

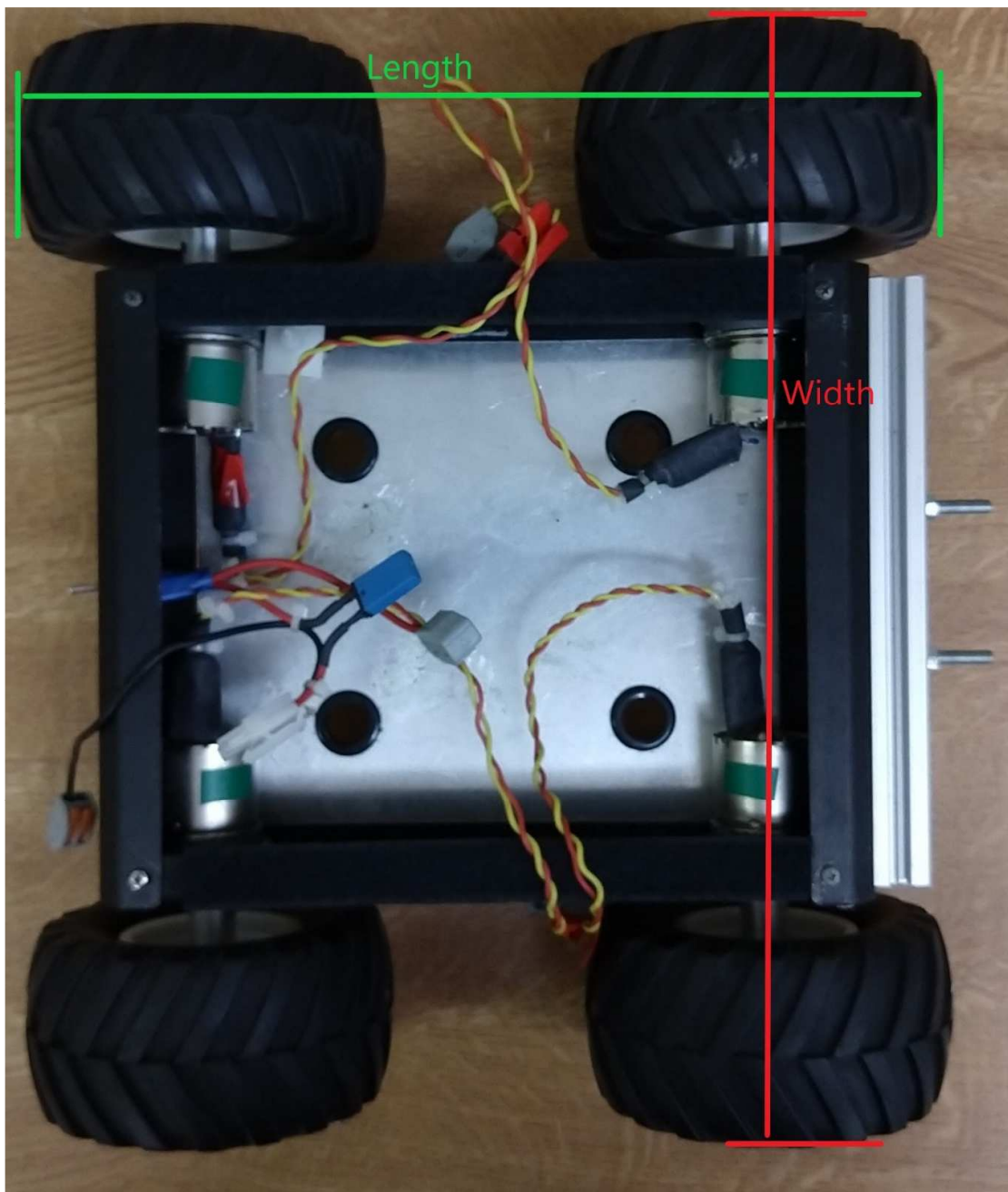
TDP3 2020 Robot Specification

Lynxmotion Aluminum A4WD1 Rover Kit

<https://www.robotshop.com/en/4wd1-robot-aluminum-kit.html>

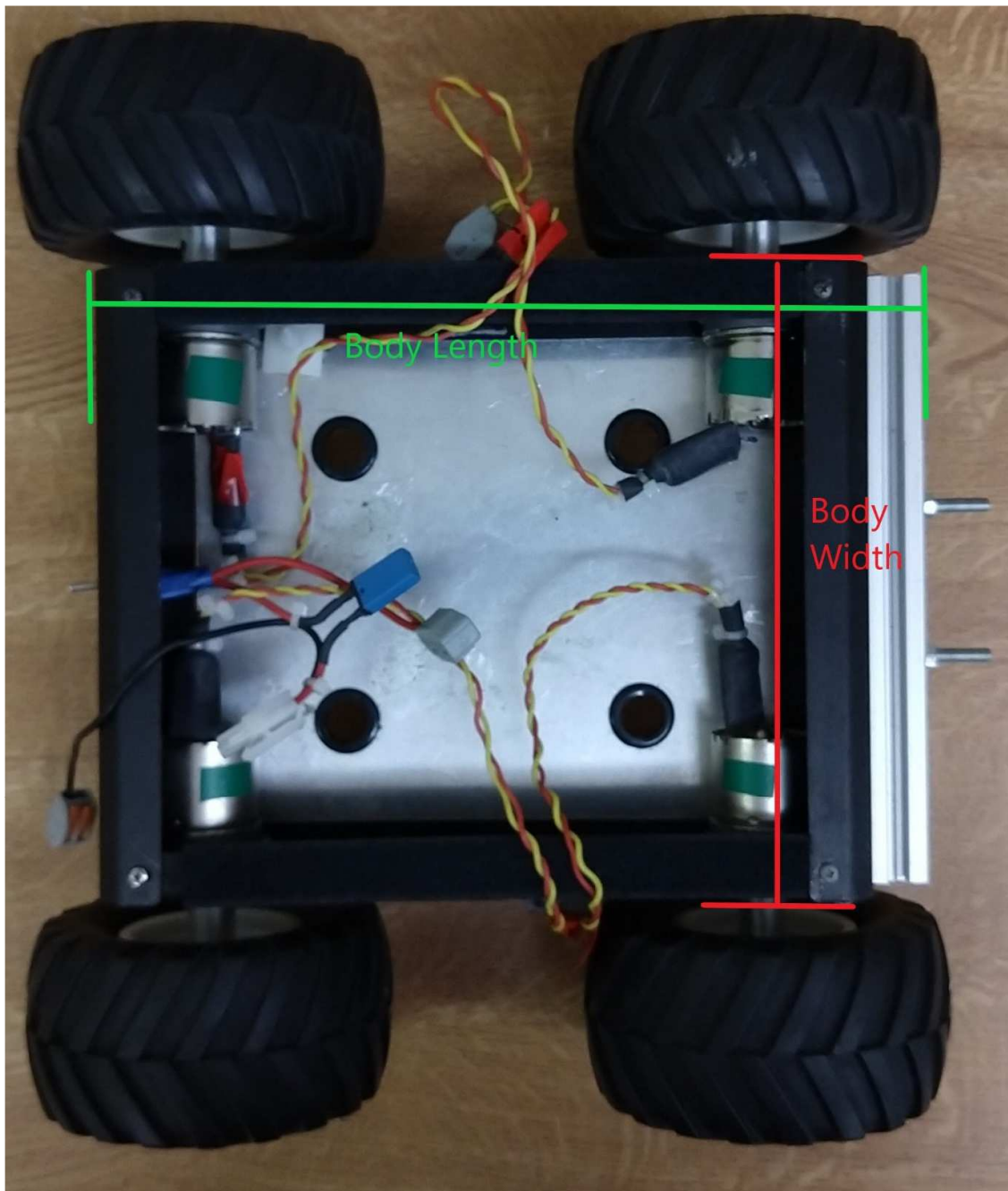
- Overall Length: 12.00"
- Overall Width: 13.50"
- Tire Height: 4.75"
- Chassis Length: 9.75"
- Chassis Width: 8.00"
- Chassis Height: 4.00"
- Ground Clearance: 1.63"
- Weight: 4lbs 6 oz.
- Speed: 36" per second.

