

* This manual is made for understanding about how to use UDAS.



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1. Installation Program

1) Double click on UDAS_Setup_2015.11.02.01.1.exe.file.



- \cdot 2015.11.02.1 is an installation file version, so it can be changed.
- 2) Click the Next button to install UDAS



3) Select the path of installation folder and click Install button to proceed with installation.



4) Click Finish button to finish installation.

🔂 UDAS Setup	
	Completing the UDAS Setup Wizard
	UDAS has been installed on your computer. Click Finish to close this wizard.
	< Back Finish Cancel

5) UDAS icon has been created on wallpaper.



- 6) Catalog Data file is automatically created on the subordinate path of Program Data folder.
- ✓ Database => C:\#ProgramData\#UNISON eTech\#UDAS\#CatalogData.cdb
- ✓ InstTypeImage => C:\#ProgramData\#UNISON eTech\#UDAS\#InstTypeImage
- ✓ TemplatePDF => C:\#ProgramData\#UNISON eTech\#UDAS\#TemplatePDF

2. Run UDAS Program

1) To execute UDAS Program, double click on UDAS icon or double click START MENU -> All programs -> UNISON eTech -> UDAS -> UDAS.exe.

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Screen

UDAS

3. Splash Screen

- 1) It shows the information about version of file which is running currently.
- 2) Comparing current catalog data installed in local and catalog data installed in server, if there is a newer version of file in server, it automatically downloads the newest version of file.



Menu

4. Main Menu

4.1 Ribbon Bar

<u> </u>								UNIS	UN efectivesi	jn Automa	tion sys	tem
HOME												
<u>à</u>	4	to to		BOM	DOM.			2	0 ,	?	R	•
		Add Add	Drawing	BOM	BOM	Project		Switch	Options	Manual	Ask	UNISON eTech
PRO	JECT	DRAWING		DATA			VIEW		OPTIONS		HELP	

- 1) It is divided into 6 groups overall.
 - [PROJECT]
 - ✓ Create: Create a new project.
 - \checkmark Open: Select the project which has been already created and then call in the data.
 - ✓ Edit: Edit the project data which has been already created.
 - [DRAWING]
 - ✓ Add: Add a new drawing to a project.
 - \checkmark Add Similar: Add a drawing by using the open drawing screen.
 - [DATA]
 - ✓ Drawing List: Look up all the list of drawings and contents of projects.
 - ✓ BOM List: Look up the BOM contents of drawing of the project.
 - ✓ BOM Summary: Look up the sum of weight of materials described in drawing of the project.
 - [VIEW]
 - ✓ Project Explorer: Check the project list and each drawing belonging to the projects.
 - ✓ Installation Type Explorer: Check each type according to installation types.
 - \checkmark Switch Windows: You can select open screen lists in work area and close it.
 - [OPTIONS]
 - \checkmark Options: You can designate the working folder of projects.
 - [HELP]
 - \checkmark Manual: You can call in files relating to using program.

Menu

- \checkmark Ask: You can email to the person in charge relating to using program.
- ✓ UNISON eTech : You can access UNISON eTech Inc. website.

4.2 Project Explorer

- On the top, it shows on screen the list of project in progress and the list of drawings which have been selected.
- When clicking the left side button of drop down button, you can see the project list and can delete the finished project from the list by clicking Close Projects button.

	Close Projects	
Project No.	DB File Name	
UETP-001	C:#Users#yjkim#Documents#Piping Support Selection Projects#UETP-001#UETP-001,udasproj	
Sample Proj	C:#Users#yjkim#Documents#Piping Support Selection Projects#Sample Proj#Sample Proj.udasproj	
TNB 3A	C:#Users#yjkim#Documents#Piping Support Selection Projects#TNB 3A#TNB 3A,udasproj	

- On the grid at the bottom, it shows the list of drawings which have been added to currently selected project.
- Drawings are composed of tree structure. The final revisal is seen on screen and you can check the former revisal by clicking + button.
- 5) It is possible to modify and/or delete the final revisal. If you select Support Tag No. and click on the right mouse button to click "Edit" or "Remove" button, then drawing screen will be displayed on working area.
- 6) It is impossible to modify and/or delete the former revisal. In this case, "View" is possible only. If you select Support Tag No. and click on the right mouse button to click "View" button, then drawing screen

ProjectExplorer	×
TNB 3A	💌
Support Tag No.	Rev, No,
🗖	
庄 SPS-1125	1
SPS-1126	0
SPS-1127	0
SPS-1128	0

Menu

will open on "Working" area. Every button is displayed but these buttons are inactive except preview.

