

LiveDrive® for Delta Robots

No Gearbox.
No Downtime.
No Contamination.

Genesis LiveDrive® Direct Drive Motor for Delta Robots

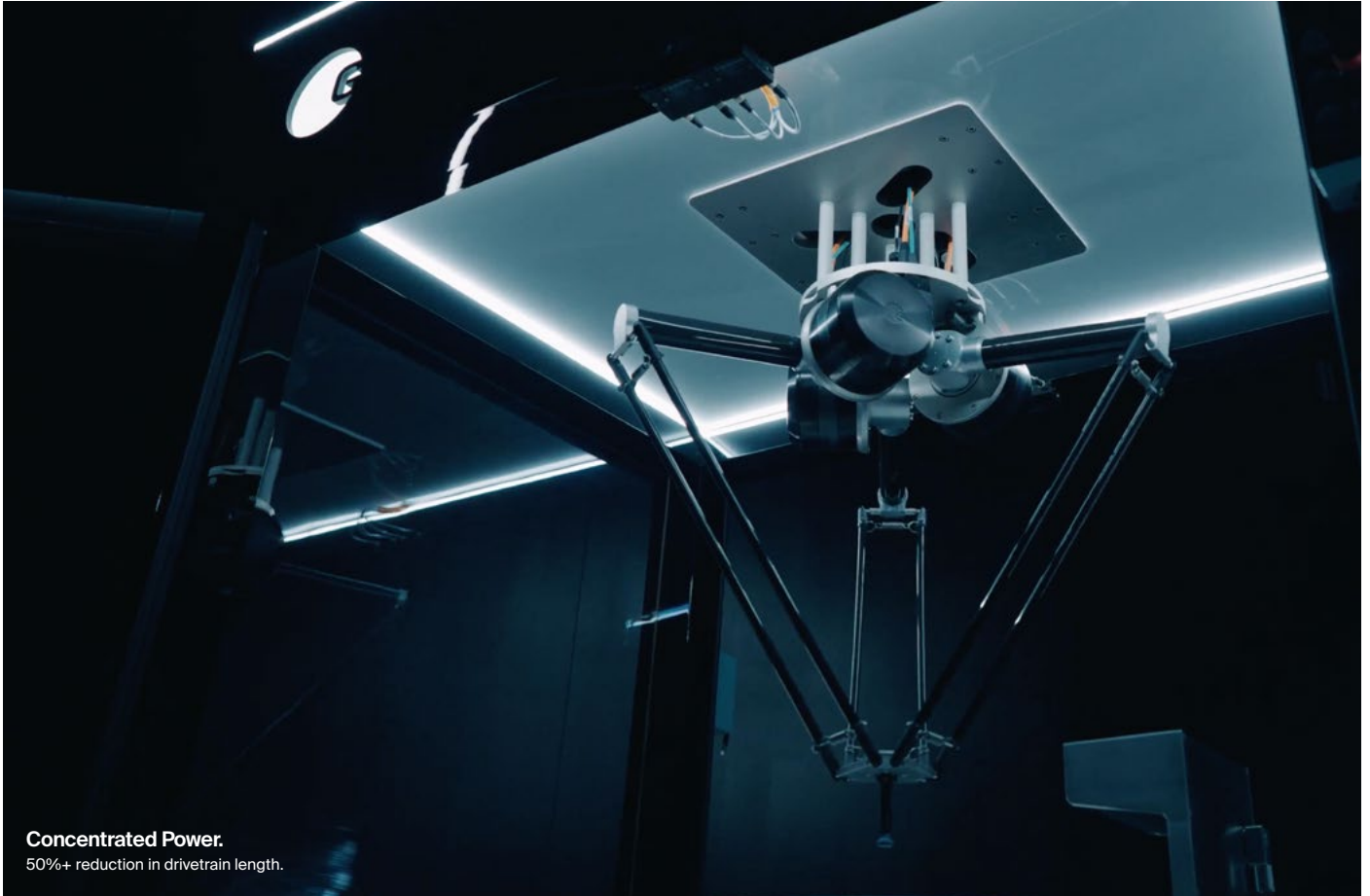


Genesis Robotics &
Motion Technologies

[genesisrobotics.com](https://www.genesisrobotics.com)

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LiveDrive® Redefining Delta.



