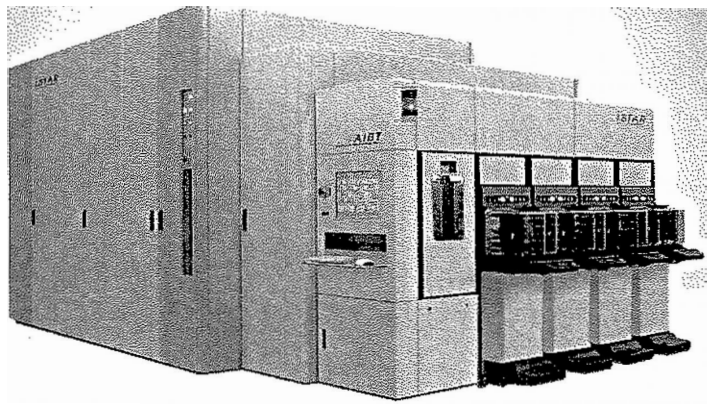
AIBT
Advanced Ion Beam Technology, Inc.



Configuration
for
iStar Low Energy Ion Implanter System

AIBT iStar Configuration Sheet

iStar Ion Implanter

TRAINING CREDITS (Standard: 6 men/weeks)

Extra Training credits 3

Adjustments

Wafer Size ☐ 200 mm ☒ 300 mm

Wafer Type ☐ Flat ☒ Notch

Signal Tower ☒ Yes ☐ No

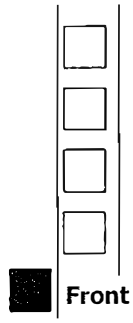
Power ☒ 220V ☒ 480V

Hertz ☒ 60Hz ☐ 50Hz

Operation Direction

☒ Font of Machine

☐ Left of Machine



Facility Install Configuration

Power	☐ Roof ☒ Floor	**Water**	☐ Roof ☒ Floor
CDA	☐ Roof ☒ Floor	**N2**	☐ Roof ☒ Floor
Ar	☐ Roof ☒ Floor	**Roughing Line**	☒ Roof ☐ Floor

Remote Facility Cable Length (Standard: 10 M)

☒ 15 M ☐ 20 M

☐ 25 M ☐ 30 M

Earthquake Kit ☒ Yes ☐ No

System Configuration

Atmosphere Transfer Module (ATM): Rorze

FOUP Loader: TDK

Second Service Monitor

☒ Yes ☐ No

Vacuum Transfer Module (VTM)

Dry Pump: ☐ Ebara A70W ☐ Edward

☒ Customer provide: Edwards iH600

Process Transfer Module (PTM)

Dry Pump: ☐ Ebara 65X40 ☐ Edward

☒ Customer provide: Edwards iH600

Cryo Pump: ☒ Helix 10F On Board Cryo X 2

Tilt Angle Laser Check

☒ Yes ☐ No

Source Area

Dry Pump: ☐ Ebara 40X20 ☒ Customer provide: Edwards iGX100

Turbo Pump: ☐ Osaka TG1813 ☒ Edwards STP-A2203WAV

Vaporizer: ☐ Yes ☒ No

Beamline Area

Turbo Pump: ☐ Osaka TG413 MBA ☒ Edwards STP-451C

Process Flow Gun (PFG)

MFC: ☒ MKS (2 sccm)

Gas Box (6 gas bottle configuration, need to fit SDS3 gas bottle)

Gas#0:

Ar (Facility Supply)

MFC: ☐ MKS (10 sccm) ☐ STEC

☒ UNIT

Gas#1:

High Pressure Bottle (Facility supply Ar)

MFC: ☐ MKS (10 sccm) ☐ STEC

☒ UNIT

Gas#2:

High Pressure Bottle (Facility supply N2)

MFC: ☐ MKS (10 sccm) ☐ STEC

☒ UNIT

Gas#3 to 6:

SDS Pressure Bottle

MFC: ☐ MKS (5 sccm) ☐ STEC

☒ UNIT

Gas#3 and Gas#4: BF3

Gas#5: AsH3

Gas#6: PH3

Factory Automation

Including ☒ Yes ☐ No

Automation Interface
E40: Processing Management
E87 CMS: Carrier Management
E90: Substrate Tracking
E94: Control Job Management
E84: Including OHT EMO Function

Other Option

Alignment Tool Kit ☒ Yes ☐ No
Including ATM, VTM Robot and Source Electrode Alignment Jig

Crane for PTM Hub ☒ Yes ☐ No
For Clean room use

Ion Source Headx2 ☒ Yes ☐ No

Extraction Electrodex1 ☒ Yes ☐ No

Decel Electrodex1 ☒ Yes ☐ No

Plasma Showerx1 ☒ Yes ☐ No

Pad Assy x13 ☒ Yes ☐ No