

General Tech Notes for Nikon Microstation 200

4 places for making changes in Dart NT software:

- 1) Dart Setup
- 2) Dart Options
- 3) Stage Communications
- 4) Windows Registry

Location of Windows Registry:

```
HKEY_LOCAL_MACHINE
  SOFTWARE
    NIKON
      DART
        INSPECT
          IMPLEMENTATION
            CYBEQ
              CASSETTE
                SENSOR1
                SENSOR2
              PREALIGNER
              ROBOT
            LUDL INFO
```

Most of the changes can be performed using Dart Options. The only change not in Dart Options is the Ludl Nosepiece. This is located in the Windows Registry, under Implementation. To start the Windows Registry editor, simply click on "Start", "Run" and enter "regedit" then press "Enter". "0" is no, off or false and "1" is yes, on or true. Any data entered must be entered in decimal format, you must click on the decimal box.

Note: Any changes made to the windows registry will not take effect immediately, you must close out "Dart Inspect" and "Nikon Stage Communications" programs and restart them for the changes to take effect.

General settings for 4.5" square substrates are:

- "Prealigner to Stage" angle of approximately 225 deg's
- Prealigner Load Angle command "POLA46527" (approximately 335 deg's)
- Prealigner Set Rotation command "POSR12500" (90 deg's)

Prealigner to Stage angle is set using the "Nikon Stage Communications" utility. You must move a Wafer manually using "Get" and "Put" commands to place the substrate on the Prealigner. Then, click the box labelled "Stage Angle". There you may test different angles. When you click on "Commit", the angle is then recorded in the Windows registry.

Prealigner Load Angle and Prealigner Set Rotation commands are set using the DOS Runrobot utility. To start the Runrobot utility you must start the command prompt (DOS window). This is located in the Windows menu system located in the lower left corner of the display. Simply click on "Start", "Programs" then "Command Prompt". The DOS window will appear. To make it full screen press "ALT-ENTER". Change to directory "C:\ROBOT". To exit the command prompt, simply close the Runrobot utility and type "exit" and press the "Enter" key.

Dart NT uses Com Ports on the computer differently.

- Com 1 Ludl Stage Controller
- Com 2 Prealigner
- Com 3 Robot

Utility "Runrobot" cannot use Com 3, so in order to use this utility you must pull the Robot connector from Com 3 and insert it into Com 1. When done using this utility remember to set all Com ports correctly for Dart NT.

Ludl Stage speed and acceleration settings are located in the "Dart Options" program, under the Stage tab.