Concentrated Power.
50%+ reduction in drivetrain length.

Welcome to the next generation of delta robots. LiveDrive LDD is the world's only direct drive motor that overcomes the limitations of existing servo gearheads for delta robots.

Companies such as ABI use LiveDrive® to bring maximum productivity to their delta robots, while reducing the total cost of ownership and eliminating the risk of contamination due to leakage - making it ideal for working above food, pharmaceuticals, electronics and packaging lines.

ABI

KOCH

WIZO

“This is the missing link in our project, this is a game changer.”

Frank Souyris, General Manager, Demarex SA

-  **No Gearbox**
-  **No Oil**
-  **No Contamination**
-  **Compact Footprint**

With no need for gears, belts, or lubrication, LiveDrive direct drive motors dramatically simplify your robot architecture, reducing the need for scheduled or unscheduled maintenance and improving overall MTBF.

Zero Contamination Risk. Full compliance.

Protect hygiene-first products from the risk of oil leaks and contamination without the need for additional sealing or casing. Follow EHEDG, USDA/FDA, and CFIA guidelines more easily.

IP67 Ingress Protection

LiveDrive is 100% protected from ingress of moisture, and dust, enabling fast and easy light washdown cleaning of your delta robots.

Unmatched Precision & Speed

Improve accuracy, rigidity, repeatability, acceleration and stopping time by fully eliminating backlash and lowering the inertia inherent in any geared drivetrain.

Improve Robot Density

With a compact footprint, LiveDrive® allows you to implement more flexible systems with less floor space to drive more value from your machinery.

Faster Delta Assembly

Commission your deltas more quickly by managing fewer components in the supply chain, and reduced tuning efforts to resolve backlash compensation.

Reduce Build Costs

With fewer components needed to build or to store as spares, LiveDrive® requires less paid labor for assembly while also eliminating the need for leak-proof enclosures.

Open New Markets

Use delta robots empowered by LiveDrive® as a feasible replacement to other more expensive, less flexible robotic solutions, such as SCARA.



