

- A reliable range of products are required to build a stable optical assembly.
- ORLIN products exceed industry standards and most are compatible with other manufacturers.
- Extensive range of more than 1,000 products available at competitive prices.
- High quality allows you to build flexible and sturdy assembly units.
- You can even buy online!
www.opto-mechanics.co.uk/

NEW Moving Iron Controllable Actuators

ORLIN Technologies Ltd, in partnership with innovative designer and manufacturer **CEDRAT TECHNOLOGIES**, is proud to launch the **NEW** linear **Moving Iron Controllable Actuator (MICA)** product range to the UK. The MICA range of products has been developed, with associated drive electronics, in response to a need for highly reliable, long-life solutions.

The MICA linear actuators have been specifically developed for extremely long lifetime use, designed for zero maintenance over several years of continuous operation. This level of performance is achieved thanks to fixed coil and magnet designs, without electric flying leads, and an efficient contact-free flexure bearing design. The **IKVA CSA96** power

amplifier has been developed alongside the MICA product range. It features a reactive power



recovery, achieving more than 90% energy efficiency and it can drive both single and multiple MICA configurations.

The moving iron actuator has been designed as the highest performing in the sector compared to traditional magnetic actuators. Its features include:

- Controllable with precision and accuracy
- Can be run with high force
- Consistently demonstrates greater electrical efficiency
- Easy and direct cooling on dedicated interfaces
- Extremely long life with little or no maintenance

These features set the new MICA actuators apart from the rest of the field, and have been designed thanks to **CEDRAT TECHNOLOGIES'** considerable experience in flexure bearing designs. This has been honed over years of working with mechanical products, alongside developing long-lifetime components for the aerospace and defence sectors.

How To Choose The Right Optical Table

If you are a user of opto-mechanical products and components, choosing the right optical table is crucial to developing the ideal workspace for your project.

1. Choose size

Optical tables are offered in a variety of sizes, both imperial and metric, to meet many application needs. The size ranges from 60cmx90cm (2ftx3ft) through to 300cmx240cm (10ftx8ft). Each table series available from **ORLIN Technologies** is offered in two imperial and two metric thicknesses. The thicker tables

are stiffer, yielding a higher resonant frequency, from 2.5cm to 20cm. Customised sizes and joined configurations can also be manufactured to meet your needs.

2. Specify vibration or non-vibration

We offer three series of vibration isolators and one type of non-vibration isolator to meet all requirements.

3. Determine table height

Our standard table height is 85cm, which is industry standard and the most commonly used height.

However, if you require something different then we can manufacture to meet your needs.

4. Customise add-ons

Standard options include laser parts, mounting for accessory shelves, black finish, customised cut-outs, hole patterns and specific heights for our wide-range of isolators.

View our range of opto-mechanical products and buy online

www.opto-mechanics.co.uk

Glass, solar panel and flat panel manufacture

If you produce, or are developing a mechanic to manufacture or test, glass screens and panels then you could increase your productivity and accuracy with a simple change.

Precision work in grinding, cutting and polishing processes for the glass industry can be easily achieved with a SMAC programmable linear actuator from ORLIN Technologies.

Precise force control and the ability to track a surface with constant force

throughout the stroke are important when handling brittle material. SMAC's unique Soft-Land function, the ability to apply as low force as 0.1N or less, and move with a set force while bevelling or cutting is something SMAC can easily do.

Successful applications with SMAC precision actuators have been proven at many top solar panel, flat screen and glass manufacturers around the world.

- Glass cutting and de-burring
- Chamfering and bevelling
- Scoring for solar panels and LCDs

Glass manufacturing and assembly

Take a look at flat-panel manufacture and testing in action on our YouTube Channel: ORLIN Technologies.



We would like to take this opportunity to wish all our customers, suppliers and friends a very Merry Christmas and a happy, healthy and prosperous 2017.



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ORLIN Technologies Ltd has been providing solutions in precision motion control technology for a decade. We are industry specialists based in the UK and deliver high quality complete systems and components in motion control, micro and nano-positioning solutions and related products for science, industry and manufacturing.

ORLIN Technologies has teamed up with the leading international manufacturers in their respective fields to bring you the most innovative and reliable products on the market. Our expertise means that we are able to offer a full technical support service whilst providing the very best value for money to our customers. We have experienced engineers who can visit your site and discuss how ORLIN's products can increase your productivity and profitability.

ORLIN Technologies Ltd is proud to supply products by:



SMART MOTOR DEVICES