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AMERICAS 2008

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I-deas vs. NX6 - Sheet Metal

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I-deas vs. NX6 - Sheet Metal

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HENNY PENNY®
Global Foodservice Solutions

- Henny Penny Corporation is a global manufacturer of Food Service Equipment.
- Employs ~ 500 people worldwide
- Corporate headquarters - Eaton, OH

I-deas vs. NX6 - Sheet Metal

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Matt Smith – Introduction

- Henny Penny employee since 1994
- Lead designer for various products
- Participated in NX Sheet Metal beta testing the last 3 years
- Participated in CMM beta testing this year

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Goals for presentation…

- Review the various I-deas Sheet Metal techniques.
- Provide a “How’s that done in NX?” guide from an I-deas Sheet Metal users perspective.
- Demonstrate the NX6 Equivalent techniques.
- Review / Demonstrate the NX6 feature level sheet metal techniques.
- Summarize the Pro’s and Con’s of I-deas vs. NX
- Question / Answer

I-deas vs. NX6 - Sheet Metal

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I-deas sheet metal techniques…

- Panel / Panel / Sheet metal / Shell
- Open Extrude / Sheet metal / Shell
- Solid model / Sheet metal / Shell
- BFCS / Sheet metal / Shell *(BFCS=Bends from cylindrical surfaces)*
- Hybrid combination of above

NX6 sheet metal techniques…

- Tab / Flange
- Contour flange
- Solid model / Sheet metal from solid
- Tab / Bend
- Solid model / Convert to Sheet metal / Rip
- Lofted Flange
- Jog
- Hybrid combination of above

I-deas vs. NX6 - Sheet Metal

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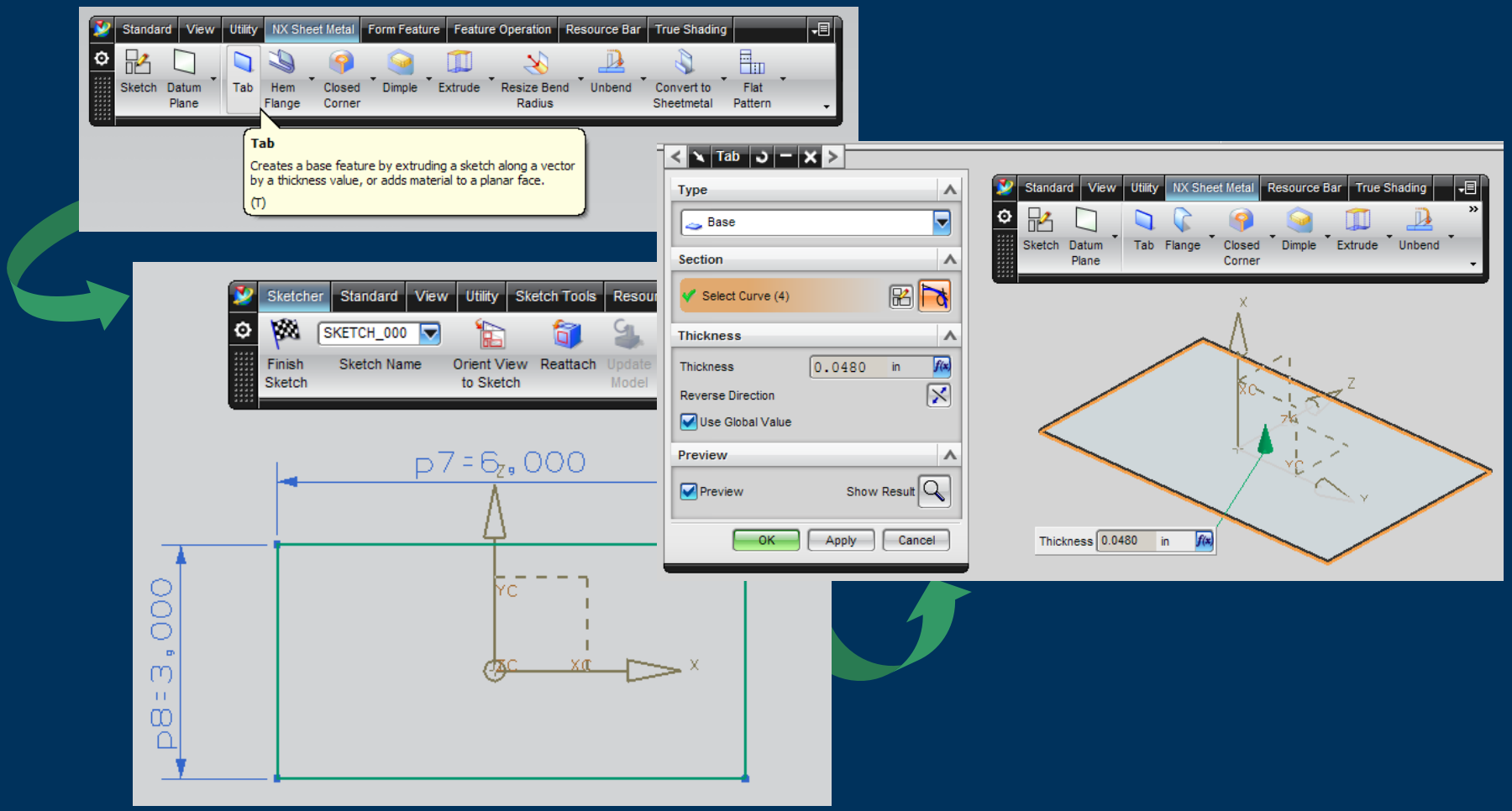
I-deas Panel / Panel = NX6 Tab / Flange…



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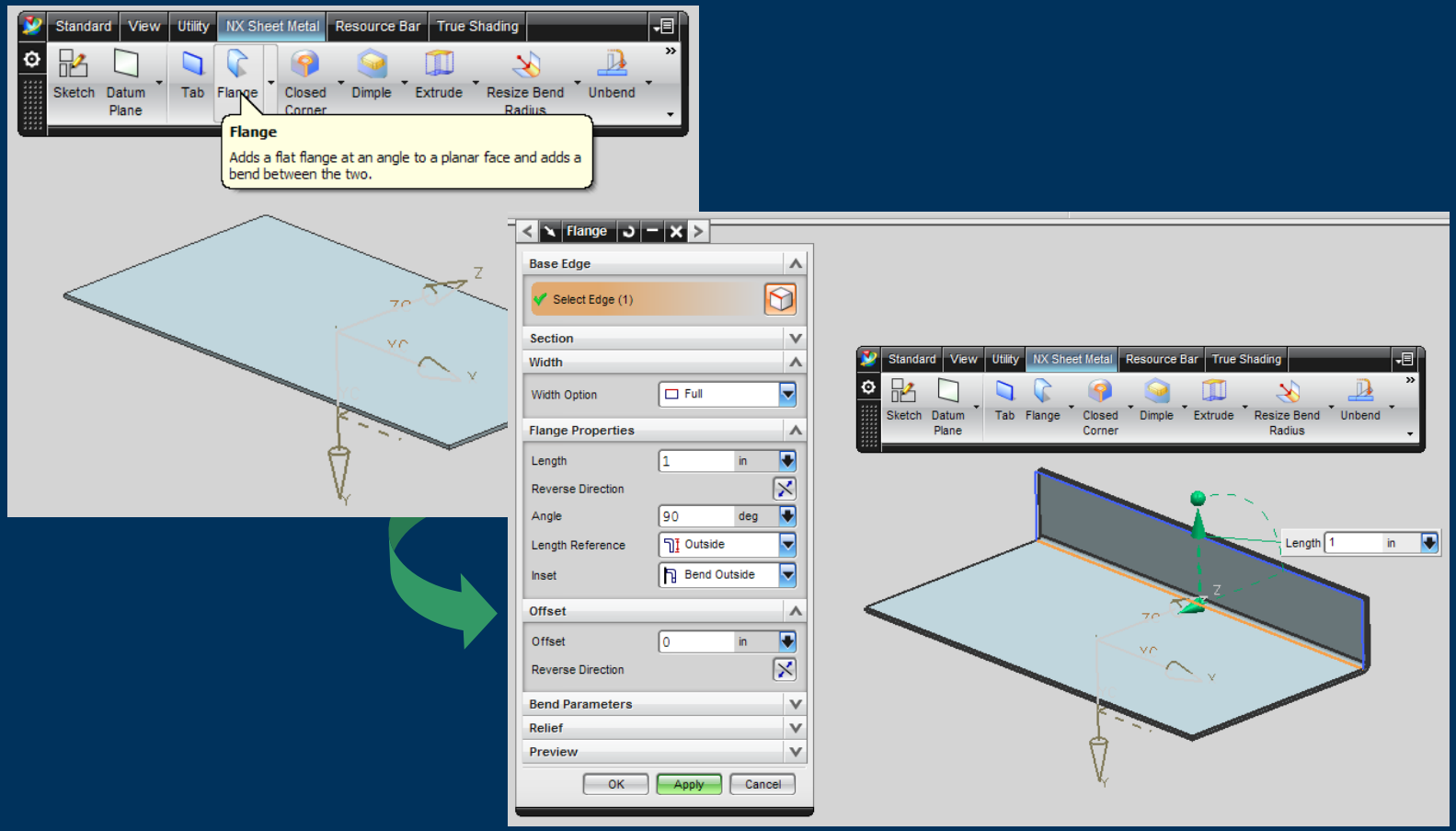

