

DAOU DATA ———•

DAOU Package - Support & Draw

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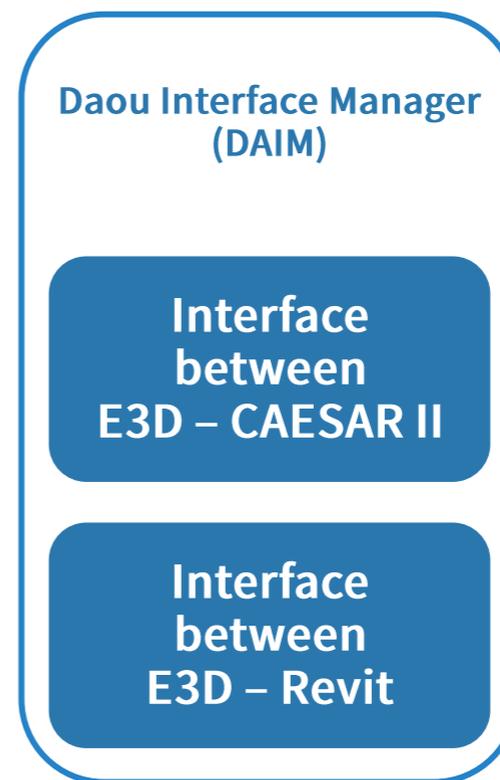
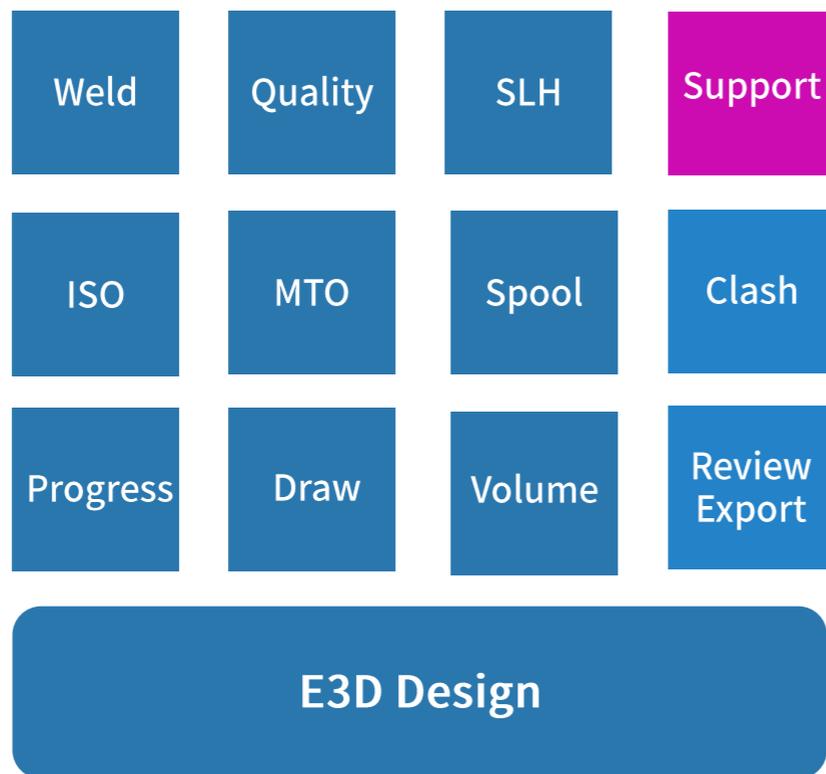
03 DAOU Draw

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DAOU Package

DAOU Package 개요

AVEVA E3D Design 사용자를 위한 생산성 향상 패키지



DAOU Package

DAOU Package Application List

Daou Package 솔루션 라인업

3rd Party	Description
Daou Drawing	E3D 모델을 활용하여 GA 도면을 자동 생성
Daou Clash	E3D 모델 간섭체크 및 간섭된 부분에 대한 관리 제공
Daou Support	E3D 모델 상에서 Piping, Electrical, HVAC 상 Support를 빠르게 생성하고, 물량 및 설치 도면 자동 생성 제공
Daou Volume	E3D Module별 관리
Daou ReviewExport	E3D 모델 Review 파일로 생성
Daou SPOOL	Weld, SPOOL 자동 생성 및 관리가 가능하며, 각종 SPOOL 데이터 산출물 자동 생성
Daou Design Progress	E3D 설계 및 모델링에 대한 Progress Report 생성 및 진행률에 따른 정보 제공
Daou Design Quality Check	설계 조건에 대한 반영 여부를 체크하여 설계 품질에 대한 검증할 수 있음.
Daou ISO Drawing	E3D 모델 상에서 ISO도면을 여러 타입으로 자동생성 제공, 도면 관리에 활용 가능한 바코드, QR코드 자동 생성
Daou Weld	E3D 모델 상에서 Weld 자동 생성 및 Weld 물량 산출
Daou SLH	E3D 모델 상에서 Stair, Ladder, Handrail을 생성하고, 물량 및 설치도면 자동 생성 제공
Daou MTO	E3D 모델 상에서 배관 물량 및 구역 별 Weight 및 COG 자동 생성
DAIM- Interface between E3D and CAESAR II	E3D에서 생성된 모델을 CAESAR II 모델로 자동 변환 제공
DAIM- Interface between E3D and REVIT	Revit에서 생성된 데이터를 E3D 데이터로 변환해주는 기능 제공

DAOU ATTRIB IMPORT



DAOU Pipe Generator : D:\DaouPackage\DAOU-DRAWING\PROJECT\TWTST\tdf\ts\AttributeGen_Sample01.xlsx

Refresh Config Import Element List Clear List User UDA01 giko: SYSTEM : D:\DaouPackage\DAOU-

1. UDA01 2. UDA02 3. UDA03 4. UDA04 5. UDA05 6. UDA06 7. UDA07 8. UDA08 9. UDA09
 10. UDA10 11. UDA11 12. UDA12 13. 14. 15. 16. 17. 18.

Attribute Mapping from List 2 3 4 5 6 7 8 9 10

Drag a column header here to group by that column.

Pipe Name	UDA01	UDA02	UDA03	UDA04	UDA05	UDA06	UDA07	UDA08	UDA09
400-FL-1001	1.5	-178	15	-195	DD-DAO	A	A3B	40	DAOUDATA
600-FL-1000	1.5	-178	15	-195	DD-DAO	A	A3B	60	DAOUDATA
250-FL-1002	1.5	-178	15	-195	DD-DAO	A	A3B	25	DAOUDATA
150-ST-2	1.5	-178	15	-195	DD-DAO	A	A3B	15	DAOUDATA
150-ST-3	1.5	-178	15	-195	DD-DAO	A	A3B	15	DAOUDATA
150-ST-31	1.5	-178	15	-195	DD-DAO	A	A3B	15	DAOUDATA
150-ST-311	1.5	-178	15	-195	DD-DAO	A	A3B	15	DAOUDATA
100-FL-1	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
100-FL-2	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
100-C-20	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
100-C-21	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
100-FH-1	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
100-FH-2	1.5	-178	15	-195	DD-DAO	A	A3B	10	DAOUDATA
300-FH-1	1.5	-178	15	-195	DD-DAO	A	A3B	30	DAOUDATA

Total Items = 26

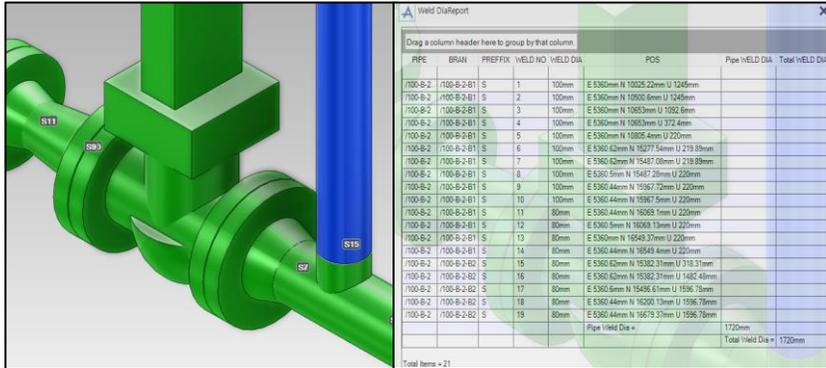
Update Attribute All Element : ID Field 1 Type PIPE ID Attribute NAMN Dismiss

AttributeGen_Sample01.xlsx - Excel - 지 2페이지 중 10페이지

Pipe Name	UDA01	UDA02	UDA03	UDA04	UDA05	UDA06	UDA07	UDA08	UDA09
400-FL-1001	1.5	-178	15	-195	DD-DAO-000-000	A	A3B	40	DAOUDATA
600-FL-1000	1.5	-178	15	-195	DD-DAO-000-001	A	A3B	60	DAOUDATA
250-FL-1002	1.5	-178	15	-195	DD-DAO-000-002	A	A3B	25	DAOUDATA
150-ST-2	1.5	-178	15	-195	DD-DAO-000-003	A	A3B	15	DAOUDATA
150-ST-3	1.5	-178	15	-195	DD-DAO-000-004	A	A3B	15	DAOUDATA
150-ST-31	1.5	-178	15	-195	DD-DAO-000-005	A	A3B	15	DAOUDATA
150-ST-311	1.5	-178	15	-195	DD-DAO-000-006	A	A3B	15	DAOUDATA
100-FL-1	1.5	-178	15	-195	DD-DAO-000-007	A	A3B	10	DAOUDATA
100-FL-2	1.5	-178	15	-195	DD-DAO-000-008	A	A3B	10	DAOUDATA
100-C-20	1.5	-178	15	-195	DD-DAO-000-009	A	A3B	10	DAOUDATA
100-C-21	1.5	-178	15	-195	DD-DAO-000-010	A	A3B	10	DAOUDATA
100-FH-1	1.5	-178	15	-195	DD-DAO-000-011	A	A3B	10	DAOUDATA
100-FH-2	1.5	-178	15	-195	DD-DAO-000-012	A	A3B	10	DAOUDATA
300-FH-1	1.5	-178	15	-195	DD-DAO-000-013	A	A3B	30	DAOUDATA
400-ST-1	1.5	-178	15	-195	DD-DAO-000-014	A	A3B	45	DAOUDATA
400-ST-1	1.5	-178	15	-195	DD-DAO-000-015	A	A3B	40	DAOUDATA
100-A-3	1.5	-178	15	-195	DD-DAO-000-016	A	A3B	15	DAOUDATA
80-B-7	1.5	-178	15	-195	DD-DAO-000-017	A	A3B	80	DAOUDATA
50-B-9	1.5	-178	15	-195	DD-DAO-000-018	A	A3B	50	DAOUDATA
40-B-10	1.5	-178	15	-195	DD-DAO-000-019	A	A3B	40	DAOUDATA
80-A-11	1.5	-178	15	-195	DD-DAO-000-020	A	A3B	80	DAOUDATA
100-C-13	1.5	-181	15	-195	DD-DAO-000-021	A	A3B	10	DAOUDATA
100-C-12	1.5	-181	15	-195	DD-DAO-000-022	A	A3B	10	DAOUDATA
150-AA-7	1.5	-181	15	-195	DD-DAO-000-023	A	A3B	15	DAOUDATA
150-AA-1	1.5	-181	15	-195	DD-DAO-000-024	A	A3B	15	DAOUDATA
100-BB-1	1.5	-181	15	-195	DD-DAO-000-025	A	A3B	10	DAOUDATA

- Config 파일을 통한 간단한 데이터 매핑
- ID Attribute 지정을 통한 유동적인 데이터 삽입 가능
- Select 또는 ALL 기능으로 효율적인 Update 지원
- Excel Import로 빠르고 간편한 Element 리스트 작성 가능
- 빠르고 정확한 Update로 MH 최소화
Line List를 이용한 빠른 Pipe Attribute Update

DAOU WELD



	A	B	C	D	E	F	G	H
1								
2			DAOU DATA				Rev.	
3							by :	
4								
5								
6	Weld Dia Report							
7	AREA	UNIT	PIPING CLASS	SIZE DN	Weld count			
8	ABILIZ PIPES		A1A	100mm	8			
9				150mm	30			
10				50mm	1			
11				80mm	10			
12			A3B	100mm	32			
13				150mm	16			
14				200mm	21			
15				250mm	5			
16				25mm	2			
17				40mm	5			
18				50mm	57			
19				80mm	40			

- Model 모듈 상에서 Weld 및 Weld Number 자동 생성



- Weld Dia Report 자동 산출 및 Excel TEMPL 적용 가능
해당 기능은 Flow ATTA로 선택적으로 대체가 가능합니다.