4.3 Installation Explorer

- 1) Divided into 6 groups overall, installation types are displayed.
 - Variable Spring Hanger
 - Constant Support
 - Strut
 - Snubber
 - Rigid
 - Under
- 2) By using drop down function, you can quickly search for installation types that you try to look for.
- You can add installation types that you use frequently by using add favorite function.
- 4) You can delete items registered on favorite tab by using remove favorite function.



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5. Project Menu

5.1 Create

1) Click Create button on Project menu.

Create	J Open	Edit	Add	Add Similar	Drawing	BOM BOM List	BOM BOM Summary	Project Explorer	Installation Type Explorer	Switch Windows -	Options	? Manual	UNISON eTech
PI	ROJECT	r i	DRA	WING		DATA	A	,	VIEW		OPTIONS	H	ELP

- 2) Input Project No. (This is a required input item.)
- 3) Choose basic system of units (e.g. load, length, temperature, pressure, weight, etc.) which will be used at Project.
- 4) Choose Plant direction about east/west, north/south, up/down.
- 5) Choose the basic load type. (Hot load or Cold load)
- 6) Set up the maximum variability of Variable Spring Hanger. (UET Standard : 25%)
- 7) Set up the Permissible Angle value.
- 8) Choose the maximum Rod length.
- 9) Click Create button to save the setting value.

4	Create Project	×
(2) Project No. Project No. Project Name Owner Contractor (3) Units Load Length Temperature Pressure Item Weight Metric Units	North/South North/South -X/+X Up/Down +Z • Kgf N • Morth/South -X/+X Up/Down • Y/-Y • Morth/South • V/-Y • Morth/South • V/-Y • Morth/South • V/-Y • Morth/South • V/-Y • Morth/South • V • Morth/South • V • V	

UDAS

Menu

5.2 Open

1) Click the Open button on Project menu. (The basic selected folder is a route of Working Folder which has been set on <u>9. Options Menu.</u>)

Create	Open	1000	Add	Add	Drawing	BOM	BOM	Project	Installation	Switch	Options	? Manual	
P	ROJECT		DRA	Similar WING	List	List DATA	Summary A	Explorer	Type Explorer VIEW	Windows 👻	OPTIONS	Н	eTech ELP

- 2) If you select a project folder, it is added to the project seeker and the drawing list will be displayed on the project seeker.
- 3) In the case that a project has been already added to the project seeker, then change that project into Active project.

Select a project folder, ▲ III - 내 문서 > IISExpress > IISExpress	
CADViewX Pro 9 IISExpress	
CADViewX Pro 9 IISExpress	
D ISExpress	
Infragistics	
Inventor Server SDK ACAD 2013	
My Models	
My Music	
My Pictures	
▷ My Videos =	
My Web Sites	
▷ 🎍 OneNote 전자 필기장	
Uutlook 파일	
Piping Support Selection Projects	
le pisqidoc	
SQL Server Management Studio	
Test Client Projects Visual Studio 2008	
 Visual Studio 2008 Visual Studio 2010 	
Visual Studio 2010	
Work Item Templates	
ZWCAD+ Syble	
새 폴더 만들기(A) 확인 취소	

UDAS

Menu

5.3 Edit

1) Click Edit button on Project menu.

Create	<u>J</u> Oper	Edit	Add	Add	Drawing	BOM	BOM	Project	Installation	Switch	Options	? Manual	
P	ROJECT	T	DRA	Similar WING	List	List DATA	Summary N	Explorer	Type Explorer VIEW	Windows 👻	OPTIONS	H	eTech ELP

- 2) If you want to change project number, you can change it at this stage.
- 3) Units are applied when drawing up a new drawing. It means that units are not applied to existing drawings.
- 4) Click Save & Close button to save new setting value.

*		Edit Pr	oject Setting
(2)	Length Temperature Pressure	UE112=001 Sample PJT 001 • kgf N kN Ibf • mm in • °C °F • kgf /cm² bar psi • kg Ib	Plant direction East/West -Z/+Z North/South -X/+X Up/Down +Y/-Y Others Default Load Type \bullet Hot Load \bullet Cold Load Variability(VS) 25% Permissible Angle 4% Max. Rod Length \bullet 2000mm \bullet 2500mm \bullet 3000mm

6. Drawing Menu

6.1 Add

1) Click Add button on the drawing menu. (It is used when drawing up a drawing.)