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I-deas Panel / Panel = NX6 Tab / Flange…

- ***Demo…***

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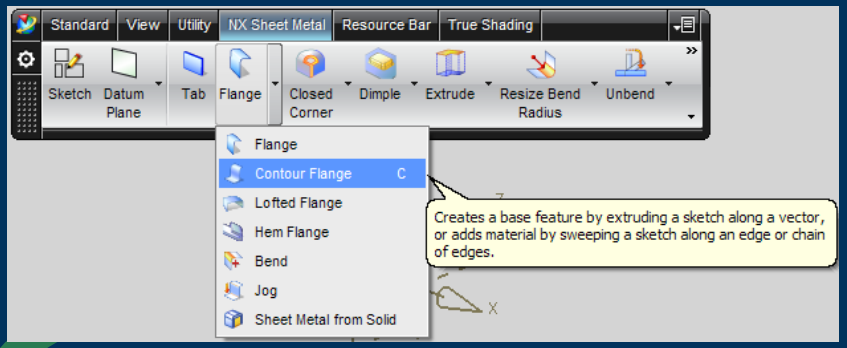
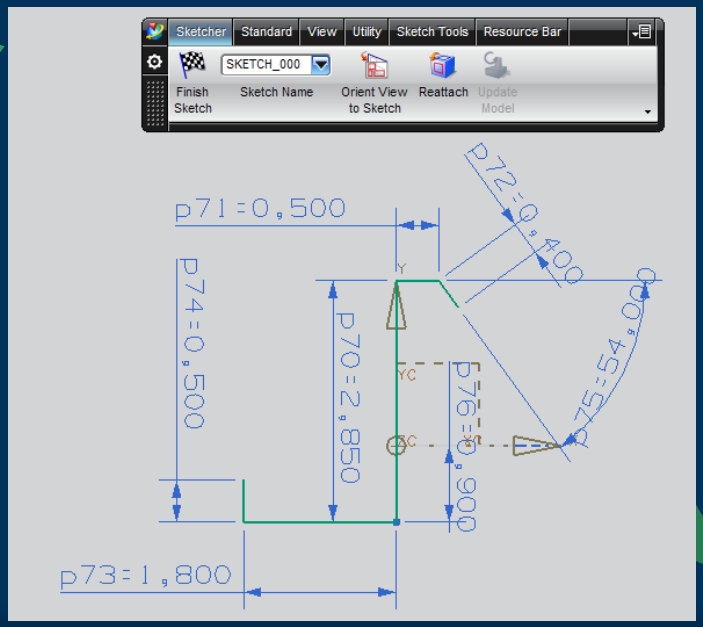
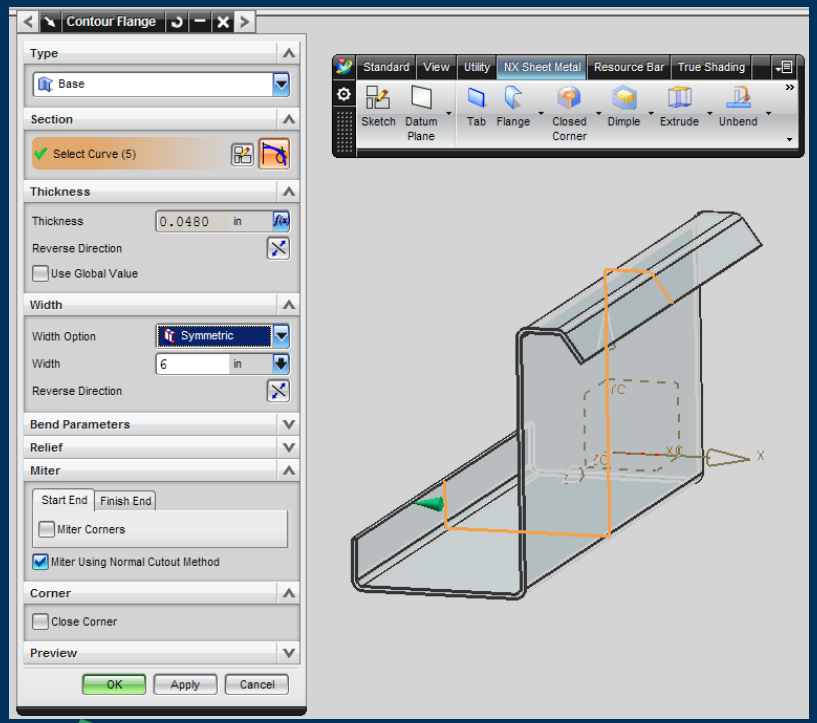
I-deas Open Extrude = NX6 Contour Flange…







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I-deas Open Extrude = NX6 Contour Flange…

