



ORLIN TECHNOLOGIES LTD

Industry specialists in mechatronic systems for science, industry and manufacturing.

We have teamed up with the most innovative partners in their respective fields to provide the best precision motion solutions to our customers. However, we are not just a distributor; we are also proud to provide technical support and training, drawing on our years of experience with our products. This brochure gives a very brief introduction to our products. If you need more information, we will be very happy to assist you.

MOTOR CONTROLLERS

For Stepper, Servo & Linear Motors.



Covering our whole range of motors and stages, as well as compatible devices from other suppliers, we have a wide range to suit almost every application.

Programmable controllers that can be used stand-alone or in conjunction with a PLC and simple step-direction drives for use with an external motion controller. We also have models with Fieldbus connectivity, to integrate easily with industrial networks. For more sophisticated applications, we have multiple axis machine controllers with CNC capability and extensive I/O.

SERVICES

- FULL TECHNICAL SUPPORT ON SITE
- PROGRAMMING SUPPORT
- SYSTEM INTEGRATION
- ONE TO ONE & WORKSHOP TRAINING










“ **Decrease**
your downtime
Save
your energy
Reduce
maintenance time & cost
Increase
productivity & profitability ”

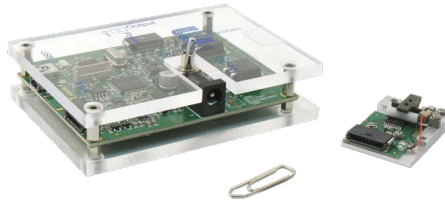
PIEZO ACTUATORS

Compact. Dynamic. Precise.



Developed for highly dynamic applications in the space industry, ORLIN Technologies is the exclusive UK distributor of piezo actuators from CEDRAT TECHNOLOGIES (CTEC).

Ideal for extremely precise, rapid movements up to about 1mm, CTEC piezo actuators can generate very high forces for their size. This makes them perfect for applications such as vibration generation, optical alignment and scientific instrumentation. CTEC also offer mechanisms based on their actuators, including tip-tilt mirror steering and synchrotron shutters.



OPTO-MECHANICS



UK distributor of an excellent range of opto-mechanics products.

www.opto-mechanics.co.uk



STEPPER & SERVO MOTORS

Extensive range for all applications.

Stepper motors provide high torque at a very low cost. We have a wide range, including closed-loop models and integrated units with built-in drivers.

For higher speed applications, a servo motor may be more suitable. We have miniature models from 10mm diameter to larger units up to 500W, all with high-resolution encoders and compatible drives.

MOTORISED LINEAR ACTUATORS

Screw and Belt-Drive.

Electric motorised actuators with either screw or belt-drive, often used to replace pneumatic units in automation applications.

Increased efficiency and control compared to air cylinders and often feature ISO-compatible mechanical interfaces for direct, drop-in replacement. Forces up to 8kN with choice of motor technology and compatible controls.



ENCODERS

Linear and Rotary.

For accurate position feedback in OEM and embedded applications, we are excited to offer a range of miniature linear and rotary encoders from SMAC. These tiny devices offer linear resolution as fine as 50nm or 24,000cpr for rotary models.

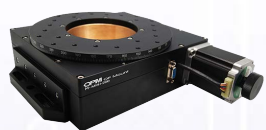
MANUAL STAGES

Affordable precision.



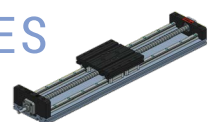
We are the UK distributor for an extensive range of manual stages from OP Mount Instrument Inc, Taiwan.

Affordable, precision engineered rotary stages and linear stages with up to 200mm of travel and crossed-roller bearings. Also available are multiple axis combinations and tilting stages.



