

astorino

 **Kawasaki** Robotics

astorino

revolution in
robotics education

B002 version

AVAILABLE FROM

May 1st, 2023



MECHANICAL CHANGES

Reduction in weight

Brakes on JT2 and JT3 are a standard in B002 version. Robot without brakes is an option

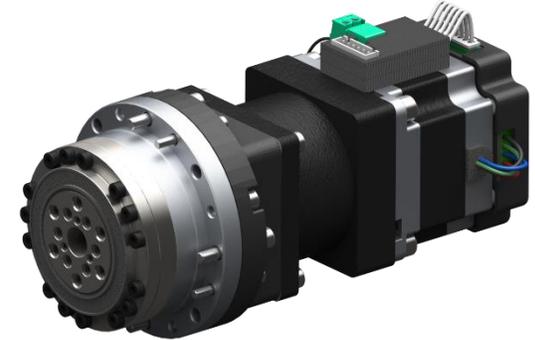
-1.3kg per axis



Old planetary system



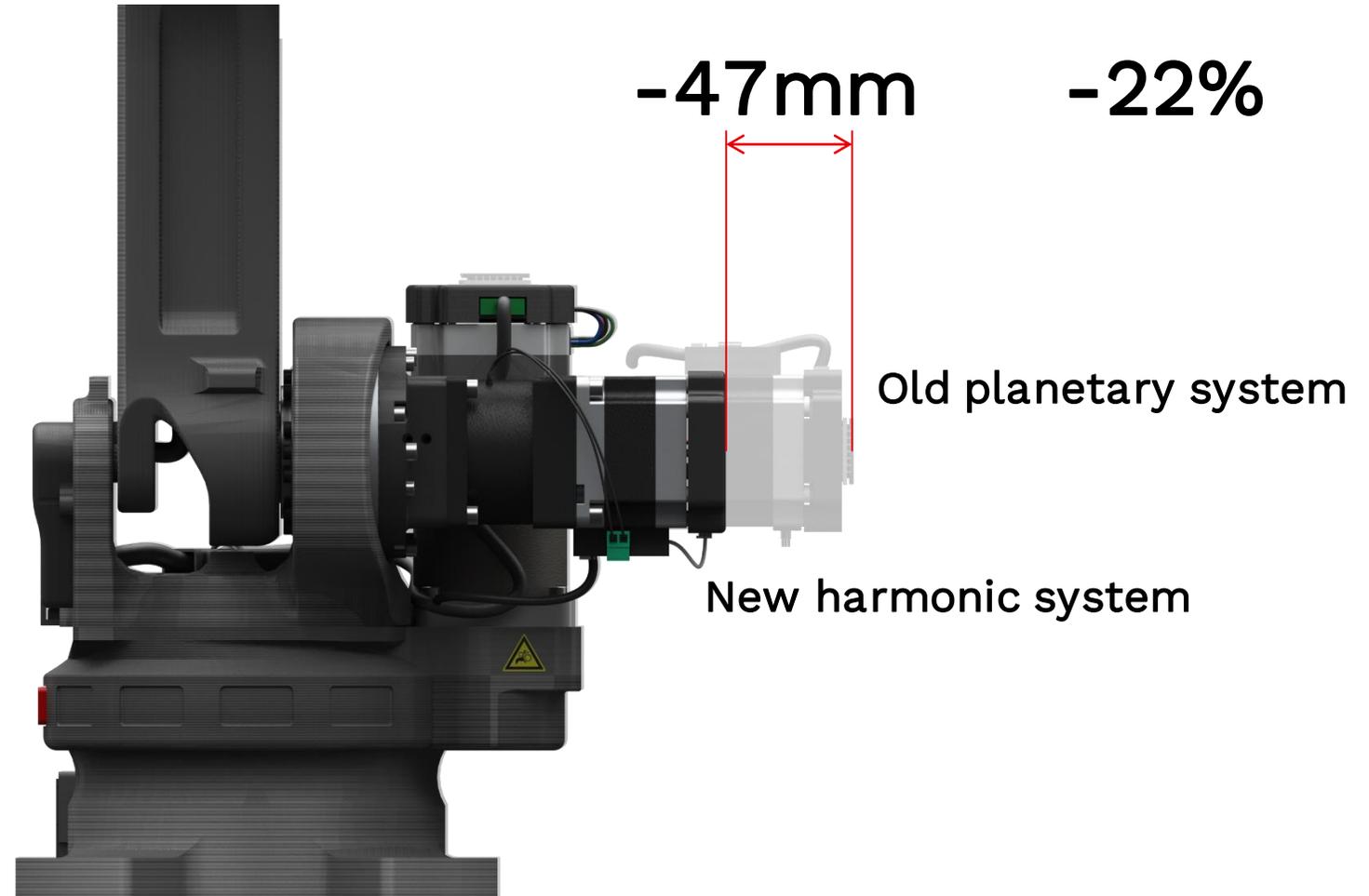
-72%



New harmonic system

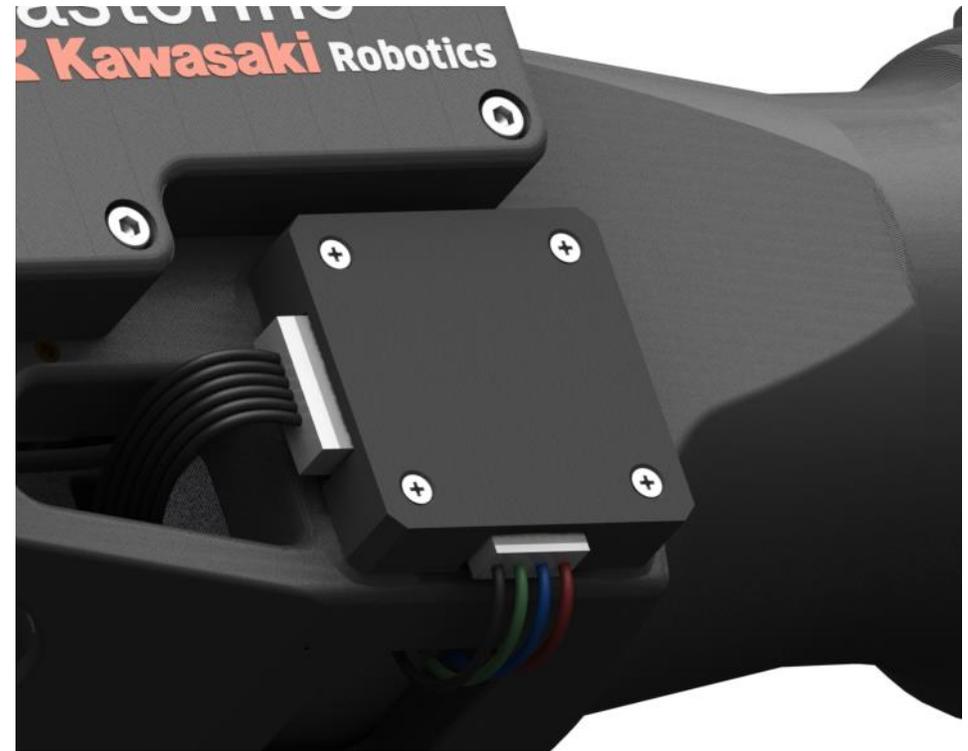
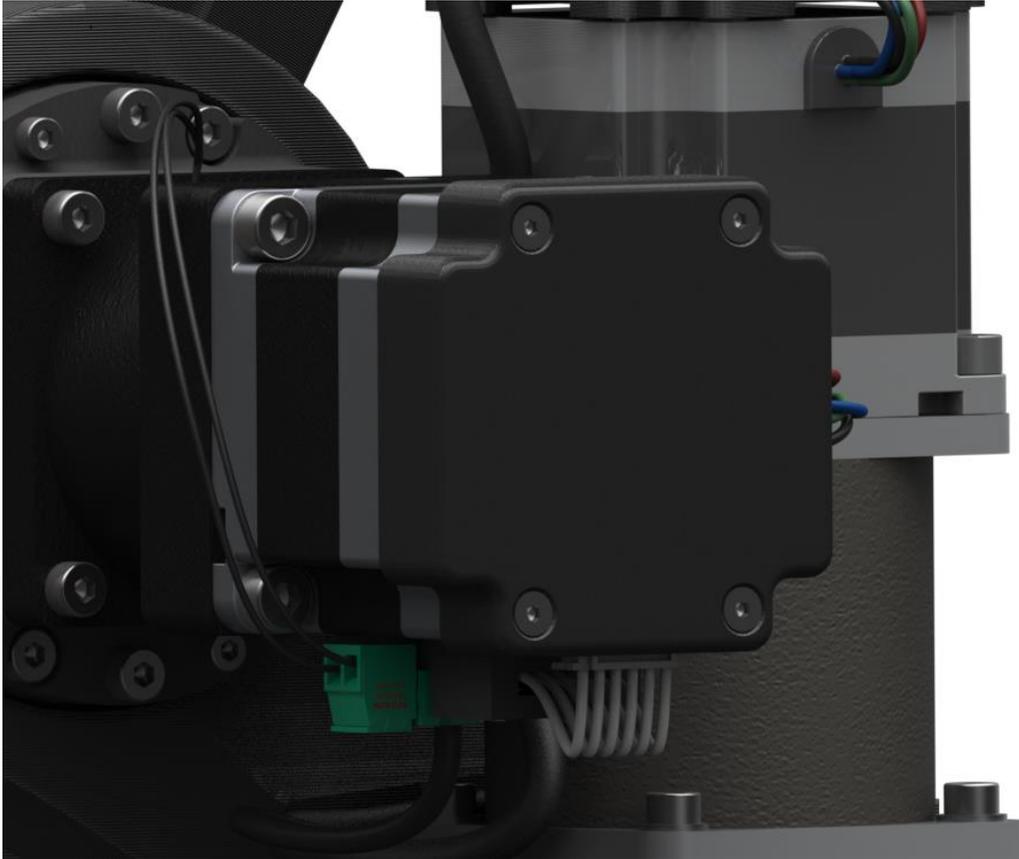
MECHANICAL CHANGES