- 지정한 값만큼 Fixed Tube Length 별 Weld 생성 기능 제공

- Shop 또는 Field 자동 생성 및 간단한 Weld 변경 기능 제공

- Weld Representation 옵션 사용으로 3D View 내 지정한 Weld만 표시 가능

- Weld Number 관리를 위한 다양한 기능 제공

DAOU ISO & MTO



- 다양한 Format으로 ISO 도면 산출 가능

- Draw Backing Sheet 기능으로 도면 내 회사 로고 및 이미지 사용

- Merge 또는 By Sheet 단위 BOM 산출 가능

SHEET NO	DESCRIPTIC	SIZE	ITEM CODE	QTY
001	ANSI B36	1.250	P-STD	2238mm
001	ANSI B36	1.200	P-STD	3795mm
001	REDU ECC	250 x 20	ER	1
001	REDU CONN	200 x 15	CR	1
001	ELBOW LR	250	EL90	1
001	1-CUT MITF	250	MBEND	1
001	FLANGE WN	200	WNRF	1
001	FLANGE WN	150	WNRF	1
001	GASKET AN	200	GRF	1
001	GASKET AN	150	GRF	1
001	102 STUD	E 3/4 (INS)	ISBBT10	52
001	95 STUD	BC 3/4 (INS)	ISBBR95	5
001	PRESSURE	200 x 15	GA-59	1
001	VALVE GAT	200	GA-59	1

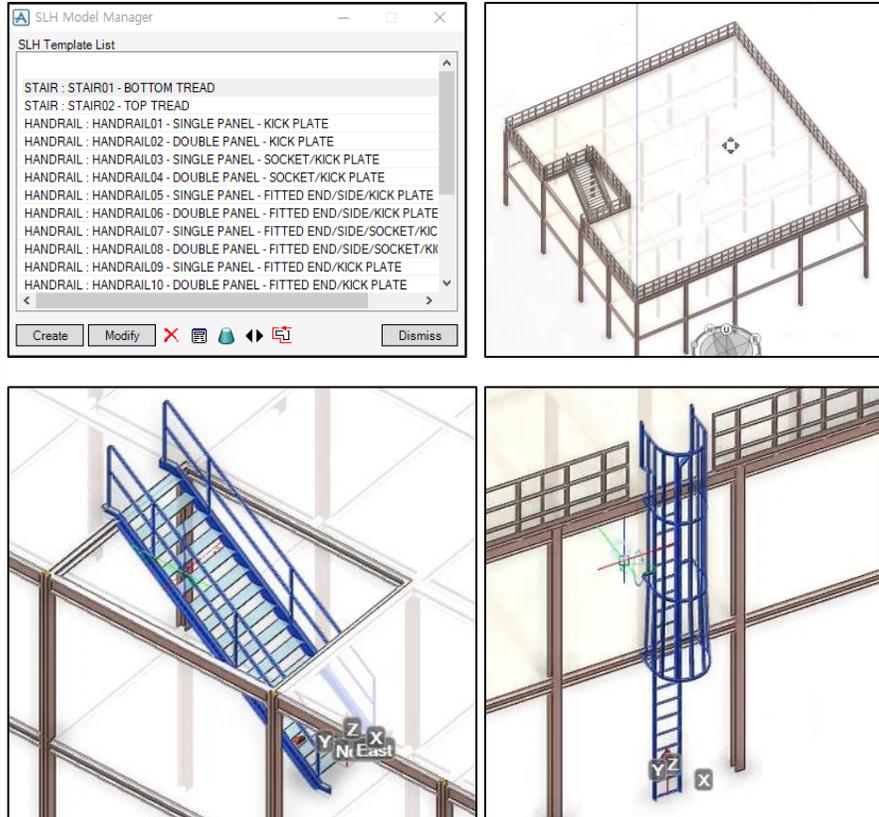
Size1	Size2,3	Commodity Code	Description
3/4		A150/ISBBT	STUD BOLT CW HVY H
3/4		A150/ISBBR	STUD BOLT CW HVY H
200		/A150/P-STD-200	ANSI B36 TO PE SMLES
250		/A150/P-STD-250	ANSI B36 TO PE SMLES
250		/A150/EL90-250	ELBOW LR ANSI B16.9
250		/A150/MBEND-250-1	1-CUT MITRE BEND
200		/A150/GA-59-200	VALVE GATE ANSI B16
150		/A150/GA-59-150-200	PRESSURE SAFETY VAL
200	150	/A150/CR-200-150	REDU CONIC ANSI B16
250	200	/A150/BR-250-200	REDU ECC ANSI B16.9
200		/A150/WNRF-200	FLANGE WN ANSI B16
150		/A150/WNRF-150	FLANGE WN ANSI B16
200		/A150/GRF-200	GASKET ANSI B16.21 #
150		/A150/GRF-150	GASKET ANSI B16.21 #

- Form 내 MTO 옵션을 통해 ISO 도면과 MTO를 한번에 생성

- Form 내 Viewer를 통해 확장자 선택 후 빠른 도면 확인

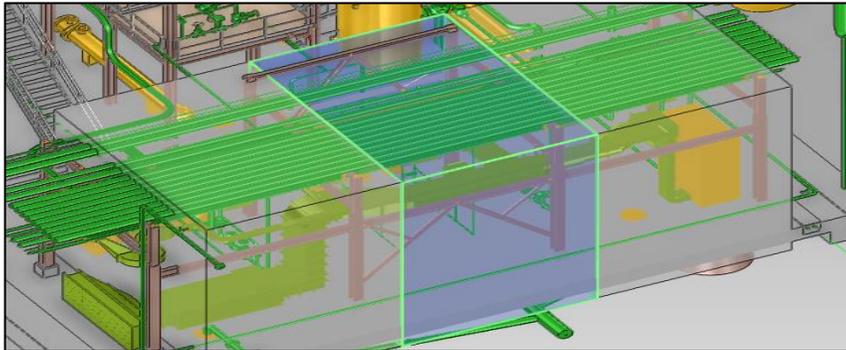
- 지정된 Excel TEMPL 내 MTO Output Export 지원

DAOU SLH



- 다양한 SLH 기본 Template 제공
- 간편한 GUI를 활용한 Stair, Ladder, Handrail 생성 및 수정
- Template 기반의 간편한 모델 생성
- Structure를 활용한 물량 산출 및 Weight 계산
- 생성된 Model에 대한 편리한 수정 기능 제공

DAOU VOLUME



VolumeList	
/Module01	
/Module02	
/Module03	
/Module04	
/Module05	
/Module06	

	B	C	D
Bill of Material by Pipe and Mat	TUBI	/F1C	PIPE SCH40 ANSI B36.10
Weight by Pipe and Mat	FLAN	/F1C	FLANGE SO ANSI B16.5 #150.RF
Volume COG by Pipe and Mat	GASK	/F1C	GASKET RF 1.5MM ANSI B16.5 #150
Global COG by Pipe and Mat	TUBI	/F1C	PIPE SCH40 ANSI B36.10
Weight by Pipe	ELBO	/F1C	ELBOW LR ANSI B16.9 BW
Volume COG by Pipe	TEE	/F1C	TEE ANSI B16.9 BW
Global COG by Pipe	TUBI	/F1C	PIPE SCH40 ANSI B36.10
Weight by Pipe(Volume Pipe Cog)	ELBO	/F1C	ELBOW LR ANSI B16.9 BW
Volume COG by Pipe(Volume Pipe Cog)	FLAN	/F1C	FLANGE SO ANSI B16.5 #150.RF
Global COG by Pipe(Volume Pipe Cog)	GASK	/F1C	GASKET RF 1.5MM ANSI B16.5 #150
Bill of Material by Bulk	VALV	/F1C	VALVE SWING CHK ANSI B16.10 #150.RF
Weight by Bulk	TUBI	/A1A	PIPE SCH40 ANSI B36.10
Volume COG by Bulk	FLAN	/A1A	FLANGE WN ANSI B16.5 #300.RF
Global COG by Bulk	ELBO	/A1A	ELBOW LR ANSI B16.9 BW
Summary Weight	VALV	/A1A	VALVE GATE ANSI B16.10 #150.RF
Summary Volume COG	REDU	/A1A	REDU CONC ANSI B16.9 BW
Summary Global COG	TEE	/A1A	TEE ANSI B16.9 BW
	TUBI	/A1A	PIPE SCH40 ANSI B36.10
	ELBO	/A1A	ELBOW LR ANSI B16.9 BW
	TUBI	/A3B	PIPE SCH80 ANSI B36.10
	ELBO	/A3B	ELBOW 90DEG ANSI B16.11 SW #3000
	REDU	/F1C	REDU CONC ANSI B16.9 BW
	TEE	/F1C	TEE ANSI B16.9 BW
	FLAN	/F1C	FLANGE WN ANSI B16.5 #300.RF
	TUBI	/A150	ANSI B36.10 PE SMLS PIPE STD
	TUBI	/A3B	PIPE SCH40 ANSI B36.10
	TUBI	/A3B	PIPE SCH80 ANSI B36.10

• E3D 내 생성된 Volume을 활용한 모듈 관리 기능 제공
Piping, Equipment, Structure, Support 모두 지원

• Area 별 Pipe Split ATTA Element 자동 생성

• Split ATTA를 활용한 ISO 도면 분할 지원

• 미리 정의된 Volume을 통해 설계 및 산출물 추출 가능
COG, Quantity, Dry Weight, Operation Weight Hydro Test Weight

• Volume List 텍스트 파일을 통한 Volume Model 자동 생성

DAOU CLASH

The screenshot displays the DAOU CLASH software interface. At the top, there is a 'ClashMatrix' table with columns for various disciplines: PIPE, EQUI, DUCT, ELEC, INST, SAFE, SUPP, and STRU. Below this, there are several 3D renderings of pipe clashes, showing different types of intersections and overlaps. At the bottom, there is a summary table and a line graph.

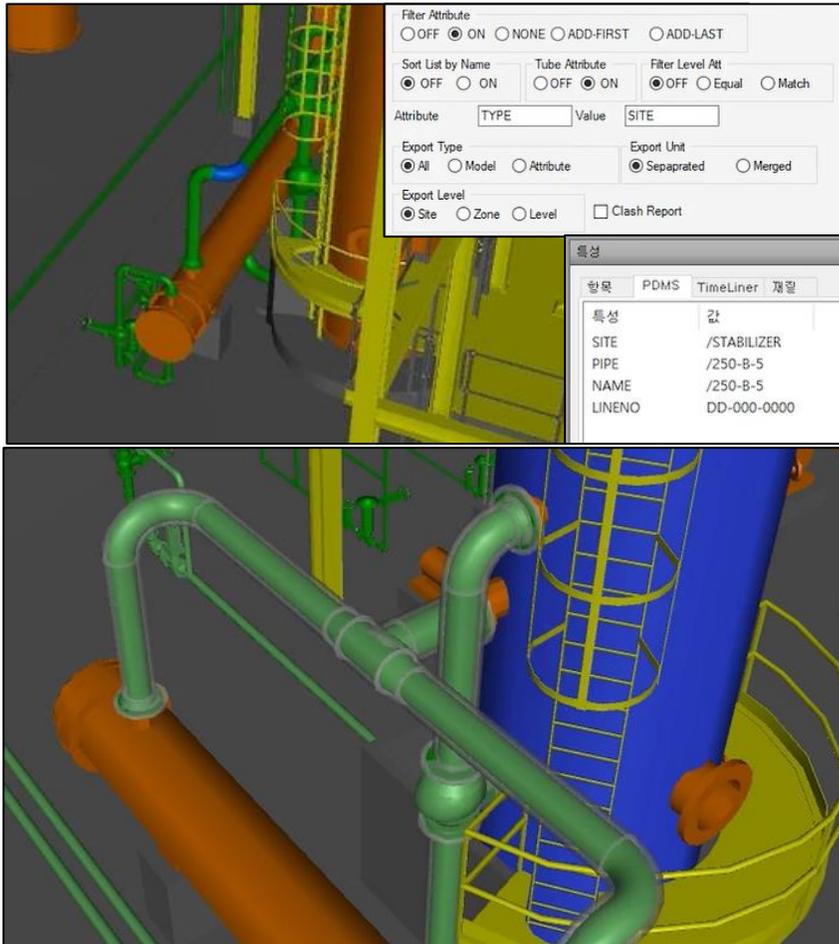
Discipline	Count	Value	Value
PIPE-MECH	20	2312	2332
PIPE-MATH	0	764	764
ELEC-ELEC	37	977	1014
ELEC-INST	0	126	126
ELEC-SAFE	0	716	716
ELEC-TELE	5	105	110
ELEC-SUPP	16	1339	1355
ELEC-HVAC	0	88	88
ELEC-ARCH	10	781	791
ELEC-STRU	6	222	228
ELEC-FUTE	0	16	16
ELEC-PLUM	0	0	0
ELEC-HULL	0	0	0
ELEC-MECH	18	343	361
ELEC-MATH	0	317	317
INST-INST	0	30	30
INST-SAFE	0	102	102
INST-TELE	0	72	72
INST-SUPP	1	461	462
INST-HVAC	0	33	33

