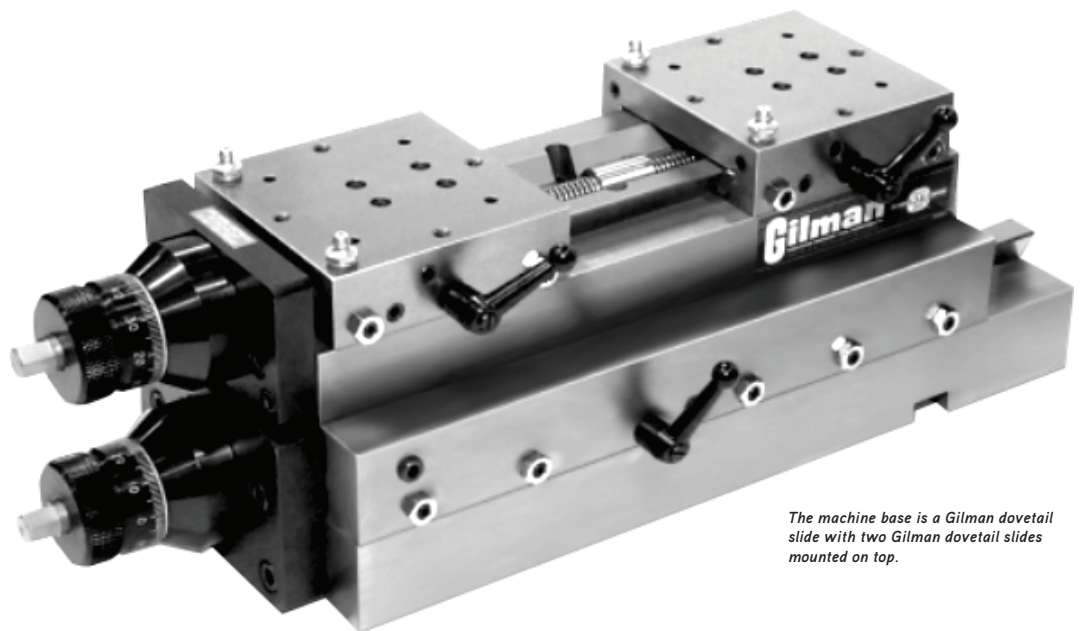


Custom Inline Compound Slide for Cable Sheath Forming Machine

Higher accuracies allow use of thinner material and improve output 60%

Application

A manufacturer of cell tower cables needed to improve the accuracy and capability of its machinery in order to allow the use of thinner material and to lower the cost of production.



The machine base is a Gilman dovetail slide with two Gilman dovetail slides mounted on top.

Challenge

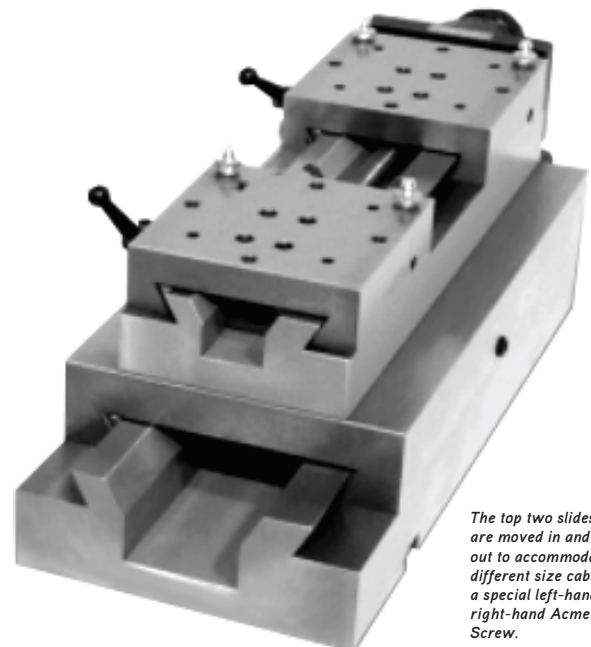
Inconsistencies in the cable shielding allowed moisture and static to enter and cause interference. The manufacturer needed a more repeatable forming process to ensure that the welding of the shielding remained constant. To increase output, the manufacturer

wanted to use thinner material for the shielding layer and increase the speed of the forming process. Planning ahead, they also asked for a machine that would be accurate enough to manufacturer fiber optic cable in the near future.

