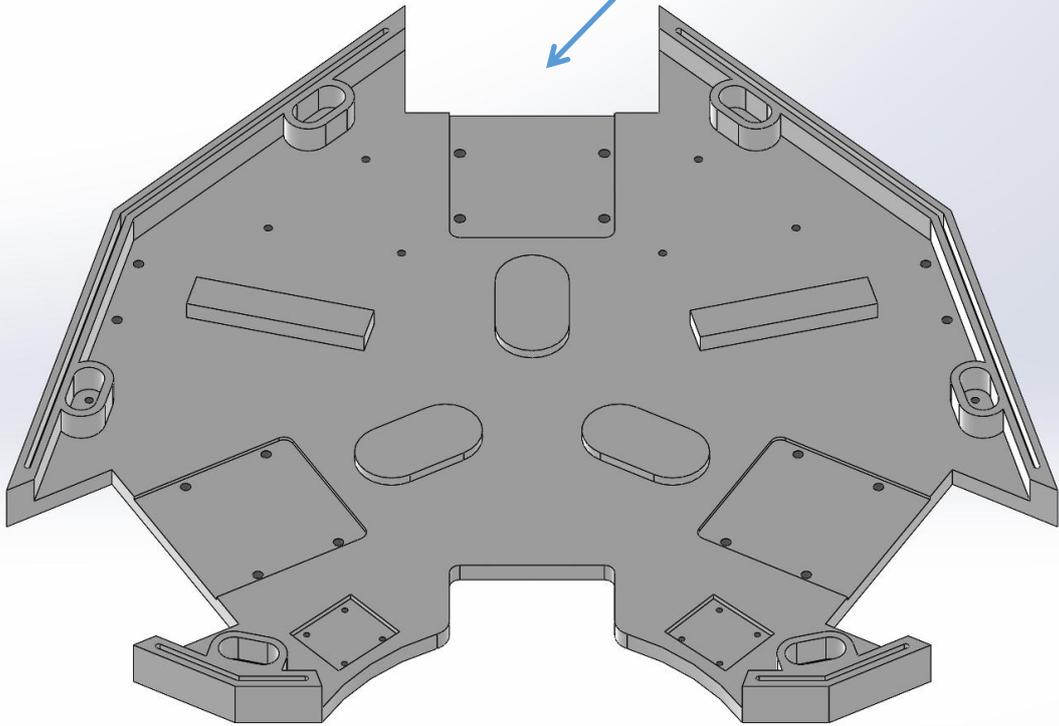




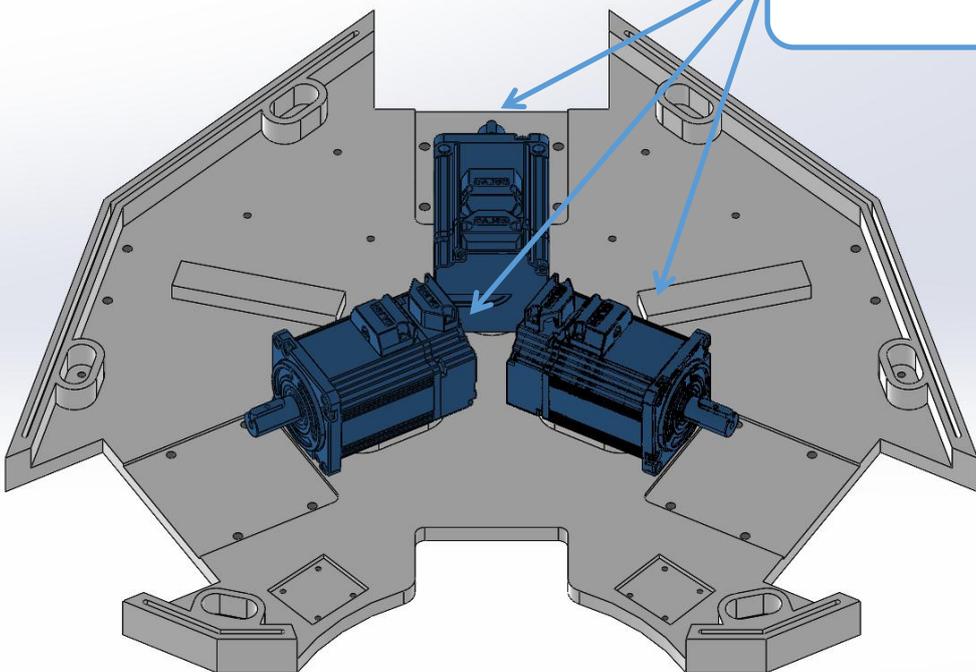
# BigHeroX

Mechanical structure  
description

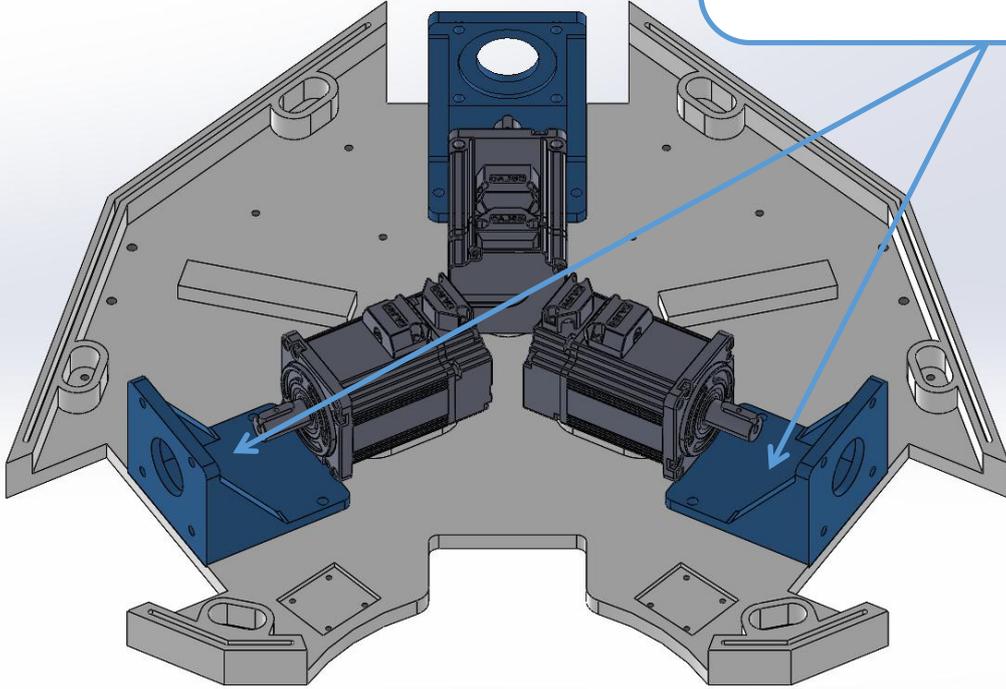
**10mm thick aluminum  
chassis**



