

Plastics Precision Molding Laboratory Equipment Table

Equipment Name	Label Type Number	Charges	Equipment Description
Injection Machine	ARBURG 320C	The first two hours is NT\$ 4000, After the third hour is NT\$ 1000/hr	An injection molding machine, is a machine for manufacturing plastic products by the injection molding process. It consists of two main parts, an injection unit and a clamping unit. Clamping Force 60 ton, Injection Volume 132g
Injection Machine	So dick TR30EH	The first two hours is NT\$ 4000, After the third hour is NT\$ 1000/hr	An injection molding machine, is a machine for manufacturing plastic products by the injection molding process. It consists of two main parts, an injection unit and a clamping unit. Clamping Force 30 ton, Injection Volume 0.5 oz ,Accuracy 0.005 g.
Injection Machine	Victor Taichung Vs-50K	The first two hours is NT\$ 4000, After the third hour is NT\$ 1000/hr	An injection molding machine, is a machine for manufacturing plastic products by the injection molding process. It consists of two main parts, an injection unit and a clamping unit. Clamping Force 50 ton, Injection Volume 73g
3-layers Blowing Machine	LUNG MENG LM-AH42DH	<p>★1-Layer :</p> <p>The first two hours is NT\$ 6000, After the third hour is NT\$ 1000/hr</p> <p>★2-Layers :</p> <p>The first two hours is NT\$ 7000, After the third hour is NT\$ 1000/hr</p> <p>★3-Layers :</p> <p>The first two hours is NT\$ 8000, After the third hour is NT\$ 1000/hr</p>	<p>A machine for blowing bottles and other hollow glassware.</p> <p>A Screw:Φ41.85 B Screw:Φ41.85 C Screw:Φ24.8</p>
Co-rotating Twin Screw Extruder	Zenix	The first two hours is NT\$ 6000, After the third hour is NT\$ 1000/hr	Screw : Φ30
T-die Extruder		The first two hours is NT\$ 4000, After the third hour is NT\$ 1000/hr	Screw : Φ45
Luminance Meter	BM7-RS 232,EX	NT\$ 750/pcs	Luminance meters determine how much light is passing through an object
Universal Testing Machine	Hung Ta	NT\$ 500/pcs	A UTM is used to test the tensile strength and compressive strength of materials. Load Cell Min:100N, Max:10000N

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Capillary Rheometer	RHEO- TESTER1000 GOTTFERT	NT\$ 3000/pcs(3T)	<p>A capillary rheometer is an apparatus designed to measure shear viscosity and other rheological (= flow) properties. Capillary rheometers for plastics are piston-die systems designed to measure viscosity of polymer melts as a function of temperature and rate of deformation.</p> <p style="color: red;">Spec : Temp. to 400°C · Shear rate to 10000(1/S)</p>
Differential Scanning Calorimetry (DSC)	TA Instruments TA10	NT\$ 1500/hour	<p>DSC is a thermoanalytical technique in which the difference in the amount of heat required to increase the temperature of a sample and reference is measured as a function of temperature.</p> <p style="color: red;">Spec : Temp. to 350°C</p>
Thermographic Camera	AVIO TVS-100	NT\$ 1000/hour	<p>Thermographic camera is a device that creates an image using infrared(IR) radiation, similar to a common camera that forms an image using visible light. Instead of the 400–700 nanometre (nm) range of the visible light camera, infrared cameras are sensitive to wavelengths from about 1,000 nm (1 micrometre or μm) to about 14,000 nm (14 μm). The practice of capturing and analyzing the data they provide is called thermography.</p>
Haze Meter	BYK-GARDNER	NT\$ 300/pcs	<p>A haze meter measures the amount of light that is diffused or scattered when passing through a transparent material.</p>
Melt Flow Indexer (MI)	DYNISCO LMI	NT\$ 800/pcs	<p>The Melt Flow Index (MFI) is a measure of the ease of flow of the melt of a thermoplastic polymer. It is defined as the mass of polymer, in grams, flowing in ten minutes through a capillary of a specific diameter and length by a pressure applied via prescribed alternative gravimetric weights for alternative prescribed temperatures.</p>
Taber Abrasion Machine	HT-8360	NT\$ 500/hour	<p>Taber abrasion is a test to determine a plastic's resistance to abrasion. Resistance to abrasion</p>

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			is defined as the ability of a material to withstand mechanical action such as rubbing, scraping, or erosion.
Photo Elasticity	DIAS-1600	NT\$ 2000/hour	Photo elasticity describes changes in the optical properties of a material under mechanical deformation. Only test less than 250 nm (Retardation)
Constant Humidity and Constant Temperature Machine	UB3200	The first one hours is NT\$ 500, After the two hour is NT\$ 50/hr	Constant temperature and humidity machine is designed to simulate the product in the climate conditions of temperature and humidity combinations
IZOD Impact Testing Machine	Hong Ta	NT\$ 500/pcs	Izod Impact. Izod impact measures energy required to break a specimen by striking a specific size bar with a pendulum . Izod normally refers to a notched specimen impact.
Heat Deflection Temperature Machine	Hong Ta	NT\$ 1500/pcs	The heat deflection temperature is a measure of polymer's resistance to distortion under a given load at elevated temperature. In other words, it is the temperature at which a given polymer test bar will be bended of 0.25 mm under a given load .
Vi-cat Testing Machine	Hong Ta	NT\$ 1500/pcs	The Vi-cat softening temperature is the temperature at which a flat-ended needle penetrates the specimen to the depth of 1 mm under a specific load .