

高精度垂直度測量儀使用指南
Instruction of High Precision
Squareness Measuring Device

鑫禾興業有限公司

Golden-Hope Ent., Co., Ltd.

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一、概述

Summary

高精度垂直度測量儀是 鑫禾興業有限公司，近年開發的具有先進水平的垂直度檢測儀器，其具有測量精度高、速度快、讀數直觀、移動輕巧、結構簡單等特點。

High Precision Squareness Measuring Device is a newest developing instrument for the advanced squareness measuring by Golden-Hope Ent., Co., Ltd.

其主要功能

Function

☆ 可實現垂直度、直線度、平行度的測量；

To realize the measurement of squareness, straightness, & parallelism.

☆ 具有可轉方向、可微調的測量表夾持杆，可夾持杠杆千分表、數顯表、電感測頭等；

The direction rotatable and inching measuring meter holding rod can be used to hold lever dial indicator, digit display meter, inductance probe and so on.

☆ 底部內置空氣軸承，可在平台上隨意移動；

The base is with air slide bearing inside. It can be linear movement on surface plate easily.

☆ 採用電池供電，不用電纜；

Power supplying by battery without wire cable.

☆ 花崗岩基座精度高、可靠性好；

The granite base is high precision and reliable.

☆ 遙控操作測量簡單；

It is an easy measuring by remote control operation.

二、主要技術指標 Technology Specification

型號 Type	CCY700
測量範圍 Measuring Range	750mm
測量面與基面直線度 Straightness between measuring plane and datum plane	$1.5 \mu\text{m}$
測量面與基面垂直度 Squareness between measuring plane and datum plane	$1.5 \mu\text{m}$
側面與基面垂直度 Squareness between side surface and datum plane	$3 \mu\text{m}$
高度 Height	920mm
重量 Weight	72kg

註：上述標稱精度要求環境

Remark : The required environment

1. 溫度： $20 \pm 1^\circ\text{C}$

Temperature : $20 \pm 1^\circ\text{C}$

2. 濕度：50%

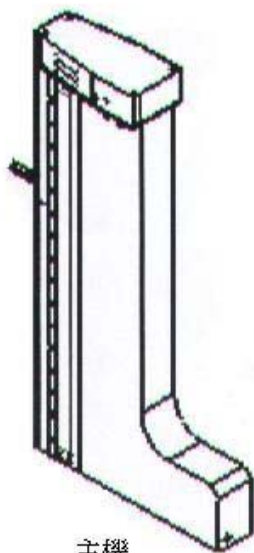
Humidity : 50%

3. 基準平板：建議外形尺寸不小於 2000×1000×300mm

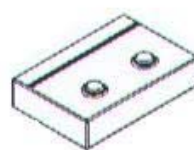
平面度 $5 \mu\text{m}$ 以內

Surface Plate : The suggested dimension should be 2000×1000×300mm at least. And the flatness is under $5 \mu\text{m}$.