Create Open Edit	1000000000	Add Iimilar	Drawing		BOM BOM Summary	Project Explorer	Installation Type Explorer	Switch Windows -	Options	? Manual	UNISON eTech
PROJECT	DRA	WING		DATA	N I		VIEW	2	OPTIONS	Н	ELP

- 2) The input items in Support division group box should be required.
- 3) For each type, required input items are different. Required input box is shaded with red color on screen for every case.
- 4) Drawing Screen
 - 1 left area: Input Data Screen for selection
 - ② Middle area: Showing rendering images
 - 3 Bottom area: Result data after selection

UU11/New ×		
Drawing : 0011 / New	🏷 Reset 📑 Save 🗹 Revise	Q Search
Support division (2)		
Support Tag No,		
Rev. No.		
Pipe data		
Pipe Size DN 🔽		
0,D, [mm]		
Pipe Matl Spec		
Insul, Thk, mm		
Dgn, Temp, °C		
H/T Load kgf	(4) Result	_ Bill of Material
Node No. Design Pipe Movement	(4) riesuk	No, Description
Load mm Offset		No, Description
(3) kgf Thermal Maximum mm		
Up +Y		
Down -Y		
South +X Drawing info. Location plan Units		
	_	
Title Drawing No,	-	
ISO Dwg, No,	-	
Rev. Date 2015-09-08	Hot Load kgf	
Rev, Desc,	Hot Load kgf	4
Dgn, Pressure kgf/cm ²	H, Set, Pos,	Message
ISO Line No.	C, Set, Pos, mm	
Set Q'ty 1		
	Result Log	[1]

- 5) Input Data area is divided into 6 kinds of group overall.
 - ✓ Support division
 - Support Tag No. : This is a required input item.
 - Rev. No. : This is a required input item and every Rev. No. should be different each other relating to one Support Tag No.
 - ✓ Pipe data
 - Pipe Size, O.D (Out Diameter) : Select a pipe nominal diameter or input an external diameter.
 - Pipe Matl Spec: Select the material of pipe. If there is no material possible to select, click the ".." button to add a new material of pipe.
 - Insul. Thk. : Input insulation thickness.
 - Dgn. Temp. : Input design temperature.
 - H/T Load: Input hydraulic pressure test load.
 - Node No. : Input node number.
 - Direction Axis: This will call the project direction which has been saved when creating the project.
 - Design Load: Input design load of each direction.
 - Thermal Movement: Input thermal movement of each direction.
 - Maximum Movement: Input maximum movement of each direction.
 - Offset: Input Offset of each direction except Up and/or Down direction.
 - ✓ Support data
 - Support Type No. : Select one of the installation types that have been predefined in advance. According to installation types, required items are changed and unnecessary items are deactivated.
 - Variability Req.: Input the upper limit of transformation rate of Variable Spring Hanger.
 - Dimension A, B: Input the length of installation.
 - Dimension C-C: Input the gap between hangers.
 - Elevation 1, 2: Set up the height of Top or Bottom.

- Elbow Radius: Set up when support is used for elbow pipe.
- Dummy Pipe Size: Set up when dummy pipe is used for sustaining main pipe.
- Elevation Looking: Designate elevation looking directions of PDF.
- ✓ Drawing Info.
- Title: Input the title of drawing.
- Drawing No.: Input drawing number.
- ISO Dwg. No. : Input ISO drawing number.
- Rev. Date: Input revision date.
- Rev. Desc. : Input revision description.
- Dgn. Pressure: Input design pressure.
- ISO Line No. : Input ISO line number.
- Set Q'ty: Input Set quantity of BOM material.
- ✓ Location plan
- Print location: Designate whether it is displayed or not on printed drawing.
- T1, T2, S1, S2: Input Grid numbers.
- EW1, EW2: Input the distance from T1, T2 to installation point.
- NS1, NS2: Input the distance from S1, S2 to installation point.
- ✓ Units
- Load: Select the unit of load.
- Length: Select the unit of length.
- Temperature: Select the unit of temperature.
- Pressure: Select the unit of pressure.
- Item Weight: Select the unit of weight.
- 6) Result Data screen is divided into 4 kinds of group overall.
 - ✓ Result
 - Display selection result value according to installation types.