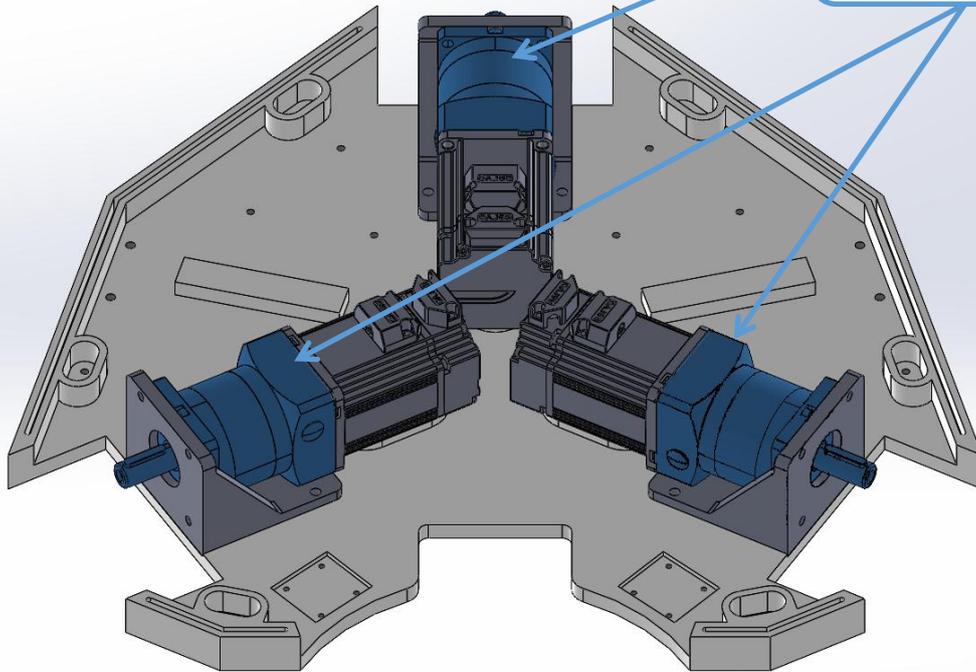
**Electric motor**



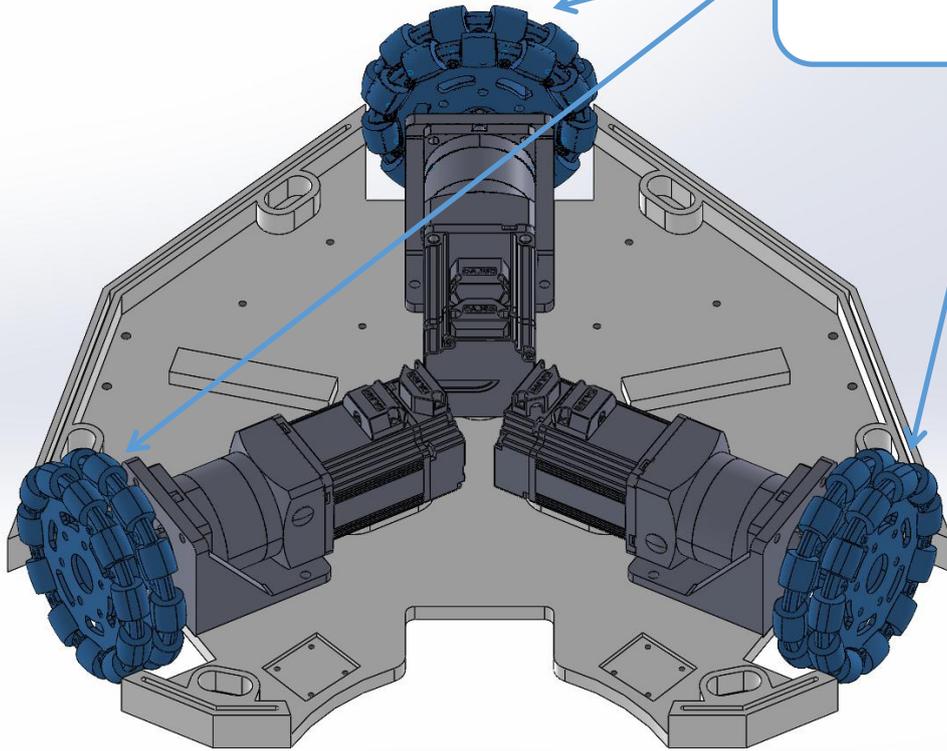
**The connection structure  
between the  
Reducer and the chassis**



