



Welcome to Precision Microdrives

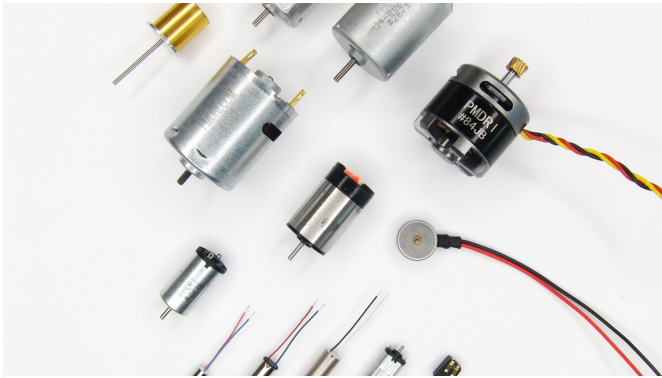
Engineering services for motors and mechanisms

Companies like you trust us to expedite the design and manufacture of miniature motors and mechanisms for their products

For nearly two decades, we have managed our customers' engineering risks on every design. Using our proven technology and design process, we engineer cost-effective, multi-volume motor and mechanism solutions you can rely on. Freeing up your engineering resource to expedite your R&D.

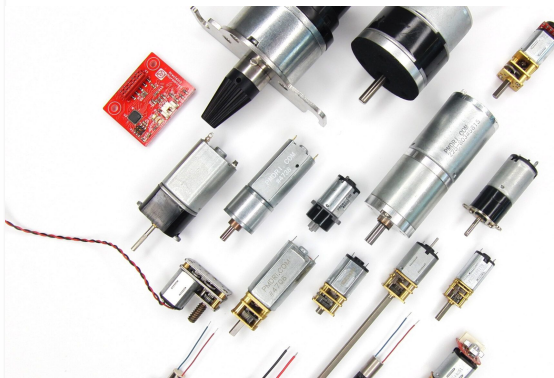
- **Consistent, reliable, quality controls**
Motor products delivered 'On Time and To Spec'.
- **Managing your engineering risk**
Design, validation and compliance processes to rely on.
- **Expedite your product development**
Free up your internal resources for more valuable R&D.

Products engineered for your application



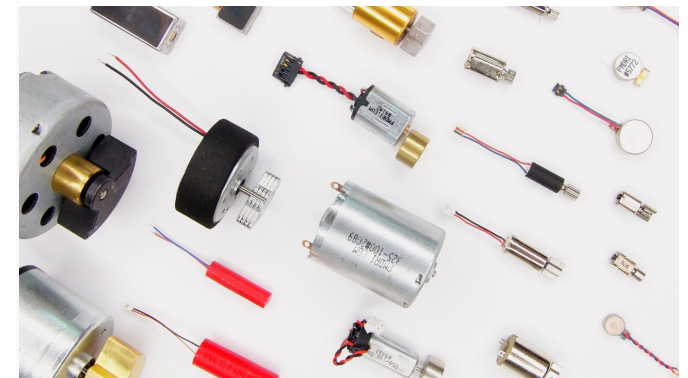
DC motors

Brushed coreless and iron core, brushless in and out-runner, and micro stepper motors. Designed for your exact needs.



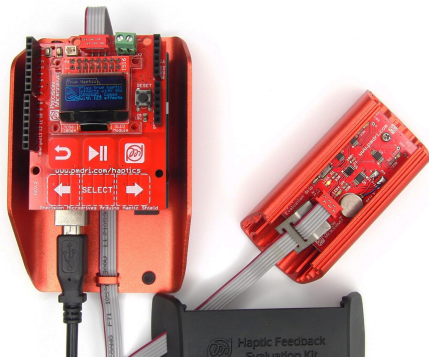
DC gear motors

Our range of DC motors with spur and planetary gearboxes, with metal and engineering plastic gear trains.