- ✓ Log
- Display the expression of selection process with Input data.
- ✓ Bill of Material
- Display material lists according to installation types.
- ✓ Message
- When the result of material selection is against the input conditions, the contents are displayed according to items.
- 7) "Reset" button: Initialize all of data.
- 8) "Save" button: Add a new drawing to project.
- 9) "Revise" button: On add mode, it is deactivation state.
- 10) "Search" button: By using input data, you make a selection.
- 11) "Preview" button: Display the preview function before creating PDF drawing.

6.2 Add Similar



- 1) Click Add Similar button on the drawing menu.
- When active tab of working area is not drawing, it is inactive.
- When active tab is drawing, a new drawing screen on which input data of relevant drawing screen has been inputted is displayed.
- 2) This has same screen as 6.1 ADD. So, please refer to 6.1 Add for explaining screen.

6.3 Example

6.3.1 Variable Spring Type

- 1) Click Add button on drawing menu.
- Select "VSHC-L-PCDB" for Support Type No. on Drawing screen or drag "VSHC-L-PCDB" image of installation type seeker into screen.
- 3) \times Input "001" into the box for Support Tag No.
- 4) \times Input "1" into the box for Rev. No.
- 5) Select "DN250" for Pipe Size.
- 6) Select "A53 Grade B" for Pipe Mat'l Spec.
- 7) Input 100 into the box for Insul. Thk.
- 8) Input 150 into the box for Dgn. Temp.
- 9) Input 3500 into the box for Hydro Test Load.
- 10) Input "100" into the box for Node No.
- 11) X Input 3000 into the box for Design Load Down.
- 12) X Input 15 into the box for Thermal Down.
- 13) \times Input 24 into the box for Variability Req.
- 14) \times Input 2500 into the box for Dimension A.
- 15) Input 500 into the box for Dimension B.
- 16) Input 1500 into the box for Elevation 1.
- 17) Input 3500 into the box for Elevation 2.
- 18) Input "ASD" into the boxes for Title , Drawing No. , ISO Dwg. No. , Rev. Desc. , Prepared , Checked , Approved.
- 19) Input 222 into the box for Dgn. Pressure.
- 20) Input "1500" into the box for ISO Line No.
- 21) Input 1 into the box for Set Q'ty.

Suppor	tdivisi	on -				
Support	Tag No),	001			
Rev, No			1			
Pipe da	ta					
Pipe Siz	e		DN	. C	N250	•
0.D.					nm]	
Pipe Ma	itl Spec		A53 Gra	de B	🔻 Carb	on 🔽
Insul, Th				100 m	IM	
Dgn, Te	mp,			150 °C	2	
Hydro T	est Loa	ıd		3500, 0 ks	gf	
Node	No,	[)esign	Pipe Mo	ovement	
100			Load		m	Offset
			kgf	Thermal	Maximum	mm
Up	+γ					
Down	-Y		3000, 0	15,0		
South	+Χ					
North	-X					
West	+Z	L				
East	-Z					
Suppor	t data-					
Support	Type N	Vo,	VSHC-L	PCDB		•
Variabili	ty Req,			24 [%]	
Dimensi	on A, E	}		2500		500 mm
						mm
Elevatio	n 1, 2			1500	3	3500 mm
				OShort		
Elevatio	n Looki	ng	() South	⊙North (🔿 West 🔘 E	ast 🖲 -
						/
Drawing	i into,	Lo		an Units		
Title			ASD			
Drawing			ASD			
ISO Dwg			ASD			
Rev, Dat			2015-11-	-23	•	
Rev, Des	SC,		ASD		11.	00
D D			ASD	ASD		SD
Dgn, Pre			1000	22	2 kgf/cm²	
ISO Line	NO,		1500		1	
Set Q'ty					1	

22) Click Search button to search the proper item for the relevant input conditions.

23) The screen displays result value and information of the proper item and BOM list.

Result)	_C Bill of	Material									
Variable sprin	9		No,	Description	Model	Size	Dim	Length	Material	Q'ty	Unit	Total	Remark
Series	< VSM	> -	1	VARIABLE SPRING HAN	UC-VSM-C	16	581			1	62,6	62,6	
Size No,	< 16	> - Q	2	WELDED BEAM ATTAC···	WBA	M36	100		A36	1	8,6	8,6	
Spring Rate		26,79 kgf/mm	3	WELDLESS EYE NUT	ENR	M36	40		A668G…	3	1,6	4,8	
			4	HANGER ROD/2NUTS	RDFT	M36	320	400	A36	1	3,2	3,2	
Variability		13,40 [%]		HANGER ROD/2NUTS	RDBR	M36	1074	1150	A36	1	9,2	9,2	
			6	DOUBLE BOLT PIPE CL	PCDB-M	DN250	305		A36	1	20,9	20,9	E=STD,
Hot Load		3000,0 kgf	4								Total :	109, 3	kg 🔹
Cold Load		2598,2 kgf											
H, Set, Pos,		26,0 mm	Mess	age									
C, Set, Pos,		11,0 mm											
Result Log													

24) Click Save button to save the relevant drawing.