- ***Demo…***

I-deas vs. NX6 - Sheet Metal

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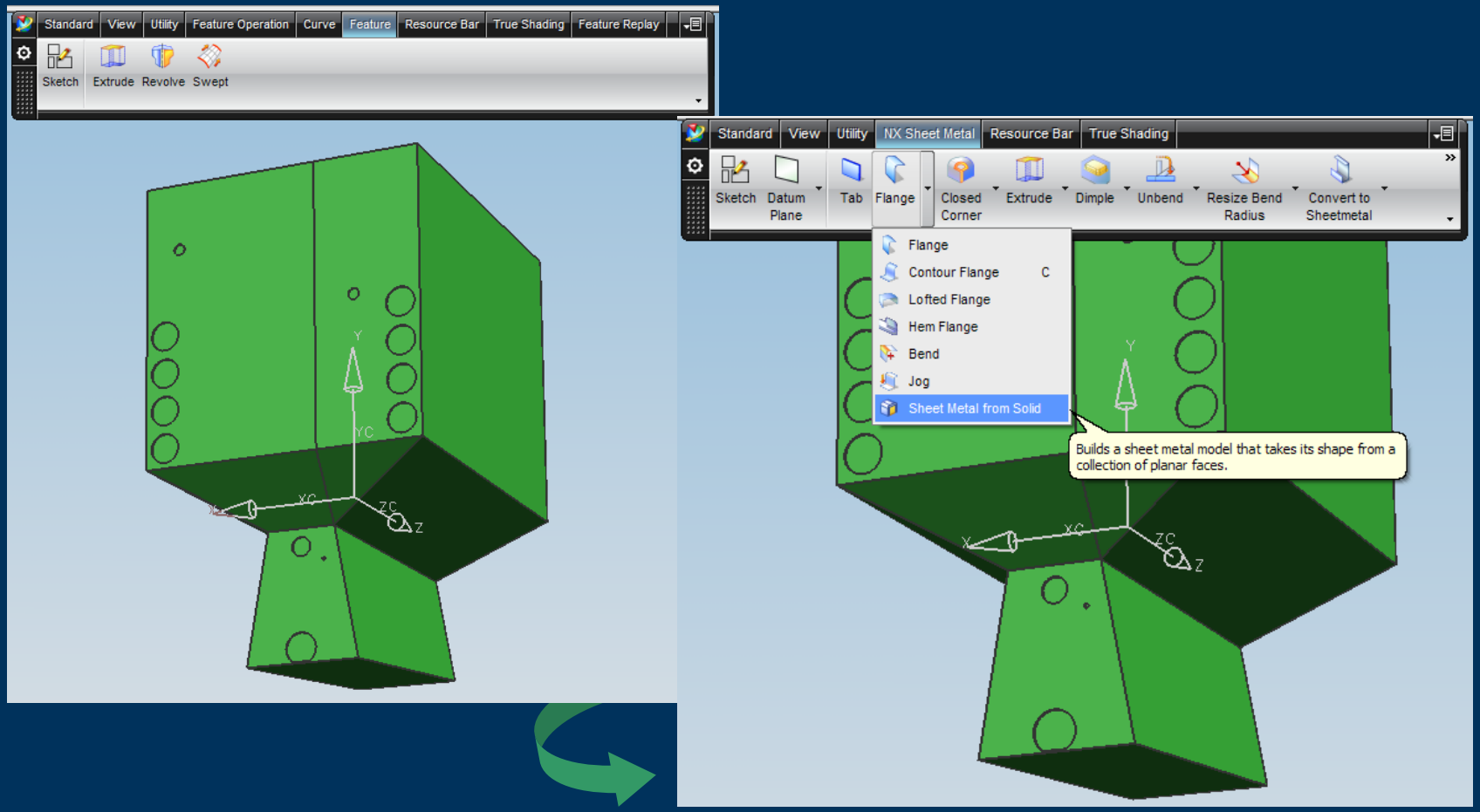
I-deas Solid / Sheet Metal = NX6 Sheet metal from solid…



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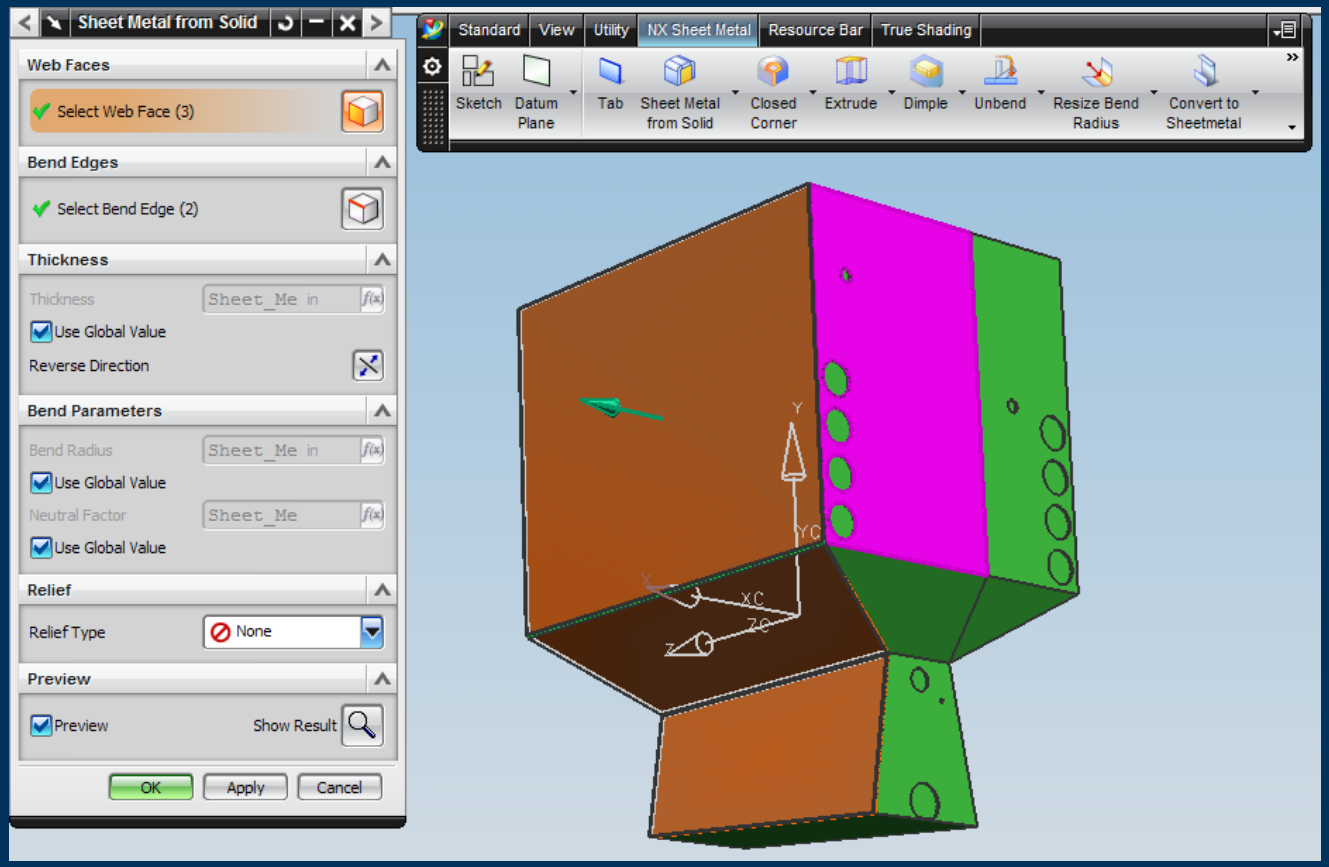