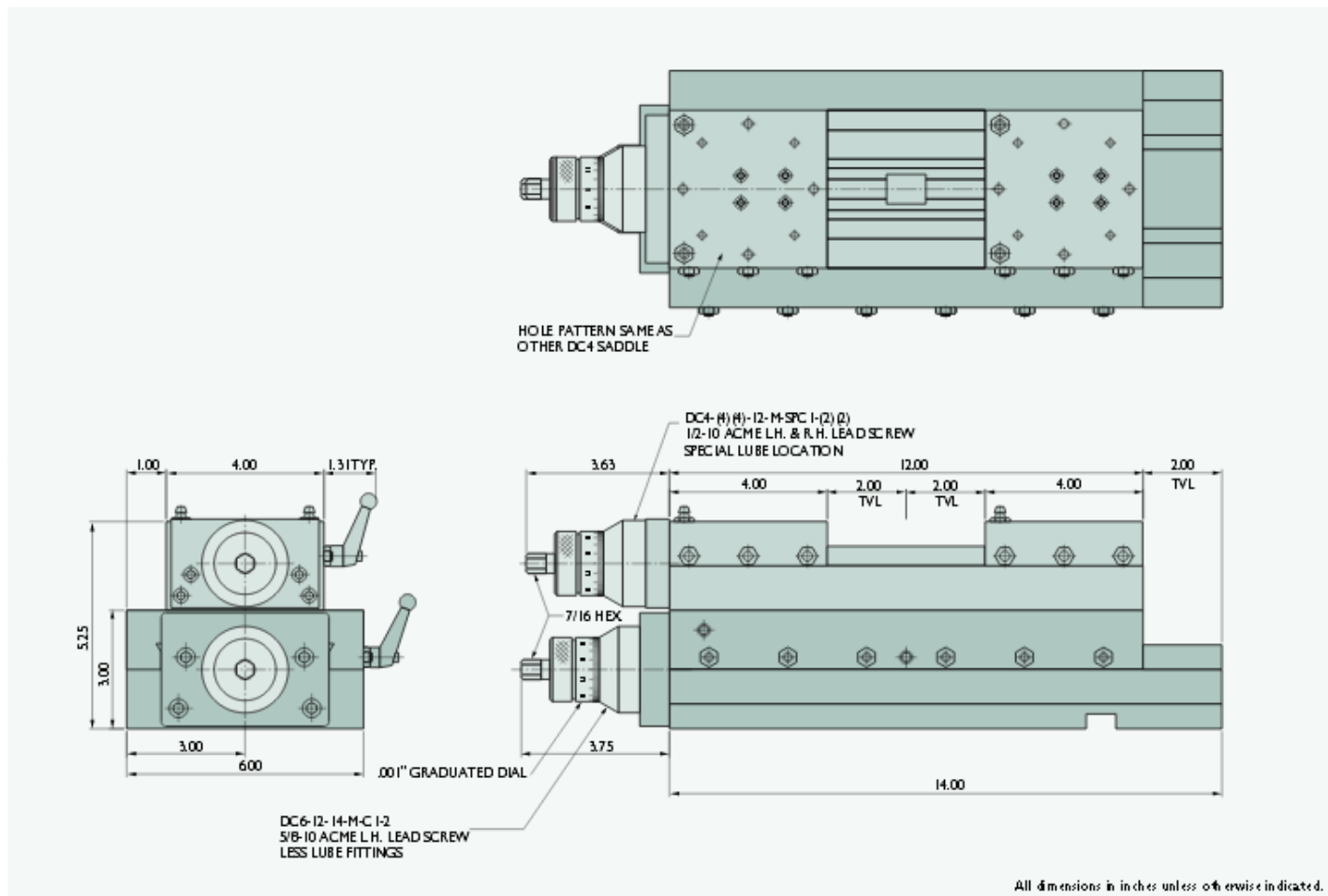
Solution

The customer had previously built its own machine slides but looked for outside engineering to help with this new project. A custom machine tool builder, specializing in roll forming automation equipment, was chosen to quote the project because of its experience and attention to detail in every phase of the project from feasibility through debugging.

The machine base is a standard Gilman dovetail slide with two standard slides mounted on top. The top two slides move in and out to accommodate different size cable by a special left-hand and right-hand Acme Lead Screw. Two .001" graduated dials provide motion controls. Special location lubrication nipples are installed on the top two slides.



The top two slides are moved in and out to accommodate different size cable by a special left-hand and right-hand Acme Lead Screw.



Cost Savings

The final machine increased output by 60% while providing the adaptability, repeatability, and accuracies required to TIG weld copper, high frequency weld aluminum and laser weld stainless steel cell tower cable shielding.

Sales Point

The components making up this product are all standard DC designs. By solving the application challenges with a group of standard designs in a custom configuration, the customer's product cost was minimized.

Technical Specifications

Bottom Slide:

- DC6-12-14-M-C1-2
- 5/8-10 Acme Left-Hand Lead Screw
- Lubrication via top slide fittings
- .001" Graduated Dial

Top Slides:

- DC4-(4)(4)-12-M-SPC1(2)(2)
- 1/2-10 Acme Left-Hand and Right-Hand Lead Screw
- Special lubrication fitting location
- .001" Graduated Dial



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