



Roll Formers

NEAR NET SHAPE RINGS

DFR Roll Formers are different from conventional Roll Formers as they displace the material of the part both axially and radially. This cold rolling process produces near net shape parts from rings with a simple square, rectangular or round cross section. Therefore, machining is greatly reduced and in many cases completely eliminated. This process is especially beneficial for applications using high value material, for example in the aerospace industry.



APPLICATIONS



DFR Roll Formers cause the ring to enlarge in diameter and also in width. Certain symmetrical profiles can be rolled in the ring.

DFR Roll Formers are used in the aerospace industry to process thick walled rings to near net shape rings with certain profiles. This reduces or even eliminates the need for further machining.

BENEFITS

- Near net shape rotary roll forming is a repeatable, highly accurate alternative to other processes. This process offers considerable savings of material, which are particularly important in application of expensive alloys.
- Roll forming generates savings in material of at least 25% to 75% when compared to conventional machining operations.
- Material hardness and grain structure are enhanced, improving the quality of parts.
- The profile is formed to precise tolerances. An extremely wide range of simple to very complex profiles can be attained with the process.

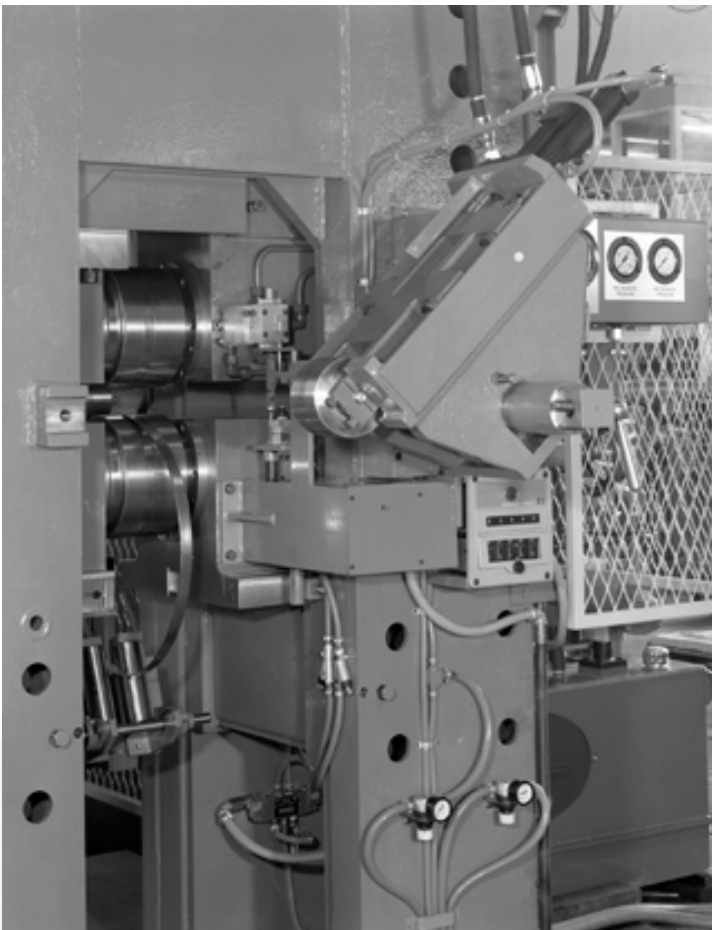




ROLL FORMING

50-DFR-4

A 25 ton Near Net Shape DFR Roll Former. This machine is forming jet engine components to near net shape. Roll Formers can be used on welded and seamless rolled rings.



120-DFR-10

A 55 ton DFR Roll Former. This machine has the capability to form parts with diameters ranging from 200 mm through 1800 mm and widths ranging from 25 mm - 250 mm. Certain symmetrical profiles can be rolled in the ring.

FEATURES

- Wide range of sizes and configurations
- Position control system
- User friendly touch screen interface
- Automatic Lubrication system