25) You can preview the selection result in a form of PDF by clicking Preview button.



26) You can check the result by using a mouse wheel button zooming in and zooming out.

27) You can print a preview screen by using Print button.

28) You can save a preview screen by using Save As button.

6.3.2 Constant Spring Type

- 1) Click Add button on the Drawing menu.
- 2) Select "CSHC-S-PCDB" for Support Type No. on Drawing screen or drag "CSHC-S-PCDB" image of installation type seeker into screen.
- 3) X Input "001" into the box for Support Tag No.
- 4) X Input "1" into the box for Rev. No.
- 5) Select "DN250" for Pipe Size.
- Select "A53 Grade B" for Pipe Mat'l Spec. 6)
- 7) Input 100 into the box for Insul. Thk.
- Input 150 into the box for Dgn. Temp. 8)
- 9) Input 3500 into the box for Hydro Test Load.
- 10) Input "100" into the box for Node No.
- 11) X Input 1000 into the box for Design Load Down.
- 12) X Input 65 into the box for Thermal Down.
- 13) X Input 2500 into the box for Dimension A.
- 14) Input 1500 into the box for Elevation 1.
- 15) Input 3500 into the box for Elevation 2.
- 16) Input "ASD" into the boxes for Title, Drawing No., ISO Dwg. No., Rev. Desc., Prepared, Checked, Approved.
- 17) Input 222 into the box for Dgn. Pressure..
- 18) Input "1500" into the box for ISO Line No.
- 19) Input 1 into the box for Set Q'ty.
- 20) Click Search button to search the proper item for the relevant input conditions.
- 21) The screen displays result value and information of

Suppor	tdivisi	on			,
Support	Tag N	o, 001			
Rev, No		1			
_ _Pipe da	nta				
Pipe Siz	2e	DN	• [)N250	-
0,D,			273,05 [mm]	
Pipe Ma	atl Spec	A53 Gra	ide B	🔻 Carb	on 🔽
Insul, T	hk,		100 m	וחו	
Dgn, Te	mp,		150 °C	2	
Hydro T	'est Loa	id 📃	3500,0 k	gf	
Node	No.	Design	Pipe M	ovement	
100	,	Load		IM	Offset
		kgf	Thermal	Maximum	mm
Up	+γ				
Down	-Y	1000, 0	65,0		
South	+X				
North	-X				
West	+Z				
East	-Z				
Suppor	t data-				
Support	Type N	lo, CSHC-	S-PCDB		•
Variabili					
Dimens	ion A, E	}	2500		mm
Dimens					mm
Elevatio			1500	3	3500 mm
Elbow F			O Short		
Elevatio	n Looki	ng 🔘 South	n 🔘 North	🔿 West 🔘 E	ast 🖲 -
		1 0	1 11 5		/
Drawing	j into,	Location p	lan Units		
Title		ASD			
Drawing		ASD			
ISO Dwg		ASD			
Rev, Dat		2015-11	-23	•	
Rev, De:	SC,	ASD		1	00
D D		ASD	ASD		SD
Dgn, Pre		1500	22	22 kgf/cm²	
ISO Line	e No,	1500		1	
Set Q'ty				1	

the proper item and BOM list.

Result	Bill of	Material									
Constant spring	No,	Description	Model	Size	Dim	Length	Material	Q'ty	Unit	Total	Remark
Total Travel < 90 > 🗸 [mm]	1	CONSTANT SPRING HA-	UC-CSH-C	28-90…	463			1	76,0	76,0	
CS Size No, < 28 > - Q	2	STRUCTURAL WELDIN ···	SWL	M20	75		A36	2	0,5	1,0	
Hot Point 8,2		HANGER ROD/2NUTS	RDBR	M20	1647	1700	A36	1	4,3	4,3	
	4	WELDLESS EYE NUT	ENR	M20	35		A668G…	1	0,9	0,9	
Cold Point 1,0	5	DOUBLE BOLT PIPE CL···	PCDB-L	DN250	280		A36	1	10,4	10,4	E=STD,
Hot Load 1000,0 kgf									Total :	92,6	kg
									Total :	92,6	kg ♪
Cold Load 1000,0 kgf	Mess	age			•				Total :	92,6	kg ▶
Cold Load 1000,0 kgf	Mess	age			•				Total :	92,6	kg ▶

22) Click Save button to save the relevant drawing.

