



Dear Colleague,
This month we're traveling to Scotland for the *SPIE Astronomical Telescopes + Instrumentation* conference June 26 - July 1. We will bring a working demo of our Cobra fiber positioner, which is **available now** for use in fiber spectrometer programs and other applications. Meanwhile read below for more information about our Cobra positioner technology and manufacturing capabilities.

Cobra Fiber Positioner in Full-Scale Production



In May 2016 New Scale demonstrated full production capacity - 200 per month - of Cobra fiber positioners for the Subaru Telescope Prime Focus Spectrograph (PFS).

This important production milestone was reached after eight years of research and development, resulting in a unique and patented piezoelectric motor technology with 10V operating voltage, lifetime > 400K cycles, and patented drive electronics sufficiently small and low power to be integrated in the close-packed Cobra arrays.

For manufacturing, we have developed a global supply chain, assembly tools and fixtures, repeatable manufacturing processes, quality assurance and 100% in-line testing methods, and a highly trained and experienced production staff.

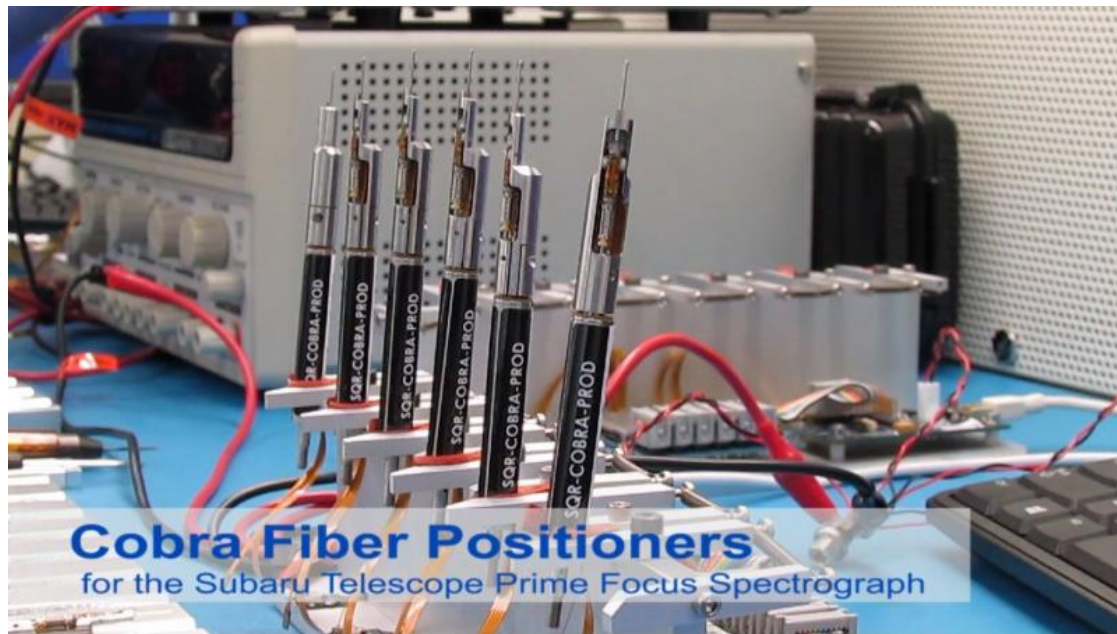
New Scale plans to deliver a total of 2,550 Cobra positioners to the California Institute of Technology by June 2017. We're proud to be part of the PFS team and contribute to this program's goals to better understand the nature of the universe.

Having demonstrated our unique competencies in technology development combined with large-scale micro mechatronic manufacturing, we expect to contribute these skills to other fiber spectrometer programs in the near future.

Learn more

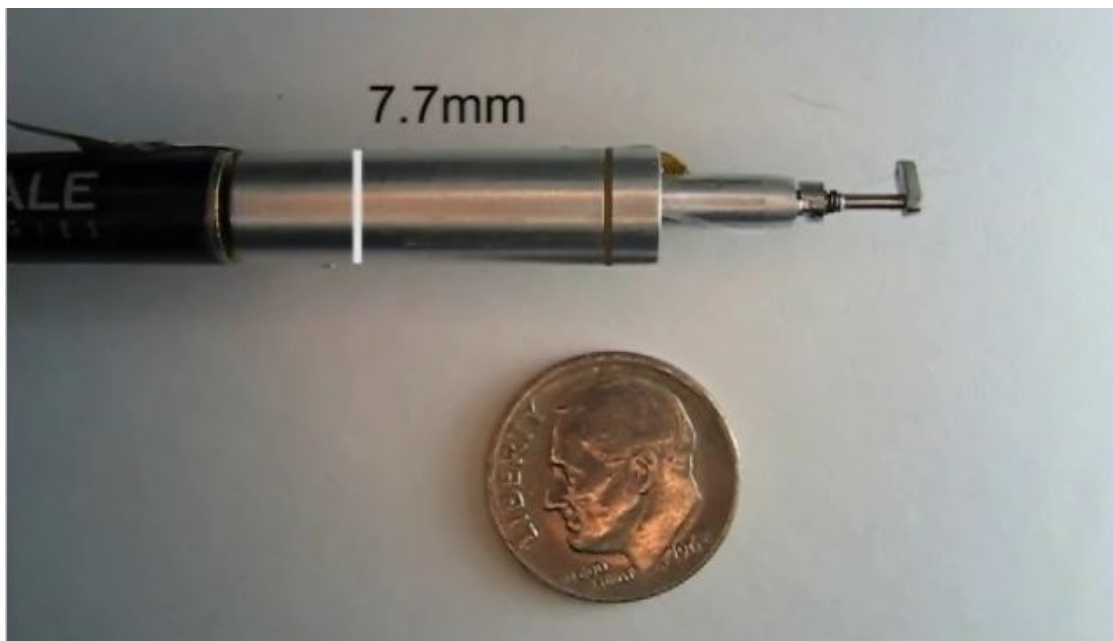
- [Visit the New Scale Technologies website](#) for an overview of Cobra development and performance parameters.
- [Download the **whitepaper**](#) (PDF) on Cobra development, manufacturing and testing at New Scale.
- [Visit the Subaru Prime Focus Spectrograph website](#) for details about the spectrometer and its mission to explore the nature of dark matter and dark energy, and the history of galaxies.
- [Contact us](#) for more information or to arrange a meeting.

Video: Cobra Production



Take a video tour of our Cobra fiber positioner manufacturing facility near Rochester, NY. [Watch the video](#) (2:00)

Video: The Cobra Positioner in Action



See the Cobra fiber positioner in operation, along with an animation showing how it achieves full coverage of an 9.5 mm diameter fiber patrol area with an actuator spacing of 8 mm in an array. [Watch the video \(2:52\)](#)

Meet us at SPIE Astronomical Telescopes + Instrumentation

June 26 - July 1, 2016
Edinburgh, United Kingdom

SPIE. ASTRONOMICAL
TELESCOPES +
INSTRUMENTATION

New Scale CEO David Henderson will be attending the conference but not exhibiting. [Please call or email](#) if you would like to meet in Edinburgh and see a demonstration of the Cobra fiber positioner.




About Us

New Scale Technologies develops small, precise and smart motion systems for critical adjustments of optics, and many other micro positioning applications. Our simple and elegant solutions deliver best-in-class performance in handheld, portable and mobile instruments for medical, scientific and industrial applications. Our customers benefit from complete, "all-in-one" motion solutions that are tailored to their unique requirements and easily integrated into their next-generation instruments. [Contact us.](#)



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