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**SPM-2000
ROUGHNESS AND PROFILE
MEASURING MACHINE
MANUAL**

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Contour Measuring Instruments Overview

The measuring work principle of this instrument is the rectangular coordinate measurement method. The surface contour coordinate points of the measured parts are mapped by the X-axis and Z-axis detector, the coordinate point data measured by the detector is transmitted to the upper PC through the electrical components.

The collected original coordinate data will be made mathematical processing by software, and annotate the required engineering measurement items.

Installation Requirement

Power Supply: AC 220V±5% 50Hz Separated ground wire
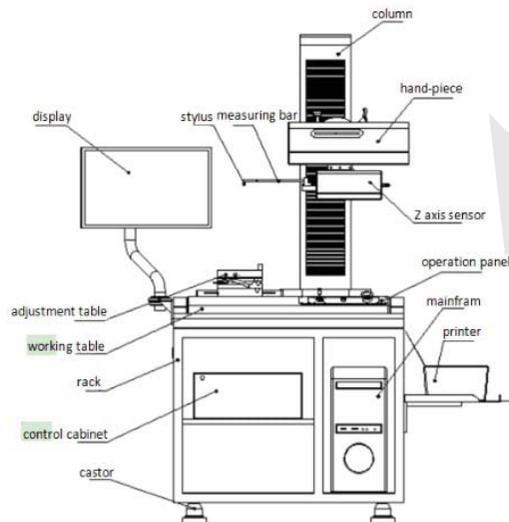Power Request: Around 500W
Environment Request
Work Site Temperature: 15～25℃
Ideal Temperature: 20±2℃
Relative Humidity: <85%

There should be no dust, vibration, noise, airflow, corrosive gas and strong magnetic
field affecting the measurement around the room.

Instrument Structure Diagram

Contour Measuring Instruments Operation Procedure

◆ Pay attention to whether the stylus is freely floating while opening the software (if touch on the measured parts, move the stylus away firstly), and then make initialization.

◆ Clean the measured parts before the measurement. Choose suitable fixture and clamping method according to the specific measurement position of the measured parts, and fix the measured parts on the fixture.

◆ Move the column and the lateral direction of the measured parts according to its measurement position, adjusting the placement angle of the measured parts. The measured position must be contact with the stylus tip.

◆ The benchmark of the measured parts measurement must be consistent with the machining benchmark. For the measurement of shaft measured parts, the contour measurement along the axis direction must adjust the axis direction is same with the measurement direction, finding the highest point (outer circle) or the lowest point (inner hole) on the measured parts.

◆ Notes: The highest point of the measurement position must be below the stylus range, and the lowest point of the measurement position must be above the stylus range. This can be achieved by moving the column and adjusting the angle of the measured parts. If it can not be achieved after adjustment, the height of the measured parts in the Z direction is higher than the range of the instrument, the measurement cannot be operated.

◆ After the adjustment, choosing suitable speed and measuring length, collecting data.

◆ According to measurement request, choose rotate graphics or rotate annotate coordinates.

◆ Fit the elements of the required project (for straight lines and arcs).

◆ Annotate requested measuring items.

◆ Please remove the stylus for safe operation next time while disassembling measured parts after the measurement.

Contour Measuring Instruments Software Installation

1 Software Installation File

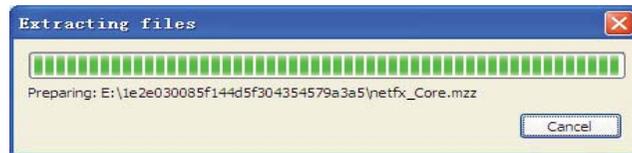◆ Contour Measuring Instrument Software Installation Package

SPWSetup...

◆ Dongle Driver Installation Package   HASPUserSetup.exe

◆ Capture Card Driver Installation Package   driver

2 The Setup Computer Running Environment

Double click icon that is   dotNetFx40_Full... Microsoft .NET F Microsoft Corpor.   If the following page pops up

Extracting files

Preparing: E:\1e2e030085f144d5f304354579a3a5\netfx_Core.mzz

Cancel

Microsoft.NET Framework 4 Setup

.NET Framework 4 Setup
Please accept the license terms to continue.

Microsoft .NET

MICROSOFT SOFTWARE

☑ I have read and accept the license terms.

Download size estimate: 0 MB

Download time estimates: Dial-Up: 0 minutes

                                 Broadband: 0 minutes

Install   Cancel

Select the   ☑ I have read and accept the license terms.   and click the (set up) button, and the following page will pop up

Microsoft.NET Framework 4 Setup

Installation Progress
Please wait while the .NET Framework is being installed.

Microsoft .NET

File security verification:

All files were verified successfully.

Installation progress:

Installing .NET Framework 4 Client Profile

Cancel