Category	Count
Total Clash	95739
Approved Clash	94146
Unapproved Clash	1593

- Clash Point 저장을 위한 오라클, SQL 등 외부 Database 불필요
- 그래픽, 텍스트, 조건 설정을 통한 간단한 Clash 체크리스트 설정
- Clash Matrix 설정으로 Discipline 별 Clash Point 분류 Clash 체크리스트 자동 생성
- Engineering Tag 별 Group 관리로 Clash Point 50 ~ 70% 감소
- Dynamic 기능을 통해 3D View 상에서 빠르고 쉽게 Clash Point 확인 가능
- 4방향 Clash 이미지가 적용된 PDF, Excel 등 다양한 Report 추출
- 간섭부분에 대한 Comment 입력 및 History 생성 등 다양한 Status 관리기능 제공
간섭에 대한 그래픽 Status report 추출로 간섭 처리 진행상황을 빠르게 확인할 수 있습니다.

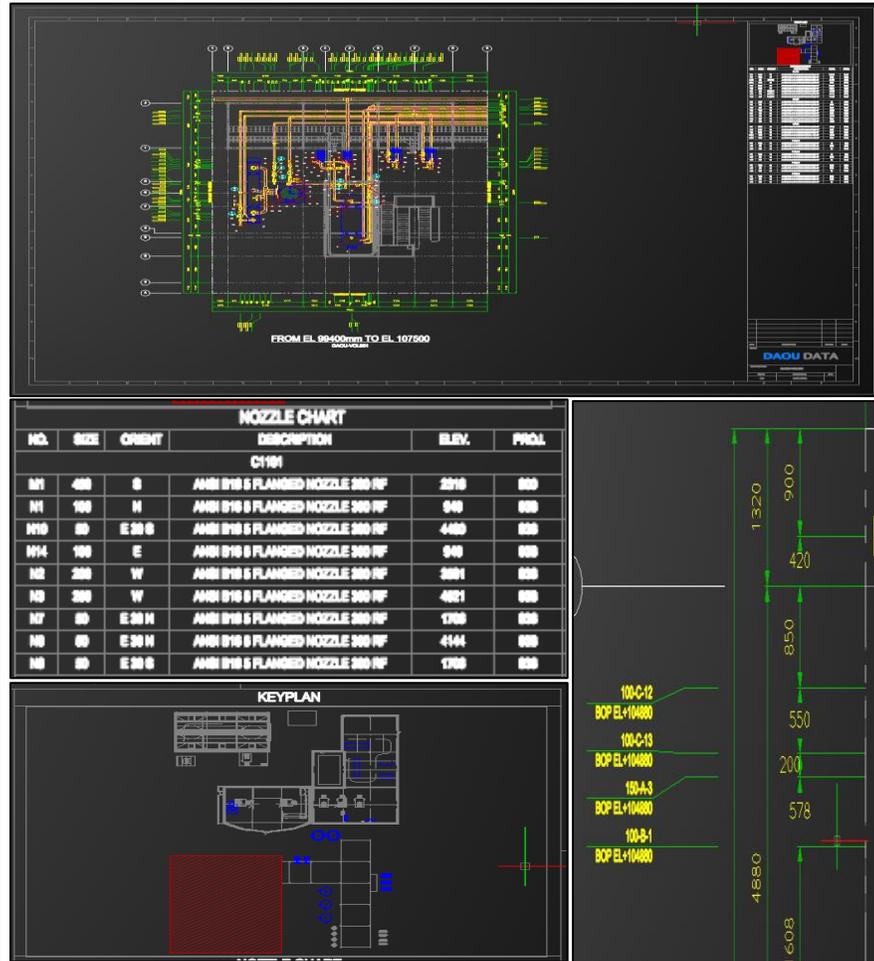


DAOU REVIEW



- Attribute 데이터 매핑을 통한 특성 이름 변경 옵션 지원
- Attribute 필터 옵션 사용으로 특성 필터링 가능
- Review Export 배치 파일 생성 기능
- Level 별 결과물 분할 및 통합 옵션 지원
- INSUL Model 별도 추출로 간단하고 빠른 INSUL Control 가능

DAOU DRAW



- Model 모듈 내 생성된 Volume을 통한 도면 자동 생성



- Match Line Text 자동 생성 및 인접한 도면의 Drawing Number 인식

- Terminal Point Chart, Nozzle Chart 자동 생성

- Key Plan, Hatching, Break 및 Grid Symbol 자동 생성

- Dimension, 각종 Label 자동 생성 및 편리한 사용자 Custom 기능 제공

- Template을 통한 Project 별 Backing Sheet 설정 가능

DAOU SESSION



Session Check

Option: DATE SESS BOTH REPORT DATAL PATH: C:\TEMP\SESSION

START: YEAR 2024 MONTH 8 DATE 28 HOUR 9 MINUTE 00 SESSION

END: YEAR 2024 MONTH 8 DATE 28 HOUR 10 MINUTE 42 SESSION

Check dismiss

```
===== SESSION NUMBER =====
<REAL> 29
===== SESSION DATE =====
Sessdate 9:58 28 Aug 2024
===== SESSION COMMENT =====
Sesscomment Default session comment
===== SESSION USER =====
Sessuser avevatech02
$)
```

- .SITE-DAOU-001-SESSION28.TXT
- .SITE-DAOU-001-SESSION29.TXT
- .SITE-DAOU-001-SESSION30.TXT
- .SITE-DAOU-001-SESSION31.TXT
- .SITE-DAOU-001-SESSION32.TXT
- .SITE-DAOU-001-SESSION33.TXT

- 간단한 UI를 통한 Session Report 추출
- Session 별 분할 Report 파일 생성
- Date, Session 선택 옵션 제공
- 지정한 Data 또는 Session에 따른 Model 변경 정보 확인 가능
- Session 별 User 정보 확인 및 변경 내용 확인

DAOU SPOOL

The screenshot displays the DAOU SPOOL software interface. At the top, there are tabs for Spool, Field, Weld, Joint, Bolt, Additional, Split Atta, Spldrg, and Pipe. Below these are buttons for Show Weld, Update Weld, Update Single Row, and Create Split Atta. The main area contains several input fields for Weld Type, Prefix, Splnum, FType, FCode, Item, No, Spname, Type, Second, Rev, and DummySpl. A table below shows a list of spool data with columns for Part No, ref, Name, Prefix, Number, and Element.

Part No	ref	Name	Prefix	Number	Element
0	=1	SPOOL 1 of SPLDRG /100-B-1_1	SP	1	WELD 1 of BRANCH /100-B-1-B1
0	=1	SPOOL 2 of SPLDRG /100-B-1_1	SP	2	WELD 2 of BRANCH /100-B-1-B1
1	=1	SPOOL 2 of SPLDRG /100-B-1_1	SP	2	leave tube of WELD 2 of BRANCH /100-B-1-B1
0	=1	SPOOL 2 of SPLDRG /100-B-1_1	SP	2	WELD 3 of BRANCH /100-B-1-B1
0	=1	SPOOL 3 of SPLDRG /100-B-1_1	SP	3	WELD 4 of BRANCH /100-B-1-B1
2	=1	SPOOL 3 of SPLDRG /100-B-1_1	SP	3	leave tube of WELD 4 of BRANCH /100-B-1-B1

Below the table, there are two 3D CAD models of piping systems. The left model shows a complex piping assembly with a blue valve labeled 'PT 115'. The right model shows a simpler piping system with several spool components labeled 'S 9', 'S 5', 'S 7', and 'S 3'.

- RVM File 용 Spool Hierarchy 자동 생성



- Spool Iso Drawing 자동 생성 기능 포함으로 빠른 결과 확인 가능

- Weld, Bolt, Joint 등 여러 Element 통합 관리 및 Report 추출 가능
Spool BOM, Weld Tracking, Weld, Bolt Report 등

- Form 내 간단한 Weld 생성 및 수정 옵션으로 빠른 Spool 조정 가능

- 다양한 Filter 기능 제공으로 효율적인 작업 지원

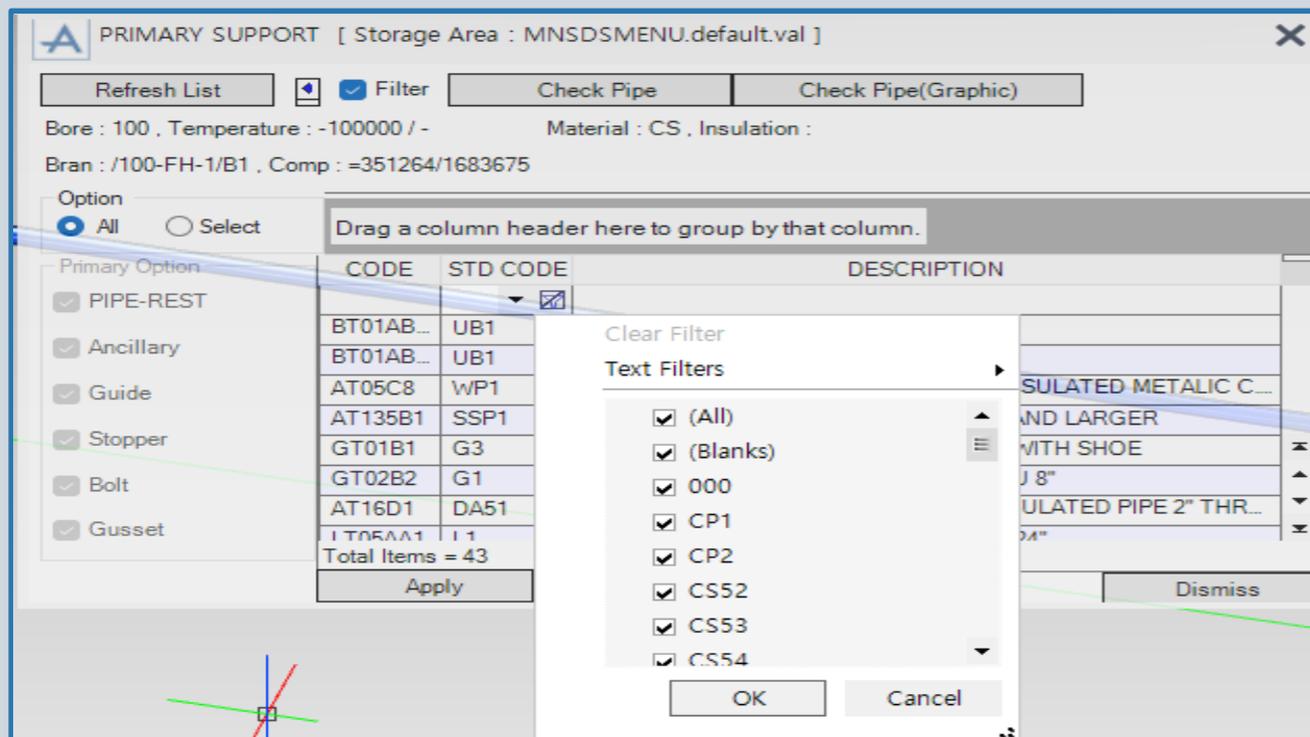
- Spool 자동 생성 및 Spool Number 관리 기능을 통한 MH 절약

• 2

DAOU Support

DAOU Package 솔루션 소개

DAOU Support



Support Modeling

- ✓ 기본 Menu 제공
- ✓ Support Type, Description 별 Filter 기능 제공
- ✓ Pipe Line Condition 별 Filter기능 제공
 - 온도 , Insulation , Material , Bore Size