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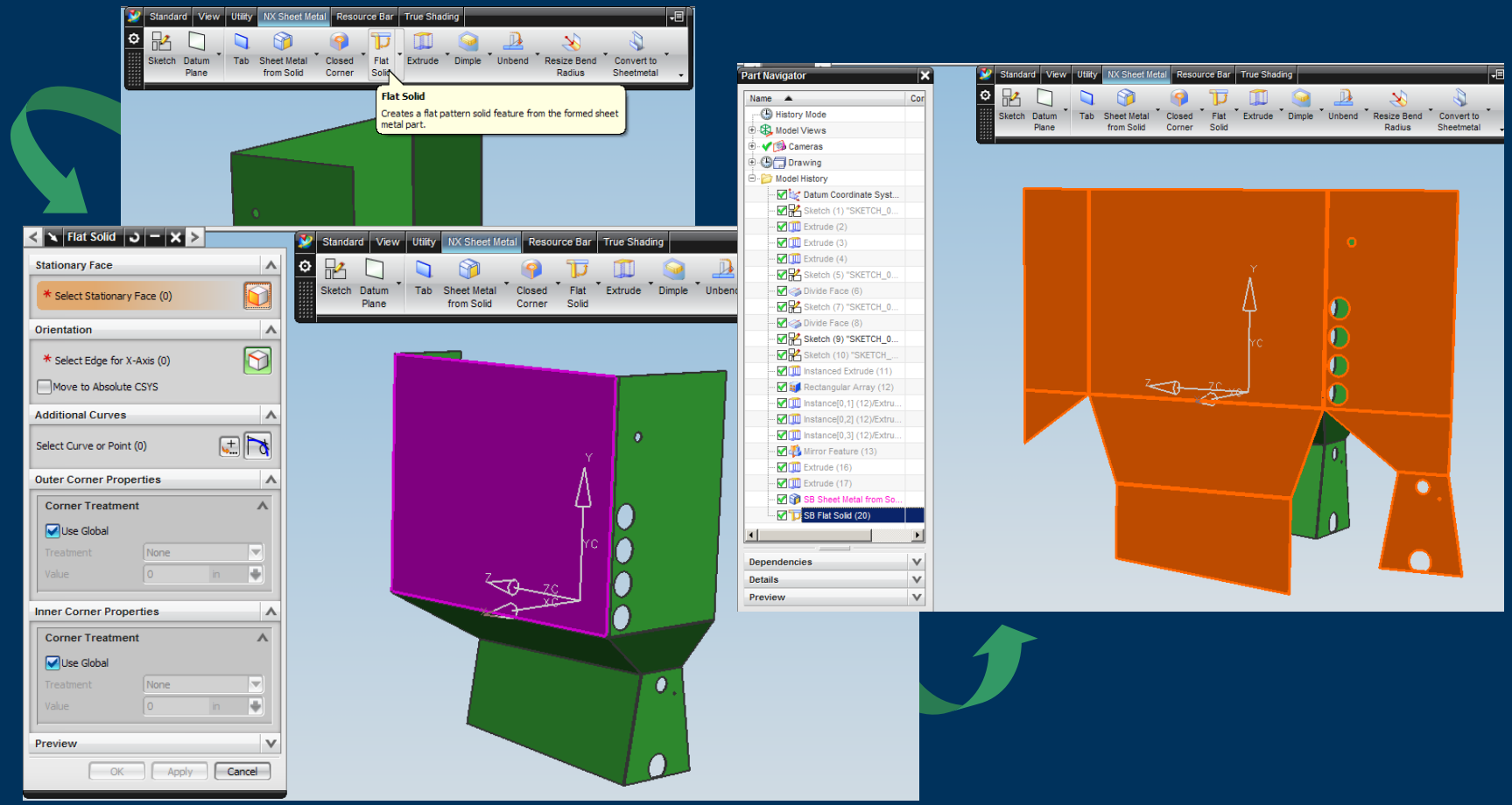

I-deas vs. NX6 - Sheet Metal

I-deas Solid / Sheet Metal = NX6 Sheet metal from solid…

- ***Demo…***

I-deas vs. NX6 - Sheet Metal

I-deas BFCS = N/A in NX6.

- Early plans target NX7 Sheet metal from solid to include cylindrical face selection…
- Closest NX technique would be a hybrid Solid / Flange method.

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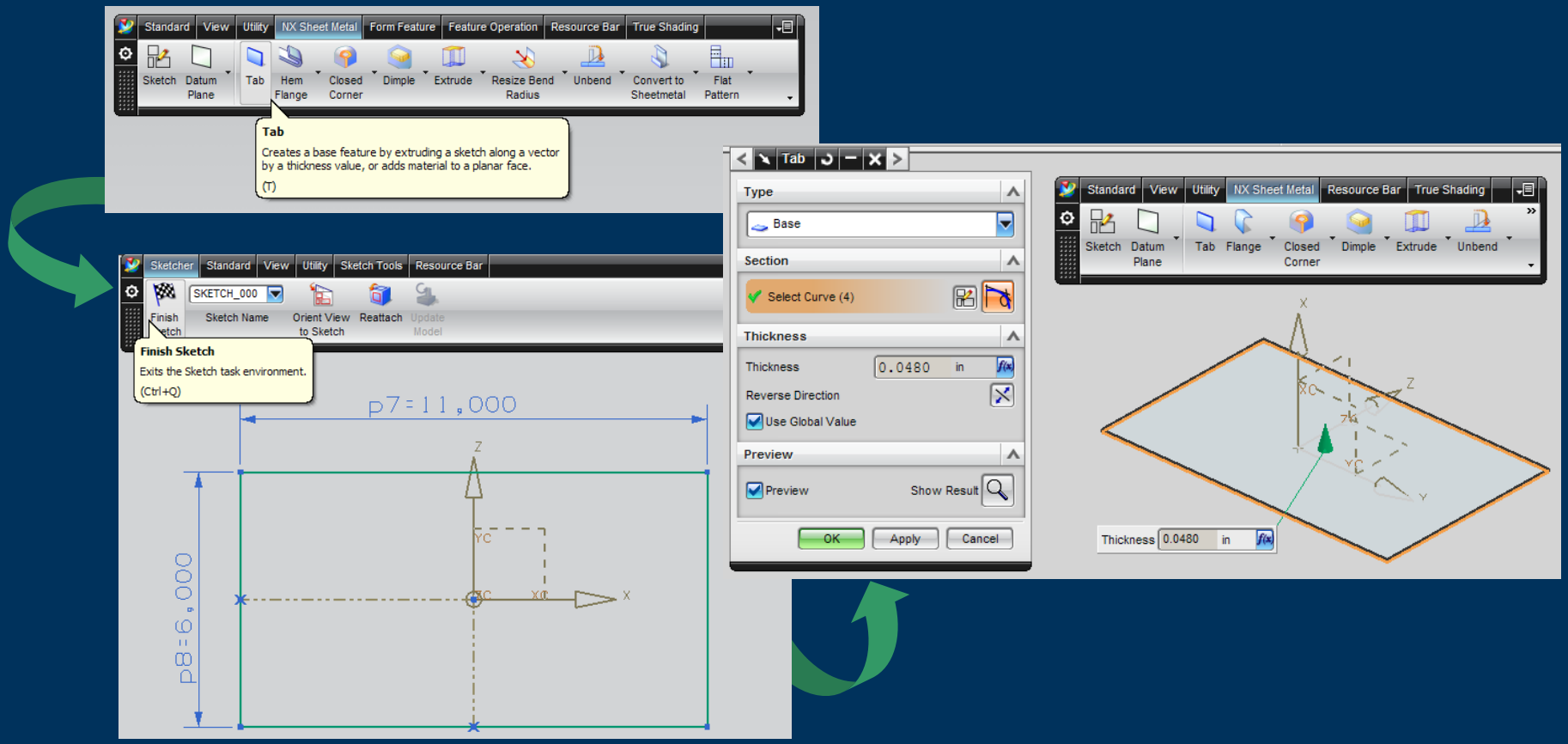
I-deas “Flat to Form” *N/A* = NX6 Tab / Bend…



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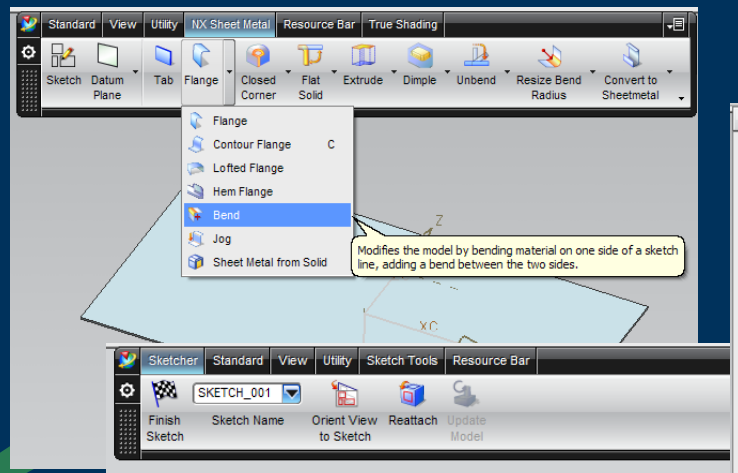

