

ABSTRACT

“Challenges in milling of welded forging die”

The need to Machine welded dies for forging has been greatly increased due to

- Requirement of High accurate forged parts
- Requirement of High volume.
- Need for higher die life to reduce Die change over
- Need to reduce Cost/ part.
- Volume of material removed from the die is less as Welding and material is added on the profile areas.
- Need to buy and stock new forging Blocks are eliminated.

In this milling process , tool life is the key factor. Correct cutting conditions and process influence the tool life , geometrical accuracy and surface quality of the forging die.

Some of other factors which need to be considered are

- ❖ Strategy to be used in milling the die.
- ❖ Tool life monitoring
- ❖ Spindle load monitoring.
- ❖ Tooling considerations
- ❖ Rigidity and Vibration control.