DAOU Package 솔루션 소개

DAOU Support

The screenshot displays the software interface for support modeling. On the left is a control panel with sections for 'Primary Support' (including 'Create Support', 'Distance', and 'Through' options) and 'Secondary Support' (including 'ID Infront Face' and 'Length' settings). A 3D model of a blue support structure is shown in the center. A 'DAOU Support Mark' dialog box is open, displaying the following text:

```

Support Mark
Clear Message
/PSA-0001/DATUM : unset
/PSA-0001/SREF : BAG1-WE-600
    
```

At the bottom, a BOM table is visible:

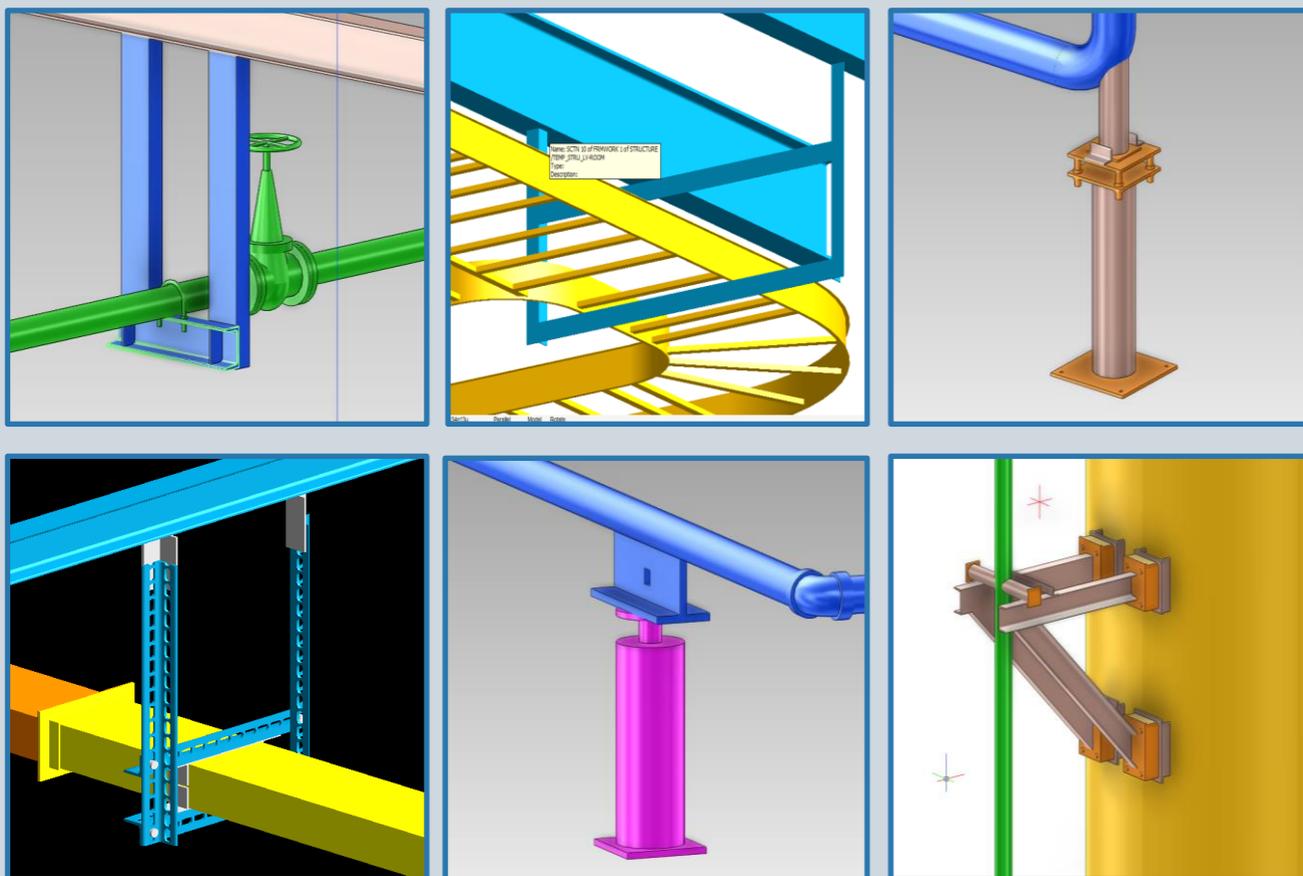
VALVES / IN-LINE ITEMS				
8	VALVE GATE ANSI B16.10 #150.RF 9% NICKEL STEEL	4	GA-59	1
SUPPORTS				
9	BAG1-WE-600	4	TF01A1.4	1
PIPE SPOOLS				
[1] [2]				

Support Modeling

- ✓ Type별 공통 GUI 제공
- ✓ Iso Support Marking 자동생성

DAOU Package 솔루션 소개

DAOU Support

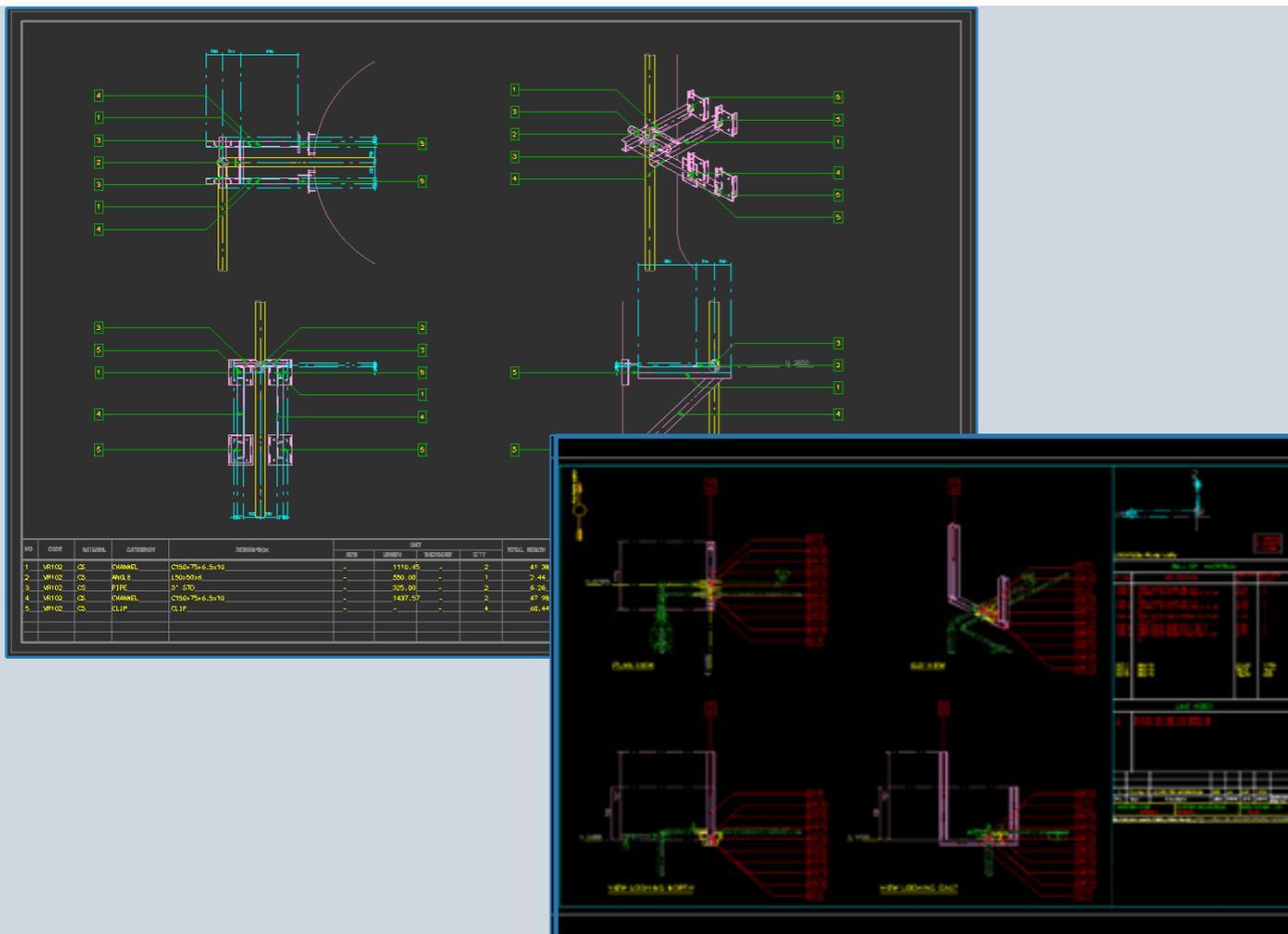


Support Modeling

- ✓ **Piping Support**
 - Primary Support (Shoe, U-bolt..)
 - Secondary Support
- ✓ **Elec, Instrument Support**
- ✓ **HAVC Support**
- ✓ **Dummy, Trunnion Support**
- ✓ **Vessel Support**

DAOU Package 솔루션 소개

DAOU Support



Support Drawing

- ✓ Support 상세 도면 자동 생성
- ✓ Piping, Elec, Inst, HVAC, Dummy, Trunnion, Vessel
- ✓ Support Location Drawing

DAOU Package 솔루션 소개

DAOU Support

A	B	C	D	E	F	G	H	I	J	K	L
COMPANY:			Moon Project						CONTRACTOR:		
											
DOCUMENT TITLE									SUB-CONTRACTOR:		
DOCUMENT NO.											
S.No.	Pipe support no.	Line No.	Mark No.	Position	Specification	Size	Sctn Length	Mark V			
1	1	IPSA-1102-0001	IP1102-100-PG-BD-12163-P	PS04	E 152240 N 223590 U 36600	PIPE-0001-1101	PIPE SHOE PS04-100-D				
2			IP1102-150-PG-BD-2109-H	PS04	E 152240 N 223300 U 36600	PIPE-0001-1101	PIPE SHOE PS04-150-2-A				
3			IP1102-150-PG-BD-2109-H	PS11	E 152240 N 223300 U 36620	PIPE-0001-1101	PIPE SHOE STOP PS11-150-3				
4			IP1102-150-PG-BD-2109-H	PS07	E 152240 N 223300 U 36600	PIPE-0001-1101	PIPE SHOE GUIDE PS07-150-3-80				
5			IP1102-150-PG-BD-2109-H	PS06	E 152240 N 223300 U 36690	PIPE-0001-1101	SADDLE PLATE PS06-150-A-D-350				
6	2	IPSA-1102-0002	IP1102-100-PG-BD-2160-H	PS04	E 156172 N 223583 U 36600	PIPE-0001-1101	PIPE SHOE PS04-100-2-A				
7			IP1102-100-PG-BD-2160-H	PS06	E 156172 N 223583 U 36690	PIPE-0001-1101	SADDLE PLATE PS06-100-A-D-350				
8			IP1102-150-PG-BD-2109-H	PS04	E 156172 N 223300 U 36600	PIPE-0001-1101	PIPE SHOE PS04-150-2-A				
9			IP1102-150-PG-BD-2109-H	PS13	E 156172 N 223300 U 36600	PIPE-0001-1101	PIPE SHOE HOLD DOWN PS13-150-A-3-3				
10			IP1102-150-PG-BD-2109-H	PS06	E 156172 N 223300 U 36690	PIPE-0001-1101	SADDLE PLATE PS06-150-A-D-350				
11	3	IPSA-1102-0003	IP1102-100-PG-DD-12110-P	PS01	E 151148 N 223300 U 36600	PIPE-0001-1101	U BOLT NON GRIP TYPE PS01-100-A-120				
12			IP1102-50-PG-DD-12125-P	PS04	E 151148 N 223590 U 36600	PIPE-0001-1101	PIPE SHOE PS04-50-4-A				
13	4	IPSA-1102-0004	IP1102-100-PG-DD-12110-P	PS00	E 148994 N 223300 U 36600	PIPE-0001-1101	Pipe Rest PS00				
14	5	IPSA-1102-0005	IP1102-80-PG-DD-12162-P	PS01	E 152900 N 223583 U 38300	PIPE-0001-1101	U BOLT NON GRIP TYPE PS01-80-A-95				
15	6	IPSA-1102-0006	IP1102-80-PG-DD-12162-P	PS02	E 154841 N 223583 U 36700	PIPE-0001-1101	U BOLT GRIP TYPE PS02-80-A-90.5				
16	7	IPSA-1102-0007	IP1102-100-PG-BD-12105-P	PS00	E 145884 N 213835 U 36607	PIPE-0001-1101	Pipe Rest PS00				
17	8	IPSA-1102-0008	IP1102-100-PG-BD-12105-P	PS08	E 147280 N 211859 U 36624	PIPE-0001-1101	PIPE GUIDE PS08-100-3				
18	9	IPSA-1102-0009	IP1102-100-PG-BD-12105-P	PS09	E 148675 N 211859 U 36631	PIPE-0001-1101	PIPE STOP PS09-100-D-3				
19	10	IPSA-1102-0010	IP1102-100-PG-BD-12107-P	PS00	E 144829 N 213835 U 36602	PIPE-0001-1101	Pipe Rest PS00				
20	11	IPSA-1102-0011	IP1102-50-PG-AD-12123-P	PS01	E 146485 N 213472 U 36809	PIPE-0001-1101	U BOLT NON GRIP TYPE PS01-50-A-66				
21	12	IPSA-1102-0012	IP1102-100-VH-AL3-5060	PS08	E 150727 N 223850 U 38372	PIPE-0001-1101	PIPE GUIDE PS08-100-3				
22	13	IPSA-1102-0013	IP1102-100-VH-AL3-5061	PS08	E 150343 N 223850 U 38372	PIPE-0001-1101	PIPE GUIDE PS08-100-3				
23	14	IPSA-1102-0014	IP1102-100-PG-DD-12110-P	PS00	E 147035 N 223300 U 36600	PIPE-0001-1101	Pipe Rest PS00				
24	15	IPSA-1102-0015	IP1102-150-PG-AD-2104-H	PS05	E 146351 N 214742 U 38903	PIPE-0001-1101	PIPE SHOE - SLOPING LINES PS05-150-A-100				
25	16	IPSA-1102-0016	IP1102-150-PG-AD-2104-H	PS05	E 144395 N 215556 U 37950	PIPE-0001-1101	PIPE SHOE - SLOPING LINES PS05-150-A-100				
26	17	IPSA-1102-0017	IP1102-400-PG-EL-2631	PS08	E 148795 N 210450 U 36605	PIPE-0001-1101	PIPE GUIDE PS08-400-3				
27	18	IPSA-1102-0018	IP1102-400-PG-EL-2631	PS10	E 148798 N 210450 U 36605	PIPE-0001-1101	PIPE STOP PS10-400-C-3				
28	19	IPSA-1102-0019	IP1102-400-PG-EL-2631	PS14	E 148844 N 210450 U 36645	PIPE-0001-1101	PIPE HOLD DOWN PS14-400-0-3				

