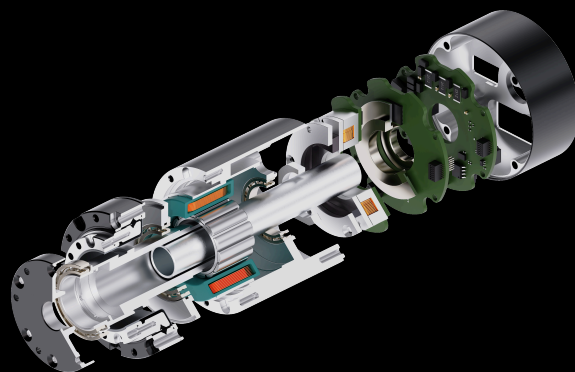


Preliminary datasheet, values may still change without notice.

# Nate. Actuators

## Compact Design. High Performance.

Compact and lightweight, Nate's modular actuators offer an outstanding torque-to-size ratio for seamless integration into robotic arms, humanoids, and beyond. Designed in compliance with ISO 13849-1, they feature built-in safety functions that enable PLd integration at the robot level.

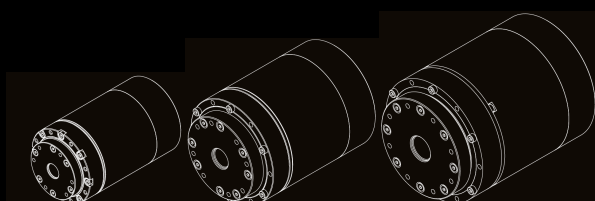


With hollow-shaft, harmonic reducer, dual encoders, magnetic brake, and brushless motorization, they deliver long-life reliability, effortless integration, and the assurance of Niryo's complete technology expertise.

Model :	NA-11	NA-17	NA-20
Weight, g :	550	1000	1425
Size, mm :	D52x89	D80x111	D90x118
Hollow shaft diameter, mm :	10	14	17
Rated torque, Nm :	9	50	65
Peak torque, Nm :	11	65	105
Max speed, RPM :	50	50	40
Brakes holding torque, Nm :	20	80	150
Communication :	RS485 / TOR		
Nominal voltage, V :	48		
Encoder Resolution :	19 bits		

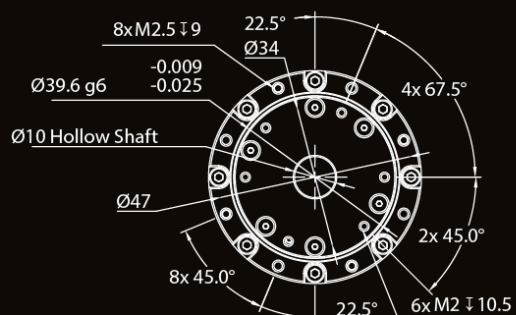


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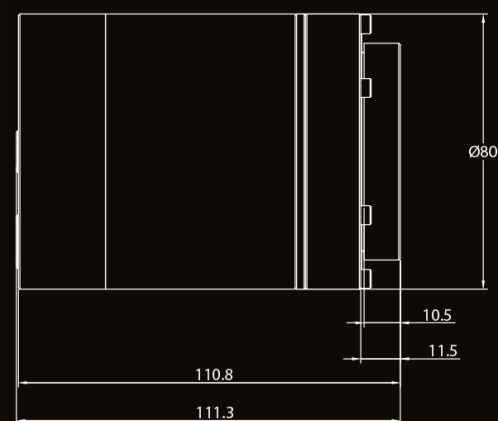
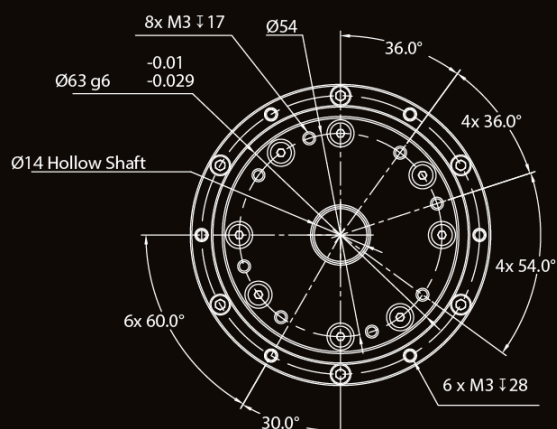


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## NA-11



## NA-17



## NA-20

