

Intelligent Nozzles on non Standard Equipment FAQ

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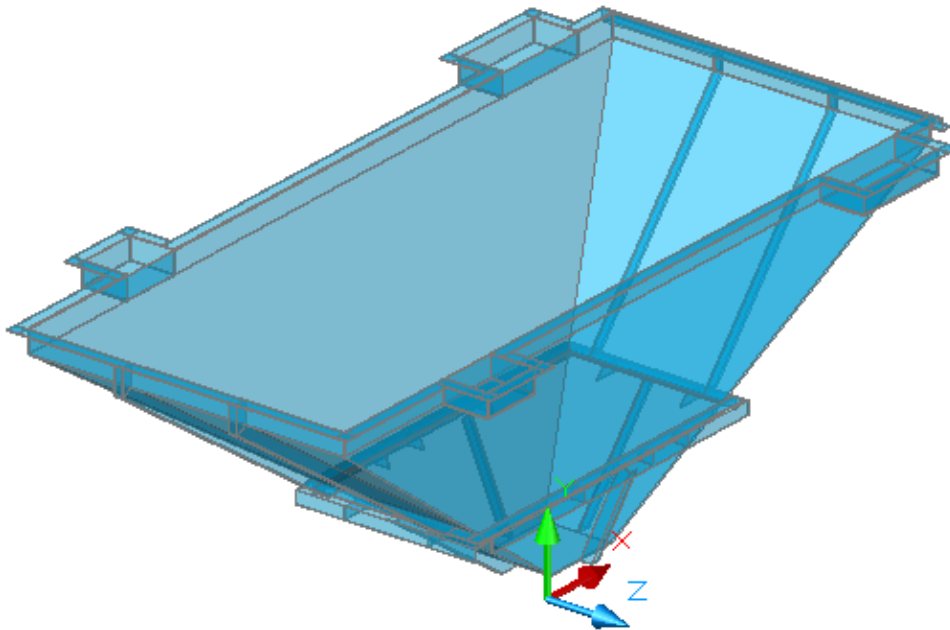
Werner Theron

Question:

Is it possible to place intelligent nozzles on equipment that cannot be modeled with the CADWorx Equipment Module?

Answer :

Often it is necessary to have intelligent nozzles for export to Isogen on Equipment that has not, or is not suitable to be modeled in CADWorx Equipment. The following skip hopper often used in the mining industry has been modeled in CADWorx Steel.



We now need to place a nozzle at the bottom of the skip hopper to connect some piping to it. The objective is to then export to Isogen that references the nozzle number and equipment number.

Start by placing a **Long-Weldneck Flange**...



Command: `_LWN`

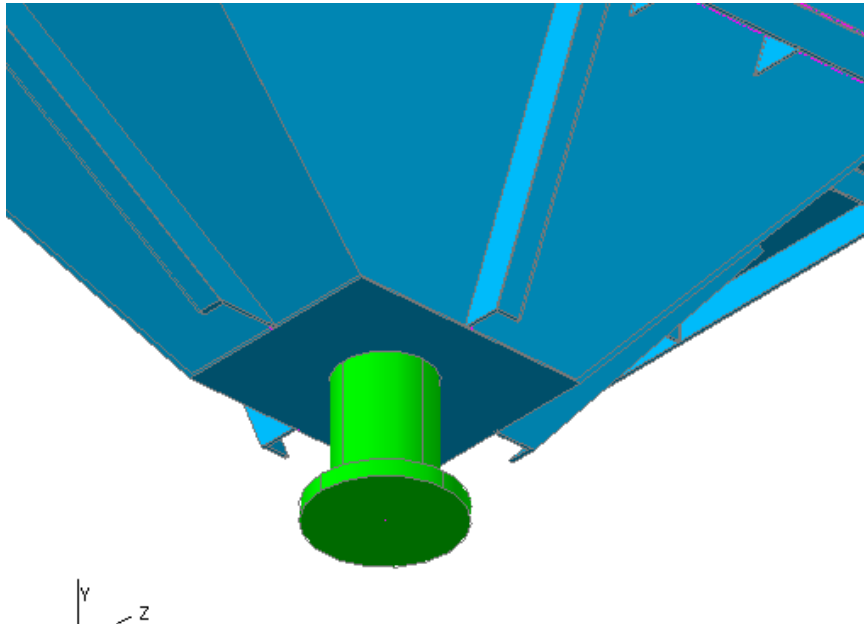
`150 LONG WELD NECK, RF 300LB`

Pick start point or [Length/Plain end] <last point>: `p`

Pick plain end point <last point>: `_m2p` First point of mid: Second point of mid:

Pick direction:

Users can use the length option to specify the projection of the nozzle.



Invoke the **CEDIT** command and edit the nozzle with the following information.

A screenshot of the 'Component Edit (1 of 1)' dialog box in a CAD software. The dialog box contains various fields for editing the properties of a component. The 'Tag' field is highlighted with a red box and contains the text 'Noz 1 on Skip-A45'. The 'Miscellaneous' section is also highlighted with a red box and contains a checked checkbox for 'Existing'. Other fields include 'Alpha size' (150), 'Short annotation' (RF LWN), 'Long annotation' (LONG WELD NECK, RF 300LB), 'Code' (PTN-017.0013), 'Weight' (48.99000), 'Sort sequence' (33), and 'Length' (304.80000). The 'Component type' is 'Long Weld Neck (Command=LWN) (ProgramCode=17) (Metric/Metric)'. The 'Specification' is '300_MM'. The 'BOM Item Type' is 'Fabrication'. The 'Coordinates' are 'World'. The 'Miscellaneous' section also has a 'Change' button. At the bottom, there are buttons for 'OK', 'Cancel', 'Exit', 'ISOGEN', 'Remove', and 'Help'.

Fill the **Tag** field with the Nozzle and Equipment designations. Also check the **Existing** checkbox to ensure the component is omitted from the BOM. Then use the Isogen button and update the **SKEY** information as follows.

ISOGEN Data

Symbol Information:

Identifier: Overwrite

SKEY: Overwrite

Spindle/Flat/Support Direction:

Direction: ▼

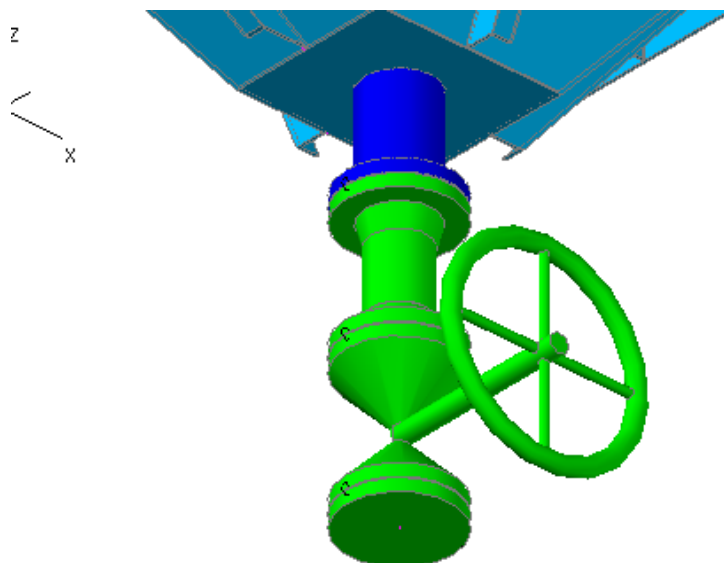
This information is found in the Skeys.Pdf which is located in the *C:\CADWorx Plant 2009\Isogen\Isogen_Utils* directory.