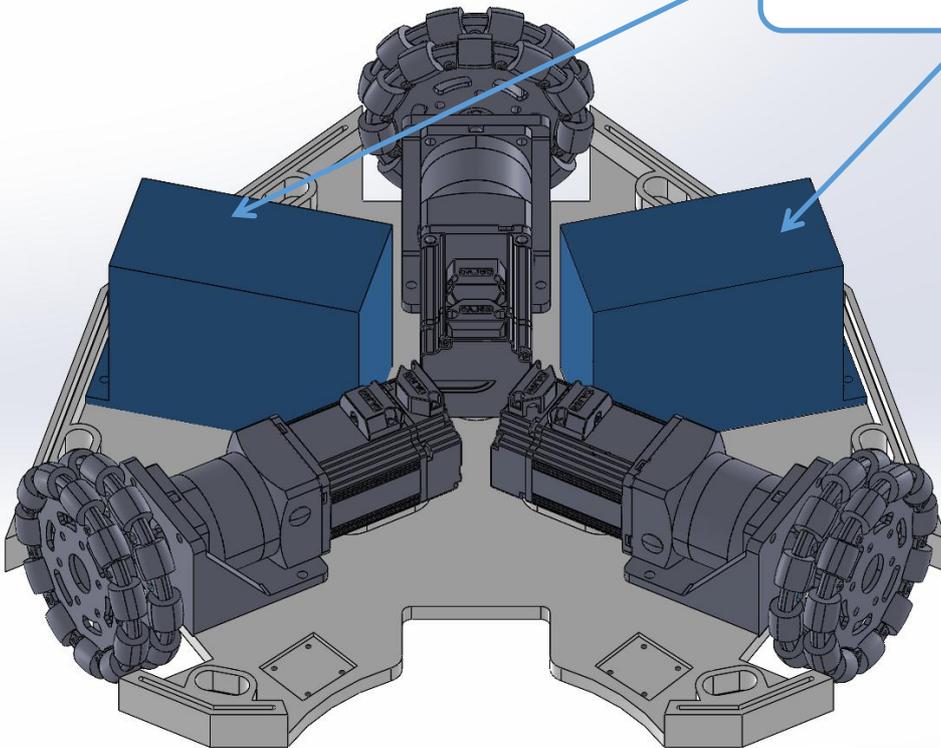
**Reducer**



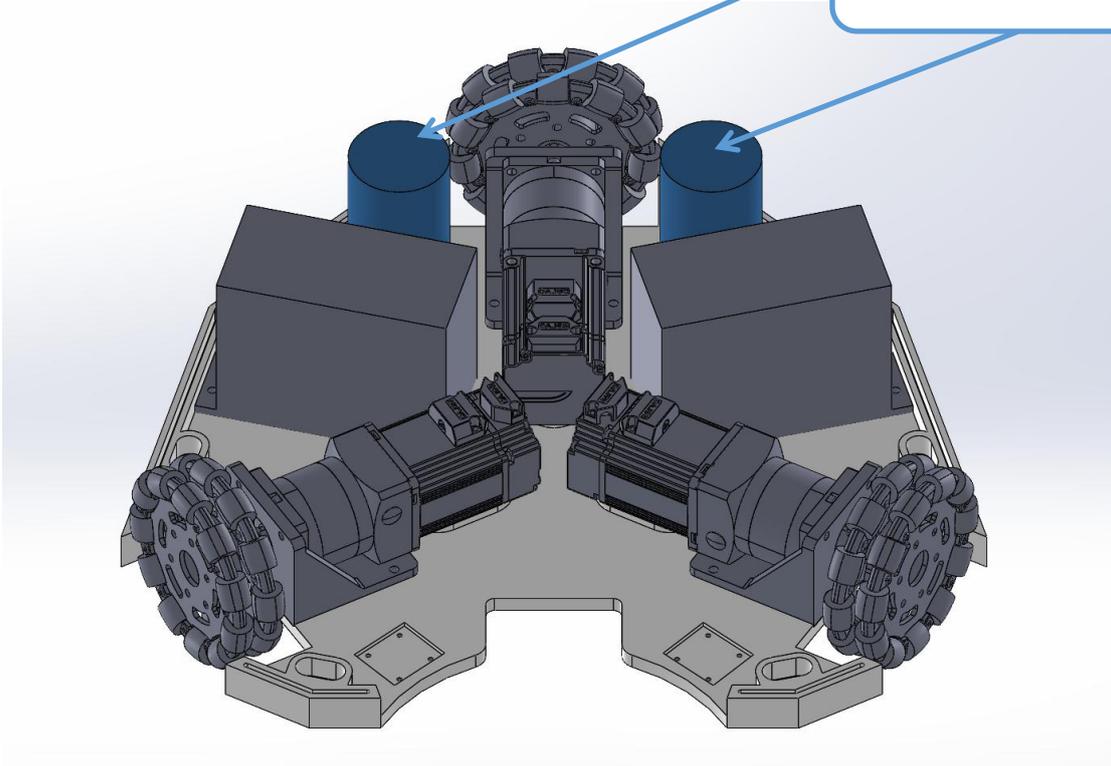
**127mm  
omnidirectional wheel**



**60V power battery**

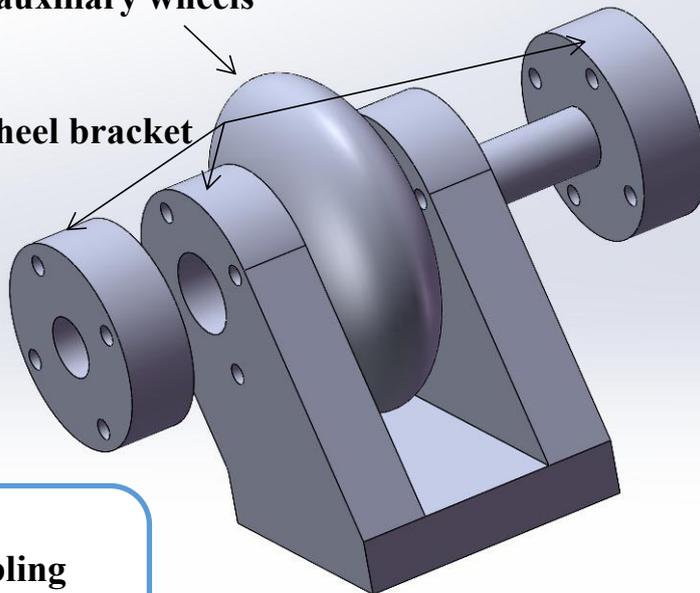


**ultracapacitor**

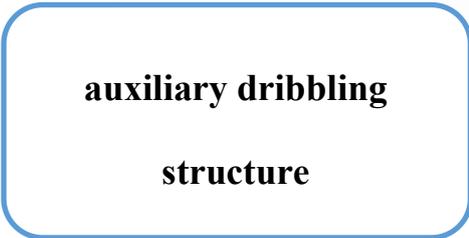


