV  
Impulse wave shape : 1.2X50 $\mu$ s  
Impulse energy : 3.4kJ



## Structure Tester

### Water Diffusion Tester

Chamber size : 1,100X600X400  
Chamber Temp. : 100 °C



### Bending Tester

Maximum bending load : Max 1,000kgf