ISOGEN Symbol Keys

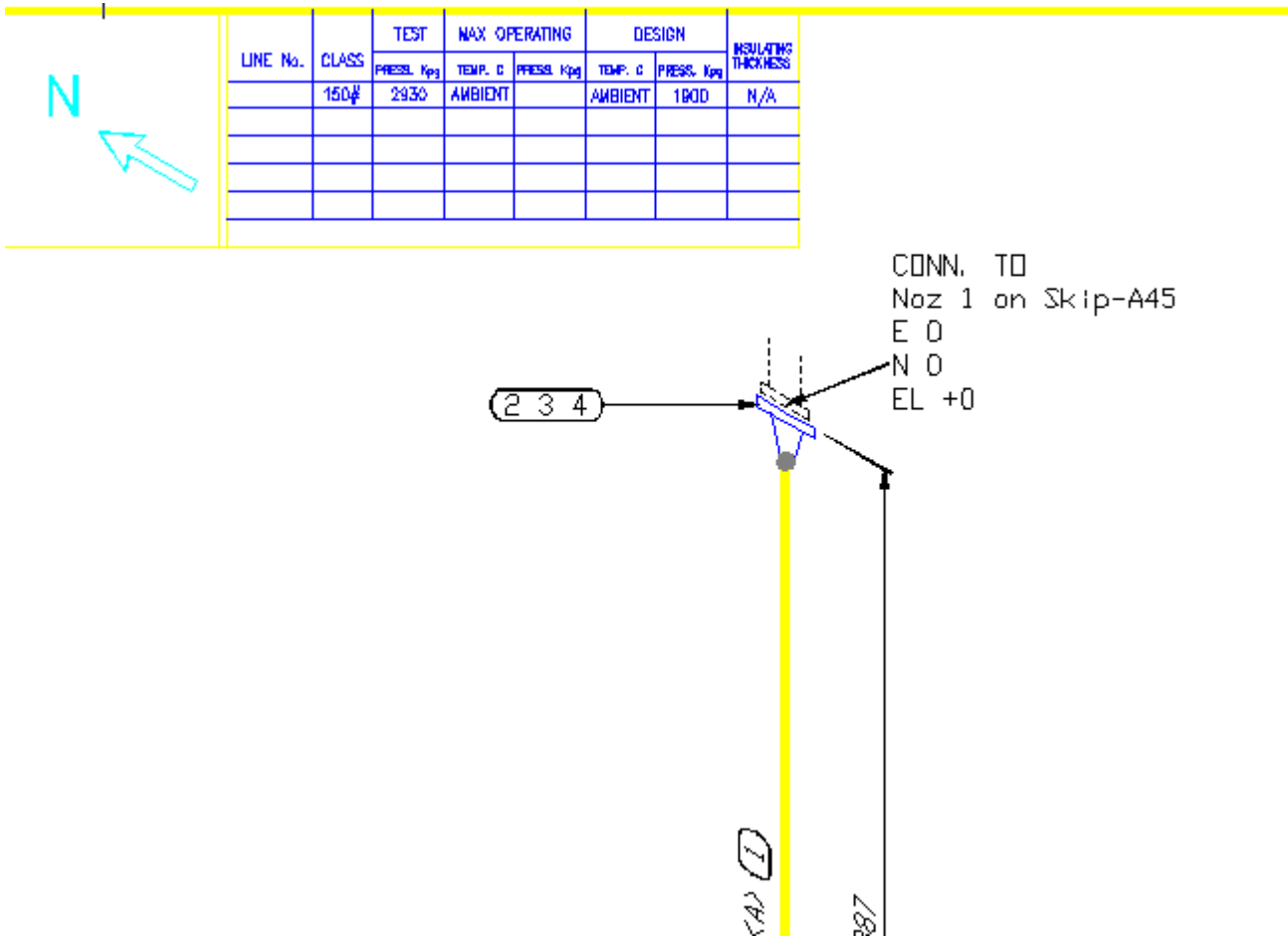
Symbol Keys for Nozzles

Description	SKEY	Shape	Plotted Isometric Shape	User Definable	PCF Identification
Nozzle - Start Flanged	NZFS			YES	NOZZLE
Nozzle - End Flanged	NZFE			YES	NOZZLE
Nozzle - Start Welded	NZWS			YES	NOZZLE

Finish up with some piping and run an Iso.



The nozzle details are now also exported to Isogen without the use of CADWorx Equipment.



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