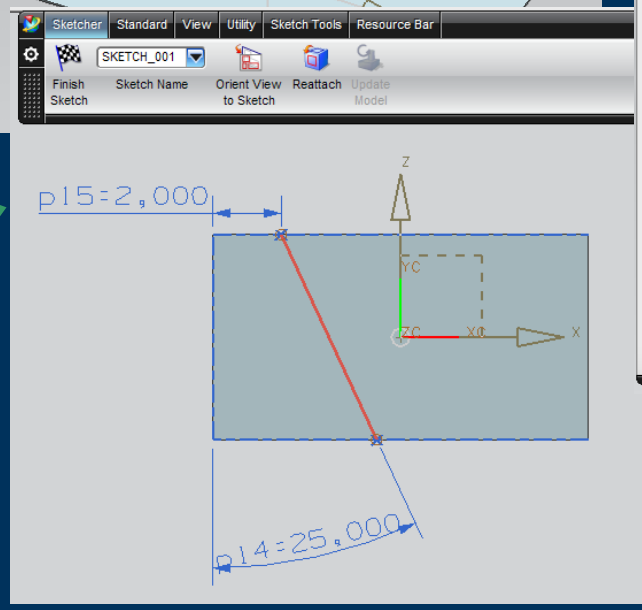

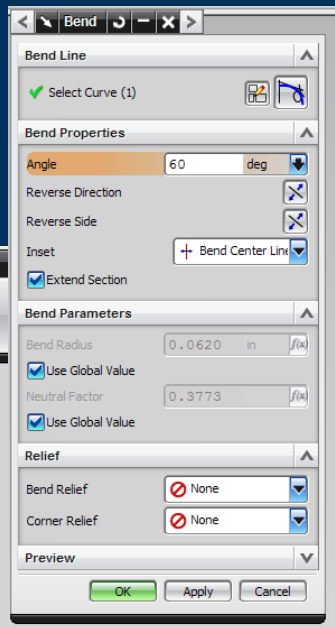

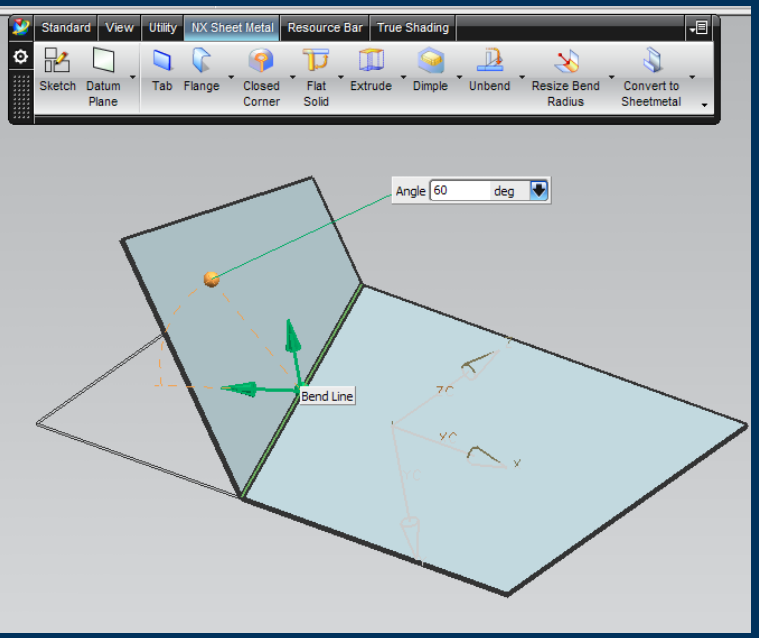

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I-deas "Flat to Form" *N/A* = NX6 Tab / Bend…

- ***Demo…***

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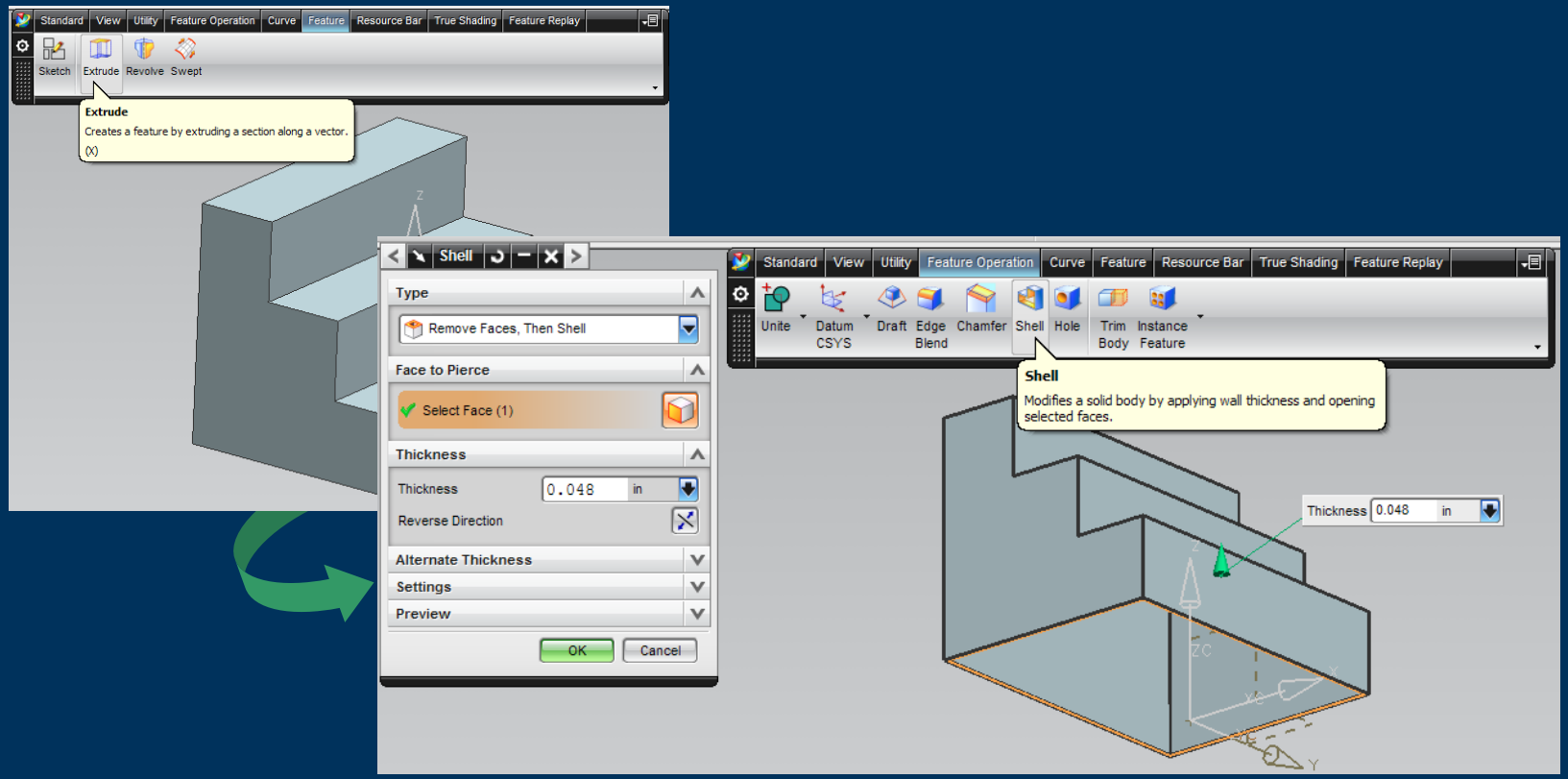
I-deas ~ Solid / Sheet metal / Shell = NX6 Solid model / Convert to Sheet metal / Rip…



