

TIMI Intelligent Shaft Dimensional Inspection System

Precise ♦ Fast ♦ Effective

Rapid full-size measurement during the manufacturing process

Measurement data streaming enterprise ERP/MES system



- ♦ Micron-level measurement Precision.
- ♦ User-friendly interface. Simple Automatic Programming.
- ♦ Automatically measure full sizes with a large field of view.
- ♦ Rotational position and measure with speed and precision
- ♦ Integrated measuring system with multiple gauging functions.
- ♦ Transcription-free with TIMI measurement database system.
- ♦ The TIMI system is compatible with any ERP system.
- ♦ Machine with a robot arm to automatically load and unload shafts.

Management Database: Complete production history / quality assurance

- ◆ Access data analysis of measurements at any point during the process, and export it for process capability analysis and fault tracing.

MDB Database Application Software (Standard)

Manual entry of inspection information. The interface includes fields for '工令' (Order), '產製代碼' (Production Code), '製程代碼' (Process Code), and '客戶代碼' (Customer Code). It also features a table for '量測次數' (Measurement Count) with columns for dates from 02/07/08 to 02/07/08 and a '日期' (Date) column. A '量測項目代碼' (Measurement Item Code) dropdown is visible at the bottom.

Measuring data is saved in real-time. The interface displays a table for '量測次數' (Measurement Count) with columns for dates from 02/07/08 to 02/07/08. It also includes a '量測項目代碼' (Measurement Item Code) dropdown and a '量測值' (Measurement Value) input field. A '量測日期' (Measurement Date) field is also present.

Manually enter product inspection information.

Measuring data is saved in real-time.

Collate measuring data. The interface displays a large table with columns for '日期' (Date), '量測項目代碼' (Measurement Item Code), '量測值' (Measurement Value), and '量測日期' (Measurement Date). The table contains multiple rows of data, including dates like 02/07/08 and 02/07/08, and values like 15.9742, 15.9742, 15.9742, etc.

Print inspection checklist and save as a PDF report. The interface includes a '列印日期' (Print Date) field, a '列印人員' (Print Person) field, and a '列印單據' (Print Document) button. It also features a '列印單據' (Print Document) button and a '列印單據' (Print Document) button.

Collate measuring data.
Browse data for basic analysis.

Print inspection checklist and save as a PDF report.
Data can be exported in Excel format.

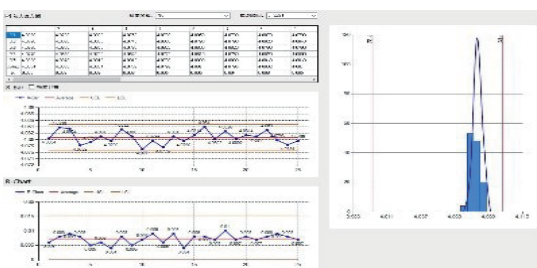
MDB database Application Software (Optional)

Link ERP/MES for import or export of production/quality control information. The interface includes a '資料庫名稱' (Database Name) field, a '資料庫代碼' (Database Code) field, and a '資料庫代碼' (Database Code) field. It also features a '資料庫代碼' (Database Code) field and a '資料庫代碼' (Database Code) field.

Hybrid data can be imported. The interface includes a '資料庫名稱' (Database Name) field, a '資料庫代碼' (Database Code) field, and a '資料庫代碼' (Database Code) field. It also features a '資料庫代碼' (Database Code) field and a '資料庫代碼' (Database Code) field.

Link ERP/MES for import or export of production/quality control information.

Hybrid data can be imported.
(including data from other gauges)



Query historical measurement data and analysis.
(e.g. X bar, R chart, Cpk)

Print and export inspection checklist as well as create your own. The interface includes a '資料庫名稱' (Database Name) field, a '資料庫代碼' (Database Code) field, and a '資料庫代碼' (Database Code) field. It also features a '資料庫代碼' (Database Code) field and a '資料庫代碼' (Database Code) field.

