



## ELECTROMAGNETIC CLUTCH

## PRODUCT CATALOGUE



## **PROINO ENGINEERING**

With our experienced and competent engineering team, we are able to design and manufacture reliable and functional products for many sectors, especially for the defence industry. Our agile and efficient decision-making allows us to quickly design and manufacture products tailored specifically to your needs.



## ELECTROMAGNETIC CLUTCH

Electromagnetic clutches are systems that clutch when there is no current supply in the system thanks to the pads in the body. With the pads inside, the desired torques can be achieved.

In the event that current is supplied to the system, the magnetic field created by the coil in the body overcomes the springs installed in the body and pulls the pressure flange to itself. The lining, which is released in this gap, releases the spindle to which it is connected with the gear and can move freely.





## APPLICATION AREAS



- Defence Industry
- In military vehicles
- In tank actuator systems
- In heavy armoured vehicles

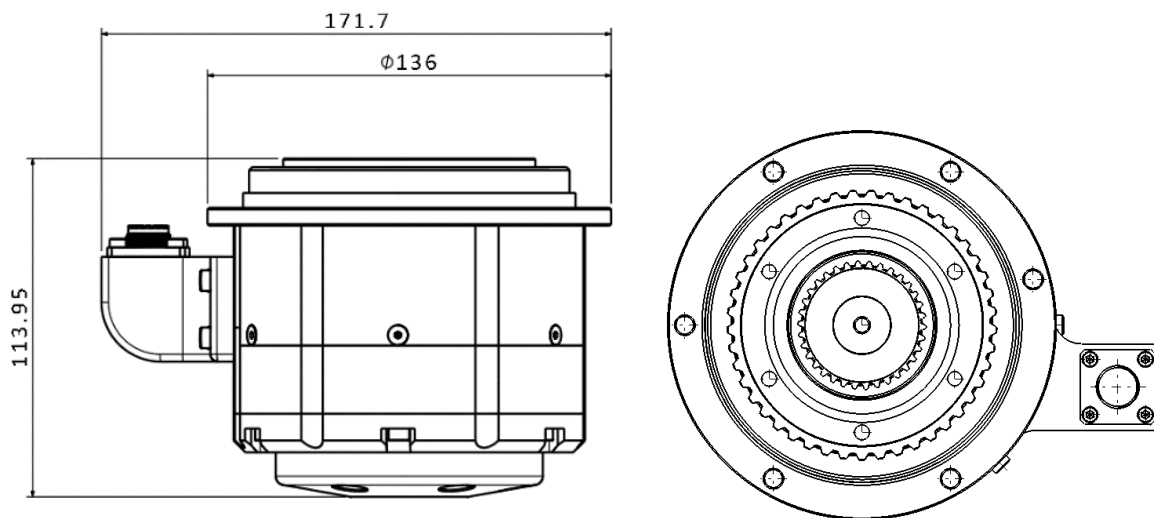


## Features :

- 18VDC-32VDC Operating voltage
- $120\pm 10\text{Nm}$  holding torque\*
- The holding torque in the empty state is less than  $0.1\text{Nm}$ .
- The weight of the system is  $\sim 6\text{kg}$ .
- Operating temperature is  $-32^\circ\text{C} / +52^\circ\text{C}$ .
- Compliance with MIL-STD-810G military standard\*\*

## Advantages :

- It has a long service life thanks to its special lining resin.
- Easy maintenance and repair thanks to its compact structure.
- Thanks to its modern design, it provides users with high usage area.



\*Since they are frictional systems, holding torque may decrease due to abrasion over time.

\*\* It can operate at 95% relative humidity in accordance with MIL-STD-810G military standard.

- It can operate at  $-32^\circ\text{C}/+52^\circ\text{C}$  ambient temperature in accordance with MIL-STD-810G military standard.
- It can be stored at  $-45^\circ\text{C}/+55^\circ\text{C}$  ambient temperature in accordance with MIL-STD-810G military standard.
- It provides shock resistance according to MIL-STD-810G military standard.
- It can operate in  $15\text{cm}/\text{hour}$  rain under  $18\text{m}/\text{sec}$  wind in accordance with MIL-STD-810G military standard..