

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.

SPARTAN Series, Super-high performance automatic vision measurement machine

SPARTAN series isdesigned specifically for large scale repeated measuring. It is with high speed, high efficiency and powerful function. Spartan series especially suit for large-amount inspection which requires high speed, high efficiency and high precision. It is a necessary and important equipment within a busy QC line.

SPARTAN series uses high precision 00 granite fixed bridged structure for the bracket, along with high precision work-table, in order to ensure the stability and precision of the machine body as long as the high precision of the measuring. Three axis adopt the Easson closed-loop servo system, recognized the whole industry as one of the most reliable system to make sure high speed and reliable measuring. All motion control has a dedicated 32-bit DSP motion controller to ensure the highest reliability of the measurement.

The software of the SPARTAN series has learning function. Users just have to measure the work piece manually for once, the software will record the measuring process, this can be use for the repeated measuring. User do not have to write any program and this largely simplify the measuring process.



SP - 5040



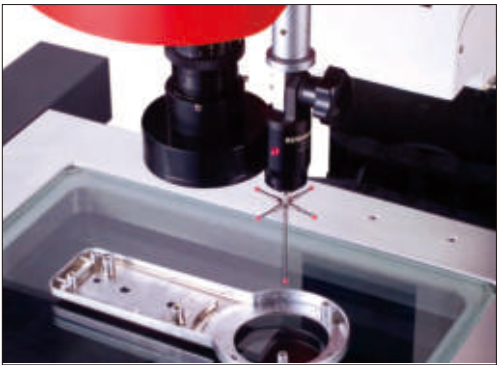
SP - 3020
SP - 4030



AF Auto Focus
AZ Auto Zoom



SPARTAN series Joystick



2D/3D complex measuring

Renishaw probes combine the 2D/3D measuring in SPARTAN series. They use the same coordinates system so SPARTAN series can have the 2D/3D measuring match perfectly.

Easson AC servo motor system



The three axis of SPARTAN series adopt the Easson AC servo motor system, recognized by theindustry as theone of the most reliable system, to make sure high speed and reliable measuring.

SPARTAN series Technical Specifications

Model	SP-3020	SP-4030	SP-5040	SP-6050
X/Y/Z Measurement Travel	300X200X200 mm	400X300X250 mm	500X400X250 mm	600X500X300 mm
Overall Dimensions	120X72X160 cm	125X90X160 cm	192X120X172 cm	205X135X185 cm
Machine weight	280 kg	410 kg	800 kg	1700 kg
Repeatability	± 2 um			
Max Table Load	30 kg			50 kg
Operation	Automatic, control by mouse, joystick or keyboard			
Resolution	0.01 um			
Measurement accuracy	(1.5+L/200) um		(2.5+L/200) um	(2.5+L/150) 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 20-140X			
Computer	23 inch LCD display with computer			
Vision System	1.3 million digital high-definition network camera			