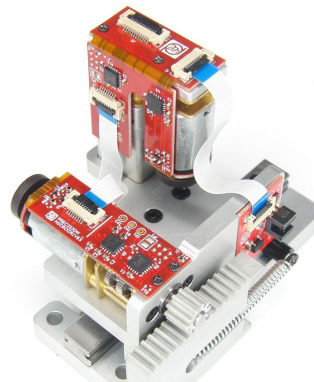
Vibration motors

Our DC motors fitted with eccentric masses and uprated bearings, optimised for vibration alerting and haptics.



Haptic feedback

Complete haptic feedback solutions for touchscreen, handheld, and control input applications.



Mechanisms

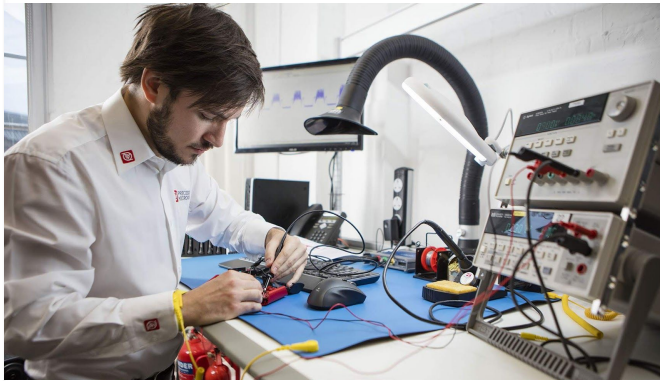
Complex mechanisms developed and manufactured, from a library of proven reference designs.



Motor engineering services

Motor and mechanism design, motor testing and validation services, second sourcing, & quality control consultancy.

Specialised engineering services



Design for application

Understanding your application to value-engineer a fit for purpose solution.



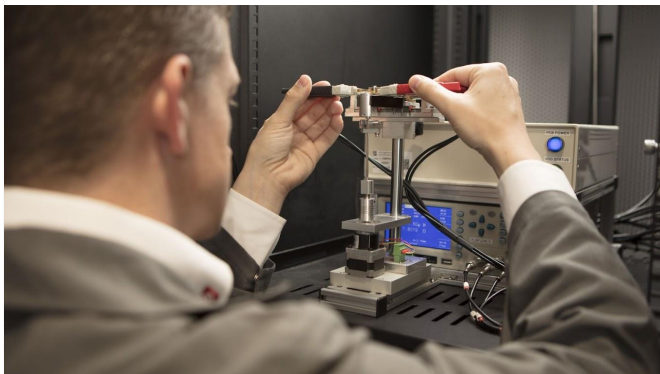
Design for manufacture

Integrating our manufacturing specialists early ensures volume manufacturability.



Precision manufacturing

Scalable manufacturing resources for all volume and complexity levels.



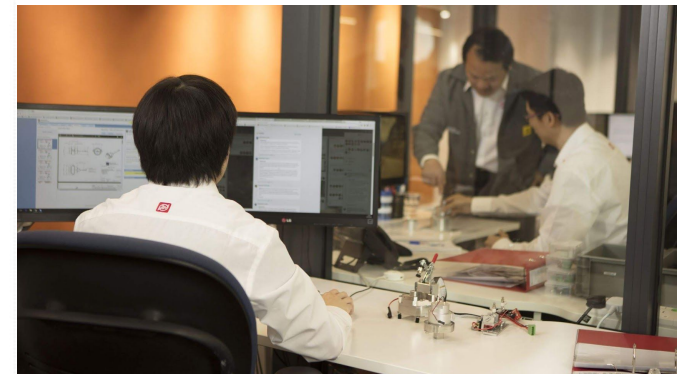
Testing and validation

Bespoke dynamometers and motor testing equipment to validate designs.



Quality management

A robust ISO 9001 BSI quality system designed for motors and mechanisms.



