# SECTION 4
# SPECIFICATIONS

## ■ Applicable wafer size

5-, 6-, 8-inch

## ■ Microscope unit

| | |
|---|---|
| Objectives | CF&IC EPi Plan, CF&IC EPi Plan Apo, CF&IC BD Plan, CF&IC BD Plan, Apo series |
| Eyepiece | CFUWL 10× (field number 25) |
| Optics | CF&IC |
| Illumination | 12 V, 100 W, halogen lamp |
| Eyepiece tube | Triocular extension tilt eyepiece tube TL |
| Auto focus | LED illumination slit type AF |
| Revolving nosepiece | BD 5-hole motorized revolving nosepiece (Standard) |
| Option | Confocal microscope unit |

## ■ Macro unit

| | |
|---|---|
| Rotation | 360°, endless |
| Tilt angle | 0 ±30° each for X and Y axes |
| Operation | Automatic to preset values, or manual with joystick |

## ■ Stage unit

| | |
|---|---|
| Stage stroke | 208 mm × 208 mm |
| Travel modes | ● Auto mode<br>Automatic movement to recipe-programmed observation points (jump or scan)<br>● Manual mode<br>Variable speed corresponding to joystick angle<br>Low-speed travel corresponding to objective magnification<br>● Coordinate correction<br>X and Y |
| Observation points | 100 points per wafer inspection file (Up to 4000 inspection files) |

## ■ Wafer transport unit

| | |
|---|---|
| Number of elevators | Two or one |
| Elevator location | Front |
| Transport | Mechanical transport by vacuum suction<br>Non-contact prealignment |
| Material of wafer suction area | PEEK (polyether-ether-ketone) |

## ■ Functions

| | |
|---|---|
| Sampling assignment | |
| GO/NG sort | |
| Online help | |
| Online operation (optional) | RC-232C or TCP/IP |
| Communication with host computer | Lot management and system management using GEM |

## ■ Environment

| | |
|---|---|
| Room temperature | 23° ±3°C |
| Humidity | 50% ±20% |

## ■ Utilities requirements

| | |
|---|---|
| Electricity | 100 to 120 Va-c ±10%, 50/60 Hz, 14 A max., or<br>220 to 240 Va-c ±10%, 50/60 Hz, 7 A max. |
| Vacuum | ≤ -80 KPa (-600 mmHg) |

## ■ Dimensions and weight

| | |
|---|---|
| Single-cassette type | 995(W) × 1000(D) × 1380(H) mm; approx. 290 kg |
| Double-cassette type | 1200(W) × 900(D) × 1380(H) mm; approx. 320 kg |