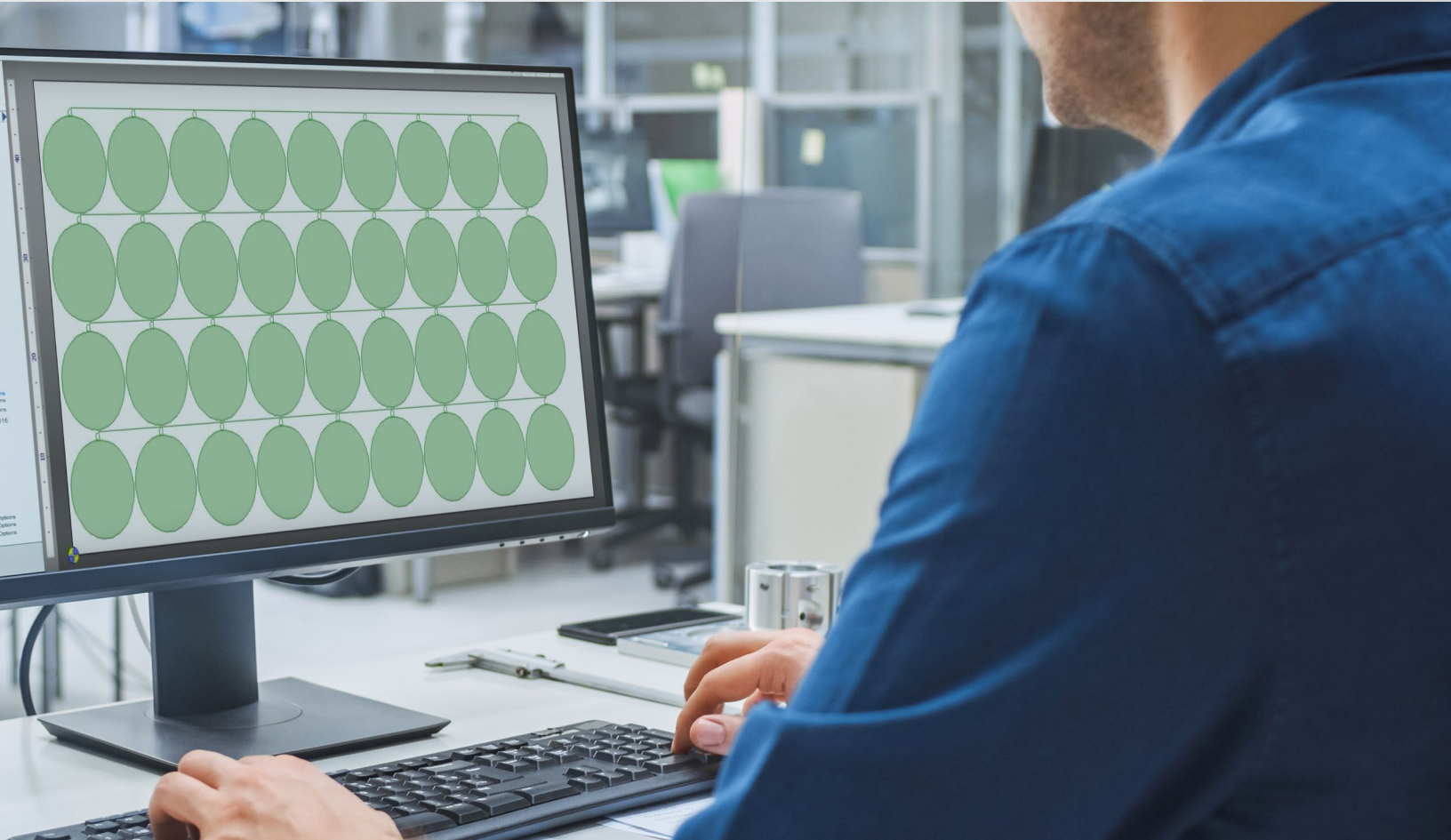


Chain and Bridge Cutting

ProNest optional module



Productivity modules



Benefits

- Increased material utilization
- Faster inventory turnover
- Faster programming