**Compact
Traditional Servo Gearhead
Drivetrain vs LiveDrive
Direct Drive Motor**

 **High Precision**

 **More Uptime**

 **Higher Throughput**

 **Lower TCO**

Behind the LiveDrive® LDD 1800 Series

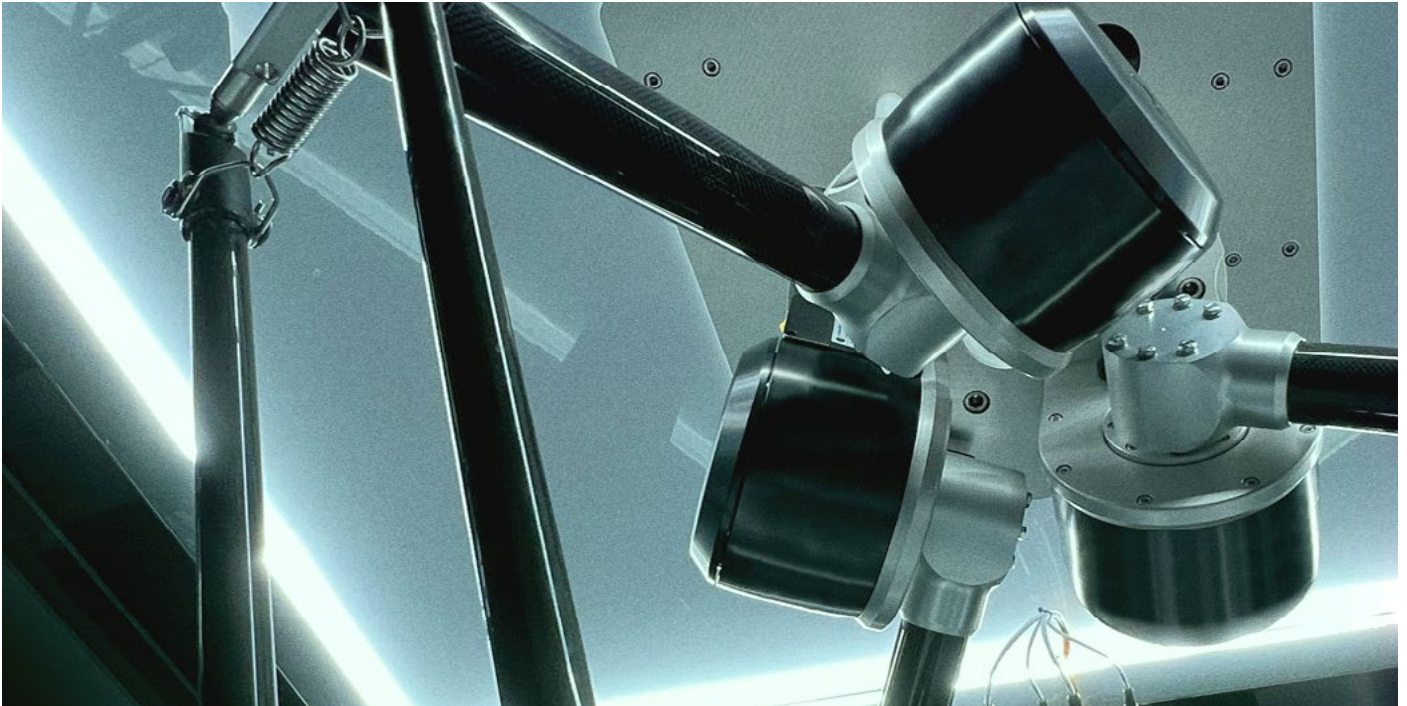


Product Features

- 210 Nm peak torque capability
- IP67 ingress protection for washdown environments
- Integrated holding brake
- 230 and 480 VAC compatibility
- BiSS-C®, EnDat 2.2, HIPERFACE® and HIPERFACE DSL® feedback options
- One cable technology (with HIPERFACE DSL®)
- 90 deg and in-line field cables provided
- UL Registered
- Verified compatibility with standard industrial servo drives
- Custom windings & features available



Behind the LiveDrive LDD 1800 Series



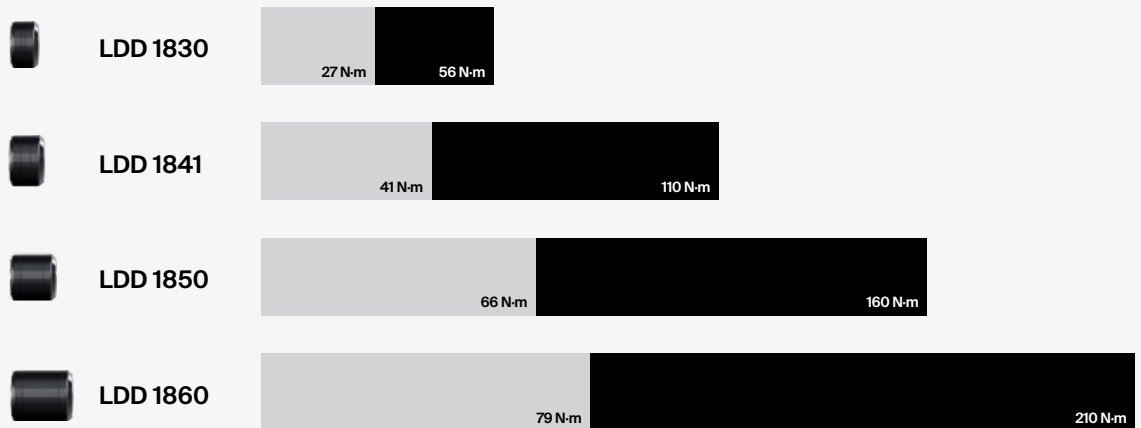
LiveDrive® is the world's first direct drive motor designed for delta robots.