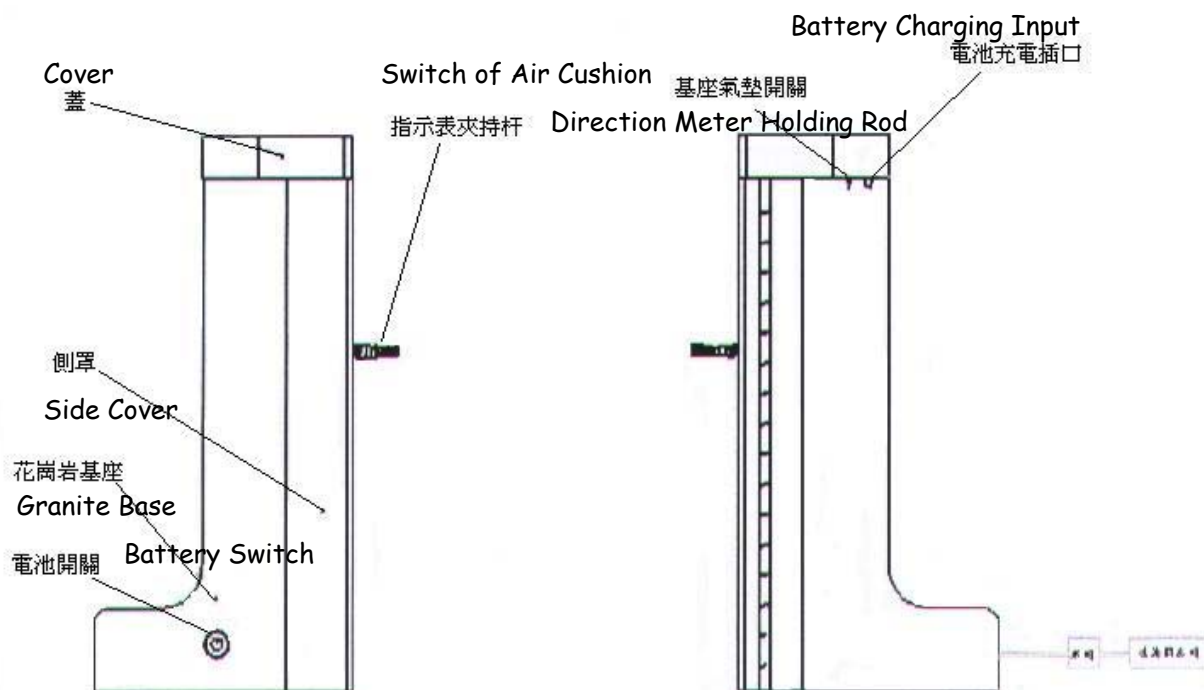
三、主體結構 Structure



主機
Main Body



遙控器
Remote-Control



四、使用方法

Using Method

1. 使用前準備

Preparation before Operation

- (1) 本儀器必須在恆溫條件下使用。

This instrument operation should be match with a constant temperature condition.

- (2) 基準平板不小於 2000×1000×300mm，平面度不大於 5 μ m。

The surface plate should be 2000×1000×300mm at least. And the flatness is under 5 μ m.

- (3) 確保基準平台乾淨。

To make sure a clean surface plate.

2. 使用方法

Method

- (1) 開啟氣源，將調壓閥壓力調至 0.5MPa，開啟球閥。

To turn on the pressing air. And adjust pressing valve on 0.5Mpa. Then open ball valve.

- (2) 開啟基座氣墊開關，將儀器安置就位，關閉基座氣墊開關。

To turn on the switch of air cushion. And set up the position of this instrument. Then turn off the switch of air cushion.

- (3) 安裝指示表並調整指示表夾持桿至最佳位置並鎖緊。

To fit the direction meter. And adjust the holding rod with a best position and locking.

- (4) 分別開啟電池、遙控器開關。

To turn on the switch of battery and remote control.

- (5) 按遙控器上的上下鍵操作。

To operate the keystrokes of remote control for up and down.

- (6) 測量完畢分別關閉電池、遙控器關閉、球閥、氣源開關。

To turn off the switch of battery, remote control, ball valve and pressing air after operation completed.

五、使用. 保管注意事項

Notice

1. 本儀器適應環境

The required environment

溫度：20±1°C

Temperature： 20±1°C

濕度：50%

Humidity： 50%

基準平板：建議外形尺寸不小於 2000×1000×300mm；

平面度 5 μm 以內

Surface Plate： The suggested dimension should be 2000
×1000×300mm at least. And the
flatness is under 5 μm.

2. 電機電池為可充鋰電首次充電需滿 12 小時

The charger can be suitable for lithium battery. It has to
over 12 hours for first charging.

3. 儀器不使用時及時關閉電池、遙控電源、電力不足及時充電及更換遙控器電池。

To turn off the switch of battery & remote control without
operation. To charge or change the battery of remote
control once the power has been not enough.

4. 過濾器定時排水。

To exclude the moisture from this filter with a schedule
time.

5. 確保基準台及測量基面乾淨。

To make sure a clean surface plate.

6. 出現故障及時聯繫本公司，因使用不當或擅自拆卸造成損壞不在保修範圍之列。

Please contact us once the user met any breakdown. No any
guarantee for incorrect operation or dismantling by user.

裝箱單

Packing List

1. 主機
Main Body
2. 遙控器
Remote Control
3. 氣電安裝板
Air filter
4. 充電器
Charger
5. 氣管、球閥
Air hose & Ball valve
6. 扳手(14-17)
Wrench (14-17)
7. 使用指南
Instruction
8. 檢定報告
Inspection Report