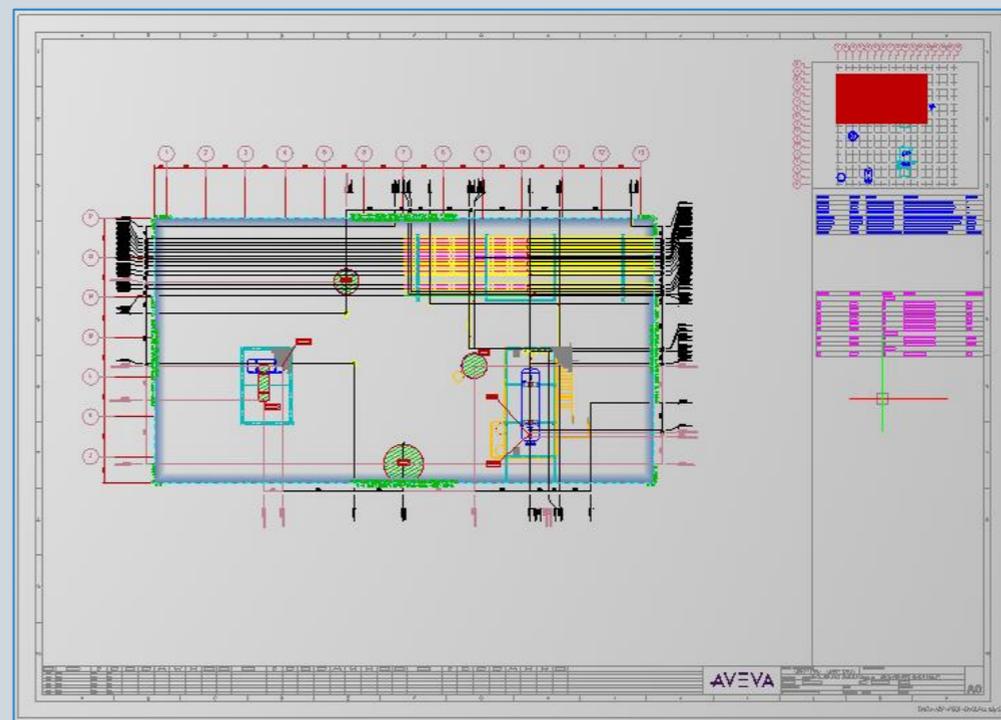
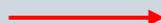
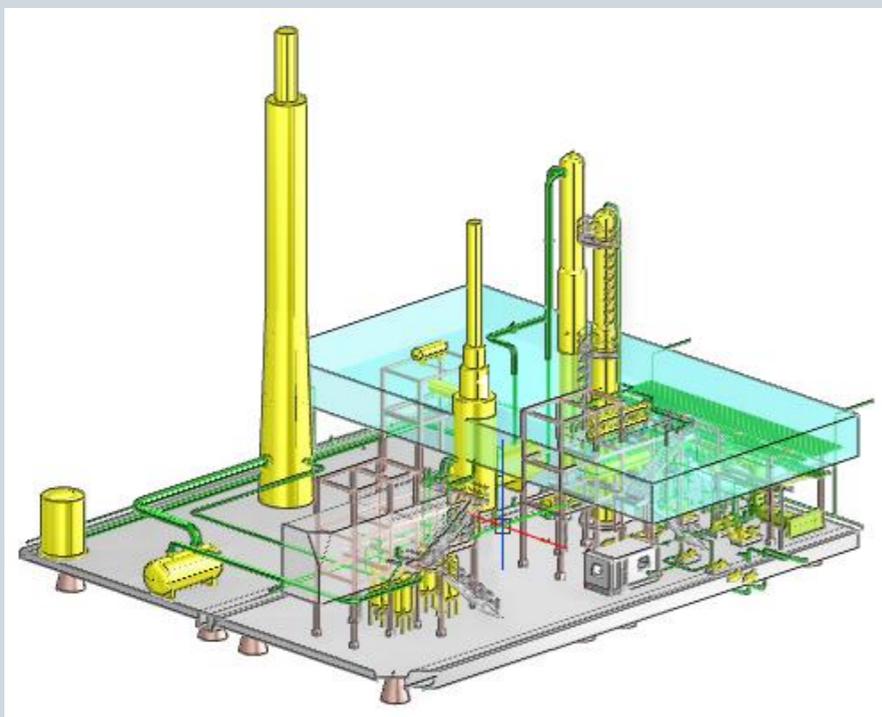
Support Report

- ✓ Support MTO 자동 생성
- ✓ Support Schedule 자동 생성
- ✓ Support Weight 자동 계산

DAOU Package 솔루션 소개

DAOU Drawing

DAOU Drawing Manager는 Model내에 생성된 Volume을 기반으로 도면을 생성하고 도면에 필요한 Dimension 및 Label 등을 자동으로 생성하고 관리할 수 있는 도면 자동화 프로그램입니다.



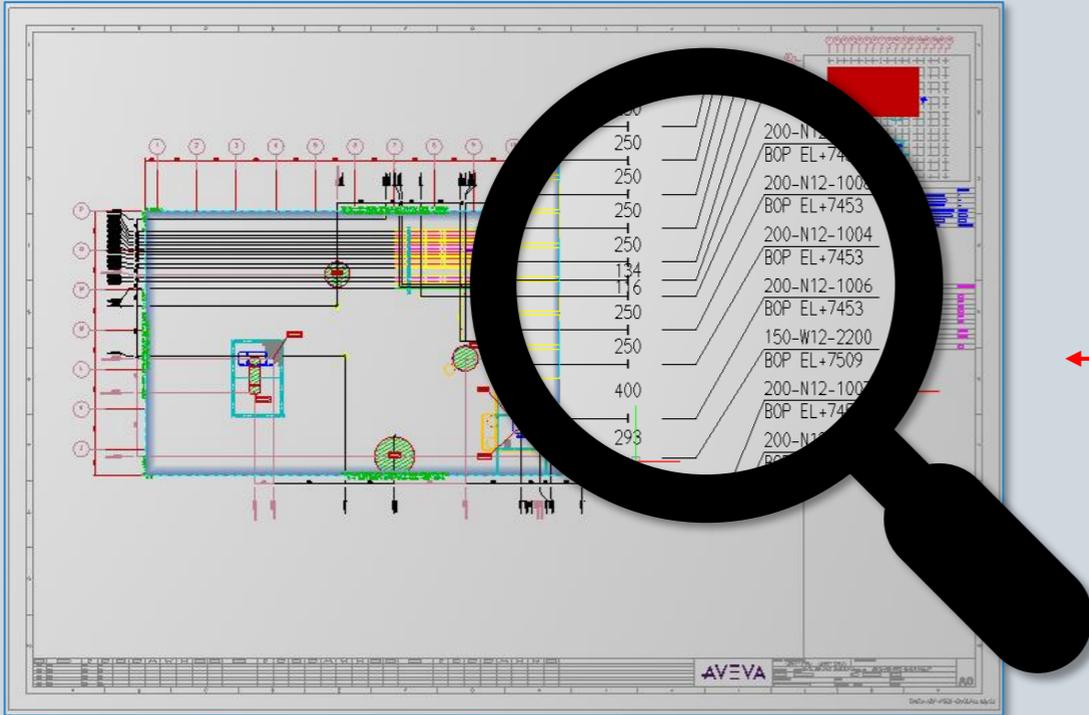
3

DAOU Draw

DAOU Package 솔루션 소개

DAOU Drawing

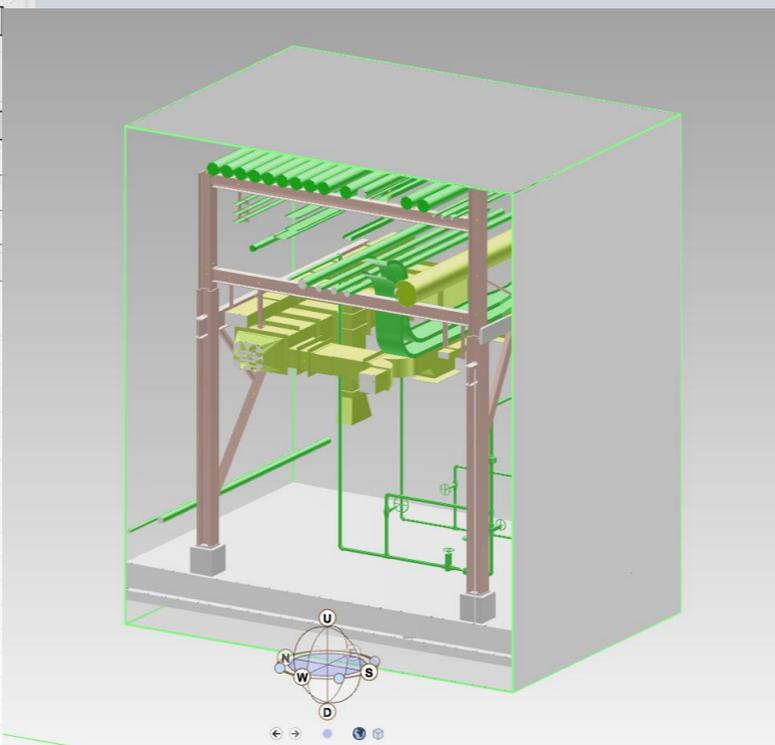
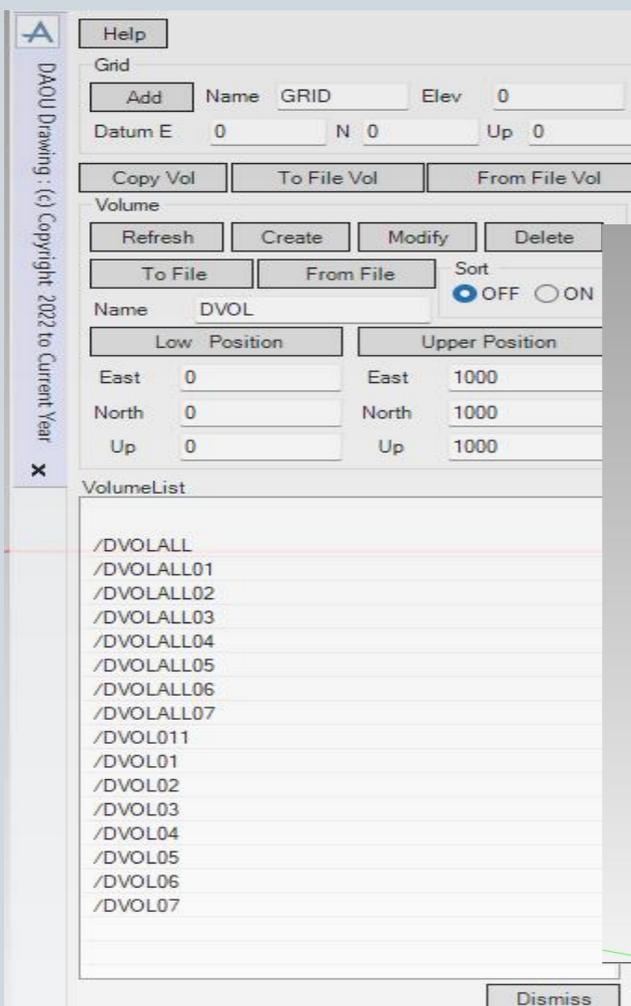
DAOU Drawing을 사용하면 도면에 필요한 Dimension과 Labeling을 자동화 하여 M/H를 단축시킬 수 있습니다.



