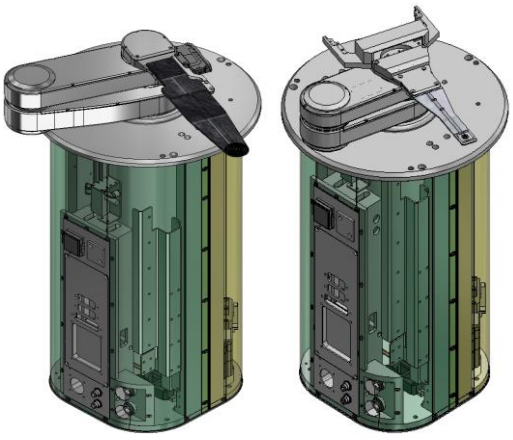
SES tech

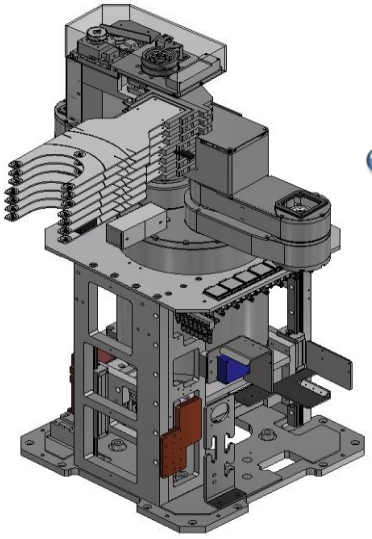
Brochure

Wafer Transfer Robot
FOUP Transfer Robot

8”,12” Wafer Single Arm

- 250(L) x 250(W) x 987(H)
- Max. Radial Reach 670mm
- Z Axis Stroke 330mm



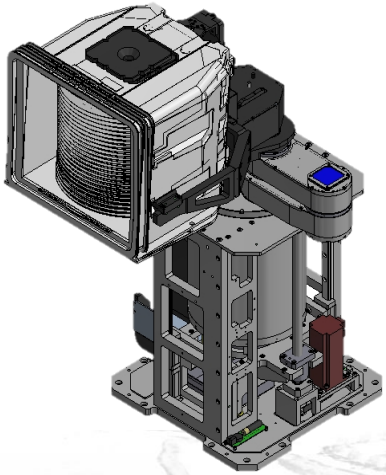


12” Wafer Multi Finger

- 820(L) x 430(W) x 925(H)
- Max. Radial Reach 670㎜
- Z Axis Stroke 300㎜

FOUP Transfer Robot

- 680(L) x 430(W) x 965(H)
- Max. Radial Reach 670㎜
- Z Axis Stroke 300㎜



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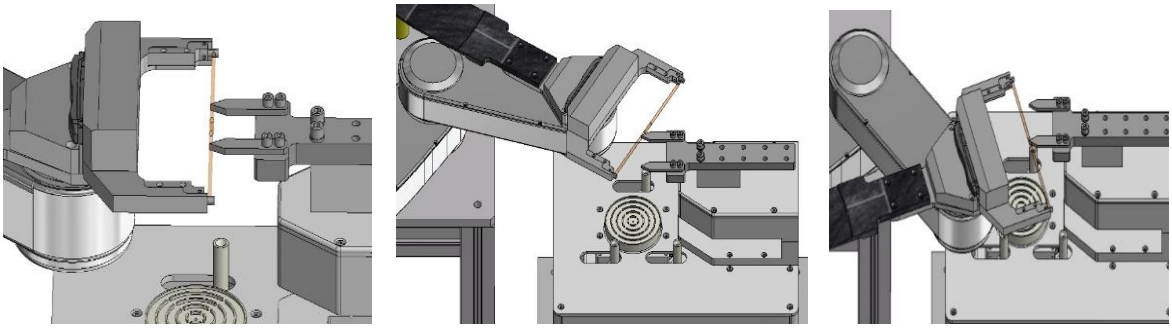
Robot 자가진단
Auto Calibration System