Reduction in size



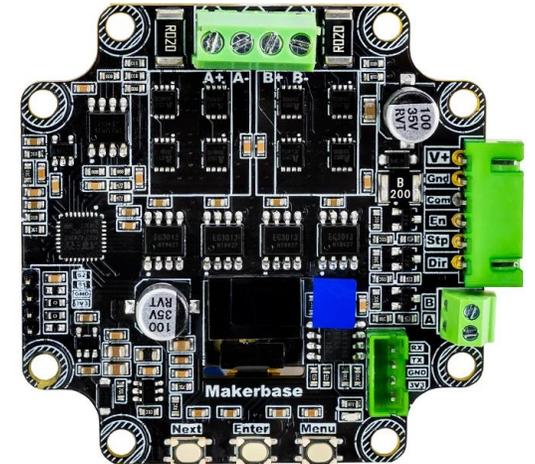
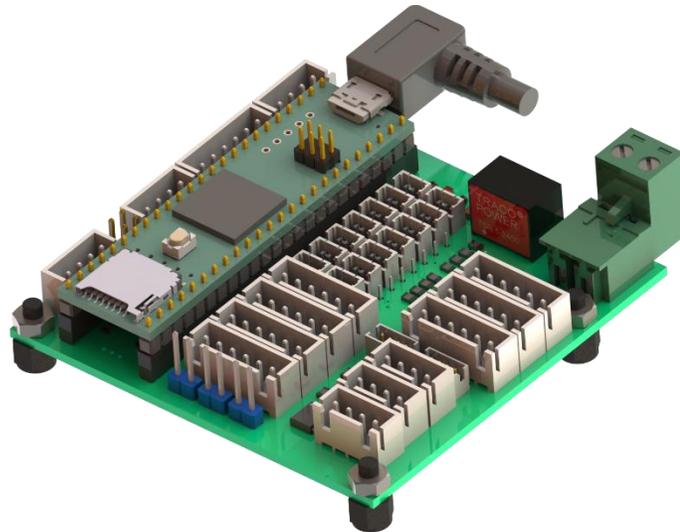
MECHANICAL CHANGES