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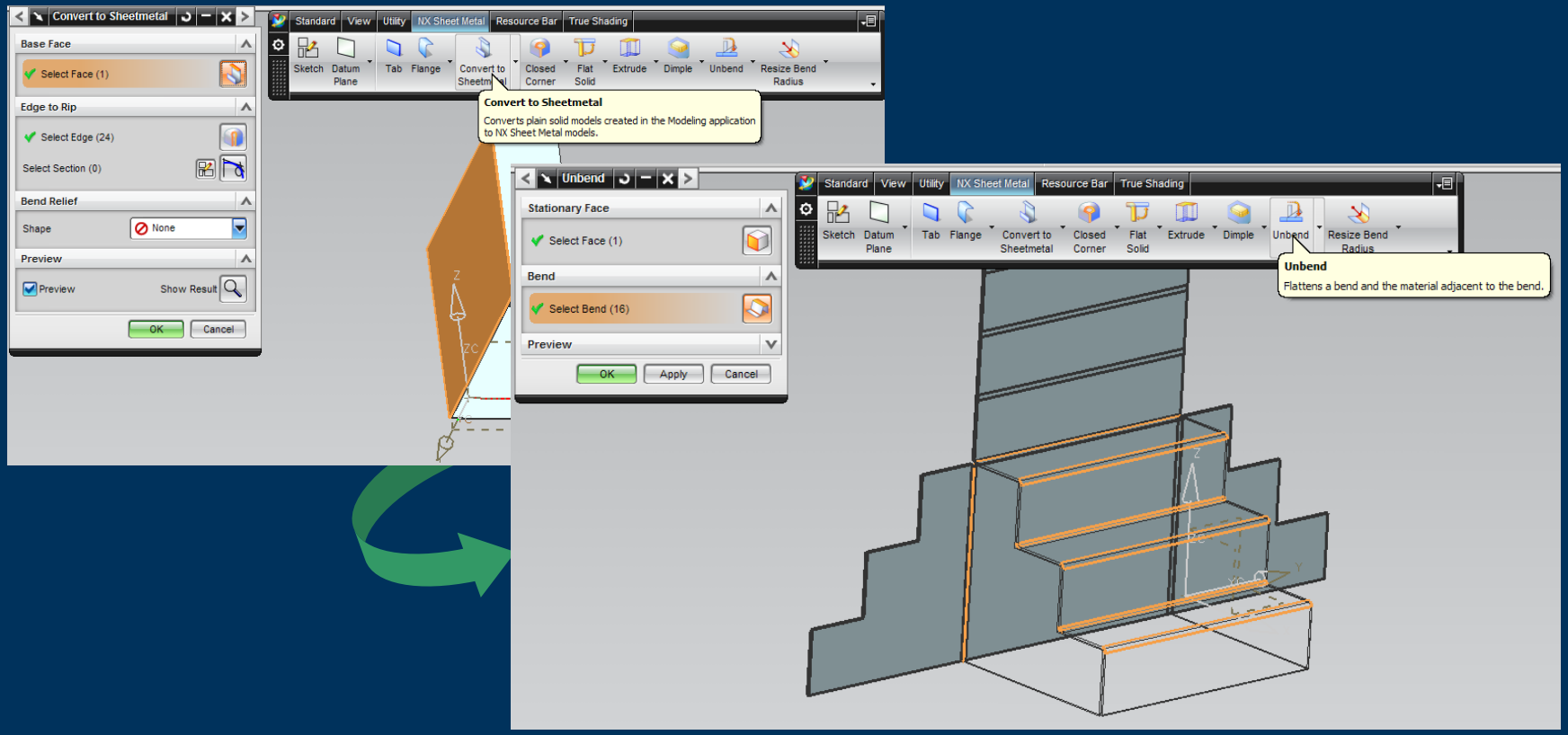

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- ***Demo…***

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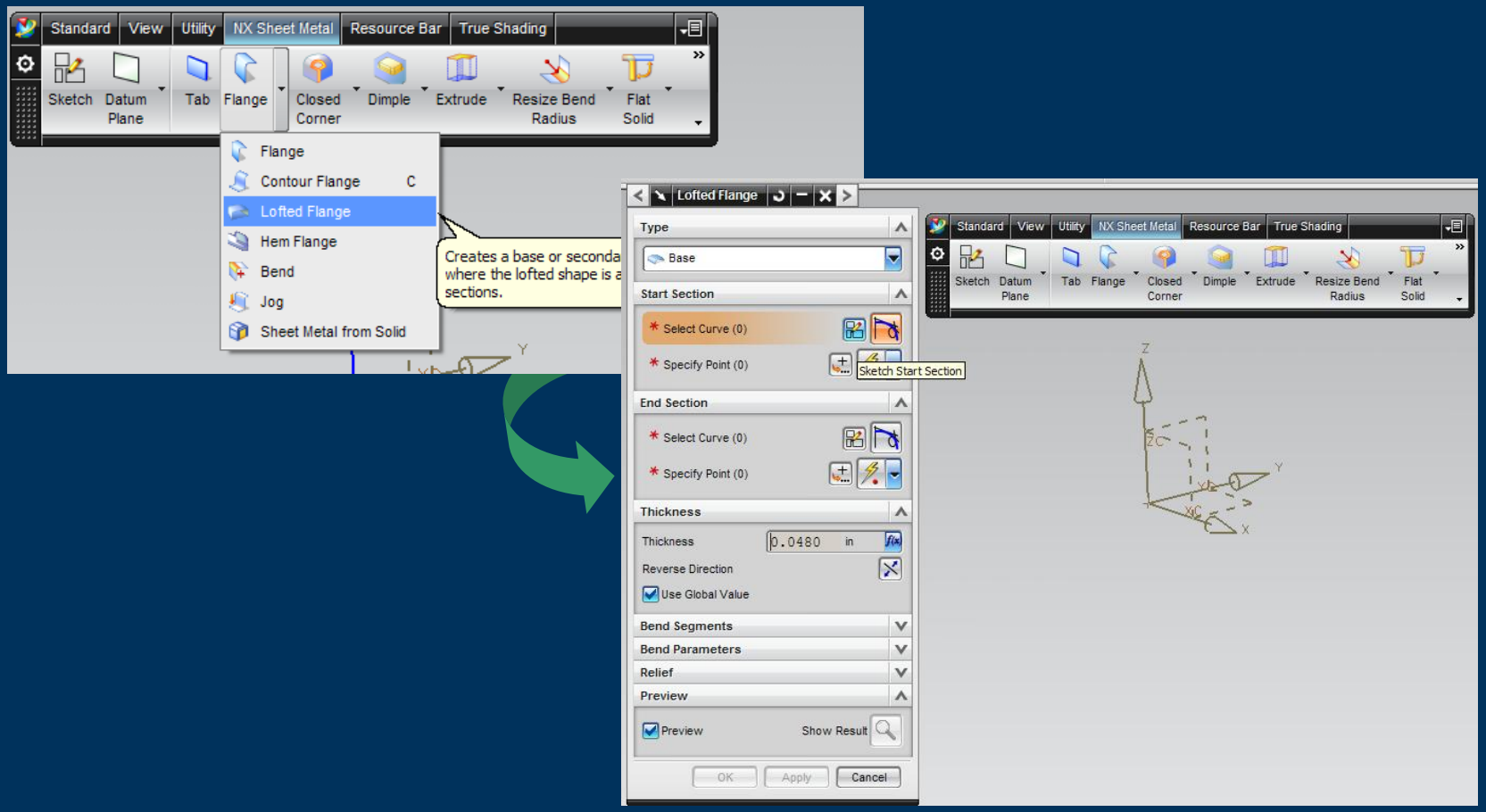
I-deas Solid = NX6 Lofted Flange…



