

# PMW Dynamics

PMW Dynamics provide a one-stop solution for the design, development, and manufacture of a wide variety of advanced servo motors. Based out of our global HQ in Hampshire, UK, our application specialists have extensive experience across multiple deployments, engineering the precise solution for your specific requirements.

PMW Dynamics engineering teams are supported by the very latest in advanced design and simulation tools for Electro-Magnetic design plus comprehensive CAD modelling and computer aided Finite Element Analysis suites.



## Why PMW Dynamics?

PMW Dynamics boast a rich heritage in the design and development of servo motors for a diverse range of applications across many industries.

Our solutions propel high altitude, long endurance UAVs to the very edges of space, drive work tools at the depths of our oceans and deliver your daily groceries from one of the world's most highly automated robotics warehouse and distribution centres.

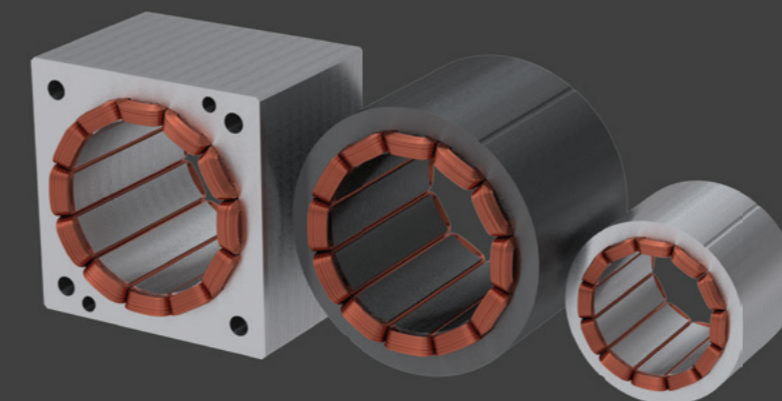


## Motor Configurations

- Brushed | Brushless
- Axial | Radial Flux
- Housed | Frameless | Kit
- Inner | Outer Rotor
- Pancake | Cylindrical
- Geared | Direct Drive

## Feedback Options

- Hall Effects
- Incremental Encoder
- Absolute Encoder
- Resolver
- Tacho
- Multi-Turn ABS Encoder



# Innovation in Motion



# Driving Innovation

PMW Dynamics have been designing and manufacturing motors since 1963. We design, develop and manufacture advanced servo motors in a variety of configurations deployed in a broad range of industrial and commercial applications.

Our solutions include both brushed and brushless topologies supplied either housed or frameless for both geared and direct drive applications. Brushless variants are produced with either inner or external rotor designs in radial or axial flux configurations.

PMW Dynamics' motor portfolio consists of standard off-the-shelf catalogue products (with options to customise) through to unique, application specific, bespoke motor developments

Ask our application specialist for more details.

## Industries



Aerospace



Agriculture



Automotive



Defence



Industrial



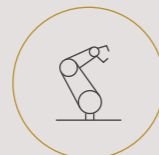
Marine



Medical



Oil & Gas



Robotics



Test & Measurement

# Products

PMW Dynamics have an extensive range of standard products, many of which can be readily customised with changes such as motor windings configurations, shaft changes and fixing arrangements.

Additionally, PMW Dynamics provides a full bespoke motor development service allowing an application specific motor to be designed and developed from first principles.

Bespoke motors allow machine and equipment developers to specify their exact requirements without compromise, in terms of motor performance, electrical supply, motor housing & packaging and operating environment considerations.

We work with the world's leading OEMs and systems integrators to produce a collaboratively designed motor to fit the exact requirements of any application.

