Sold-to party Material

Material Quantity 1.000 Req. deliv.date 05-01-2007

RTP HELIOS SYSTEM REL. 1
EA Item 000010

MTT-1432

QUOTATION NUMBER

609

FIRST TOOL IN LINE

YES FTL1

PROCESS APPLICATION STD

RTA

ro rto

PROCESS APPLICATION SILICIDES

YES PAS1

CONTROLLER SELECTION SILICIDES

CoSi

FOUP LOADPORTS

CES REQUIRED FL3

FOUP LOADPORTS CES

TDK TAS300 E4 ADVATAG READER F_L_H_CES_4

AUTOMATION SEMI E84 1

HOKUYO 5M FOR OHT AS3

POWER FREQUENCY

60 Hz PF2

TRANSFORMER

NO TRANSFORMER

DISTANCE PM1 POWERRACK

CABLE LENGTH 15 METER DPP3

DISTANCE PM1 BLOWER

DISTANCE BLOWER POWERRACK CABLE LENGTH 15 METER DBP3 FRONTSIDE GUI CABLE LENGTH CABLE LENGTH 5 METER FGC1 EXTERNAL UPS EU1 YES SIGNAL TOWER SIT1 FRONT SIGNAL TOWER CONFIGURATION SPECIAL STC2 INSTALLATION TEMPLATE 2D CALIBRATION WAFER SET CWS1 EARTHQUAKE PROTECTION YES EP1 SMOKE DETECTORS YES SDH1 SERVICE LAPTOP INCLUDED IN STANDARD HANDL OVER PRESSURE MONITORING

REARSIDE MAINTENANCE CONSOLE

SYSTEM SOFTWARE VERSION

LATEST

GEM

HOSE LENGTH 4 x 15 METER

DPBH3

HOPM1

RMC1

SSV1

ETHERNET (HSMS) GH2
REMOTE CONTROL SYSTEM

RCS1

DOCUMENTATION

CD1 DOC1

GAS CONFIGURATION HELIOS

GAS SYSTEM

TOXIC GASES

2 LINES TOX2

MFC TYPE

STEC METAL SEALED MT4_H

TOXIC GASES N20

NO

TOXIC GASES H2

YES

LINES 1 NH3 / H2

H2 50 SLM

LINES 2 NH3 / H2

NH3 30 SLM

AMBIENT CONTROL KIT

YES YES

KIT SELECTION

Ar NON STD MFC KIT4

PROCESS APPLICATION USJF

YES YES

CONTROLLER SELECTION

FC FAC AMBIENT 2LIN NONSTD MFC FC2

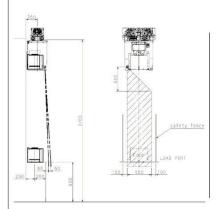
GAS PRESSURE DISPLAY

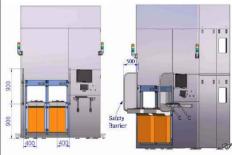
1		Torr	D4
 	CES		
Î		YES	C1
ĺ	CES	LIST	
į		GAS DETECTOR ALARM OUTPUT	CESH11
1		LEAK CHECK PORT GAS BOX	CESH16
ļ		CHILLER	CESH24
1		LIGHT TOWER RIGHT SIDE	CESH26
ļ		ADDITIONAL GAS LINE 02 200SCCM	CESH37
ļ		3D TEMPLATE SPECIAL V1 HY	CESH47
1		MFC INSITU CALIBRATION	CESH57
1		VCR GASKET UNPLATED NI	
1		ABATEMENT INTERFACE SYSTEM	CESH60
ļ		MODE SWITCHING	CESH63
ļ		WARRANTY EXTENSION 1YR.	CESH64
ļ		NON STD PAYMENT TERMS	CESH65
ļ		SINGLE FACILITY CONNECTION	CESH86
ļ		OHT BARRIER COMPLETE	CESH91
1		IDEC EMO BUTTOM	CES120
1		HOKUYO DMG HB1 - 1 - ZO3 reference TAS)	CESH122 (Change this type to following

1. This clarification will update information and in place of the same items of TAS document.

2. 5.3.3.7.2

NTC adds new requirement: NTC provided limitation illustration for safety fence installation as follows. The safety fence must base on the limitation illustration.





3. 5.3.3.8.1 NTC update E84 sensor type to DMG-GB1 series or DMJ-GB1 series (Head-On), vendor must comply.

[final version]

E84 Compliant Parallel I/O Interface Installation Requirement

will be using OHT intrabay equipment.

Parallel I/O interface is used as a handshake interface between the equipment and OHT intrabay system, which controls the handoff of a FOUP to and from equipment load port by the intrabay system.

Equipment vender must provide an E84 compliant parallel type optical data transmission device for each load port as following.

Hokuyo Optical Data Transmission Device DMJ-GB1 or DMG-GB1 series (Head On) and passive mode



Hokuyo Automatic Co., LTD. 2-1-12 Sonezaki, Kita-ku, Osaka, Japan http://www.hokuyo-aut.co.jp

GAS BOX CONFIGURATOR:

Toxic gases

```
| Gas#1
                            H2
                                   50slm
                            NH3
                                   30slm
Gas#2
| Inert gases
                                   20slm
                             N2
 Gas#3
                             N2
                                   150slm
Gas#4
                                   150slm
                             Ar
Gas#5
                                   20slm
Gas#6
| Process gases
                             02
                                   150slm
Gas#7
                             02
                                   20slm
 Gas#8
                             02
                                   2slm
 Gas#9
| Gas#10
                             02
                                   200sccm
                             02
                                   20sccm
Gas#11
                             02
                                   3sccm
 Gas#12
REMARK:
```

chambers should be standard Chambers w/o Whited Coated Chamber though | needed FC FAC AMBIENT 2 LINE NON-STD MFC

LIGHT TOWER CONFIGURATOR:

Color	Status	Description
RED	Flash + ala buzzer on	rm Equipment trouble happens (including communication error) and immedia attention required. Must be able to silence alarm buzzer but maintain flash until failure can be corrected
	On	Host sends remote commend to turn on
	Off	All troubles of Equipment trouble happen are eliminated
	Flash	Host sends remote command to turn flash
BLUE	On	Host sends remote command to turn on
	Off	Host sends remote command to turn off or when Equipment is in Offline
	Flash	Host sends remote command to turn flash
YELLOW	On	Host sends remote command to turn on
	Off	Host sends remote command to turn of or when equipment is in Offline
	Flash	Host sends remote command to turn flash
GREEN	On	Host sends remote command to turn on
	Off	Host sends remote command to turn off or when equipment is in Offline

Note: When equipment is in offline, turn Blue/Yellow/Green Color off.

Table 33. Host Control Signal Tower Definition tables

- 20.1.1 The color sequence of the signal tower is Red, Blue, Yellow and Green. (From top to bottom). Signal be mounted on the Operator I/O port side. (2.0 m height from grating raised floor). The position of the tower should not interfere with OHT operation. The one Signal Tower shall be clearly visible from a 20 distance over an angle of 180 or Please see Figure 3 Signal Tower.
- 20.1.2 The alarm buzzer volume shall be adjustable. The alarm buzzer shall be easily enabled/disabled.
- 20.1.3 E84 module error conditions will trigger an alarm condition on the Signal Tower.

Date:	
Print name:	
Signature:	