銳澤實業股份有限公司
高科技廠房與廠務規劃設計
- Reverse FAB Design
- 2D → 3D → 5D
- Powerful Software
- 300mm 5D Demo FAB
- Future Technology
Reverse FAB-Workflow
Reverse FAB-Workflow

Tools List
- Reverse FAB
- Workflow
- Zone/Tools Layout
- Facility Layout
- Space Detail Design

Facility Layout
- Gas
- Compressed Air
- Vacuum
- Electrical
Reverse FAB DESIGN SHOW
Reverse FAB-實績案例-1 廠 300mm DRAM Fab NB棟
2D→3D→5D Design

2D複雜線條依靠經驗人員主

3D以可視化直覺簡單易懂
Why 5D?

3D Modelling with SketchUp Pro and skeng

Model Information:
- Vendor, Model
- Phase, Tool Group
- Interface Size/Type/Ids

DataCube Technology:
- Flow/Pressure Data
- Interface Locations
- Assignment

Intelligent Layout ELD:
- More dense Tool Layout
- Consumption Analysis (FUM)
- 3D PLS/Fishbone Analysis

- Less Errors
- Quick Reaction on Changes
- Faster Installation
- More Yield

Detailed 3D Hook-Up MLD:
- BOM
- Installation Drawings
Powerful Software – Semisoft - Structure

Equipment Vendor

- SemiSoft® Standard user
- Equipment Engineer
- Hook-up Designer
- Submain Designer
- Facility Management
- Schedule tracking

SemiSoft® Application Server
- SemiSoft® file Server
- SemiSoft® Database

- Equipment Layout
- Subfab Layout
- Master Schedule
- Fishbone drawings

Installation contractor

RayZher Industrial CO; LTD
Powerful Software - Semisoft – Flowchat

IE
Tool Layout

FED
Facility Parameter

S+C

Module

HDC
Tool Vendor Manual

① SketchUp
② Semisoft® System/Hierarchy Standard
③ Semisoft® Hook-up Designer
④ Main/SM Piping
⑤ Main/SM Piping
⑥ PID Drawing
⑦ 3D MLD

RayZher Industrial CO; LTD
Powerful Software - Semisoft PID Auto

SemiSoft® SystemMatrix
PID generation

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Powerful Software – 3skeng

Plastic Libraries

Ductile Iron Libraries
Imperial libraries based on AWWA standards with flanged, grooved and mechanical joint connections.

Stainless Steel (Pure Use) Library
Imperial library for Quick Connect, Clamping and VCR connections.

Steel and Stainless Steel Libraries
Imperial and metric libraries based on ANSI, EN and DIN standards.

Ventilation and Exhaust Duct
Imperial and metric Galvanized Steel and Stainless Steel libraries.

High Vacuum Piping Libraries
Powerful Software – 3skeng
Powerful Software - Datacube

Flow Velocity and Pressure Loss

Lateral Systems & Load Balancing Simulation
Powerful Software – Data Cube
Building Information Modeling (BIM)

If you look for an easy-to-learn and affordable software which allows you to generate BIM compatible data, don’t look any further.

SHK software products are designed for advanced workflows in the building- and construction industry. Generate fast and efficient conceptual- and detail designs and exchange your BIM data in industry standard data formats.
We at SHK use our tools every day for Fab-, Facility- and Hook-up Design. If we should name one thing as most important key factor for good functional design, it would be Space Management.

With SemiSoft® and 3skeng® you have the right tools in hand to build fast and efficient as many integrations you need to develop the best and deepest engineered Space Management.

With our easy to operate and fast software you will be able to adjust virtual Space Management models live in online- or onsite meetings and transfer the Space Management solution via the Microsoft HoloLens 1:1 into the real environment.
Hook-up

Complex Semiconductor equipments have up to 150 connections from and to the facility infrastructure network. Full 3D design allows to answer all Hook-up related questions before the resource-consuming and time-limited Hook-up installation task will begin.

3skeng® software tools are designed for this task. They are flexible and fast, so solutions to data integrations can be developed within an astonishing short amount of time.
300mm 5D Demo FAB - Hook UP
轉化2D形成3D易懂易溝通之圖面
300mm 5D Demo FAB - Space Management – Building To Hook UP

PH tool
300mm 5D Demo FAB - Space Management – Building To Hook UP

EH tool
Future Technology – HoloLens AR

Microsoft HoloLens®

- Quality Control
- Construction Management
- Troubleshooting

1:1 Hook-Up Model
Future Technology – HoloLens AR – 應用實例
Future Technology-Semi Soft 6.1

Discussion

Thanks For
Coming & Advisements