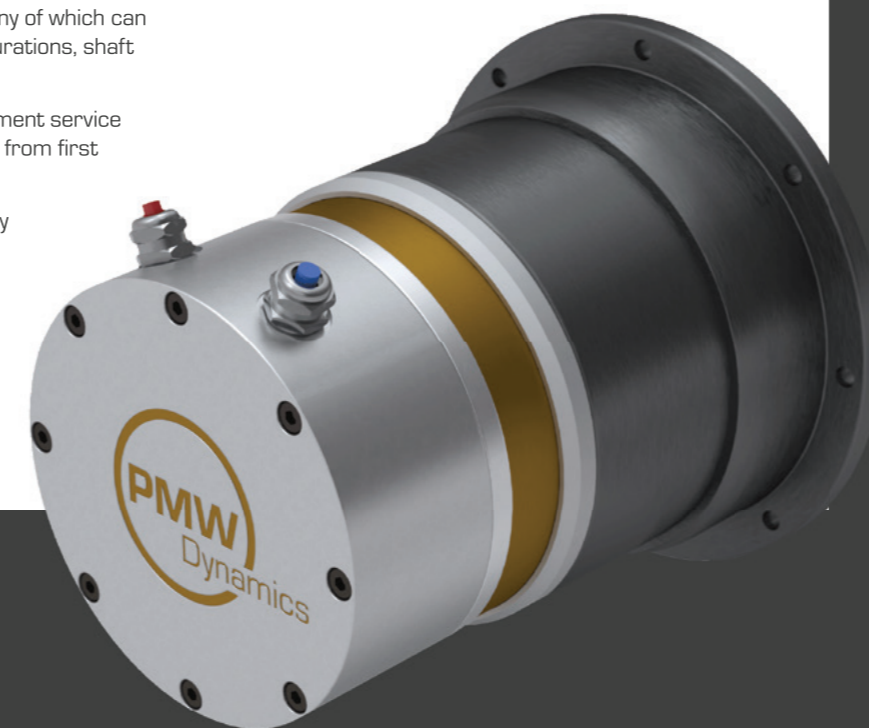
Call our applications team to discuss your requirements

Scan to find out more

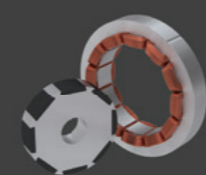


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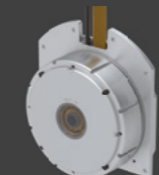
DC Brushed motor



Frameless motor

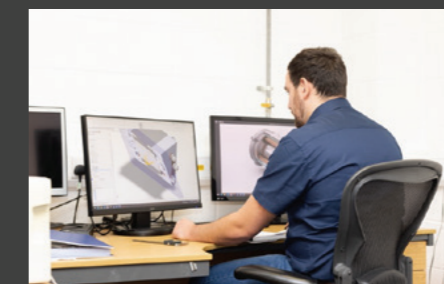


Bespoke motor



In-Wheel motor

# Process



## Design

All of our motors are designed in-house by our dedicated application engineering specialists.

On every project our team work closely with you to capture detailed performance, application and duty cycle requirements to form the design specification which becomes the foundation of the development process incorporating electro-magnetic, thermal and electro-mechanical phases.

Each phase is undertaken with total visibility of the process to fully realise the optimum design solution for your application.

## Find out more

www.pmwdynamics.com

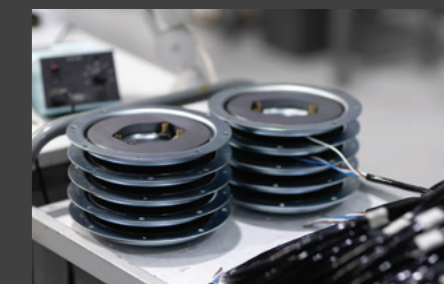


## Development

The PMW Dynamics Development Laboratory features a comprehensive suite of test, measurement and diagnostic equipment to fully verify the motor design and ensure all performance goals modelled in our design tools are fully realised in the actual developed product.

Using two sophisticated dynamometers, fully integrated test software and individual component test tools, our application specialists work with you to maximise the performance of your design and identify any potential avenues for further enhancement.

This crucial phase of motor development forms the backbone of our quality proposition.



## Manufacture

PMW Dynamics design, manufacture, assemble, test and validate motors all within our facility in the UK.

Every motor developed is fully performance tested and every motor manufactured is functionally tested to pre-defined test procedures resulting in both detailed Test Reports and Certificates of Conformance being readily available.

Our full design, development and manufacturing process operates under our comprehensive ISO9001 Quality Management Systems.