Lifecycle management

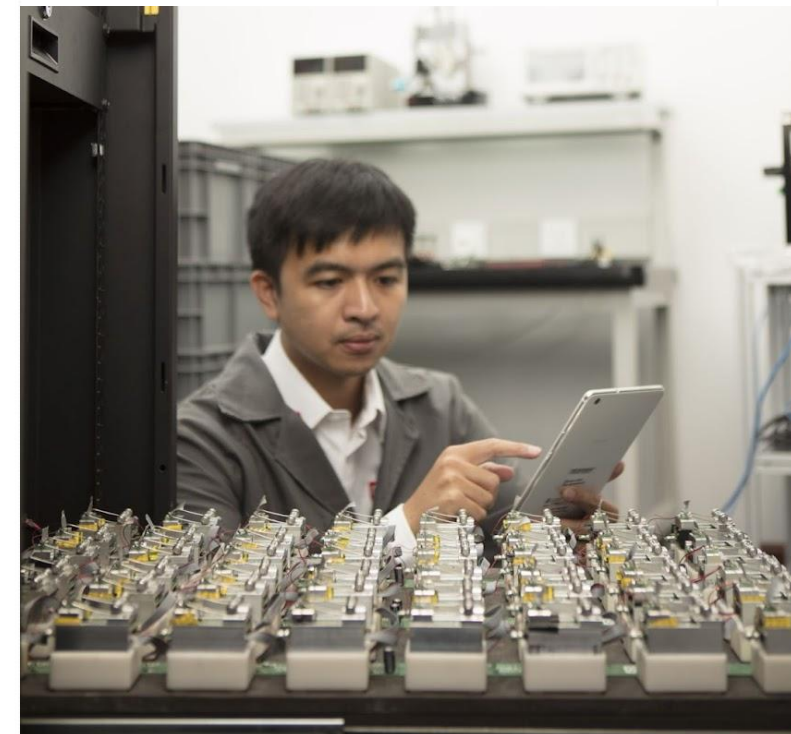
Support from the start to the very end of every project from specialist engineers.

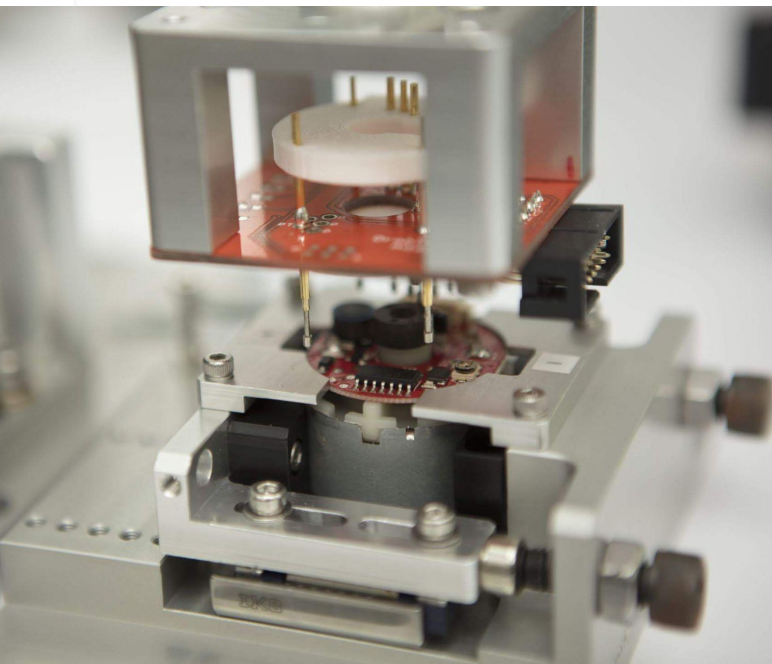
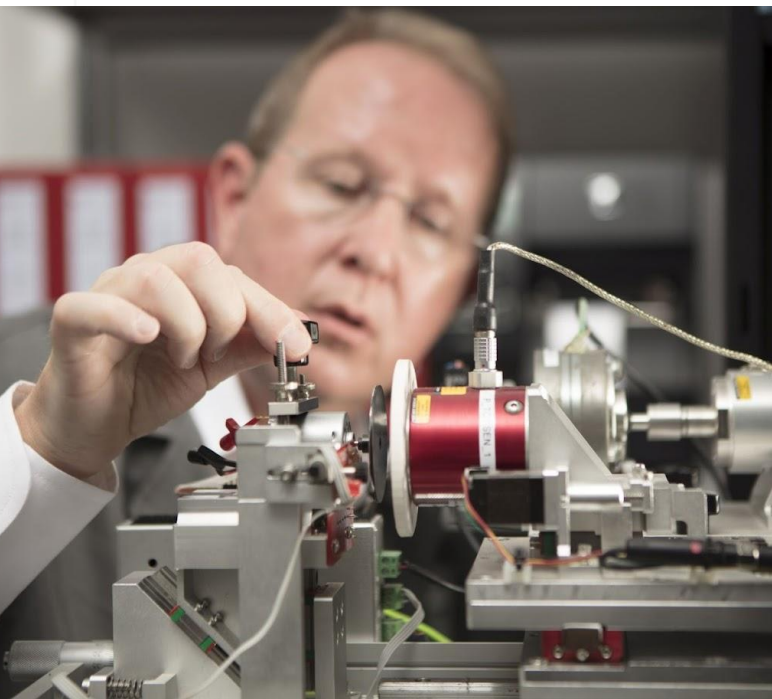
Engineering capabilities