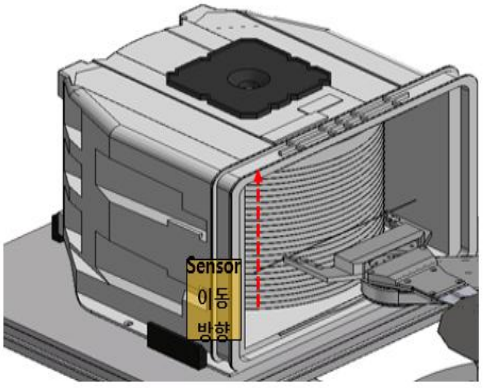
Robot 자가진단 및 Auto Calibration

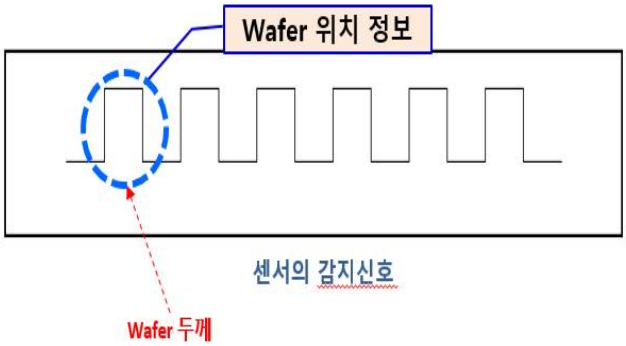
Robot 상태를 주기적으로 체크, 전축 (X, Y, θ) 자동 보정



Wafer Mapping 및 Auto Teaching

Wafer Mapping 및 위치정보 취득, 처짐량 감안한 Auto Teaching





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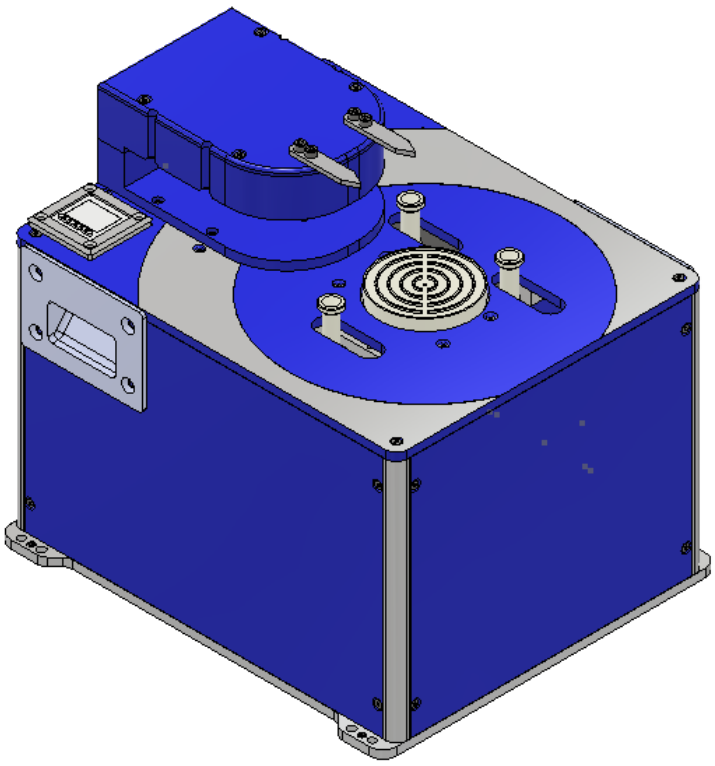
투명 Wafer
Hybrid Aligner

주요 성능

- 200mm / 300mm 웨이퍼
- 투명 웨이퍼 & 불투명 실리콘 웨이퍼 동시 대응
- 상용PLC 기반 안정성 및 기능 확장성
- Align정밀도 : <±25um
- Tact Time : <10 Sec



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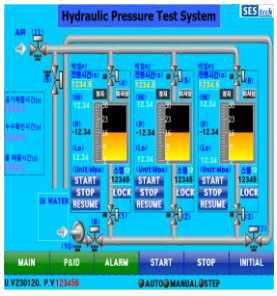
고압설비 자동시험시스템
다채널 미세리크 감지시스템

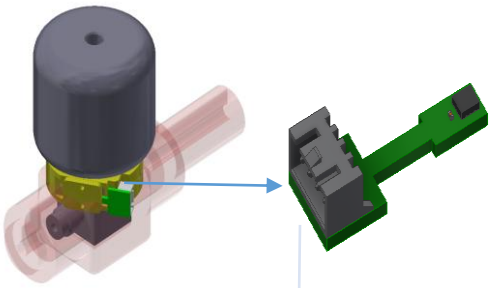
기압/수압시험 자동화시스템

- 고압설비 및 압력Tank 제작
- ASME인증 (미국기계학회)
- KGS인증 (한국가스안전공사)
- 용접 및 비파괴검사

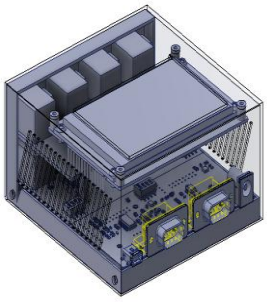


다채널 미세리크 감지 시스템

- 다수 밸브를 사용 고압설비에 적용
- 오토밸브, 가스센서 일체형 모듈 (특허)
- 다채널 중계보드 : 리크 감지 범위 설정 및 모니터링
- 중계보드와 PC간 통신 및 배선 최소화