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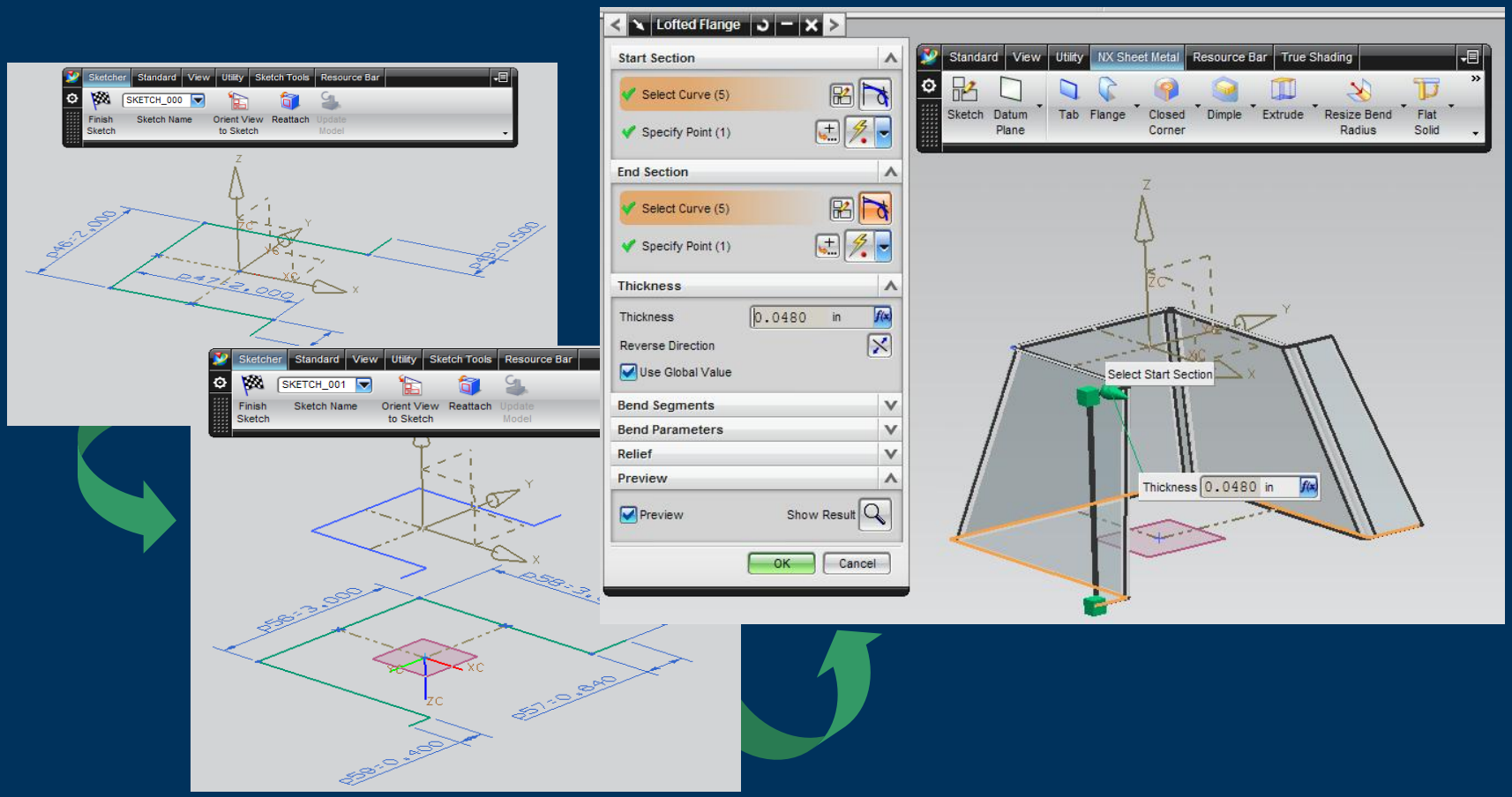

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I-deas Solid = NX6 Lofted Flange…

- ***Demo…***

I-deas vs. NX6 - Sheet Metal

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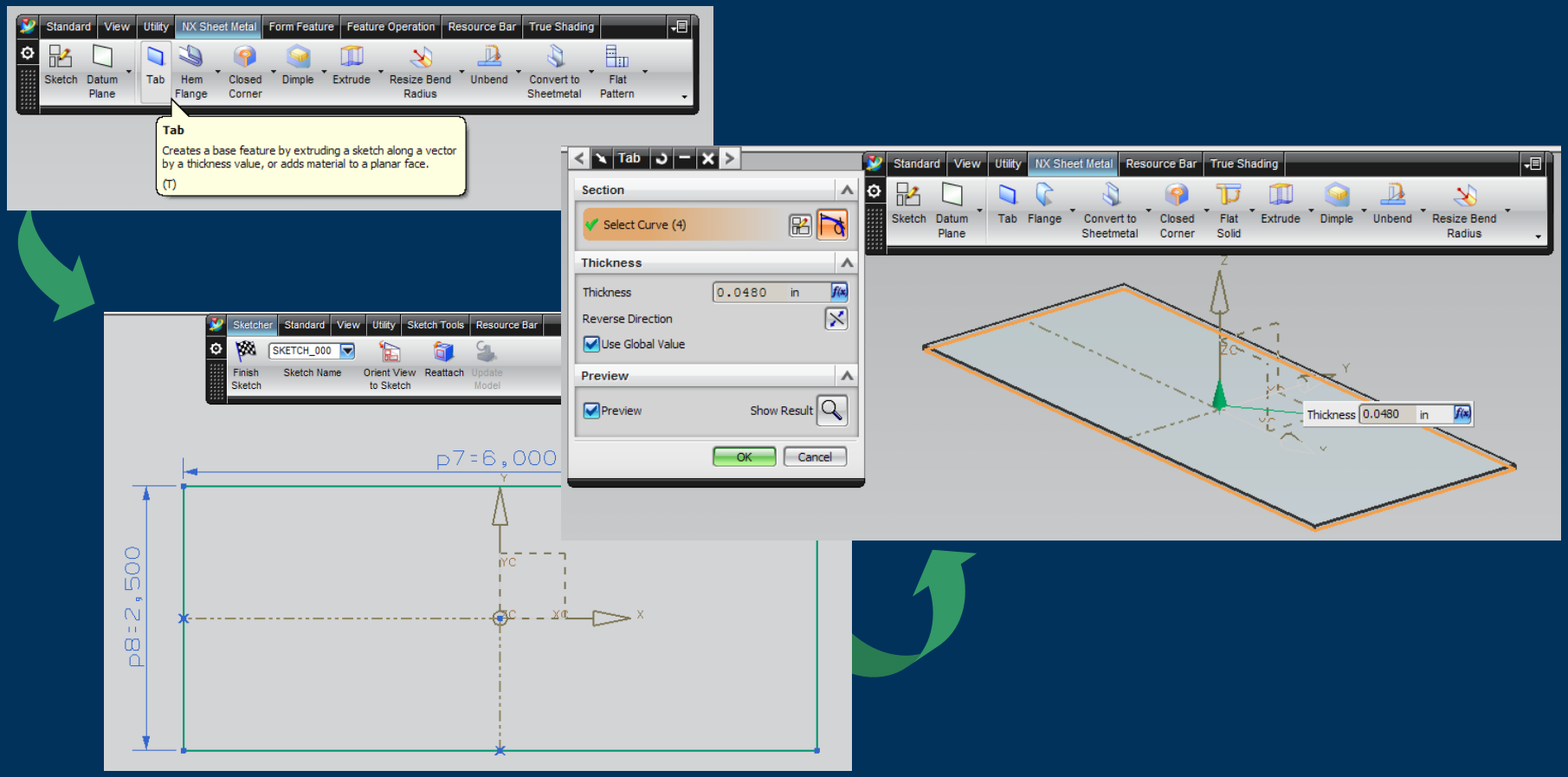
I-deas “offset” flange / bend = NX6 Sheet metal jog…