| A value-add engineering partner you can trust

We use wide range of engineering competences to support our customers.

- I. **Motor technology and manufacturing:** 18 years of expertise and experience.
- II. **Mechanism sub assembly design and development:** Electronic, mechanical, manufacturing, and embedded software engineering and design expertise.
- III. **Manufacturing expertise:** Design for manufacturing, packaging, localised work instructions, production line, production planning.
- IV. **Motor testing equipment:** Design and commission, dynamometers, end of line testing, dimensioning and tolerancing, environmental and longevity testing.
- V. **Quality control and planning:** Serialisation of finished goods, 100% inspection, AQL inspection, 8D root cause analysis, SPC analysis, IQC, IPQC, OQC.
- VI. **Compliance and regulation:** RoHS, REACH, conflict minerals, supplier audits, customer audits, ISO 9001, ISO 13485.
- VII. **Technical support:** Direct support from expert engineers, in native English, in your time zone, throughout the development and product lifecycle.
- VIII. **Commercial support:** Demand management and production planning, buffer stocks, confidentiality, credit terms, production ramp-ups & high volume pricing.
- IX. **Supply chain management:** Vast Asian approved supplier vendor list, with own staff on the ground to manage physical audits in local languages and timezones.
- X. **Project and production management:** NPI project management, detailed materials planning for longer lead time components, second sourcing and buffer stocking.





WHY PRECISION MICRODRIVES?



Trusted motors and mechanisms

| Getting the core of your application correct, first time

Motors and mechanisms are likely one of the most expensive lines on your BOM and also the least likely to be noticed by your customers. *Until they fail...*

So, choose an engineering partner that has extensive domain expertise in mitigating the technical risks of these complex products.

Rely on a manufacturing partner with a presence on the ground, robust quality control processes, and a familiar approach to maximising your value-add.

| Priced to deliver the best value

We engineer our products to be **optimised for your application** and delivered at a best **value** cost.

We don't engineer our solutions to the highest possible standards, or the lowest possible costs.

That's not the only way we help your profitability either.

Add a very technically experienced, cost effective addition to your development team. We will free up your internal resource to focus on more valuable R&D work, which will expedite your development cycles.

Working with Precision Microdrives

WHAT TO EXPECT?



Manufacturable design

- We design solutions that are manufacturable and reliable.
- Tested and validated for longevity, performance and environment.



Technical expertise

- Absolute domain experts in motors and mechanisms.
- If we can help by sharing our expertise and experience, we will.



Robust quality controls

- Quality teams in Asia to control upstream component suppliers.
- QC methods developed specifically for motors and sub-components.



Precision manufacturing

- Uniquely (for Asia) co-locating design engineers and final assembly lines in Hong Kong.
- Specialisation in complex electromechanical assemblies.
- Motor / mechanism custom end-of-line testing.



Partnership

- We free up your resources and take away the pain of motor mechanisms for higher value R&D.
- Working as an extension of your business, at every stage.
- Pre and post sales support, in your time zone and language.



Managing your risk

- Unparalleled motor mechanism experience, enables us to predict problems and provide solutions.
- Competent skills and processes to mitigate risks from design through to mass production.
- A culture to get things right!