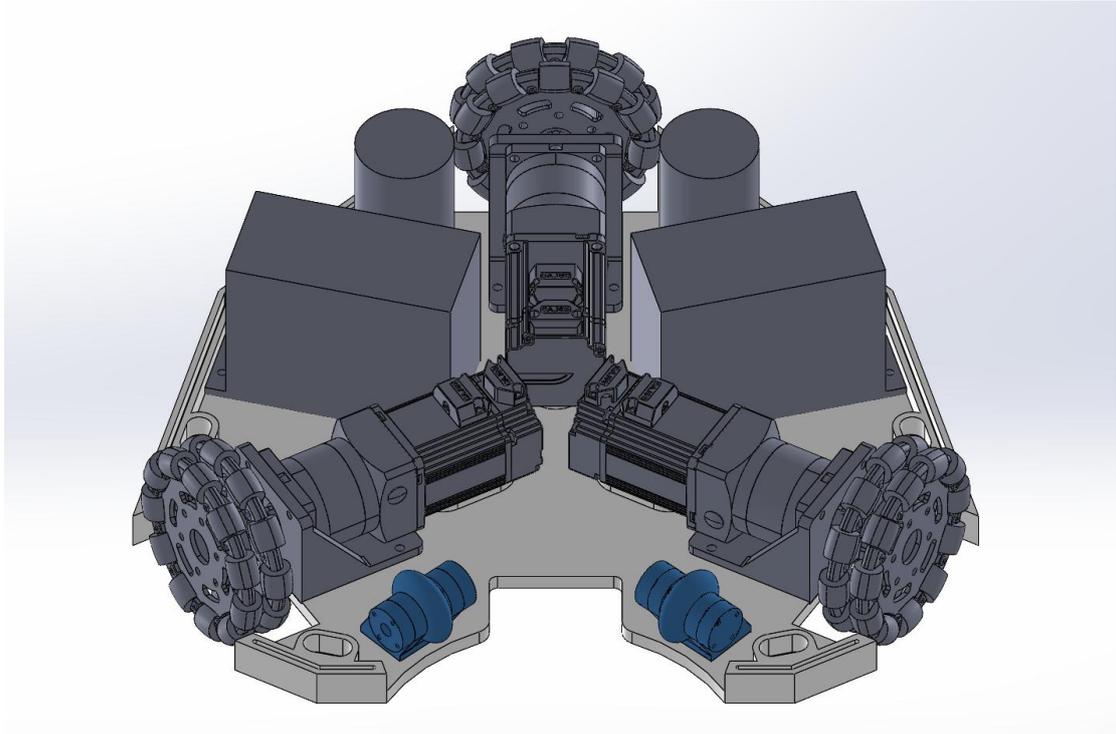
**auxiliary wheels**

**auxiliary wheel bracket**

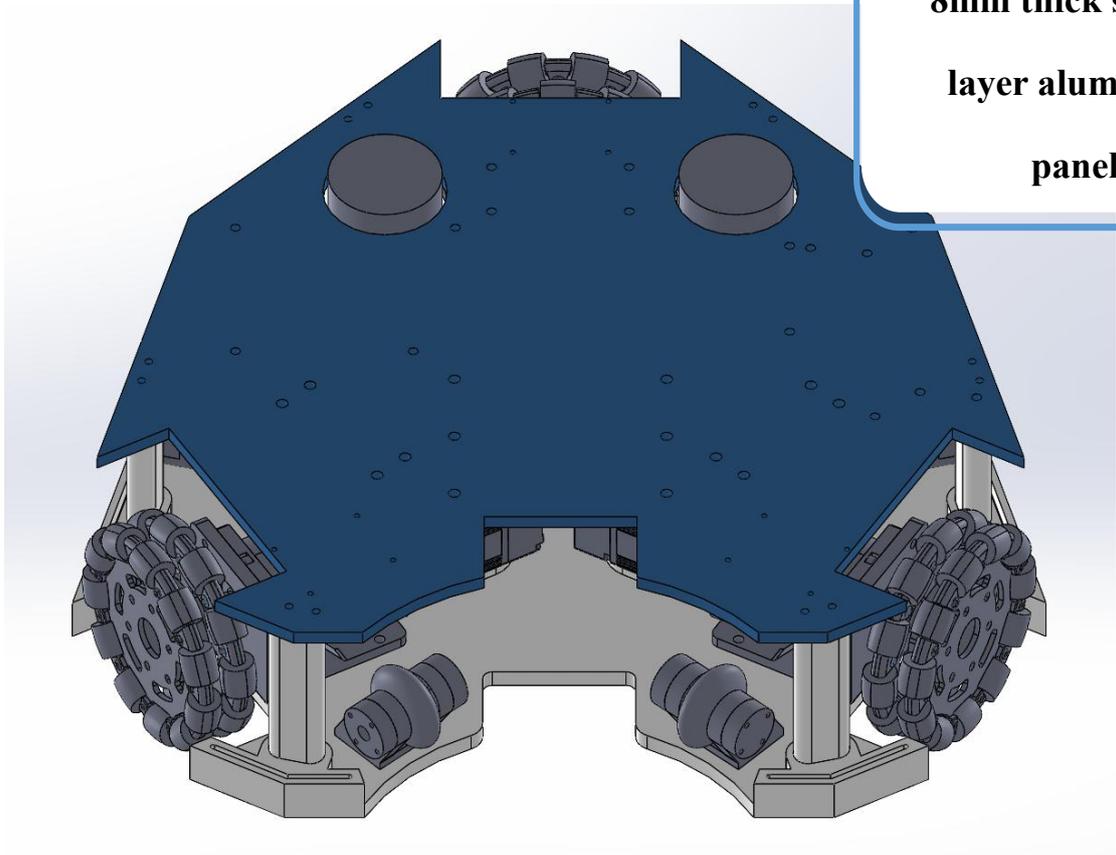


**auxiliary dribbling  
structure**



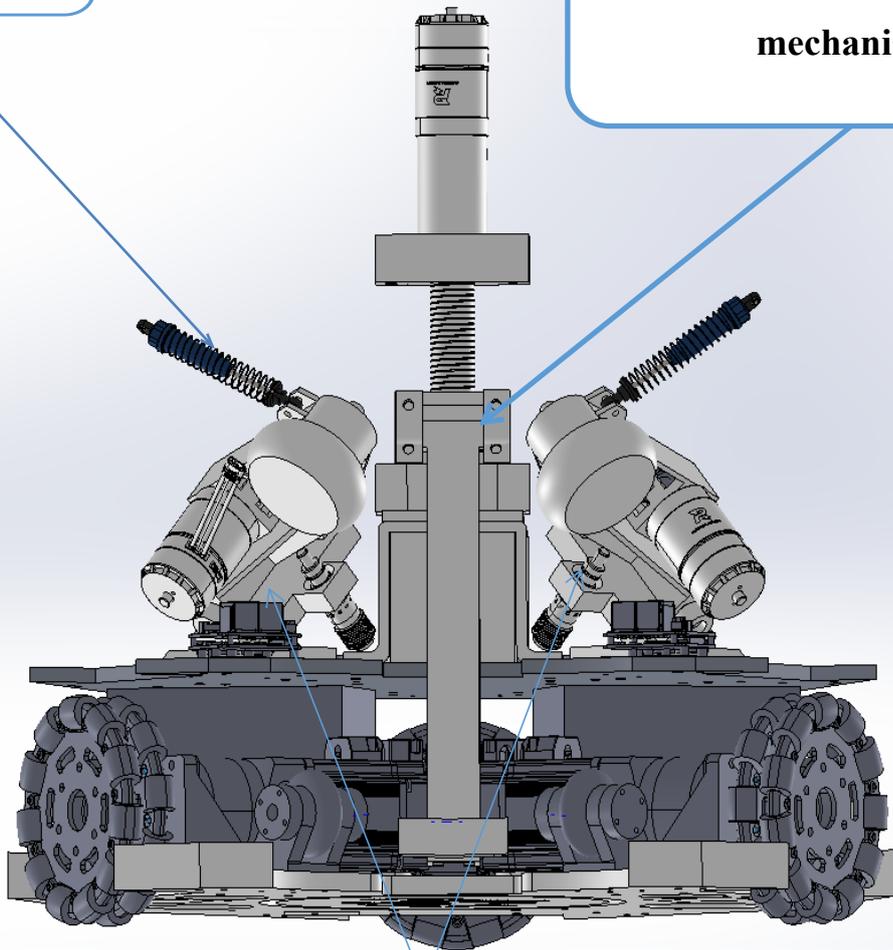


