

## Specification of SAM-TITAN



### **1. Ultrasonic Pulsar/Receiver**

- Frequency Range 1 - 500MHz
- Low noise, high performance pulser/receiver derives the ultrasonic signal of ultra wide-bandwidth characteristics from the transducer.

### **2. A/D Converter**

- Real time 1GHz Sampling Rate

### **3. Industrial Computer for Ultrasonic System**

- OS : Windows 10
- Monitor : 24" (with MONITOR ARM)

### **4. Mechanical Scanner**

- Scan Axis (Linear servo motor)  
Max. Speed 1,000mm/s  
Repeatability +/-2 micron  
Encoder Resolution 0.5micron
- Index Axis  
Micro-stepping motor with lead screw  
Step Resolution 5micron

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- Vertical Axis
  - Micro-stepping motor with lead screw
  - Max. Stroke 80mm
  - Vertical Resolution 2.5micron
  
- C- Scanning Area : 750mm x 750mm
- T- Scanning Area : 750mm x 250mm ~300mm
- Material of Mechanical Equipment : Al
- Material of Frame : Steel
- Total size except monitor : 1,400 X 1,400 X 1,565mm
- Bath Loading/Unloading System

#### **5. Immersion Tank**

- Water circulation pump with filter (Option)
- Dimension : 950mm x 1,050mm x 150mm
- Material : SUS

#### **6. General**

- Weight : Approx. 700kg
- Power : AC220V / 20A

#### **7. ScanUp and ScanUpViewer Software**

- Windows 10 base software for system control and image analysis
- Automatic and manual setup
- Automatic focusing, Auto-sizing & Auto-gate
- Pulse echo and thru transmission modes of operations
- A, B, C-Scan, FFT-Scan TOF-3D and Virtual 3D display
- Multi-Layer Scan (Upto 20 layers), Tray Scan, Strip Scan and Specific Area Scan
- C-Scan image for amplitude, time of flight and phase inversion
- FFT for transducer evaluation, Bulk-scan
- Size measurement of defects and delamination
- Automatic report generation

#### **8. Transducers**

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9. Lay-out