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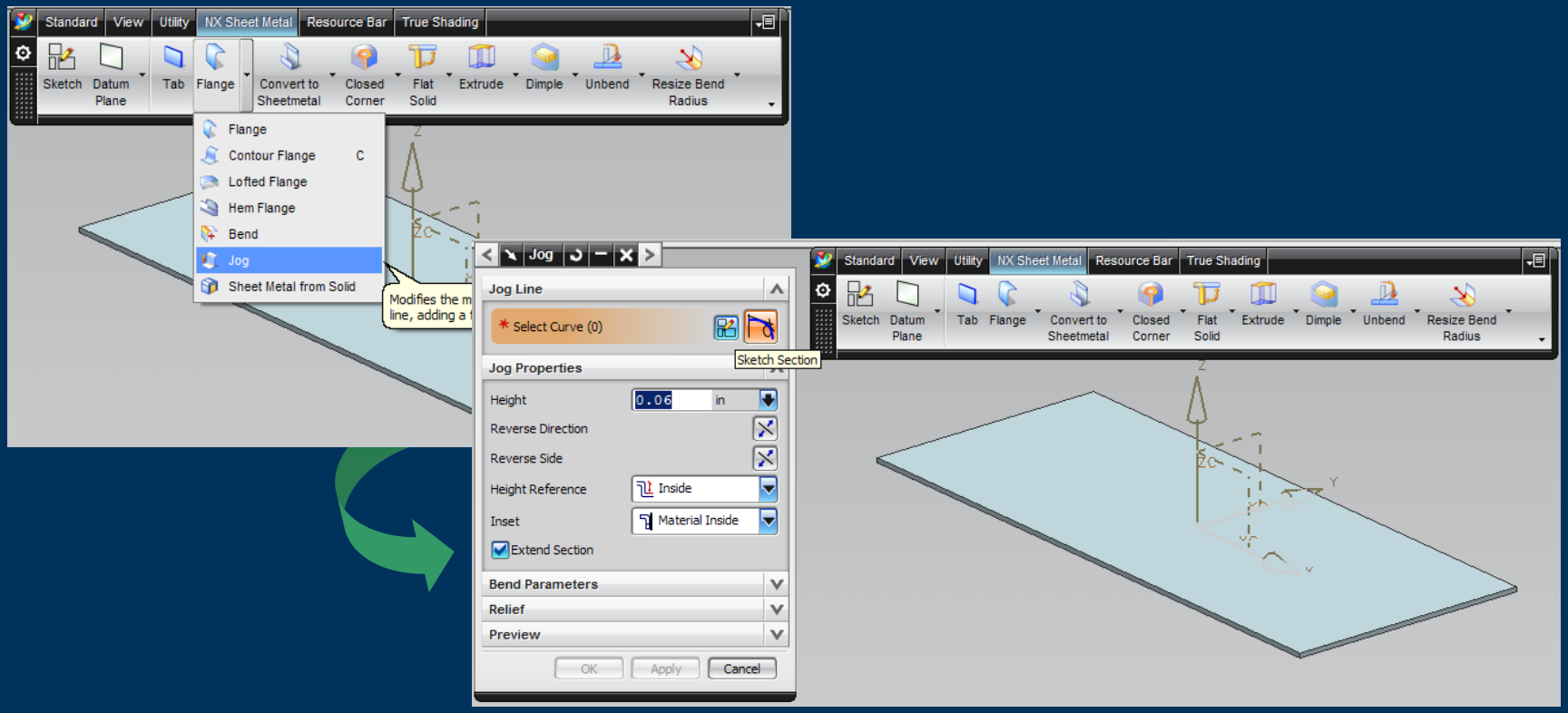

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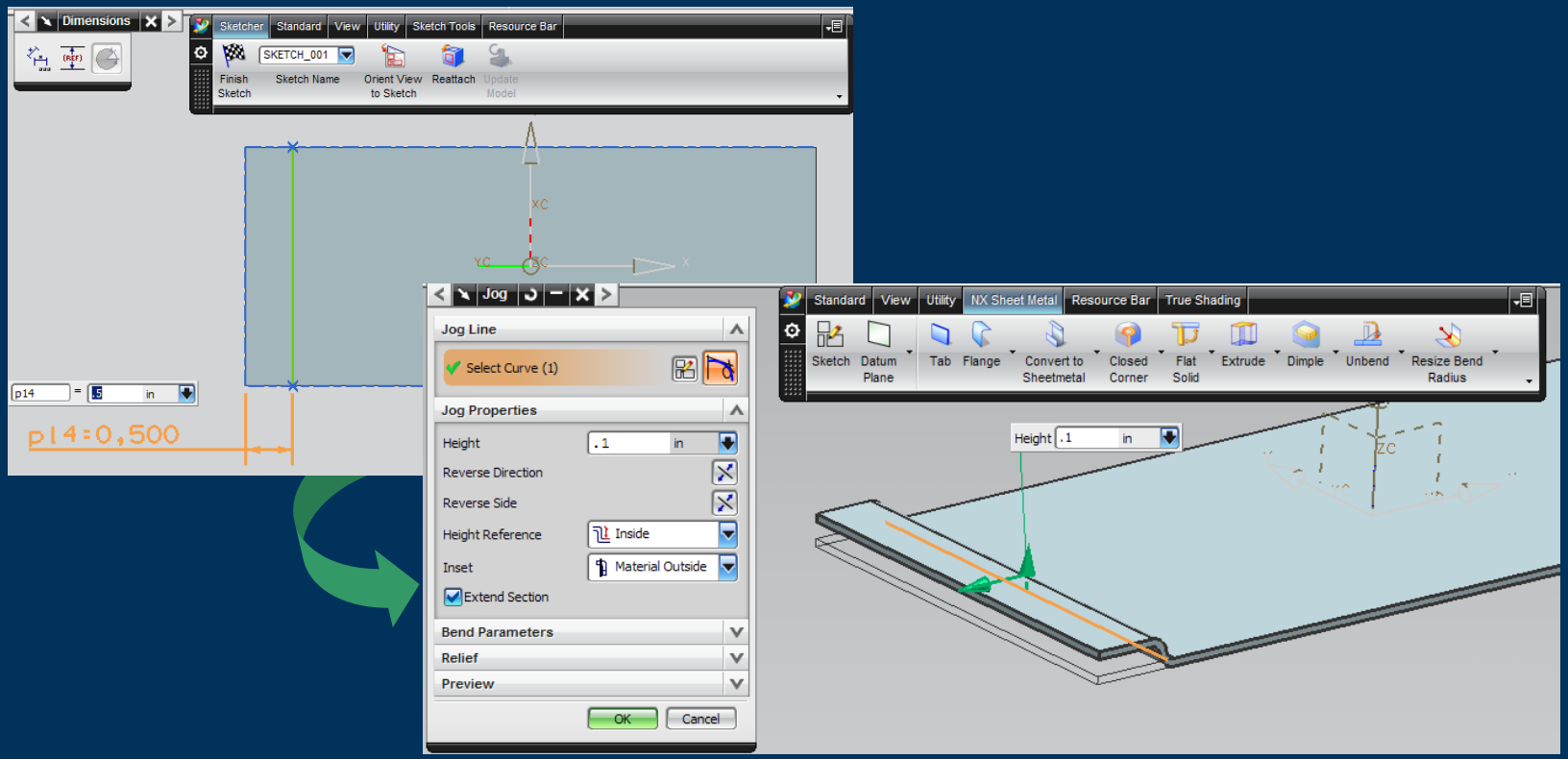

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I-deas “offset” flange / bend = NX6 Sheet metal jog…

- ***Demo…***

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NX6 Sheet metal feature level techniques…

- Hem = WOW!
- Dimple / Louver / Bead / Drawn Cutout / Solid punch
- Closed Corner / Three Bend Corner
- Normal cutout / Bend Taper
- Unbend / Rebend
- Resize Bend – Radius / Angle / Neutral Factor

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NX6 Sheet metal feature level techniques…

- ***Demo…***

I-deas vs. NX6 - Sheet Metal

Summary of NX6 Sheet metal – Pro's / Con's from an I-deas user…

- Pro's
  - "Typical" I-deas workflow equivalents available. Learning curve Transition from I-deas minimized.
  - Feature level commands superior to I-deas.
  - Tab / Bend or "Flat to Form" workflow. Expedites migration of legacy data.
  - Unbend allows for special tooling relief's.
- Con's
  - Patterning/Instancing (modeling module specific).
    - Spacing limitations – uneven not available.
    - Exclusion of instance – not available.
    - Nesting of patterns – pattern within a pattern
    - Positioning – Total pattern length from and along an edge
  - Closed and Three bend corner limitations
  - BFCS technique not currently available.

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Questions?

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