



This manufacturer of metal components for security systems was finding it difficult to perform scheduled preventative maintenance on its stamping dies for two main reasons.

1. Decreasing workforce
2. Increasing inventory of stamping dies

This was leading to a decline in the precision and quality of work being performed. Concern was growing that this inconsistent service would negatively impact the quality of their metal products.

This manufacturer needed to locate a tool & die shop that could successfully handle the quantity and diversity of their stamping dies for preventative services as well as unexpected service issues.

With 50 years of die building experience, five Toolmakers solely dedicated to Die Maintenance and the support of a full-service tool room this Security Systems Manufacturer chose Ultra to service its stamping dies.

And we successfully have delivered a customized service plan to fit the needs of this customer.

## Service

Preventative die maintenance is based on a determined amount of strokes; and when that is met this Security Systems Manufacturer contacts Ultra and we pick up the die(s) at their facility.

Our maintenance includes services that are standard on all dies as well as customized services based on a die's size and complexity. The services shown below outline only a portion of the work we perform for standard die maintenance.

- Clean the tool.
- Inspect all components for wear and damage.
  - Dull components are sharpened and shimmed back to the correct heights.
  - Forms are polished.
  - Forms and components that are worn or can no longer be repaired to their original state are changed out.
- Dies with nitrogen springs are checked for pressures and if needed they are drained and refilled.

Reassembling a stamping die in the correct manner is of critical importance to return to high-quality, consistent production. Clearances are also re-checked to ensure there will be no issues once metal stamping resumes at the customer's manufacturing facility.

The length of the die and the number of components determine the repair time. Standard turnarounds have been set with this customer to keep their production running as scheduled. Modifications can be made when production emergencies arise; such as unexpected breakdowns and rush orders. For example, we were able to return a serviced stamping die to their manufacturing facility within two days.

Small dies on average take **8 hours** to service.

Large dies on average take **20 hours** to service.

These times are based on stamping dies ranging from 24" to 96" in length.



## Customer Outcome

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Ultra set up a service schedule that allows the customer to maintain their production schedules with limited interruption.

Preventative services were no longer being overlooked or intentionally skipped as was previously being done by this manufacturer. Complete preventative maintenance by Ultra improved the longevity and functionality of their stamping dies.