**8mm thick second  
layer aluminum  
panel**



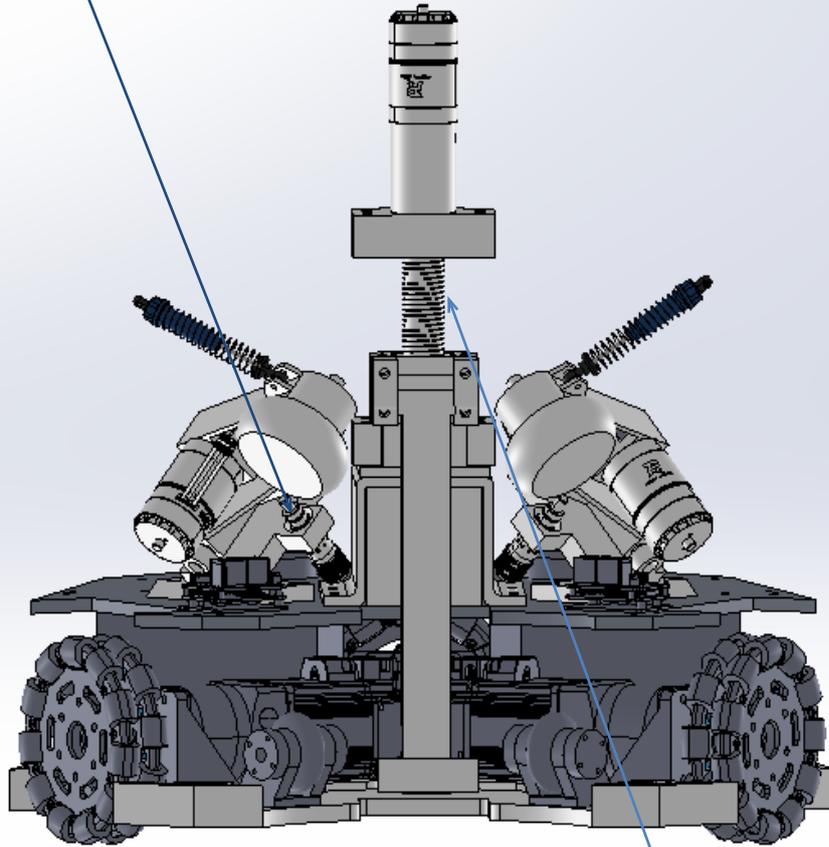
**shockproof  
suspension**

**height-adjustable hitting  
mechanism**



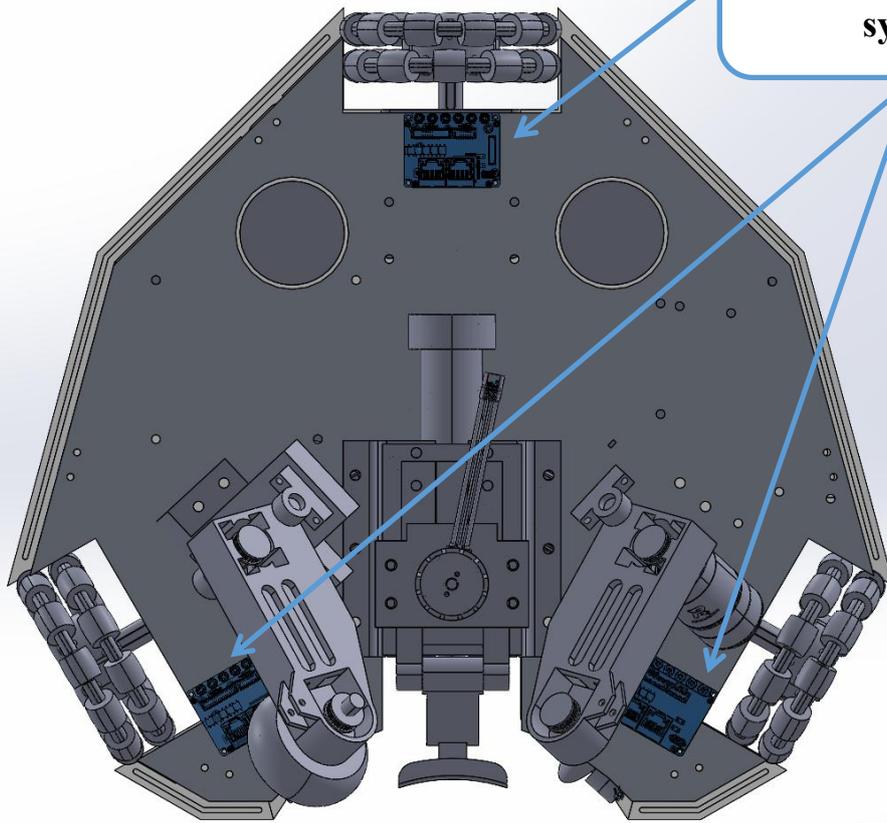
**ball picking-up mechanism**

micrometer