By removing the gearbox, LiveDrive direct drive motors unlock capabilities beyond the reach of conventional motors. With a simplified drivetrain, the robot itself becomes simpler, faster to assemble, and easier to maintain. This results in fewer service intervals and delivers more uptime and lower costs.

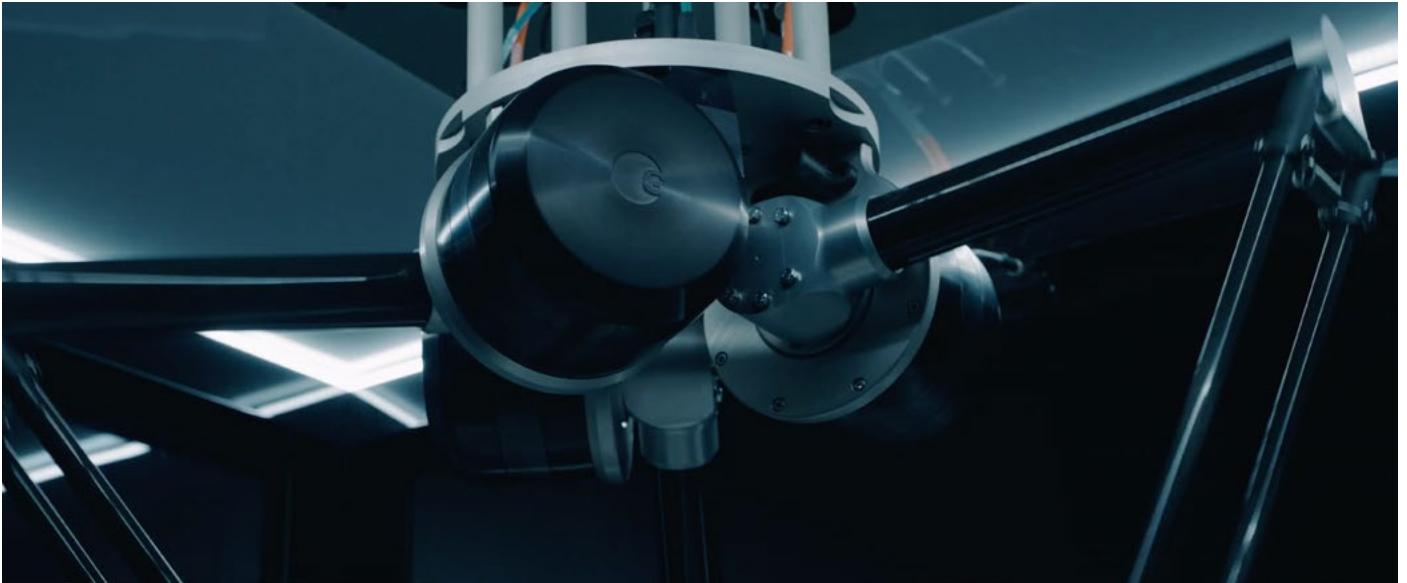
Performance Range

Rated Torque Peak Torque

Available Now



Behind the LiveDrive LDD 1800 Series

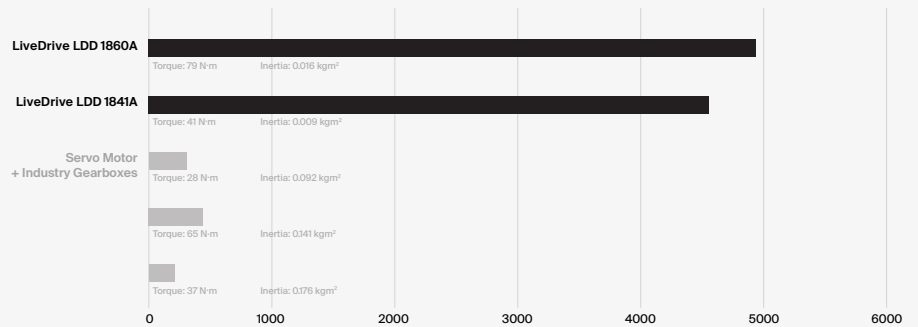


Build delta robots with the new standard of simplicity, cleanliness and higher throughput.

