

## **SCOTLAND ELECTRONICS (INTERNATIONAL) LIMITED**

### **Airborne Motor Drive Products**

SEIL are a company that specialise in motion control systems for Military and Aerospace applications.

SEIL has developed, qualified and delivered motion control products to major blue chip clients in the Defence and Aerospace industries for airborne, UAV and aerospace applications. SEIL personnel have worked at system level in a wide range of motion control systems and use their technical and project management skills and expertise to ensure on-time, on-budget product delivery.

SEIL has developed market relationships with the leading high performance motor manufacturers to provide a low risk sub system solution to meet the market requirements. SEIL has delivered sub system products with the major specialist motor manufacturers on numerous programs with excellent technical and commercial relationships existing between the companies.

The SEIL company strategy is focused on this key area, having been successfully established over the last seven years. The company has personnel and resources, which work as a dedicated focused team to deliver client's motion control requirements with the capital equipment and application tools to develop and deliver the product. SEIL has developed inertial test rigs for system level applications to test the motor in as near to representative system conditions as possible for specific application requirements.

SEIL has internally the full servo system and electronic design and manufacture capabilities to ensure that subcontract activities are limited, which ensures lower risk for delivering the product performance and meeting the delivery schedule requirements.

SEIL's approach is based on utilising proven building blocks to ensure performance is proven and known, while risk is minimised for semi-customised product delivery.

SEIL has developed, manufactured, tested and provided integration support for motion application subsystem product requirements and have managed large scale development program requirements while achieving excellent customer satisfaction levels. SEIL's scope of work varies depending on our customer requirements and has included simulation

of System Performance, Thermal, Reliability, FMECA, Acceptance Test
Procedure and Qualification Plan and Reports to meet Verification
and Validation requirements. Qualification test activities
including Temperature, Vibration, Shock, Humidity, Altitude,

EMC, Flight Worthiness and First Article Inspection have been performed for all major programs. SEIL has fully qualified military airborne product heritage.

SEIL are ISO9001-2000 accredited and manufacture to IPCA-610C and IPC-WHMA-620.





# **Product Picture Portfolio**



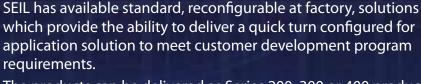
# SEIL Reconfigurable Technical Demonstrator / Bench Test Products



200-3446 270V/5A, 3PH Trap Drive



200-3888 28V/ 25A, 3PH Trap Drive



The products can be delivered as Series 200, 300 or 400 product solutions and are delivered with a unique product identification to provide configured repeatable product.

These products are targeted at customer's requiring a "customised for Application Motor Performance" solution to assist with Technical Demonstrator Program or Bench Test requirements.

The products can be configured for 270V, 100V or 28V range of operation and scaled for 5A, 10A or 30A or intermediate values to provide upto 1kW drive capability.

The drives can be configured, as Transconductance or Speed Controllers, and various options exist for system interfacing control and monitor feedback

The heritage program products have been delivered in a two to five week timeframe depending on application customisation requirements.

The units are delivered with a product specific Operator's Manual, ICD and release tested against a product specific Acceptance Test Procedure.



200-3793 28V/ 10A, 3PH Trap Drive



400-3718 270V/5A, 2PH Sine Drive



**200-3892** 270V/ 5A, 3PH Trap Speed Drive



200-3799 270V/2A, 3PH Trap Drive



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