

## Data Bulletin #404:

# "Tooling Warranty"

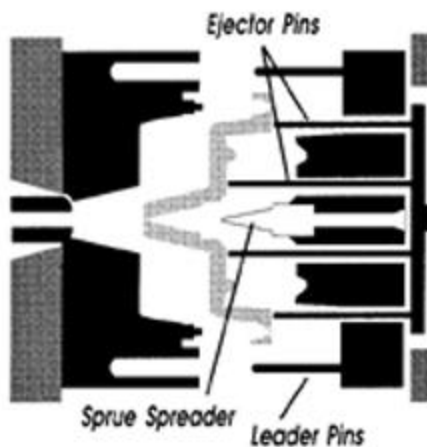
Part Four of the  
Tooling for Zinc Diecastings Series

Tooling wear is an inevitable fact of the diecast process and will affect the cost and quality of your product. While normal "wear item" replacement is considered a part of regular die maintenance, repair and/or replacement of "detail items" is often left in a "gray area" during the "tool up" process.

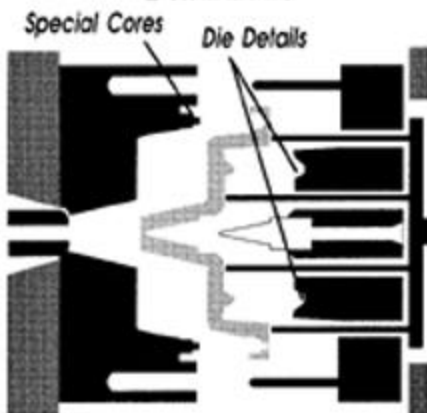
### Steps to Warranted Tooling

1. The die design is reviewed by the customer and the diecast engineer.
2. The tolerances are agreed upon.
3. Samples are submitted with dimensional layout.
4. Key/critical dimensions are chosen and Cpk's established.
5. The agreed-upon changes are made to the blueprint.
6. The warranty is issued for a specific number of shots.

### Wear Items



### Detail Items



### Advantages

- Known tooling cost for a specific number of parts
- Engineering review of part change due to tooling wear
- A quality action plan is established to assure part integrity.

### Questions to Ask...

- Is the warranty issued in writing?
- How is the warranty affected if the tooling is modified?
- Does the warranty mean that the tooling will be "used up" after the specified number of shots is reached?
- Are the die refurbishments warranted?

**A specimen copy of the  
DeCardy tooling warranty  
is enclosed.**

**Please consider this additional advantage on your next tooling.  
Call or fax Will Vogel today.**