Annotation	Option	Gtype	KeyPlan	Utility	Misc
<input checked="" type="checkbox"/> Label			<input checked="" type="checkbox"/> LabelArr		
<input checked="" type="checkbox"/> ExtDim	<input checked="" type="checkbox"/> PlaceLab		<input type="checkbox"/> Bound	<input type="checkbox"/> Clear	<input checked="" type="checkbox"/> Offset
<input type="checkbox"/> IntDim	<input type="checkbox"/> PlaceLab		<input checked="" type="checkbox"/> Grid		
<input checked="" type="checkbox"/> FlowMrk/Slop			<input checked="" type="checkbox"/> MatchLine		
<input checked="" type="checkbox"/> Schedule			<input type="checkbox"/> Title		
<input type="checkbox"/> ExtLabel			<input type="checkbox"/> ExtLabelArr		
<input type="checkbox"/> Rotate View			<input checked="" type="checkbox"/> KeyPlan		
<input checked="" type="checkbox"/> KeyPlan Grid	<input type="checkbox"/> Rotate		<input type="checkbox"/> Pipe Cut		
<input checked="" type="checkbox"/> Pipe Break(Plan D)			<input checked="" type="checkbox"/> Hatching		
<input type="checkbox"/> Update Design			<input checked="" type="checkbox"/> Space Search		
DrawingAnnotation			<input checked="" type="checkbox"/> Auto Scale View		
Drawing Annotation Common Value					
Save Default		Load Default			
Drawing Annotation Value					
Refresh Default		Save Default			
DefaultFile		DrawingVolumeManagerDfts			

DAOU Package 솔루션 소개

DAOU Drawing

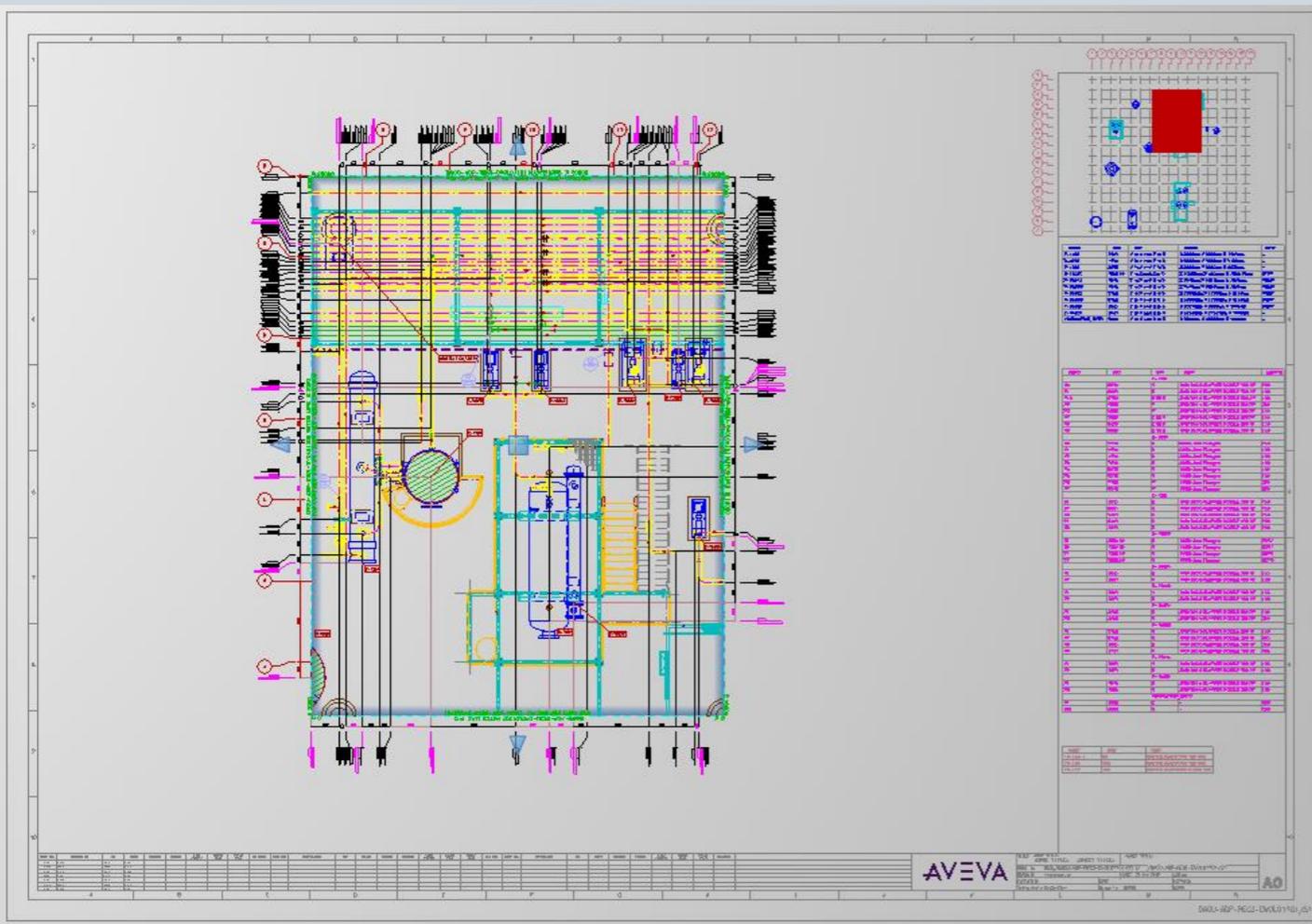


Volume Drawing 자동생성

- ✓ 미리 정의된 Volume 사용
- ✓ Volume별 Scale 별도 지정 가능

DAOU Package 솔루션 소개

DAOU Drawing



GA Drawing 자동생성 – General Arrangement

- ✓ Model에서 정의된 Volume 사용
- ✓ Dimension 자동 표기
- ✓ 각종 Label 자동생성(Valve, Inst, Tie-In, Equip, Nozzle 등등)
- ✓ Grid Symbol 자동생성
- ✓ Piping Flow/Slop Mark 자동생성
- ✓ BOM/Schedule 자동생성
- ✓ Key Plan/Hatching/Break Symbol 자동생성
- ✓ Scale 자동 정의
- ✓ Scale 별도 지정
- ✓ AutoCad Layer 설정기능(Model, Tag, Dim...)

DAOU Package 솔루션 소개

DAOU Drawing

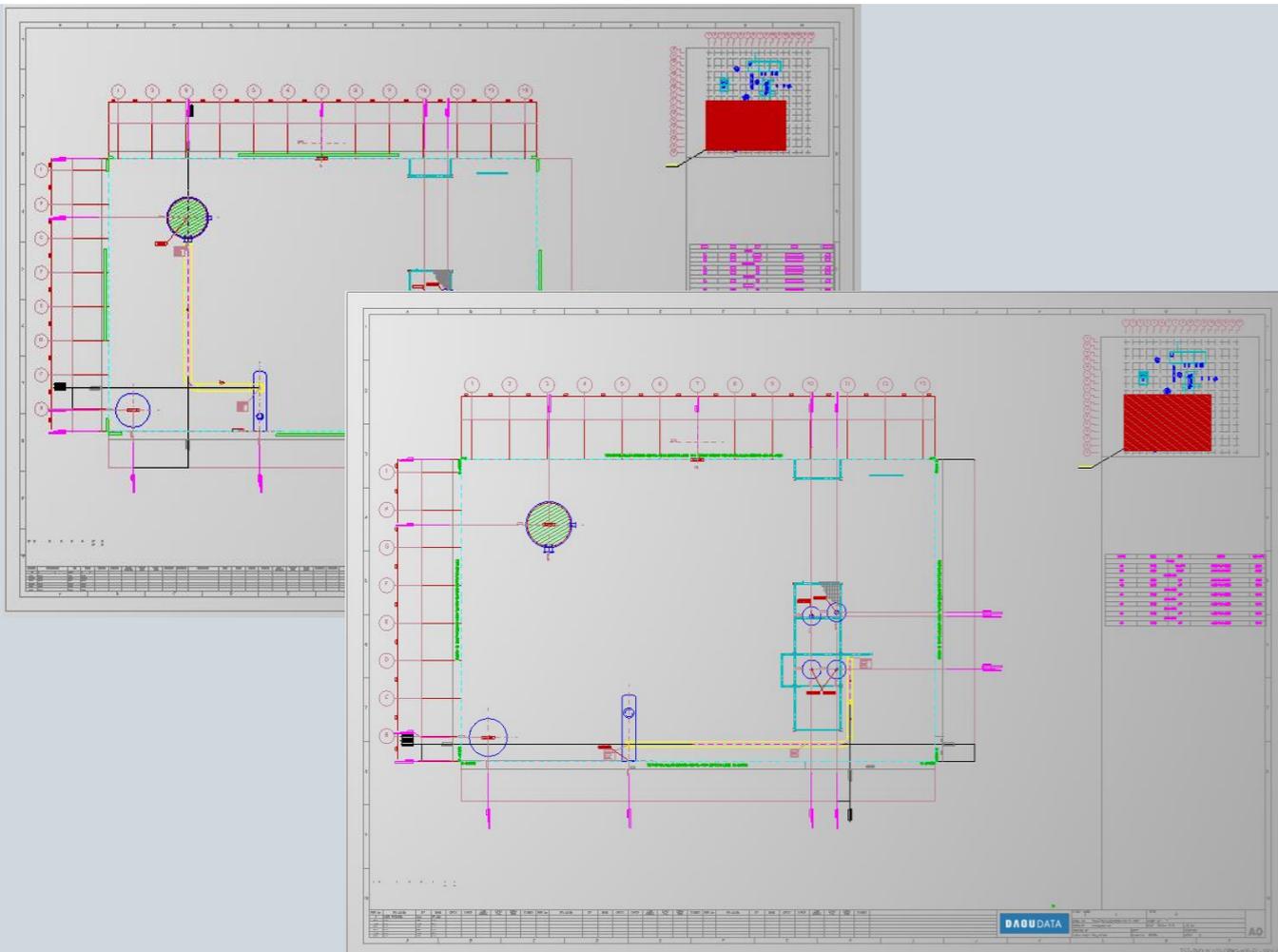


GA Drawing 자동생성 – Support Location

- ✓ Support Location Drawing
- ✓ Support Tag 자동 생성
- ✓ Support Dimension 자동생성
- ✓ Support List, MTO 자동생성