23) You can preview the selection result in a form of PDF by clicking Preview button.



24) You can check the result by using a mouse wheel button zooming in and zooming out.

25) You can print a preview screen by using Print button.

26) You can save a preview screen by using Save As button.

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6.3.3 Strut Type

- 1) Click Add button on the Drawing menu.
- Select "STRUT-L-PCDB" for Support Type No. on Drawing screen or drag "STRUT-L-PCDB" image of installation type seeker into screen.
- 3) X Input "001" into the box for Support Tag No.
- 4) \times Input "1" into the box for Rev. No.
- 5) Select "DN250" for Pipe Size.
- 6) Select "A53 Grade B" for Pipe Mat'l Spec.
- 7) Input 100 into the box for Insul. Thk.
- 8) Input 150 into the box for Dgn. Temp.
- 9) Input 3500 into the box for Hydro Test Load.
- 10) Input "100" into the box for Node No.
- 11) \times Input 3000 into the box for Design Load Down.
- 12) \times Input 2500 into the box for Dimension A.
- 13) Input 1500 into the box for Elevation 1.
- 14) Input 3500 into the box for Elevation 2.
- 15) Input "ASD" into the boxes for Title, Drawing No., ISO Dwg. No., Rev. Desc., Prepared, Checked, Approved.
- 16) Input 222 into the box for Dgn. Pressure.
- 17) Input "1500" into the box for ISO Line No.
- 18) Input 1 into the box for Set Q'ty.
- 19) Click Search button to search the proper item for the relevant input conditions.
- 20) The screen displays result value and information of the proper item and BOM list.

Suppor	tdivisi	on			
Support	Tag N	o, 001			
Rev, No		1			
Pipe da	nta				
Pipe Siz	2e	DN	v C)N250	•
0,D,			273,05 [r	mm]	
Pipe Ma	atl Spec	A53 Gra	de B	🔻 Cart	ion 🔽
Insul, Ti	hk,		100 m	IM	
Dgn, Te	mp,		150 °C	2	
Hydro T	'est Loa	ad	3500,0 k(gf	
Node	No,	Design	Pipe Mo	ovement	
100		Load		m	Offset
		kgf	Thermal	Maximum	mm
Up	+γ				
Down	-Y	3000, 0			
South	+X				
North	-X				
West	+Z				
East	-Z				
Suppor					
Support			-L-PCDB		•
Variabili					
Dimensi			2500		mm
Dimensi			1000		mm
Elevatio			1500		3500 mm
			onur		
		ng () South	North (Nunct no P	inct 🔍 -
Licvaliu	II LOON	ng (Joodi	I UNUTUR (.dSl 🔍 -
Drawing	j info,	Location pl	an Units		
Title	l	ASD			
Drawing	No,	ASD			
ISO Dwg	g, No,	ASD			
Rev, Dat	te	2015-11	-23	•	
	SC,	ASD			
Rev, Des					
Rev, De:		ASD	ASD	ŀ	\SD
Rev, Des Dgn, Pre	essure	ASD		2 kgf/cm²	ASD
		ASD 1500			ASD

Result	B	ill of Ma	aterial									
		No,	Description	Model	Size	Dim	Length	Material	Q'ty	Unit	Total	Remar
		1 \$1	WAY STRUT	SSA	1	2075			1	19,2	19,2	C-C=2075
			EARBRACKET	BSS	1	65		A36	1	2,6	2,6	
		3 <mark>S</mark>	TRUT PIPE CLAMP	STPC-03	DN250	360		A36	1	33,8	33,8	E=STD,
Hot Load	kgf	l I								Total :	55,6	kg)
		lessage	,			•						
H, Set, Pos,		icosage	,									
C, Set, Pos,	mm											
Result Log												

- 21) Click Save button to save the relevant drawing.
- 22) You can preview the selection result in a form of PDF by clicking Preview button.



23) You can check the result by using a mouse wheel button zooming in and zooming out.

- 24) You can print a preview screen by using Print button.
- 25) You can save a preview screen by using a Save As button.