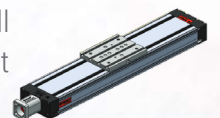
MOTORISED STAGES

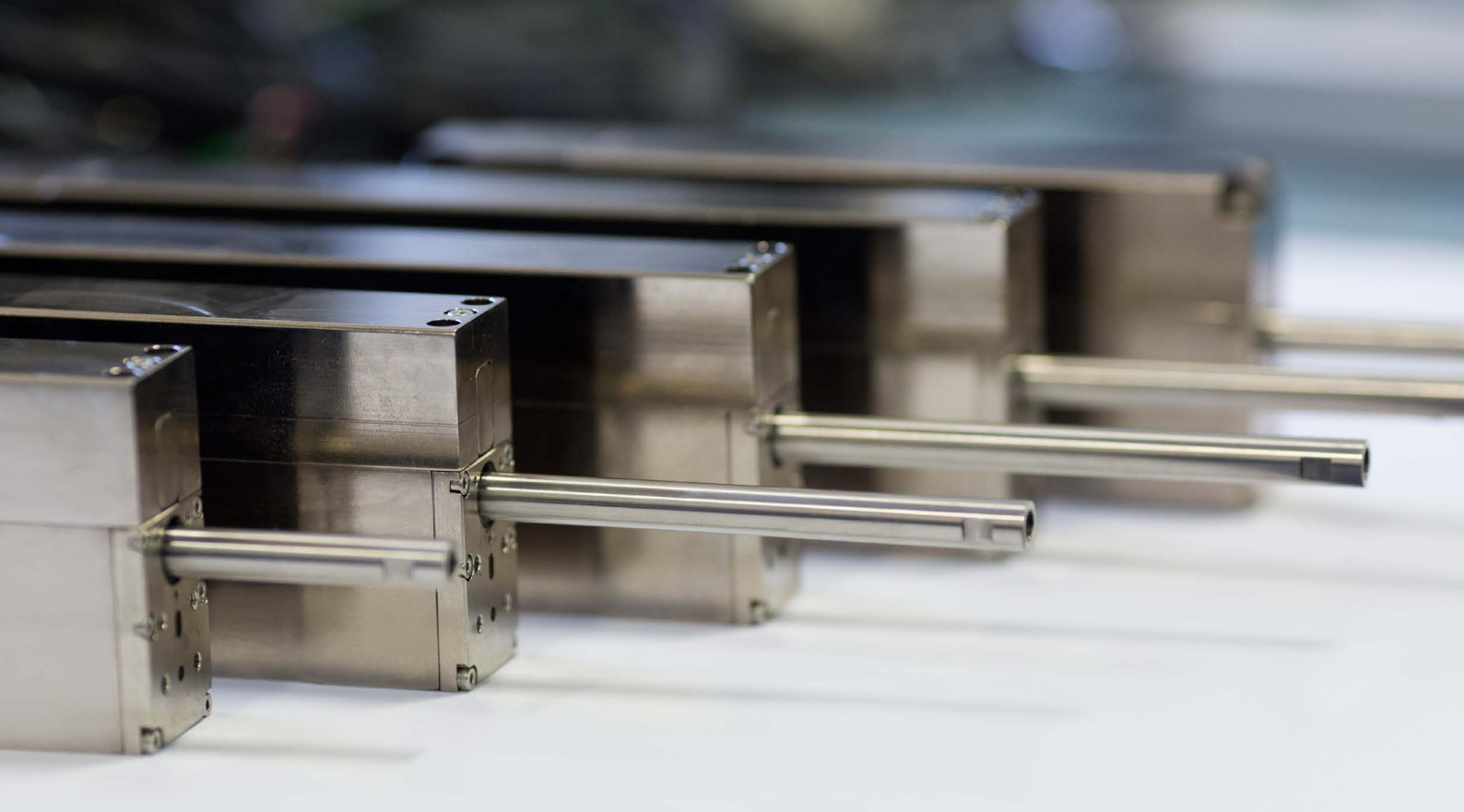
Linear and rotary models.



Our rotary stages and tables up to 200mm diameter, offer continuous 360 degree movement and most feature a central aperture for passing cables or as an optical path.

Linear units are available in a range of load capacities and travels from miniature models to heavy-duty units with up to 1m of travel. All variants can be fitted with the most suitable motor for the application.





MOVING COIL ACTUATORS

Freely and totally programmable position, acceleration and velocity.



Voice coil (or moving coil) actuators and positioning stages are unique in that their force, position, acceleration and velocity are freely and totally programmable.

Utilising SMAC's proprietary linear motor technology, they are capable of exceptionally high speeds and a very high degree of accuracy and repeatability. High quality materials and careful design result in an incredibly long-lived device. Life times of several hundred-million cycles are commonplace.



Strokes range from 5mm to 250mm and peak forces up to 600N are available. All models are provided with closed loop position feedback by non-contact linear encoders with resolution options ranging from 5 microns to 5 nanometres. The direct drive nature of their linear motor completely eliminates backlash and assures excellent repeatability.

The actuators can either be combined with a separate controller unit, or supplied complete with a built-in controller. These units are ideal for replacement of pneumatic cylinders where increased speed and delicate force control are desirable.

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