Key markets and applications

Medical

- Point of care machines
- Lab analysis and diagnostics equipment
- Drug dispensers
- Automated test platforms
- Pumps
- Surgically implanted devices

Consumer

- Touchscreens and smart devices
- Video games and controllers
- Smart homes
- Automotive dashboards
- E-bikes

Instruments

- Monitoring and measuring devices
- Lab sample preparation equipment
- Diagnostics equipment
- Sensors and gauge testing
- Bench-top dispensary equipment
- Electronics test equipment

Security

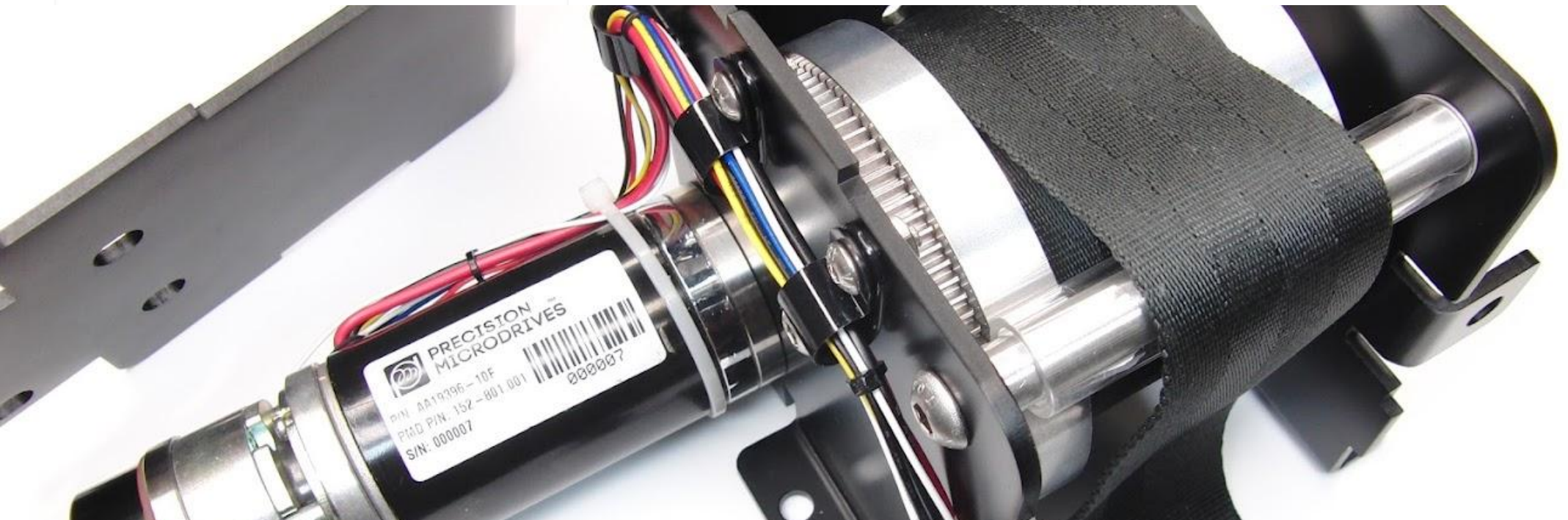
- Sensors and alarms
- Handheld scanners
- Surveillance cameras and monitors
- Locks, security systems and safes
- Passport readers and ID scanners

Industrial

- Emergency services equipment
- Analysis and monitoring devices
- Transport and logistics
- Controllers
- Ticket kiosks and ATM's
- Robotics and artificial limbs

Healthcare

- At home health monitoring
- Rehabilitation accessories
- Fitness trackers and smart watches
- Oral drug dispensaries and vapes
- Stairlift and mobility solutions



PRECISION PARTNERSHIP

| Your motor and mechanism engineering partner

- Our company culture is built around fostering long-term partnerships build trust and promoting mutual success.
- Our international, multi-lingual team are available to routinely speak in your timezone.
- We don't just provide a solution and walk away. You will receive our continued support through the whole life cycle.

| Contact

Speak to our team of specialist engineers about your next project!

support@precisionmicrodrives.com
www.precisionmicrodrives.com
+44 1932 252482