6.6.4 Snubber Type

- 1) Click Add button on Drawing menu.
- Select "SNUBBER-L-PCDB" for Support Type No. on Drawing screen or drag "SNUBBER-L-PCDB" image of installation type seeker into screen.
- 3) X Input "001" into the box for Support Tag No.
- 4) \times Input "1" into the box for Rev. No.
- 5) Select "DN250" for Pipe Size.
- 6) Select "A53 Grade B" for Pipe Mat'l Spec.
- 7) Input 100 into the box for Insul. Thk.
- 8) Input 150 into the box for Dgn. Temp.
- 9) Input 3500 into the box for Hydro Test Load.
- 10) Input "100" into the box for Node No.
- 11) X Input 3000 into the box for Design Load Down.
- 12) X Input 25 into the box for Thermal Down.
- 13) Input 10 into the box for Thermal North.
- 14) Input 10 into the box for Thermal East.
- 15) \times Input 2500 into the box for Dimension A.
- 16) Input 1500 into the box for Elevation 1.
- 17) Input 3500 into the box for Elevation 2.
- Input "ASD" in the boxes for Title, Drawing No., ISO Dwg.
 No., Rev. Desc., Prepared, Checked, Approved.
- 19) Input 222 into the box for Dgn. Pressure.
- 20) Input "1500" into the box for ISO Line No.
- 21) Input 1 into the box for Set Q'ty.
- 22) Click Search button to search the proper item for the

Suppor	tdivisi	on			
Support	Tag No	o, 001			
Rev, No		1			
Pipe da	ta				
Pipe Siz	е	DN	•	DN250	•
0,D,			273,05	mm]	
Pipe Ma	tl Spec	A53 Gra	ide B	🔻 Cart	on 🗸
Insul, Th	nk,		100 r	nm	
Dgn, Te	mp,		150 °	С	
Hydro T	est Loa	ad	3500, O k	(gf	
Node	No,	Design	Pipe M	lovement	
100		Load	Г	nm	Offset
		kgf	Thermal	Maximum	mm
Up	+γ				
Down	-Y	3000, 0	25,0)	
South	+X				
North	-X		10,0)	
West	+Z				
East	-Z		10,0)	
Suppor	t data-				
Support	Type N	No. SNUBE	ER-L-PCD	В	•
Dimensi	on A, E	3	2500		mm
Elevatio	n 1, 2		1500		3500 mm
		Olong	 O Short 		
Elevatio	n Looki	ng 🔘 Sout	n () North	🔿 West 🔘 B	East 🖲 -
Dec.ul-	Infe	Location	lon III-4	1)
	11110,	Location p			
Title Drouving	No	ASD			
Drawing		ASD			
ISO Dwg		ASD	00		
Rev, Dat		2015-11 ASD	-23	*	
Rev, Des	οΰ,		AD		ASD
Dan Dra	0.01175	ASD	ASI		าอม
Dgn, Pre		1500	2	22 kgf/cm²	
ISO Line	NO,	1500		1	
Set Q'ty				1	

relevant input conditions.

23) The screen displays result value and information of the proper item and BOM list.

Result		Bill of	Material									
Snubber		No,	Description	Model	Size	Dim	Length	Material	Q'ty	Unit	Total	Remark
Rated Load	3000,0 kgf	1	HYDRAULIC SNUBBER	SNA-EA	3-100	2079			1	37,3	37,3	C-C=2079
Rated Stroke	100,0 mm		REARBRACKET	BSN	3	66		S25C	1	1.7	1.7	
Design Load	3000,0 kgf	3	SNUBBER PIPE CLAMP	SNPC-04	DN250	355		A36	1	33,4	33,4	E=STD,
Design Stroke	25,0 mm											
Hot Point	25,0 mm											
Cold Point	0,0 mm											
Hot Load	3000,0 kgf									Total :	72,4	ka
		4										•
Cold Load	3000,0 kgf					•						
H, Set, Pos,	25,0 mm	Messa	ige									
C, Set, Pos,	0,0 mm											
Result Log												

24) Click Save button to save the relevant Drawing.

25) You can preview the selection result in a form of PDF by clicking Preview button.



26) You can check the result by using a mouse wheel button zooming in and zooming out.

- 27) You can print a preview screen by using a Print button.
- 28) You can save a preview screen by using Save As button.