How Chain Cutting works

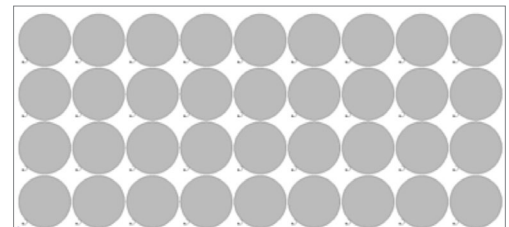
Use Chain Cutting to link multiple part profiles into one continuous cut. The chain can be created manually, after parts have been nested, or automatically as an array of parts.

With Chain Cutting, you could see a significant increase in your cutting efficiency. Reducing the number of pierces will increase consumable life and, for oxyfuel, Chain Cutting eliminates the pre-heat cycle by cutting multiple parts with a single pierce. The reduction in Z-axis, or up/down motion, can add up to significant production time savings.

Before Chain Cutting



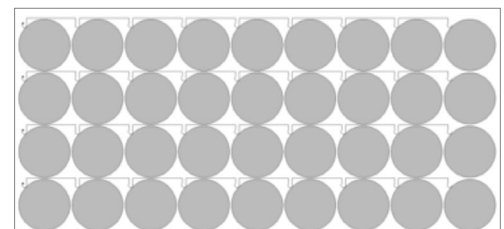
Number of pierces: 36



After Chain Cutting



Number of pierces: 4



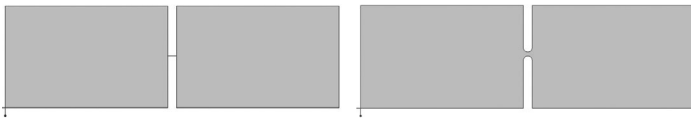
How Bridge Cutting works

Use Bridge Cutting to create a thin web of material between parts, which helps prevent tip-ups on small parts. This forms a single exterior profile, which can stabilize parts during separation from the plate, making them less prone to the effects of thermal movement, resulting in improved geometric accuracy.

In addition, by keeping the head down while cutting, “bridging” reduces piercing and increases consumable life.

Applying the bridge is simple, and ProNest® allows you to set your preferred bridge width and radius at the point of connection to each part.

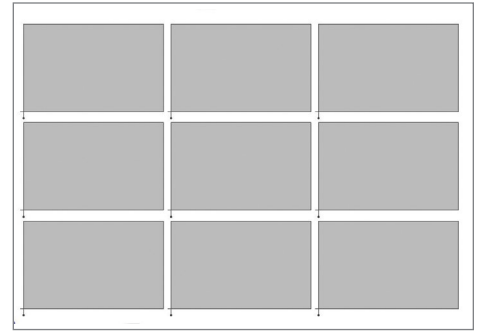
You can even set the bridge width to zero, meaning the parts will still be connected in a single profile, with a single pierce, but no bridge material will be applied.



Before Bridge Cutting



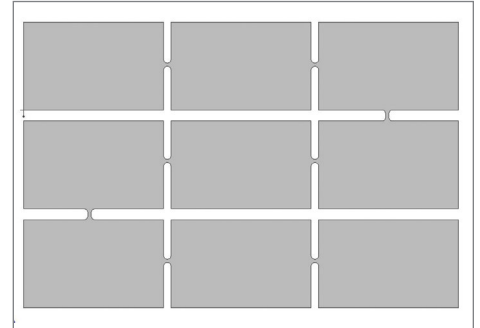
Number of pierces: 9



After Bridge Cutting



Number of pierces: 1



Consider including other Productivity modules to further improve your operation:

- Automatic Nesting
- Collision Avoidance
- Nesting System Optimization
- Skeleton Cut-up
- Common Line Cutting

Visit our website to request a demo:
www.hypertherm.com/modules

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