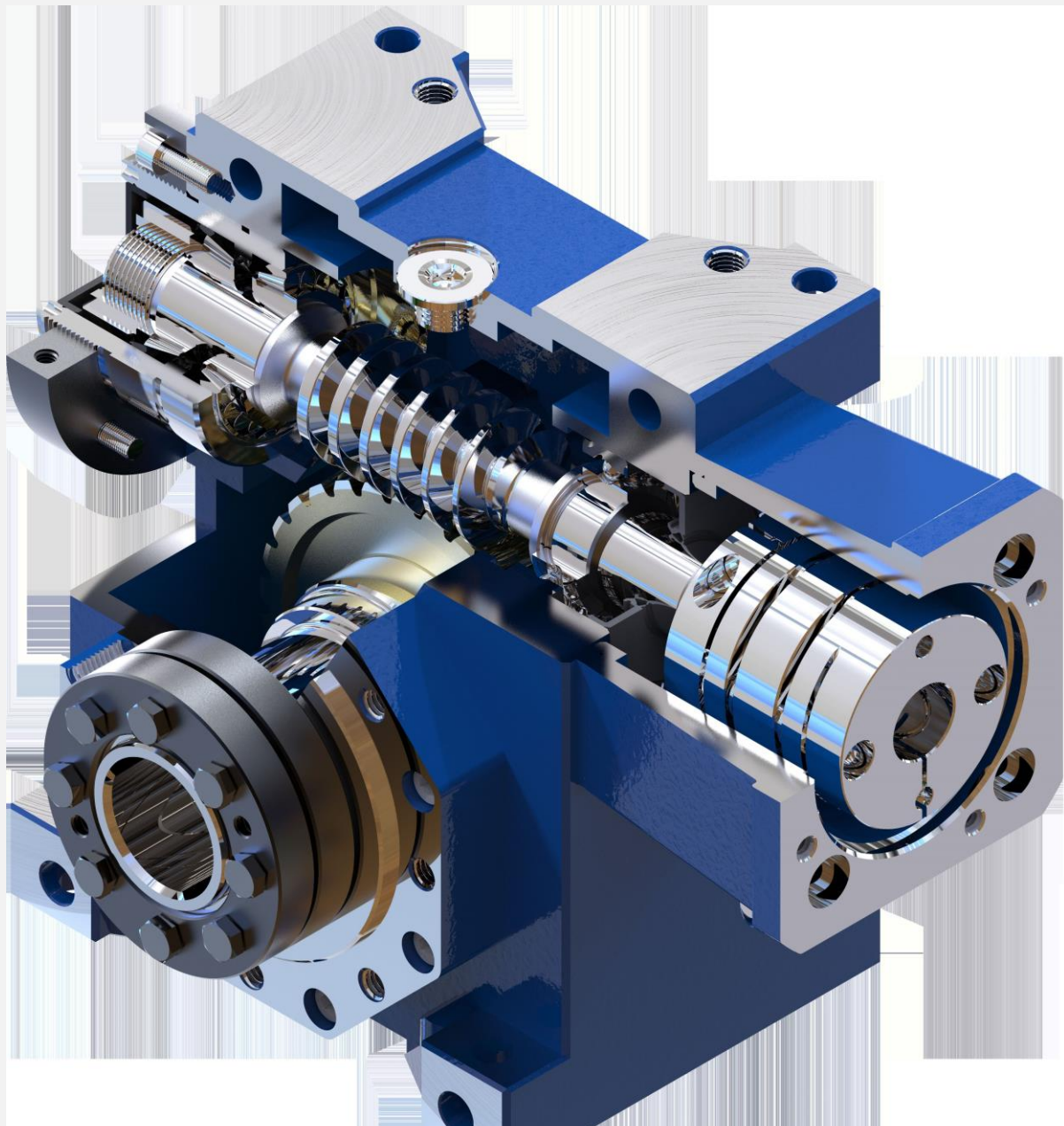


# JDLB SERVO WORM GEARBOX



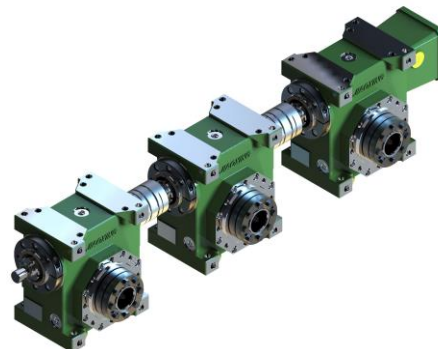
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# DESIGN FEATURES

## SERVO WORM RANGE.

- HIGH PRECISION RIGHT ANGLE SERVO WORM GEARBOX
- SIZES 045,050,055,063,075,090
- TWO BACKLASH VARIANTS – 1 ARC MIN OR 2-4 ARC MIN
- RATIO'S – 15,20,25,30,40,50,60,80,100
- TORQUE RANGE 44NM-460NM
- SOLID SHAFT, HOLLOW SHAFT & SHRINK DISK OUTPUT OPTIONS.
- INPUT FLANGE VARIANTS TO MATCH REQUIRED SERVO MOTOR.
- ALUMINIUM ALLOY HOUSING
- LOW NOISE AND LONG SERVICE LIFE.



## APPLICATIONS AND ADVANTAGES

One of the primary advantages of servo worm gearboxes lies in their exceptional efficiency. These gearboxes efficiently transfer power and motion with minimal energy loss, resulting in improved overall system efficiency. This efficiency is crucial for industrial applications where energy conservation is a priority, leading to reduced operating costs and a smaller environmental footprint.

Another key benefit is the compact design of servo worm gearboxes, which enables them to be easily integrated into tight spaces within industrial machinery. This space-saving feature is particularly advantageous in modern manufacturing setups where floor space is often at a premium. The compact design also contributes to a reduction in the overall weight of the system, enhancing portability and facilitating more agile and responsive motion control.

Servo worm gearboxes are known for their high torque output, making them ideal for applications requiring robust and precise torque control. This characteristic is especially valuable in scenarios where heavy loads or sudden changes in load are common. The ability to handle varying loads with precision ensures a smooth and stable operation, minimizing wear and tear on components and extending the lifespan of the machinery.

Furthermore, servo worm gearboxes offer excellent shock-load resistance, providing a level of durability and reliability that is crucial in demanding industrial environments. Their design incorporates features that absorb and distribute shocks, protecting the gearbox and other connected components from potential damage. This resilience contributes to increased system uptime and a reduction in maintenance costs.

In packaging lines, Servo worm gearboxes can be used to drive conveyor belts efficiently, controlling the speed and direction of movement precisely.

In Filling and Sealing Machines: Servo worm gearboxes help in controlling the movement of filling mechanisms and sealing components accurately.

In Labelling Machines Servo worm gearboxes are used to drive the labelling applicators, ensuring precise positioning and alignment of labels on the products.

In Cartoning Machines , Servo worm gearboxes play a crucial role in controlling the movements of the carton handling mechanisms, including folding, filling, and sealing operations.

In Wrapping Machines Servo worm gearboxes drive the wrapping rollers and other components, ensuring uniform wrapping and tight seals.

In Capping Machines Servo worm gearboxes control the torque and speed of the capping heads, ensuring proper tightening of caps without damaging the containers.

In Sorting and Packaging Robots Servo worm gearboxes are also employed in robotic arms and grippers used for sorting products and placing them into packaging containers. These gearboxes enable precise and smooth movement of the robotic components.