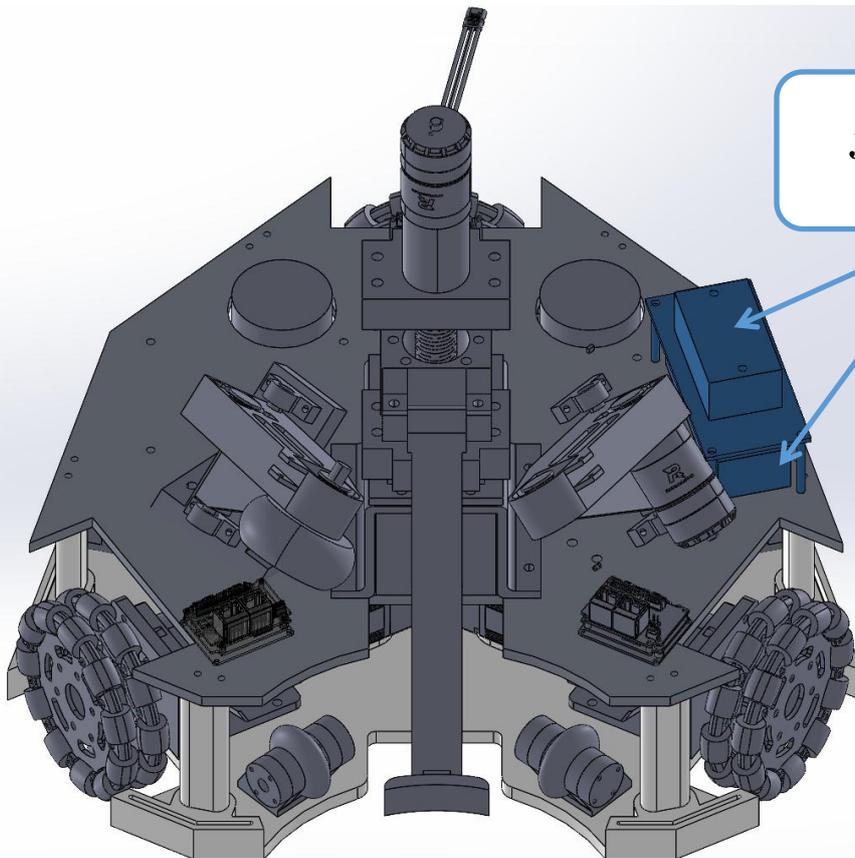


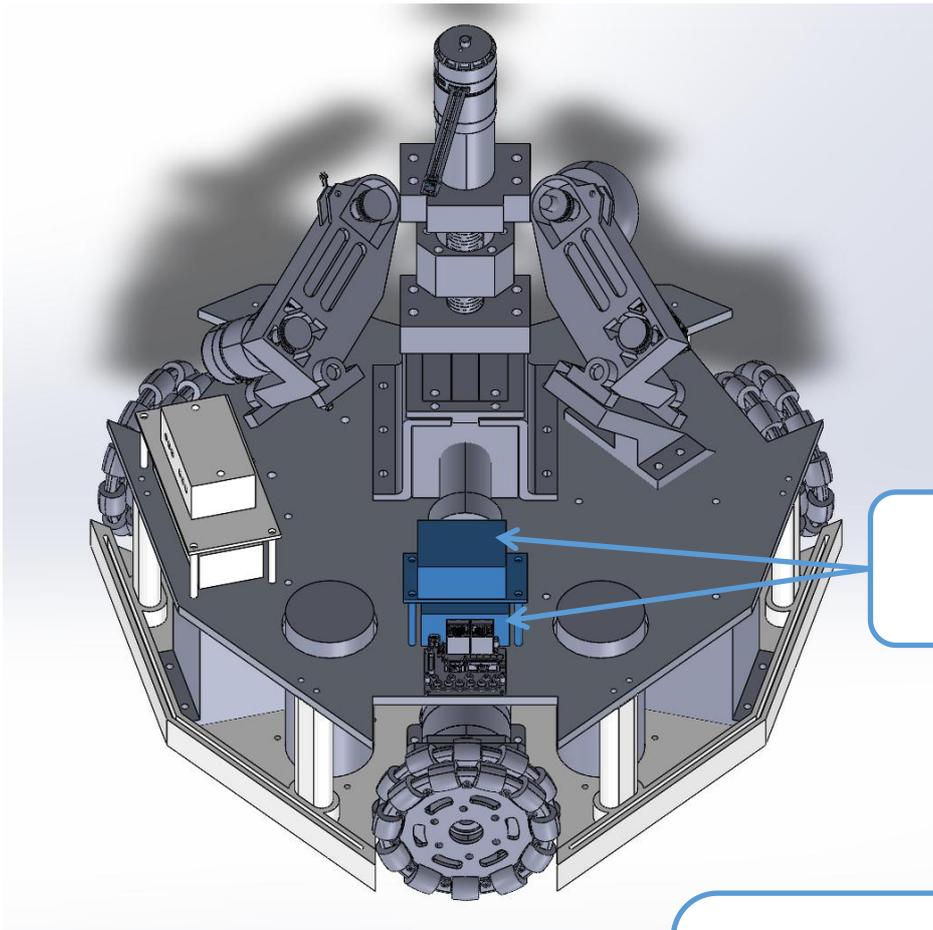
Lead screw

**chassis propulsion  
system**

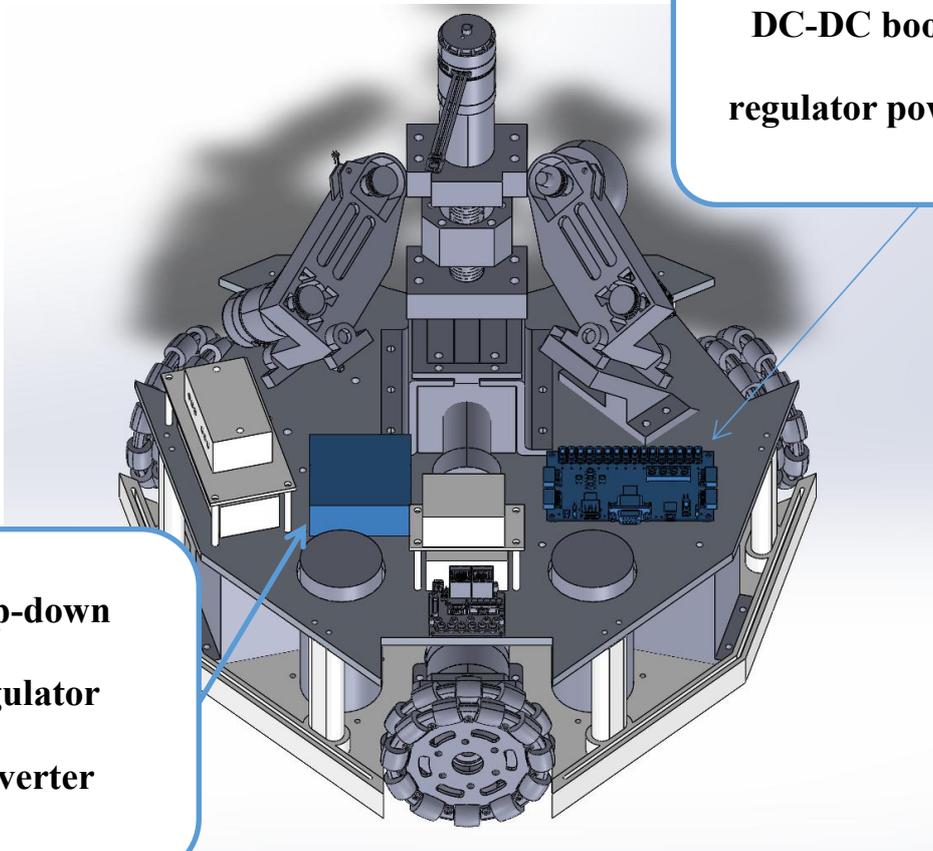


**Junction box**





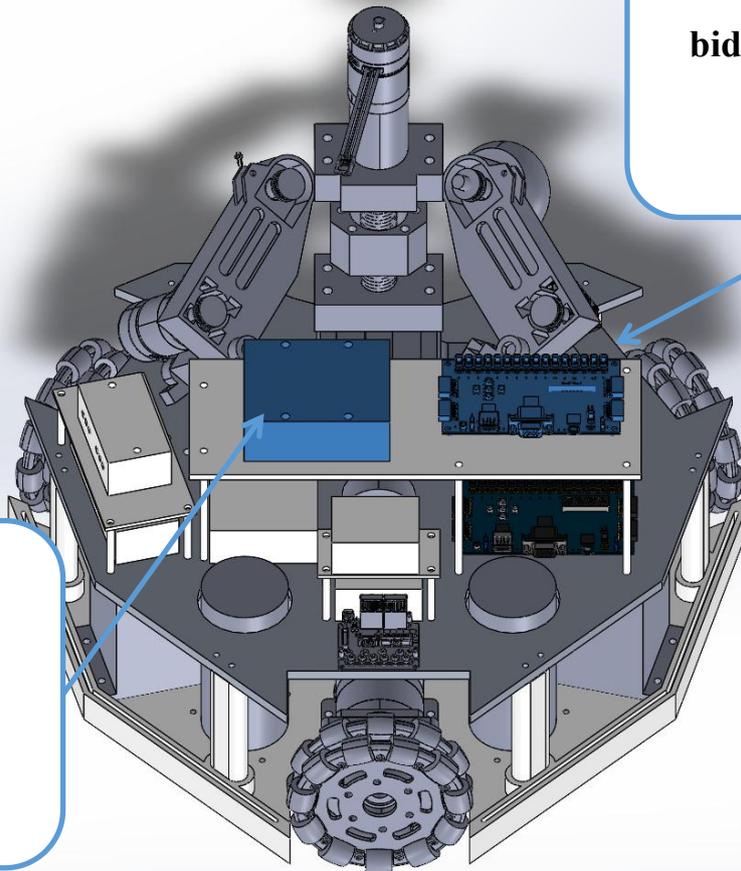