DAOU Package 솔루션 소개

DAOU Drawing

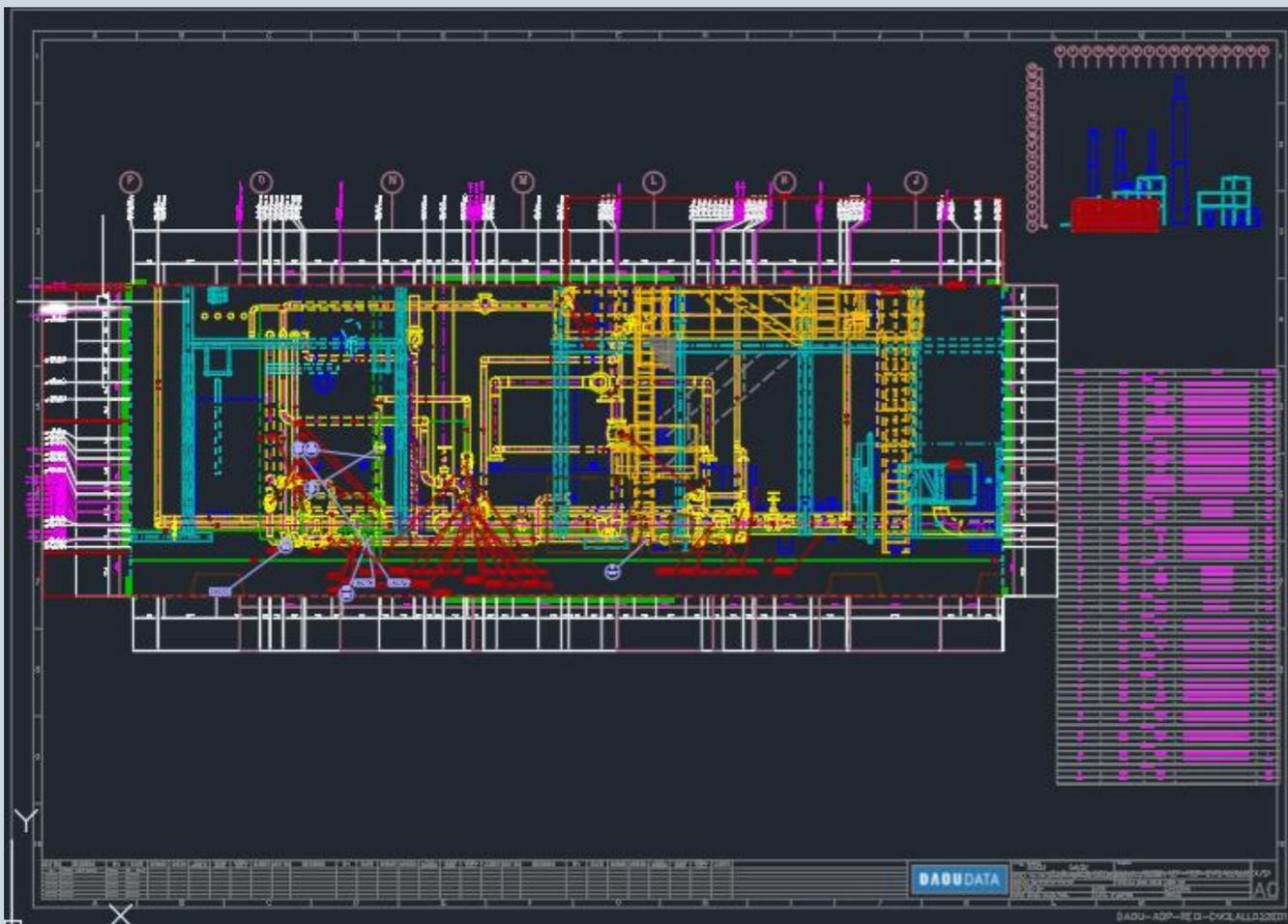


GA Drawing 자동생성 – Module Pipe and Support

- ✓ Module 별 Single Pipe Drawing 자동생성
- ✓ Module 별 Single Pipe Tag 자동 생성
- ✓ Module 별 Single Pipe Dimension 자동생성
- ✓ Module 별 Single Pipe List, MTO 자동생성
- ✓ Boundary Tag(Tie-in) Symbol 자동생성

DAOU Package 솔루션 소개

DAOU Drawing

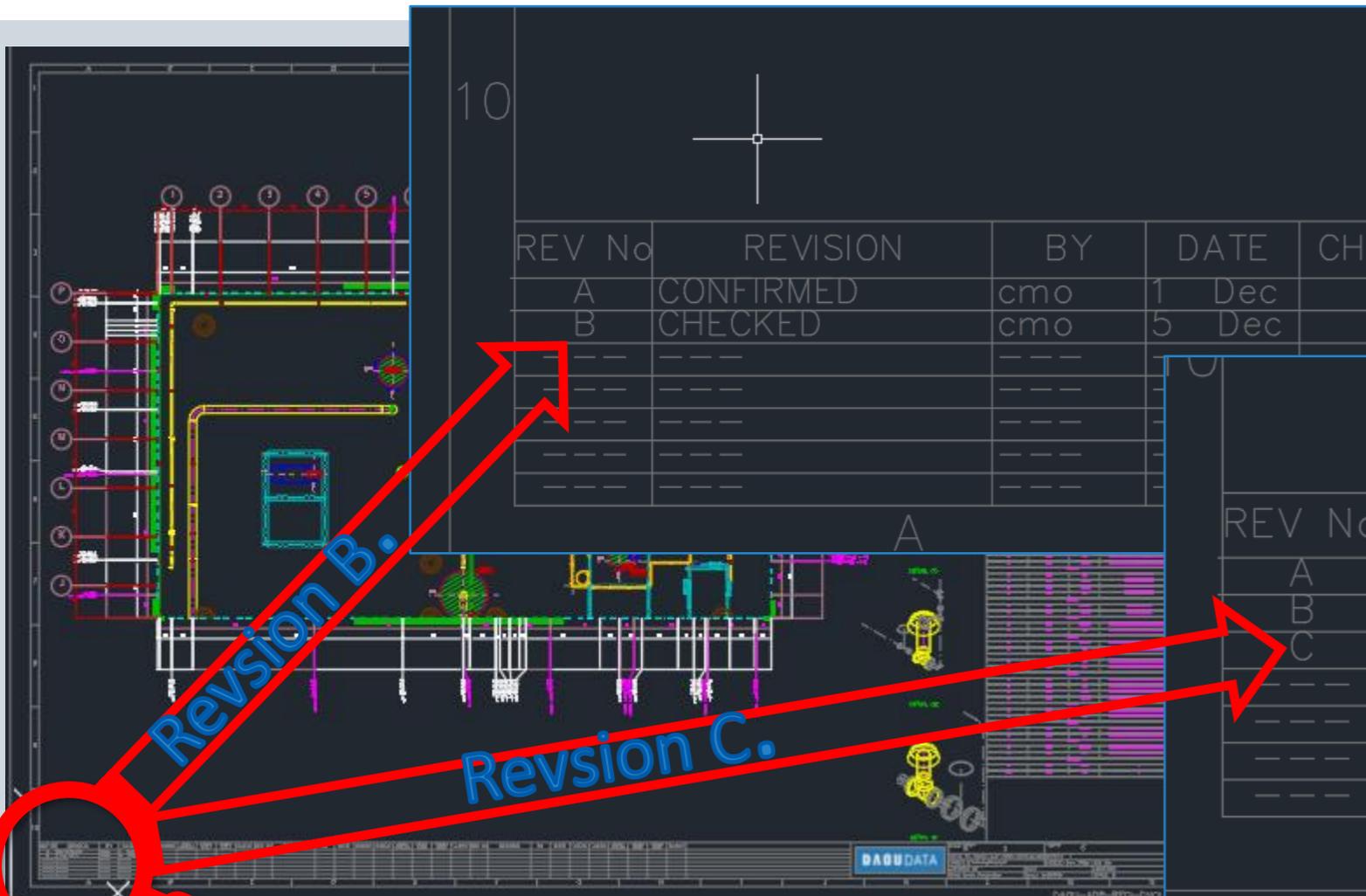


GA Drawing 자동생성 – Section Drawing

- ✓ Section Drawing 자동생성

DAOU Package 솔루션 소개

DAOU Drawing



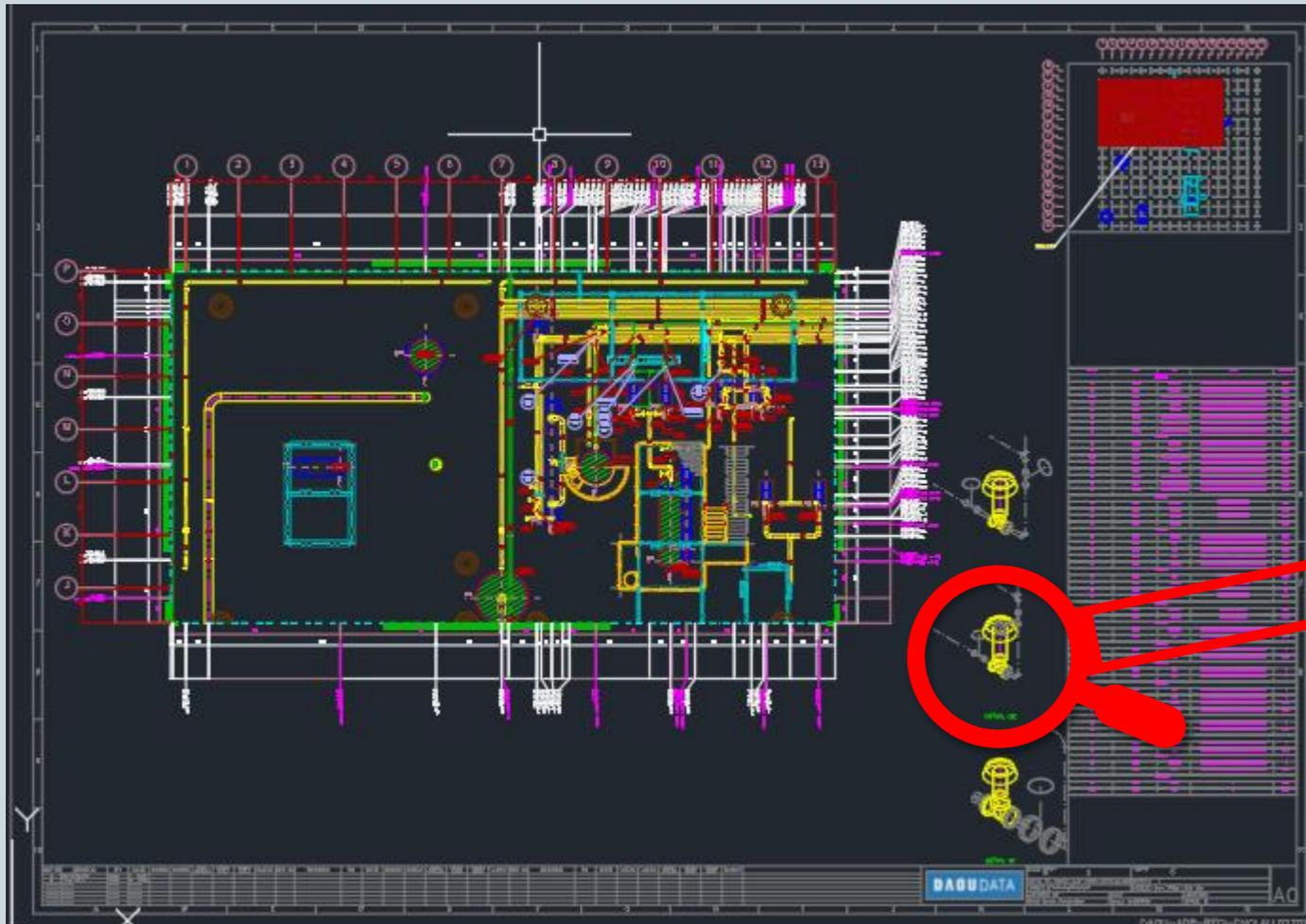
GA Drawing 자동생성 – Revision Control

- ✓ Revision Data 자동생성

REV No	REVISION	BY	DATE	CH
A	CONFIRMED	cmo	1 Dec	
B	CHECKED	cmo	5 Dec	
C	APPROVED	cmo	7 Dec	
---	---	---	---	
---	---	---	---	
---	---	---	---	