Traditional drivetrains can only take you so far. LiveDrive® removes conventional constraints and enables you to push your delta robot innovation ahead of the curve.

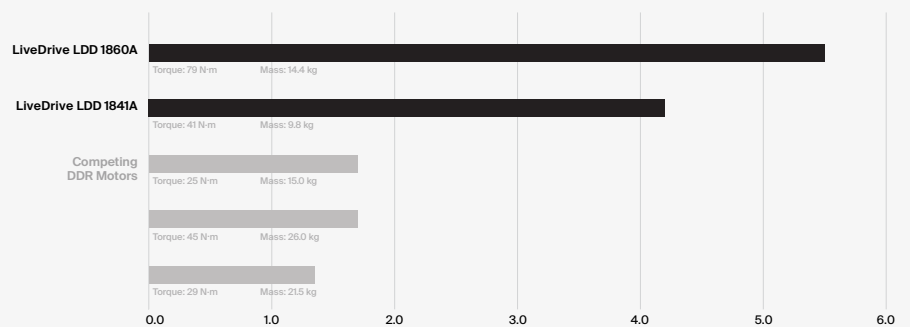
Lower Inertia Higher Acceleration

Rated Torque
to Inertia (N-m/kgm²)



Higher Torque Density More Compact

Rated Torque
to Mass (N-m/kgm)



Applications



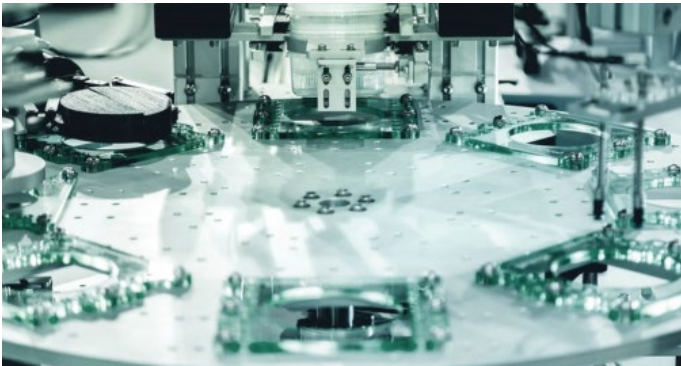
Delta Robots

The world's first and only direct drive motor designed for delta robots. LiveDrive® LDD is redefining the standard for throughput, cleanliness, simplicity, and productivity.



Precision Indexing

Simplify, increase precision, and reduce the footprint of indexing drivetrains by eliminating common inline or right-angle gearboxes. Suitable for high precision and fast cycle times.



Machine Automation

Eliminate gear backlash, lubrication and maintenance for in-process positioning equipment. Clean, precise, maintenance-free positioning.



Customized LiveDrive®

Have another application for LiveDrive®? Tell us your requirements and our engineers can work with you to configure LiveDrive® for your needs.

Industries



Food



Pharmaceutical



Electronics



Consumer Packaged Goods



Custom Solutions

Motion Redefined.

A KOCH ENGINEERED SOLUTIONS COMPANY



Engineered for you.

Genesis Robotics & Motion Technologies specializes in disruptive direct drive motors and novel geared actuators.

Located in Vancouver, Canada, and with offices expanding across Europe, our mission is to deliver value to our customers by solving some of the most challenging robotics and automation problems in the world.

The Genesis team brings these core capabilities to each project:

- LiveDrive® flexible manufacturing and in-house gear manufacturing.
- Advanced modeling and simulation tools to demonstrate the LiveDrive® advantage in your applications.
- Strong commitment to building mutually successful relationships.
- Taking concepts from design to prototype in as little as 6 weeks
- Customized configurations and solutions for clients available to spec.

Contact

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