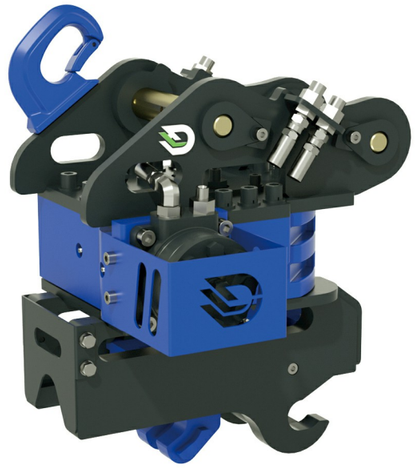
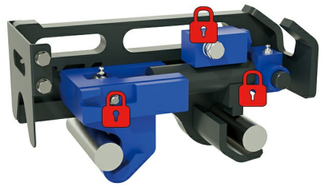
RBK01a

Rotator Coupler

2.5-4 ton excavators

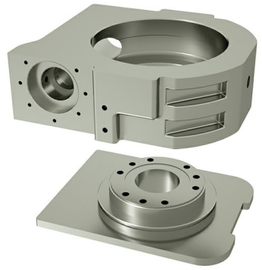
The LINGDONG rotating quick coupler adds a 360° rotation function based on a push-typ quick coupler.
With a worm gear structure, it is designed for high-torque and heavy-duty working conditions, enabling standard buckets to operate at multiple angles.
It also allows conventional hydraulic attachments such as grapples, breakers, and vibratory compactors to achieve rotational capability.





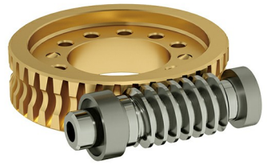
Three-Lock

Three-lock anti-drop design with multiple locking mechanisms ensures safe operation on the job site.



High-strength structure

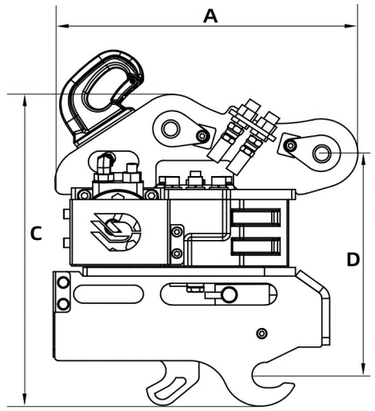
The worm gear housing and rotating structure are machined from a single piece of high strength alloy, making them better suited for high intensity working.

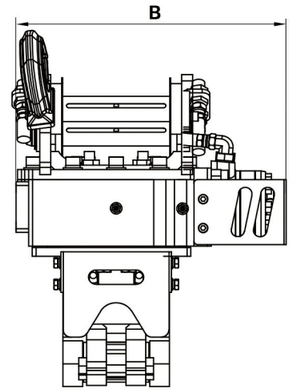


Worm Gear

Worm gear structure features mechanical self-locking performance, providing greater safety and stability to the rotating mechanism.

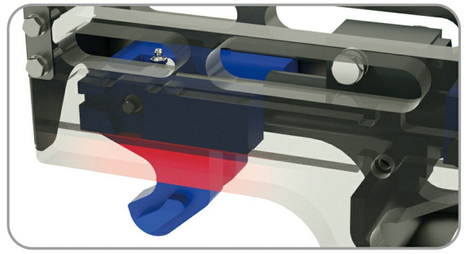
型号	RBK01a
适配挖机	2.5-4T
上轴距	195mm
轴径	40/35/30mm
行程	180-205mm
开档	100-145mm
总长	393mm
总宽	360mm
总高	432mm
上下轴间距	307mm
重量	93KG





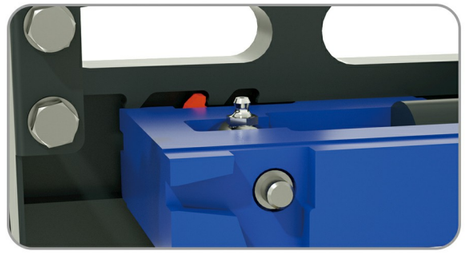
Shell Load-Bearing

The three-lock Push-Type quick coupler solves the problem in traditional quick coupler designs, where the entire weight of the attachment is concentrated on the front hook shaft, eventually causing wear. By increasing the contact surface, the weight is effectively distributed and jointly borne by the entire quick coupler shell, significantly reducing wear.



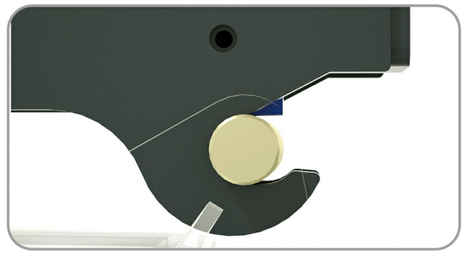
Front Hook Ratchet Lock

The front hook is equipped with a ratchet lock. The locking pawl (tongue) mechanically prevents the front hook from retracting, instead of relying on the hydraulic cylinder to maintain pressure for locking.



Rear Hook Lock

The rear hook adopts a variable diameter anti-drop lock. By changing the diameter of the rear hook, it prevents the bucket pin from slipping out, providing reliable anti drop protection.



Hydraulic Cylinder Unloaded

With the dual safety locks (front and rear) in place, the hydraulic cylinder balance valve serves only as the final line of defense. It does not need to bear continuous loads, which reduces the risk of damage to the hydraulic system and greatly improves long-term operational reliability.

