

Extra-Long Cone Drawing Die VFB.4

Hyperion Materials & Technologies supports Vassena Filiere S.r.L in developing the patented extra-long cone drawing die VFB.4

AT A GLANCE

Vassena Filiere S.r.L is a proven supplier of quality drawing dies and wire drawing equipment. For more than 25 years, Vassena Filiere and Hyperion Materials & Technologies have worked together to drive the innovation of drawing dies. This partnership has been driven by the common desire to manufacture high-quality products to better serve customers worldwide.

THE CHALLENGE

Vassena Filiere was curious if merging a die and a pressure insert into a single device would produce benefits in terms of lubrication, wear resistance, and quality. Working with Hyperion Materials & Technologies, the solution emerged - design a drawing die with a recess carved inside the die that would act as a pressure insert.

THE SOLUTION

Vassena Filiere and Hyperion worked together to develop the extra-long cone drawing die VFB.4. "It was truly a technological challenge as we had to go outside of conventional manufacturing methods since it was a unique design," says Héctor Ferrer Application Engineer Metal Forming. The solution was so unique that Vassena Filiere was able to patent the VFB.4.

During the conceptualization and development stage of the extra-long cone drawing die VFB.4 prototype, additive manufacturing (3D printing) was the key manufacturing process. Hyperion's unique additive manufacturing process made it possible to create multiple prototypes that allowed for several assessment and adjustments in the field. Working together reduced time spent on development and made it economically effective to test the product in production environments.

Hyperion process engineers had one last challenge, to industrialize the product for mass production. A combination of conventional pressing with green machining was the solution. This manufacturing process allowed Vassena Filiere to receive the product that wanted in a near net shape geometry, saving them time and money.

The strategic partnership between Hyperion and Vassena Filiere started over 30 years ago to add value to the metal forming industry through research and product development. We have listened to our customers and then collaborated to innovate and deliver solutions that drive our customers' success. Are you interested in working with us? Contact your wire drawing sales expert today or e-mail techservice@hyperionmt.com.



About Hyperion Materials & Technologies

Hyperion Materials & Technologies manufactures a wide range of premium products for the wire drawing industry, from polycrystalline diamond (PCD) and tungsten carbide die blanks to rough core dies and diamond compounds for polishing of wire drawing dies. With its advanced production capabilities, Hyperion can fulfill all your needs for drawing solutions. Learn more about our offerings by visiting our website hyperionmt.com/products/Wire-Dies/.

About Vassena Filire S.r.L.

Vassena Filire S.r.L. is...