

Products introduction

Three series of Easson Vision Measurement Machine :

C Series : **Low cost** Manual VMM;
EV Series : Highest Price / Performance Manual VMM;
SP Series : Highest Price / Performance CNC VMM.



C Series Features: Low Cost
Powerful software
User-friendly operation

EV Series : Highest Price / Performance Manual VMM



EV-2515
EV-3020
EV-4030

EV Series Features: Highest Price / Performance
High precision machine body;
AF - Auto Focus;
2D/3D Measurement;
Auto Zoom Telecentric Lens(Optional);
Fully Complete Optical Lens Accessory

SP (SPARTAN) Series High performance/precision **Auto VMM**



SP-3020
SP-4030

SP (SPARTAN) Series Features: Highest Price / Performance, High precision,
Automatic VMM
High precision machine body;
AF- Auto Focus;
Standard Auto Zoom telecentric Lens;
2D/3D Measurement;
Fully Complete Optical Lens Accessory

Use Absolute Linear Scale as Measuring Standard

Easson have launched absolute linear scales in 2012, it is the first manufacturer launch the Absolute Linear Scale in China. Absolute Linear Scale has much more reliable, high accuracy and high resolution etc. advantages, is one of the best for measurement machine as the measuring standard.

From 2013 year, Easson's measurement machine all use the special version high resolution **AS seires** Absolute Linear Scale.



Absolute Linear Scale Advantages:

1. High Accuracy

Easson VMM linear scale use the AS series absolute linear scale, the linear scale accuracy within $\pm 2\mu\text{m}$ (Total length), and zero backlash, much more linear error, hence it can provide much more measuring accuracy.

2. High Resolution Reading Position Data

AS-80 Series absolute linear scale can use CPE-bus Serial communication connector, use $0.01\mu\text{m}$ resolution scale to read the position data at high magnification (image pixel size less than $1\mu\text{m}$), can greatly improve the measurement accuracy to the theoretical limit of 1 pixel.

3. Convenience

Operator can be very easy to operate find the Origin reference poin (linear scale only move about 1-2cm), VMM machinery coordinate always the same place.

AT Series, Super-high performance automatic vision measurement machine

The AT series CNC Automatic Vision Measuring Machine is designed specifically for large scale repeated measuring which need to run in 24 hours all day, it is with high speed, high Accuracy and powerful.

The features in the VMM control system of AR- 3 are as follows:

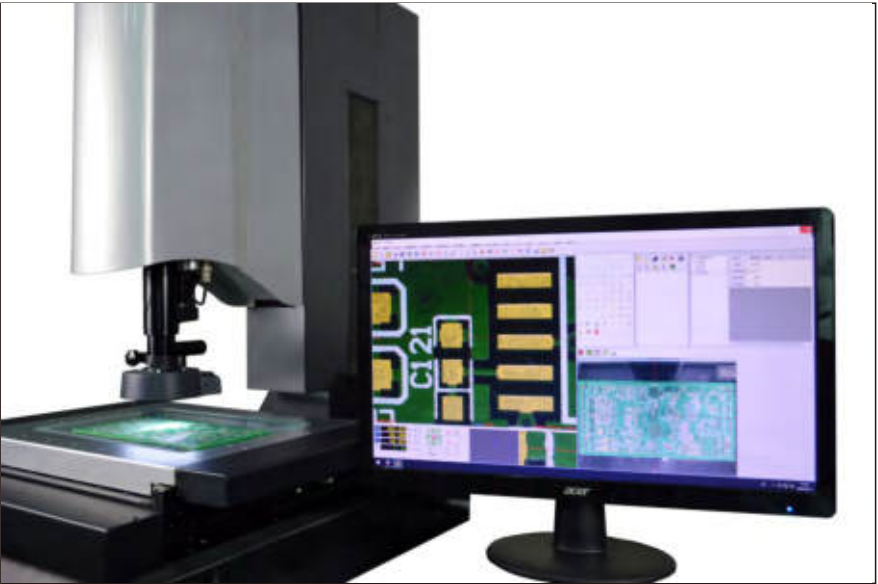
- 1. Special purpose-built processor (ASP) to significantly reduce the number of electronic circuits and parts to improve reliability.
- 2. Single circuit board structure, in order to greatly reduce the number of wiring to improve reliability.
- 3. High speed, energy saving and high precision fully closed-loop AC servo control system, which can provide positioning accuracy up to 1μm, in order to minimize the possible factors affecting measurement repeatability.
- 4. 21 orders of high precision geometric stereo spatial error compensation.
- 5. The special designed motion controller of Vision measuring machine using Ethernet transmission, which is efficient and reliable system, can solve the disadvantage of unstable USB transmission.
- 6. Three axis precision linear guide, precision drive system and CNC control system.



AT - 3020
AT - 4030

Full View Navigation Function

With Full view navigation USB camera, capture one workpiece image and set up the coordinate, operator can quickly go to the measurement area according to this full view function.



AT series Technical Specifications

Model	AT-3020	AT-4030
X/Y/Z Measurement Travel	300X200X200 mm	400X300X250 mm
Overall Dimensions	120X72X160 cm	125X90X160 cm
Machine weight	280 kg	410 kg
Repeatability	± 2 um	
Max Table Load	30 kg	
Operation	Automatic, control by mouse, joystick or keyboard	
Resolution	0.01 um	
Measurement accuracy	(1.5+L/200) um	
Source System	5 ring 8 zone cold light source, with 256 levels brightness adjustable	
Rat Structure	00 grade granite base and mast	
Lens	High precision Auto Zoom lens	
Magnification	Optical enlarging 0.7–4.5 X, image enlarging 20-125X	
Computer	23 inch LCD display with computer	
Vision System	1.3 million digital high-definition network camera	