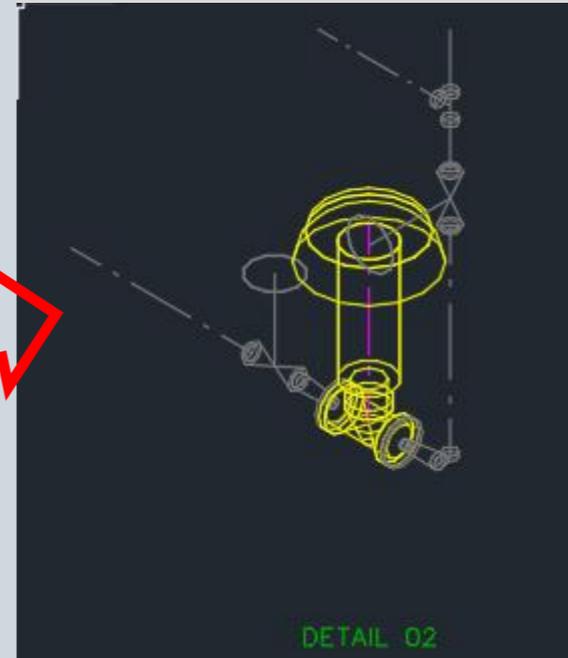
DAOU Package 솔루션 소개

DAOU Drawing



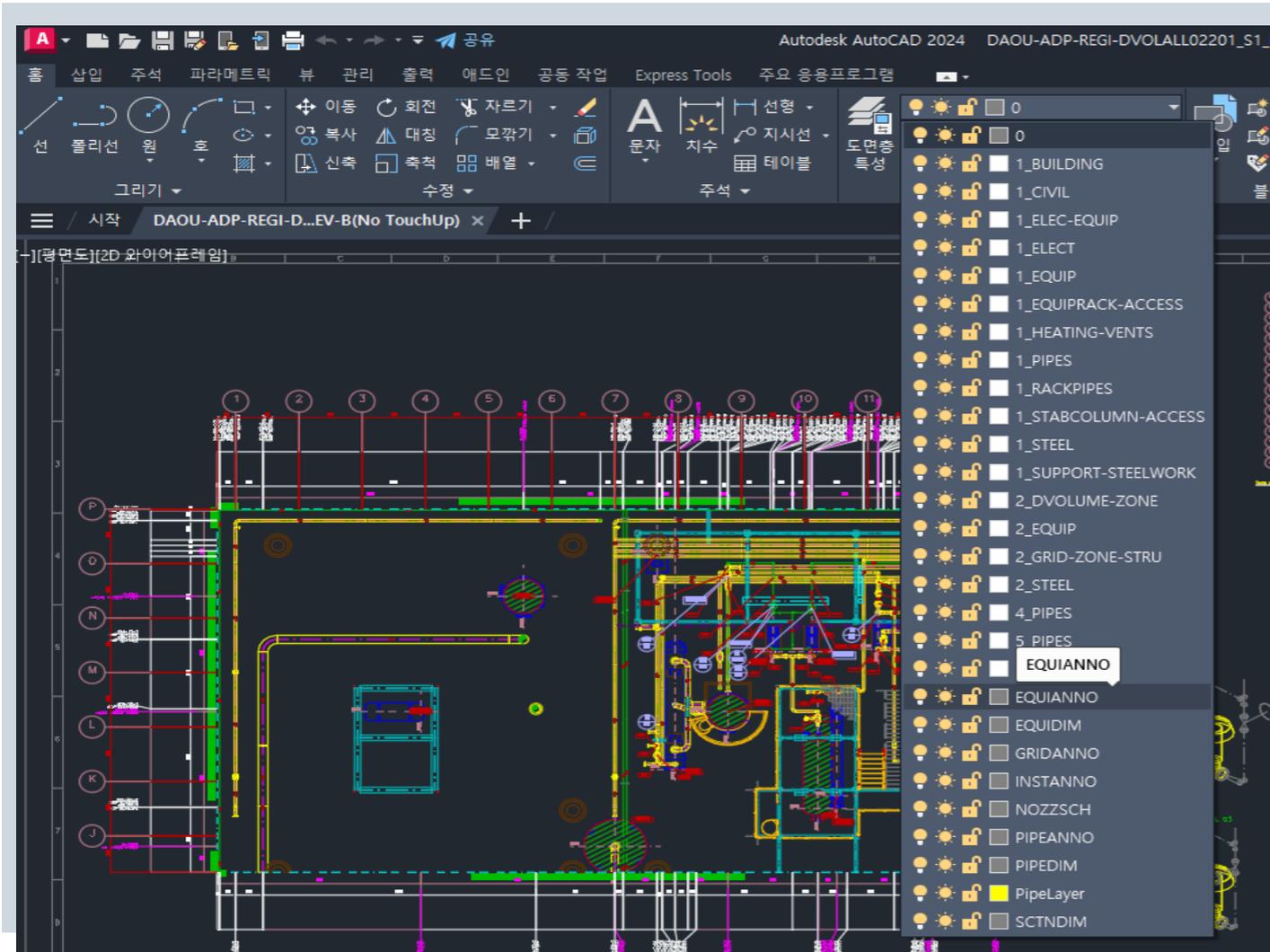
GA Drawing 자동생성 – Detail View

✓ Detail View 자동 생성



DAOU Package 솔루션 소개

DAOU Drawing

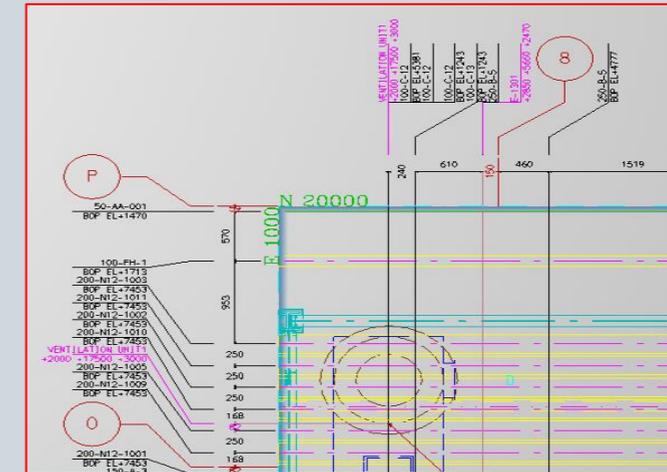
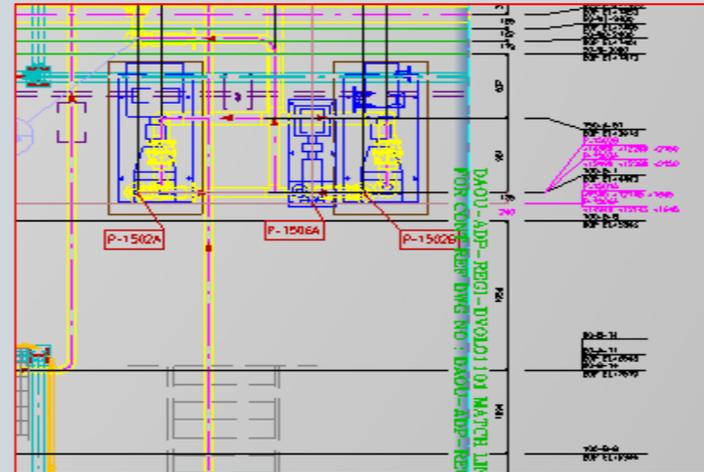
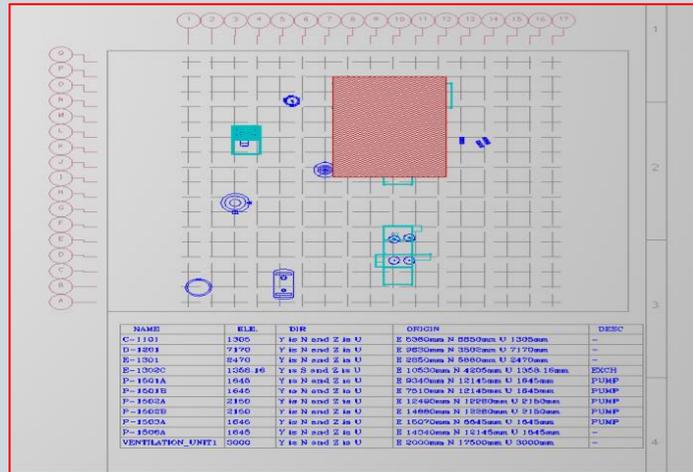


GA Drawing Auto cad Layer 자동생성

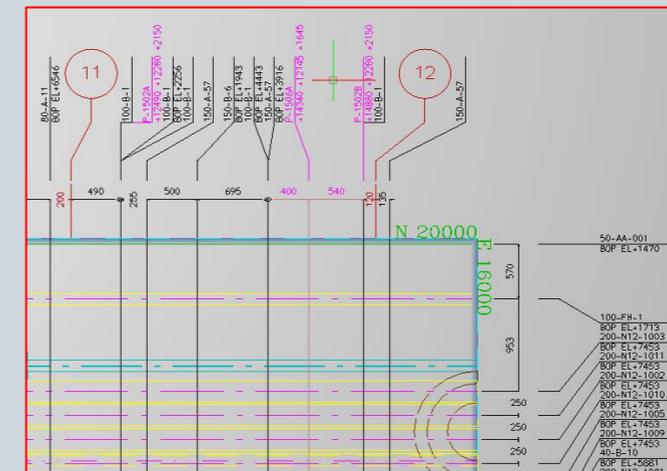
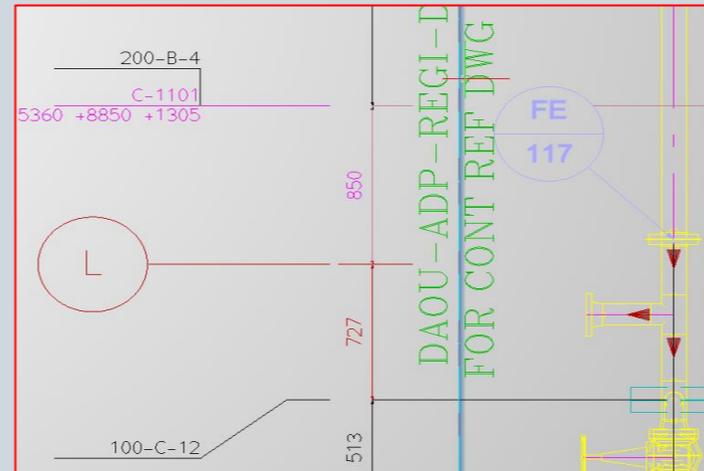
- ✓ Auto Cad Layer 자동생성 – Model Discipline별
- ✓ Auto Cad Layer 자동생성 – Tag별

DAOU Package 솔루션 소개

DAOU Drawing



NAME	ELE	DIR	DESC	LENGTH
C-1101				
M1	3591	S	ANSI B16 5 FLANGED NOZZLE 300 RF	250
N1	2245	N	ANSI B16 5 FLANGED NOZZLE 300 RF	150
N10	5724	E 30 S	ANSI B16 5 FLANGED NOZZLE 300 RF	150
N2	4886	W	ANSI B16 5 FLANGED NOZZLE 300 RF	300
N3	5828	W	ANSI B16 5 FLANGED NOZZLE 300 RF	150
N7	2981	E 30 N	ANSI B16 5 FLANGED NOZZLE 300 RF	150
N8	5419	E 30 N	ANSI B16 5 FLANGED NOZZLE 300 RF	150
N9	2981	E 30 S	ANSI B16 5 FLANGED NOZZLE 300 RF	150
D-1201				
M1	7170	S	300lb Ansi Flanges	250
N1	7970	U	300lb Ansi Flanges	100
N2	7970	U	300lb Ansi Flanges	100
N3	7970	U	300lb Ansi Flanges	100
N4	6370	D	300lb Ansi Flanges	100
N5	6370	D	300lb Ansi Flanges	100
N6	7700	W	300lb Ansi Flanges	300
N7	6640	W	300lb Ansi Flanges	300
E-1301				
S1	1835	D	ANSI B16 5 FLANGED NOZZLE 300 RF	250
S2	3105	U	ANSI B16 5 FLANGED NOZZLE 300 RF	250
S3	3105	U	ANSI B16 5 FLANGED NOZZLE 300 RF	250
T1	3105	U	ANSI B16 5 FLANGED NOZZLE 150 RF	250
T2	1835	D	ANSI B16 5 FLANGED NOZZLE 150 RF	250



DAOU DATA —————•

THANK YOU