Protective covers on all motor drivers



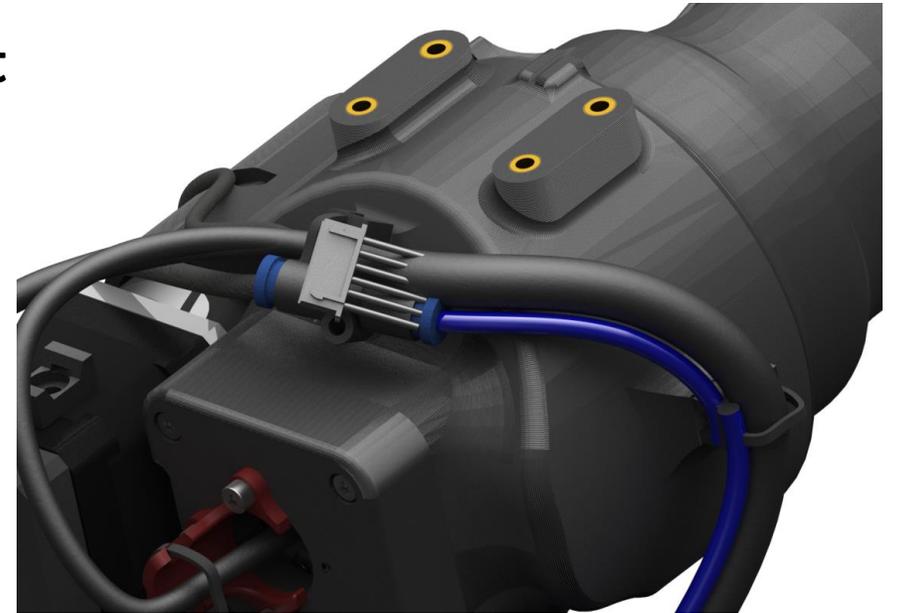
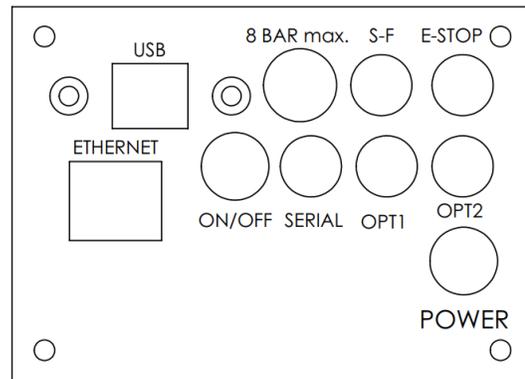
ELECTRICAL CHANGES

- New mainboard with 2x 24V PNP outputs and 2x 24V PNP inputs
- Motor Drivers with FOC control
- Accelerometer for collision detection



FUNCTIONALITY CHANGES

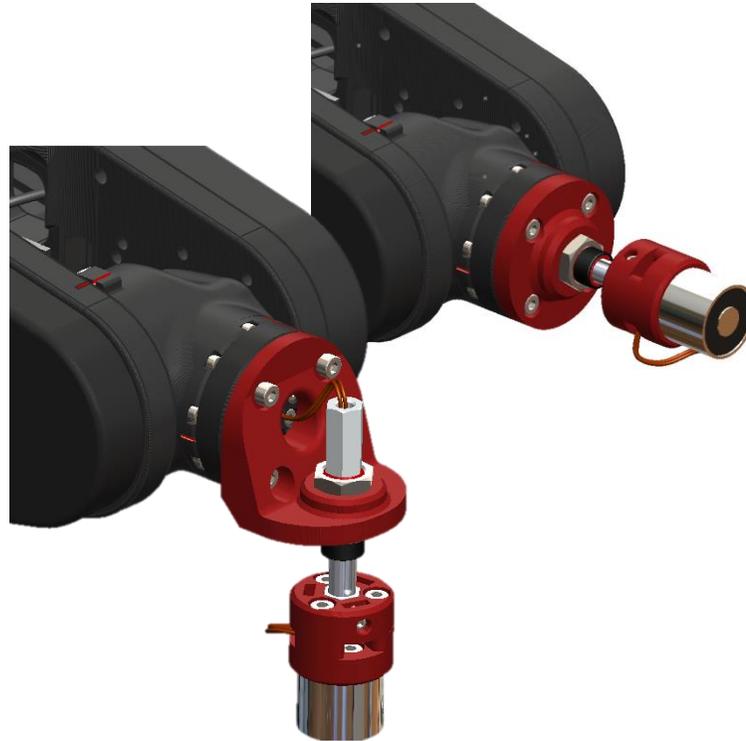
- Payload increased to maximum of 1kg
- 24V galvanic isolated ESTOP inputs – 2 channels
- 24V galvanic isolated SAFETY-FANCE inputs – 2 channels (option)
- Collision detection – based on accelerations not motor current
- 2x 24V PNP inputs and 2x 24V PNP outputs on the arm on XH-2.54 6 pin connector
- Pressure $\varnothing 4$ pipe routed through the arm
- Mainboard and arm ready for future Teach Pendant
- Labels on the back plate



NEW ADD-ONS

GRIPPERS

1. Schunk
2. Effecto
3. Magnetic





THANK YOU!