**relay**



**DC-DC boost voltage  
regulator power module**

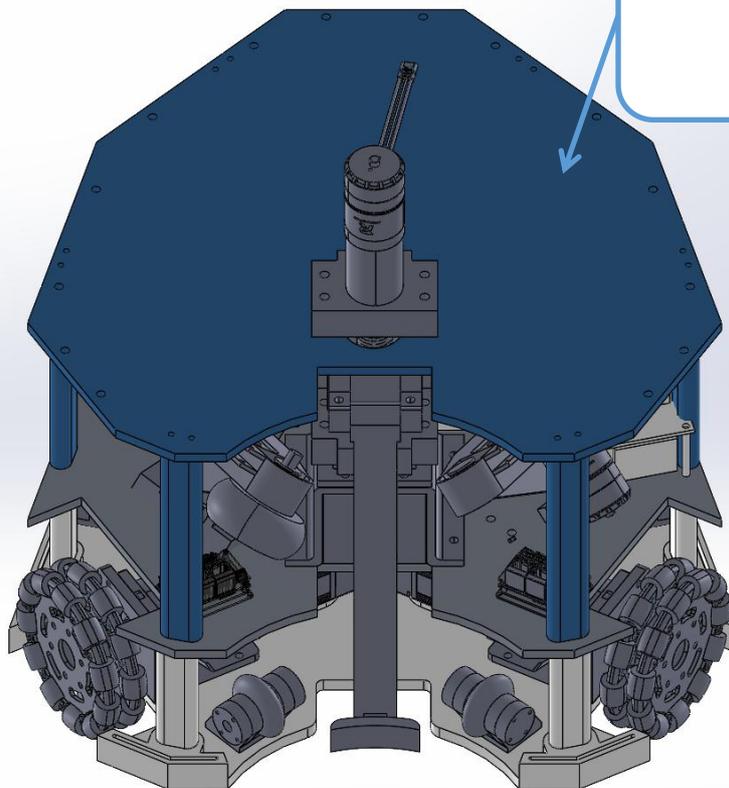
**DC-DC step-down  
voltage regulator  
power converter**

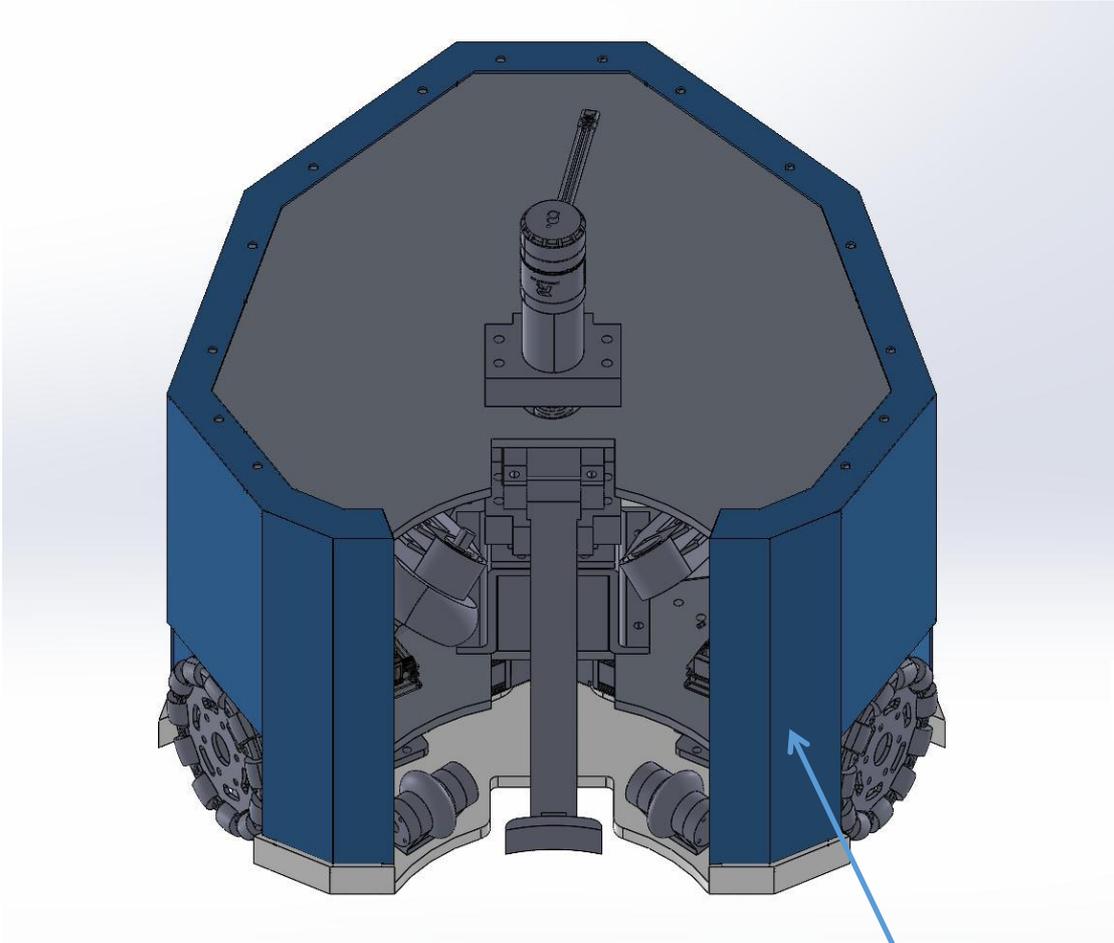
**high-power  
bidirectional DC-DC  
power supply**



**DC-DC step-down  
voltage regulator  
power converter**

**8mm thick aluminum  
top plate**





**2mm thick aluminum  
frame**

**Total reflector**

**Industrial Camera**

**Microcomputers**