Print and export inspection checklist as well as create your own.

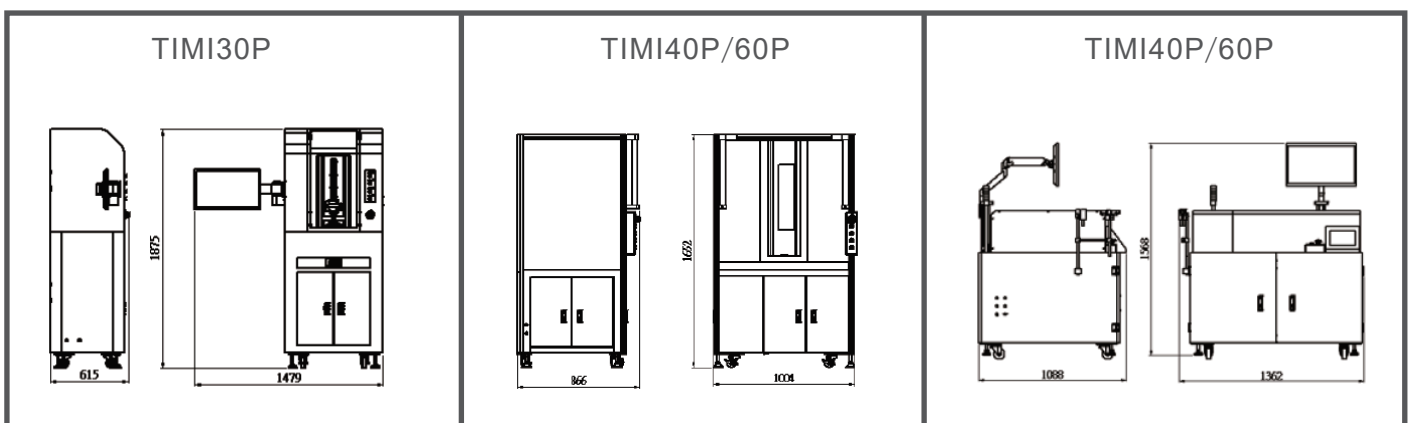
Specification

Spec	Model	TIMI30P	TIMI40P	TIMI60P
Measuring Diameter (D)		ø30mm	ø40mm	ø60mm
Measuring Length(Z)		300mm	400mm	
Rotatable range (R)		360°		
Repeatability (D)[#1]		±0.2μm	±0.2μm	±0.3μm
Uncertainty (D)[#2]		±(2+D[mm]/100)μm		
Image Resolution		14μm	19μm	25μm
Minimum display unit		0.1μm		
Rotational Resolution (R)		≤0.1°		
Clamping Method		Center Tips		
Central Processing Unit (CPU)		Intel Core i5 or plus		
Memory Capacity		8GB RAM , 128GB SSD , 500GB HDD		
Monitor		22 " LCD		
Operating System		Windows10		
Weight (without computer)		300Kgs	350~450Kgs	350~450Kgs
Power Supply		110~240V , 50~60Hz , 10A (single or three phase)		
Operating Ambient Temperature		0°~45°C		
Operating Ambient Humidity		≤ 80 %		

#1: Repeatability is calculated by measuring the fixed position of a standard gauge repeatedly without the connection of the motion mechanism and estimating the statistical value $\pm 2\sigma$.

#2: The measurement uncertainty is calculated by arbitrarily measuring a standard gauge without the connection of the linear motion mechanism and estimating the statistical value $\pm 2\sigma$.

Machine Size



Universal Standard Vision Technology Corporation

No. 10, Jingke E. Rd., Nantun Dist., Taichung City 408, Taiwan

TEL:(+886)4-2359-8363 FAX:(+886)4-2359-8365

Web:www.usdvision.com

E-mail:service@usdvision.com