7. Data Menu

7.1 Drawing List

		BOM	BOM		-		0	?	9
Create Open Edit	Add Add Similar	Drawing BOM List List	BOM Summary	Project Explorer	Installation Type Explorer	Switch Windows 👻	Options	Manual	UNISON eTech
PROJECT	DRAWING	DATA	X.		VIEW	1	OPTIONS	Н	ELP

- 1) After check the check box of drawing that you try to make a selection, click the "Batch Selection" button to make Selection plenty of drawings in a lump.
- 2) After check the check box of drawing that you try to save in a form of PDF, click the "Batch PDF" button to create plenty of drawings in a form of PDF in a lump.
- 3) After check the check box of the drawing that you try to save in a form of PDF, click the "Combine PDF" button to make plenty of drawings into a form of PDF all in one.
- 4) You can check the final revision drawing list and data by clicking "Refresh" button.
- 5) You can check all drawings and data of the project by clicking "All Revisions" button.
- 6) You can save Excel file data into DB by clicking "Import" button.
- 7) After check the check box of the drawing that you try to export, click "Export" button in order to export data that you see on screen into a form of Excel file.
- 8) If you drag the header of a certain column into "Drag a column header here to group by that column" area, you can check the data which is grouped by relevant column.

win	ng L	ist:S	ample	FIUJ										} + E	Batch Selection	🖾 Batch PDF	- 🛛 Refresh	- 🖆 Import	🖸 Export
rag	a	olun	nn hea	nder h	ere to gro	up by 1	hat column												
			TagID		TagNo		RevSeqNo	RevNo	Dw	gNo	Т	ïtle	RevDate	RevDesc	LoadUnit	LengthUnit	TemperatureUnit	PressureUnit	ltern WeightUr
				1 VS-				1 0					2015-09-08		kgf	mm	°C	kgf/cm²	kg
				2 VS-	.12			10							kgf	mm	°C	kgf/cm²	kg

7.2 BOM List

- 1) You can check the BOM data of the final revisal drawing by clicking "Refresh" button.
- 2) You can check the BOM data that belong to the project by clicking "All Revisions" button.
- 3) You can export data that you see on screen into a form of Excel file by clicking "Export" button.
- 4) If you drag the header of a certain column into "Drag a column header here to group by that column" area, you can check the data which is grouped by relevant column.

rag a colun	nn header here to	group by	that colu	ımn.										
TagID	Support Tag No.	Rev, No,	Part No.	Desc	ModelCode	Size	Dim	Length	Mat'l Spec	Q'ty	Set Q'ty	Weight	Total Weight	Set Total Weight
1														
1	VS-01	0	1	VARIABLE SPRING HANGER	UC-VSM-C	17	654,98				1 1	76,20	76,20	76,2
1	VS-01	0	2	WELDED BEAM ATTACHMENT	WBA	M42	125,00		A36	1	2 2	11,00	22,00	22,0
1	VS-01	0	3	WELDLESS EVE NUT	ENR	M42	60,00		A668Gr, C	1	3 3	3,30	9,90	9,9
1	VS-01	0	4	HANGER ROD/2NUTS	RDBR	M42	207,51	300	A36	1	1 1	3,27	3,27	
1	VS-01	0	5	HANGER ROD/2NUTS	RDBR	M42	207,51	300	A36		1 1	3,27	3,27	3,2

7.3 BOM Summary

- 1) It will display total material weight of the final revision drawing by clicking "Refresh" button.
- 2) You can export data that you see on screen into a form of Excel file by clicking "Export" button.

BOM :	Summary (Sample Proj] 🗙				
BOMS	ummary	Sample Proj				Ø Refresh ∐ Export
Drag	a colum	n header here to	group by	, that col	umn.	
	TagID	Support Tag No,	Rev, No,	Q'tv	Weight	
*						
		VS-01	0		3 114,64	
2		VS-02	0			

8. View Menu

8.1 Project Explorer

 \checkmark In a case that the user closes the project seeker, this function works to load it again.

8.2 Installation Type Explorer

 \checkmark In a case that the user closes the installation type seeker, this function works to load it again.

8.3 Switch Windows

- 1) You can check the list of screens that are loaded in program.
- 2) In a case that multiple screens are loaded, you can change active tap by selecting the list.
- 3) You can close multiple screens together.

9. Options Menu

- 1) When project is created, you can set up the root route where the project is saved.
- 2) This is a route of folder that is selected basically while doing <u>5.2 Open Project</u>.

×
]
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10. Help Menu

10.1 Manual

✓ Display program operation manual.

10.2 Ask

 \checkmark If you have any further questions, you can email to the person in charge.



10.3 UNISON eTech

✓ Transfer to UNISON eTech website. (<u>http://www.uet.co.kr</u>)