3skeng Datasheet

3skeng is a 3D engineering extension for Trimble SketchUp, continuously developed and improved by software specialists to support their co-working engineers during their engineering projects. 3skeng enables fast initial designs and is able to apply changes in real-time during the design process of piping, ventilation, steelwork and much more…

3skeng Pipe Tool

3skeng Pipe Tool using the conceptual mode

All you need to model conceptual pipelines is integrated in this tool.

Pipes, T-pieces, Y-pieces, reducers as well as elbows are generated and connected in a smooth workflow with only few mouse-clicks.
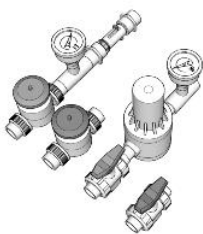
You have access to the most common standards (ANSI, ASME, ISO EN and JIS) and determine the dimensions of fittings with only a few clicks. Magnetic points and a memory function are powerful parts of the tool and assist your customers in the process.

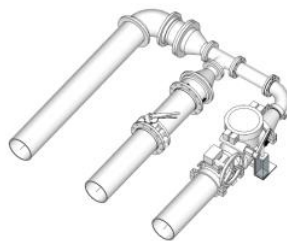### 3skeng Pipe Tool using the detail mode with libraries

The detail mode brings 3D piping design to a whole new level.

The access to detail mode (switchable in the 3skeng client) allows you to use libraries with dimensions that are actually available on the market. Detailed pipe libraries are available on the library page.
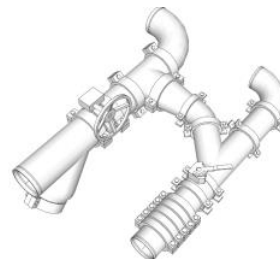
The embedded auto-pipe function helps you to connect 3skeng components and allows you to select one of the possible configurations. Auto-Pipe is available for both conceptual and detail mode.
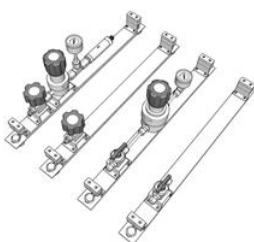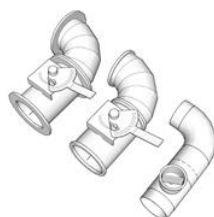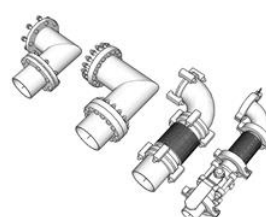

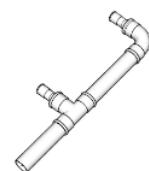| Plastic | Ductile Iron | Grooved Steel | Steel/Stainless Steel |

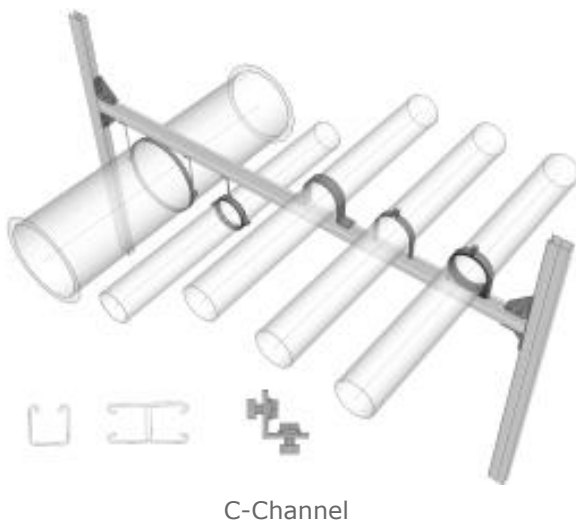| Stainless Steel Pure use | Ventilation-Exhaust | High Vacuum | Copper |

3skeng Mount Tool

All you need to draw secondary/support steelwork models with proper fittings, supports and more. A memory function assists you in the process.
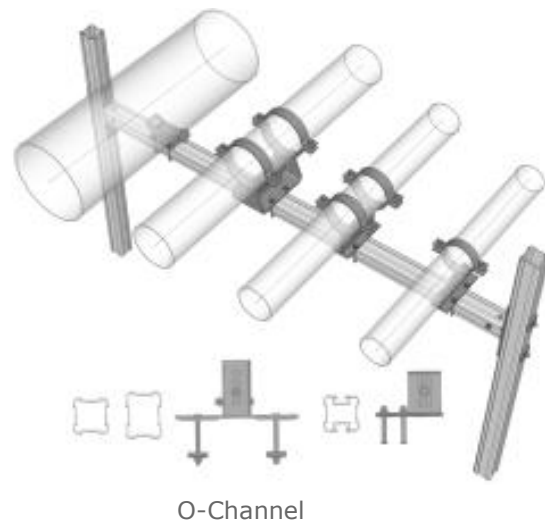Available libraries allow you to choose from different channel types.

