ProNest®
CAD/CAM NESTING SOFTWARE

Hypertherm Associates
Software Group

# Advanced Productivity Pack

ProNest/ProNest LT optional module

Productivity modules



## Benefits

- Maximize material yield across high-volume production by reducing cut length and scrap with Common Line Cutting
- Increase throughput and lower operating costs by reducing pierces, and up/down torch motion while extending consumable life with Chain and Bridge Cutting
- Accelerate downstream operations by cutting skeletons into safer, manageable sections for faster unloading and more efficient material handling with Skeleton Cut-up

## About

The Advanced Productivity Pack combines Common Line Cutting (CLC), Chain and Bridge Cutting, and Skeleton Cut-up in one powerful module. Together, these tools enable advanced features for greater material utilization, nesting flexibility, cutting safety, and process control.

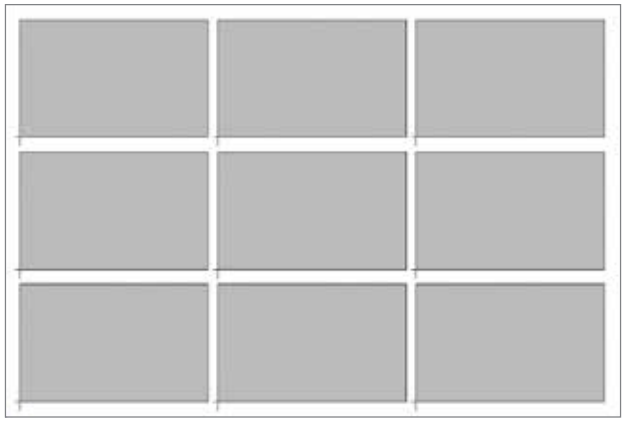
# How it works

## Common Line Cutting

With CLC, you can share common edges between adjacent parts to reduce cut length, consumable wear, and material waste. Apply it manually to create pairs or quads, or automatically to add similar parts from the part list. Kerf compensation is applied automatically and can be set as crossing or non-crossing based on the cut process. Safety cuts help avoid tip-up situations, while support for dissimilar part profiles, plate-edge nesting, and customizable tool paths help increase material utilization and control.

### Before Common Line Cutting

Parts nested: 9
True utilization: 75%



### After Common Line Cutting

Parts nested: **14**
True utilization: **90%**



Eliminate gaps between parts to reduce cutting distance and material waste. Fewer pierces increase productivity and extend consumable life.

### Additional features included:

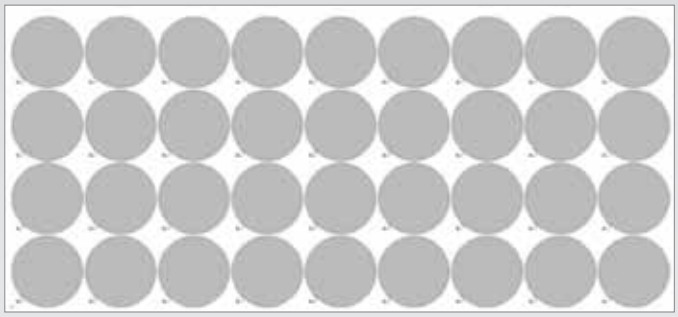
- Edit torch paths
- CLC dissimilar parts
- Safety cuts
- CLS with plate edge
- CLC dynamic align
- CLC while auto nesting

## Chain Cutting

Chain Cutting links multiple part profiles into one continuous cut, either manually after nesting or automatically as a part array. It cuts multiple parts from a single pierce, increasing consumable life, and avoiding repeated pre-heat cycles for oxyfuel.

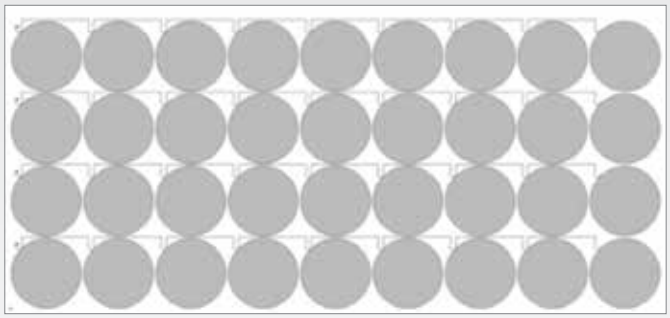
### Before Chain Cutting

Number of pierces: 36



### After Chain Cutting

Number of pierces: 4



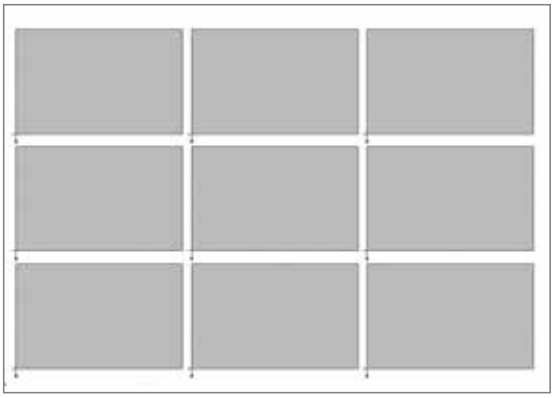
## Bridge Cutting

Similar to Chain Cutting, Bridge Cutting links parts into a continuous cut, but also leaves a thin web of material to hold small parts in place during separation.

Adjust bridge width and connection radius to control how parts stay connected. Set bridge width to zero to connect parts with one pierce and no bridge material.

### Before Bridge Cutting

Number of pierces: 9



### After Bridge Cutting

Number of pierces: 1



### Additional features included:

- Bridge dynamic align

## Skeleton Cut-up

Manually cutting skeletons with a hand torch can take 3x longer than using the cutting table. The Skeleton Cut-up feature automatically cuts leftover skeleton material into manageable sections for faster, safer unloading.

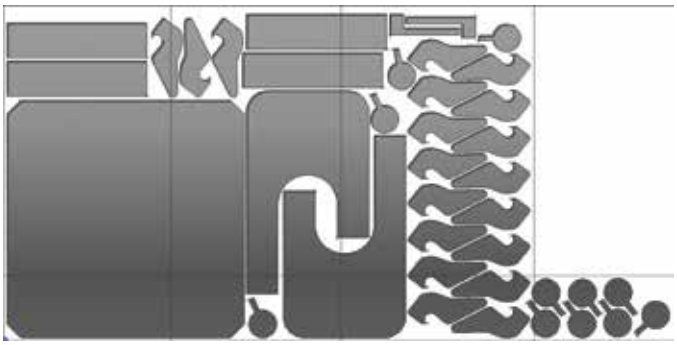
### Before and after

**Before Skeleton Cut-up**
Estimated time to complete manually:

45 minutes

**After Skeleton Cut-up**
Estimated time to complete automatically:

**15 minutes**



Operators can save between 15–30 minutes per sheet in unloading time.

For an annual production of 4,000 sheets, the labor savings alone is significant (25–50 man-weeks per year).

### Additional features included:

- Cut sequence – integrate skeleton lines with parts
- Settings XLS

Consider including these optional modules to further improve your operation:

- Advanced Automatic Nesting
- Nesting System Optimization

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

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