오토밸브/가스센서 일체형 모듈



다채널 중계보드
Size(㎜) : 114x117x50

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진공로봇 / 진공챔버
Overhaul, 성능개선, 국산화

- **Overhaul / 국산화**
  모터, 감속기, CRB, 유체씰, 벨트

- **성능개선**
  고속화, 제어기 성능, Tact 단축

- **고진공도 관리**
  1x10^-5Pa이하

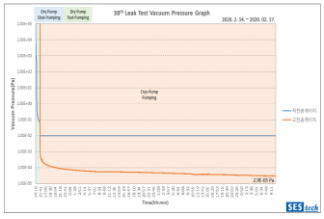
- **잔류가스 분석**
  RGA (Residual Gas Analyze)

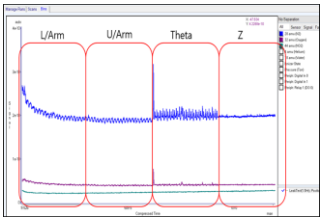
- **청정도 관리**
  Ion Chromatography 분석
  100ppb 이하

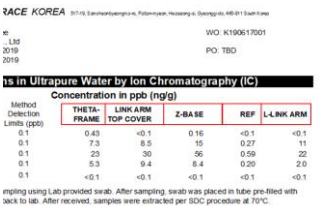
- **정밀 측정**
  Laser Tracker 반복 정밀도
  X,Y: 0.7mm Z: 0.3mm 이내
  진직도 0.8mm 이내

- **발열 개선**
  방열모듈, Air Circulation

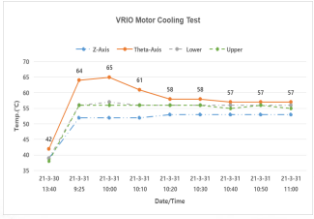


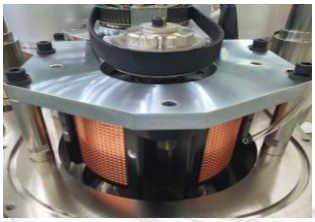






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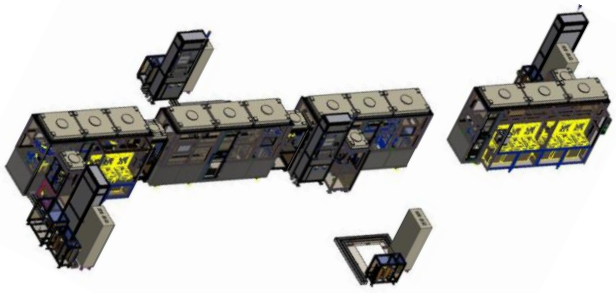
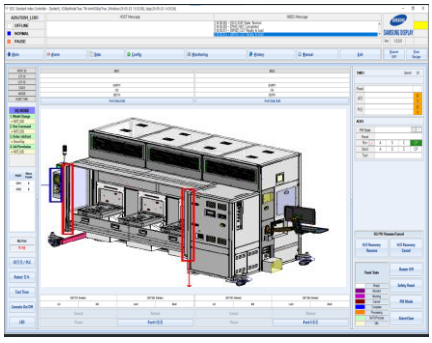
EFEM / FOUP Buffer
Cluster Tool Controller

EFEM
마이크로 OLED EFEM In-line물류

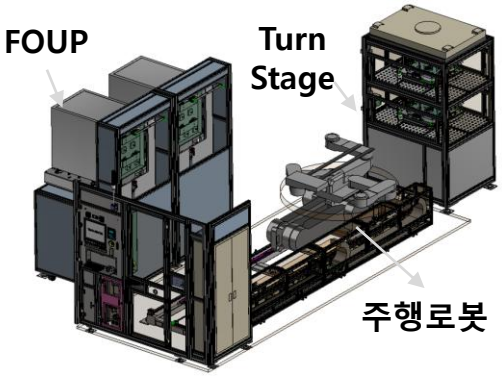


FOUP Buffer
30단 N2공급 시스템

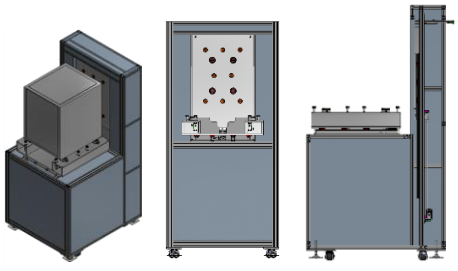
Cluster Tool Controller
자체개발 SW Framework



로봇물류 자동화 시스템
마이크로OLED EFEM In-line물류



FOUP Opener



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