The "Mount Tool" recognizes **3skeng Pipe** elements and assists by a) proper **pre-selection** from the available variety of pipe and duct clips and b) **auto-alignment** of rotation, position and elevation simply by double-click.
The "Mount Tool" also recognizes **3skeng Steelwork** elements to correctly attach supports to the top of steel beam flanges and beam clamps to the side of steel beam flanges.

C-Channel   O-Channel

3skeng Steelwork Tool

All you need to draw Steelwork models with straight and chamfered segments. A memory function assists in the process.
An extensive built-in library allows you to choose from many different standards from all over the world.

3skeng Channel Tool

All you need to draw (conceptual) Channel (Ventilation) models is integrated in this tool.
Straight channels, t-pieces, reducers (also changeover to round for pipe tool) and elbows (round and square) are generated and connected in a smooth workflow with only few mouse-clicks.
You can determine channel dimensions and lengths with only a few clicks. Magnetic points and a memory function are powerful parts of the tool and assist in the process.

3skeng Shared Features

3skeng tools come with features that make it very easy to apply changes, add labels and create bills of material (BOM).

3skeng Edit and Rotate

This tool helps you to modify the model in all feasible degrees of freedom. The speed of the tool allows you show changes and suggestions live in meetings - without anyone losing interest!
The tool is intuitive in a way that nearly follows your ideas by itself. Use magnetic points for reference or the input of numeric values in the familiar SketchUp way.
Works with 3skeng Pipe, Channel and Steelwork.

3skeng Connect

With this tool you can rearrange or copy already generated Pipeline elements. Magnetic points will help you to connect the elements exactly aligned to the pipe center and direction.
With the feature "Multicopy", all selected elements stay glued to the mouse until you press "Escape".
Works with 3skeng Pipe and Channel.

3skeng Label

This tool enables you to add text labels to 3skeng elements. Various adjustable parameters allow individual adaptations to the particular label task at hand.
During the automated alignment you determine the position and distance of the labels. Future changes can be made in no time at all.
Works with all 3skeng elements.

3skeng List

After completion of a model there is often the question about the bill of materials. With this tool, we created a powerful answer.
You simply select parts of the model or even the whole model and activate the List Tool. You will get a table that includes all selected components. The contents of the table can be copied to another program for final editing.
Works with all 3skeng elements.

3skeng Tools - Comparison Table of 3skeng tools

	Pipe	Mount	Steelwork	Channel
Available for PC & MAC	✔	✔	✔	✔
3skeng 2017 works with SketchUp 2017/2016/2015/2014	✔	✔	✔	✔
3skeng 2016 works with SketchUp 2016/2015/2014	✔	✔	✔	✔
Trial version	30 days	30 days	30 days	30 days
Available through Extension Warehouse	as trial versions	as trial version	as trial version	as trial version
Available through website/client/resellers	✔	✔	✔	✔
Auto-Pipe	✔			
Edit & Rotate	✔	✔	✔	✔
Connect			✔	
Connect with Multicopy function	✔	✔		✔
Label	✔	✔	✔	✔
List	✔	✔	✔	✔
Speed improvement	✔	✔	✔	✔
Assigned IFC properties are kept for copied & edited elements	✔	✔	✔	✔
Use of detail libraries *	✔ **	✔ *		

* Available libraries for 3skeng Mount:
- Threaded Rods & Pipe / Duct Support (NEW 11/2016)
- C-Channel (NEW 11/2016)
- O-Channel (Heavy Duty) (Coming soon)

** Available libraries for 3skeng Pipe:
Plastic
- Imperial CPVC
- Imperial Fiberglass
- Metric PE80/PE100
- Metric PE-HD
- Metric PP
- Metric PVC-C
- Metric PVC-U
- Metric PVDF/PVDF-HP

Ductile Iron
- Imperial Ductile Iron with grooved connection (AWWA)
- Imperial Ductile Iron with mechanical joint
  & flanged connection (AWWA)

Steel
- Imperial Steel B36.10M
- Metric Steel Piping
- Metric Steel Piping Pressing Socket

Steel (Grooved Connection)
- Met-Imp Steel Grooved Piping 2-12in
- Met-Imp Steel Grooved Piping 14-60in
- Imperial/Metric Steel Sprinkler
  with grooved connection

Stainless Steel
- Imperial Stainless Steel B36.19M
- Metric Stainless Steel Piping
- Metric Stainless Steel Pressing Socket

Stainless Steel (Pure Use)
- Imperial Stainless Steel Tubing for pure use

Ventilation and Exhaust Duct
- Imperial Stainless Steel Ductwork
- Imperial Galvanized Steel Ductwork (Plug Joint)
- Metric Stainless Steel Ductwork (Flanged)
- Metric Galvanized Steel Ductwork (Plug Joint)
- Metric Galvanized Steel Ductwork (Flanged)

High Vacuum
- Stainless Steel Vacuum CF/UHV
- Stainless Steel Vacuum ISO-F
- Stainless Steel Vacuum ISO-K
- Stainless Steel Vacuum ISO-KF

Copper
- Metric Copper Pressing Socket