This is all the information from the Manufacturer's website and is an example illustration of why we do not like ordering from a hobby company. If anybody locates a mechanical drawing for the robot please let me know.



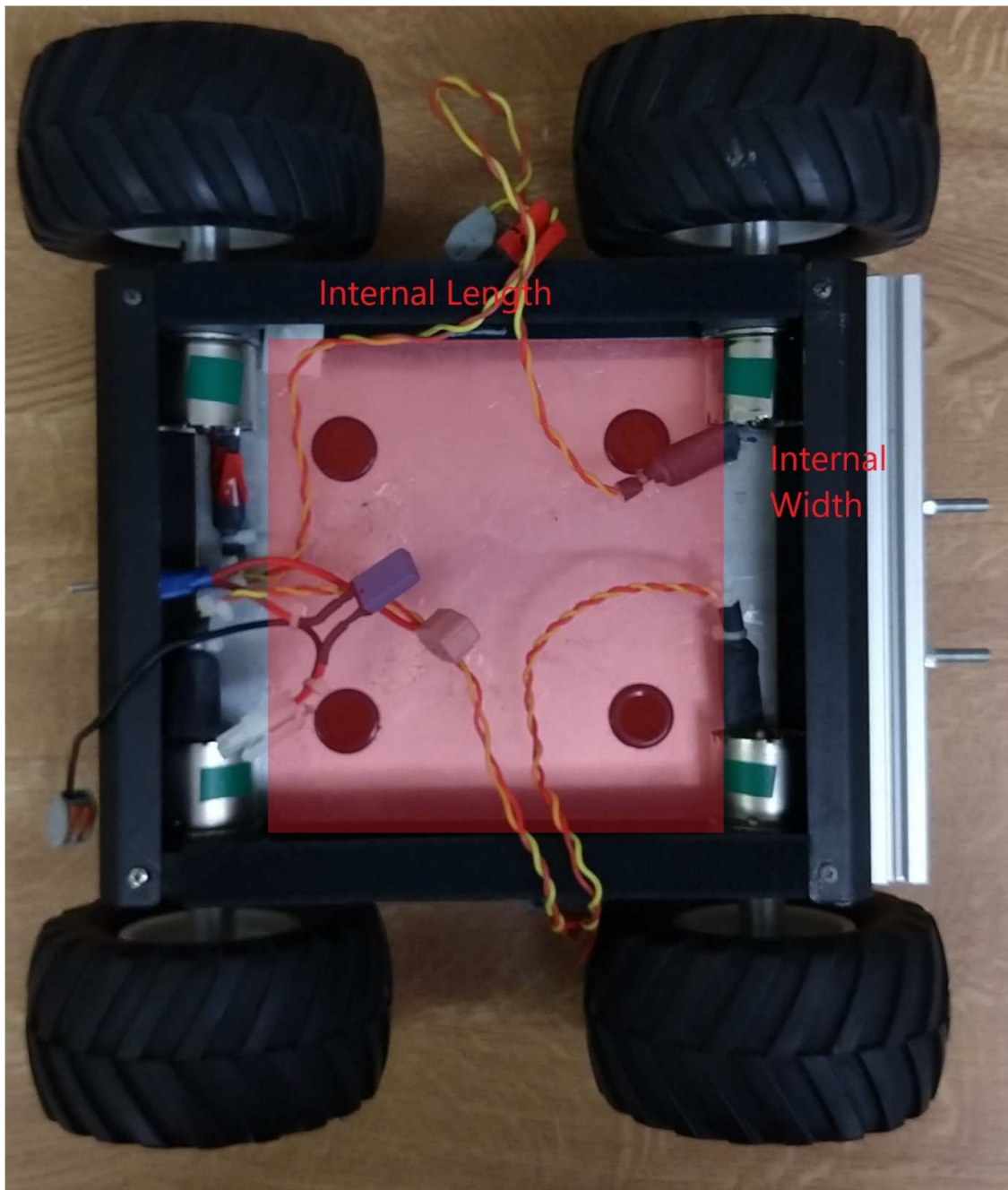
Length = 300mm

Width = 340mm



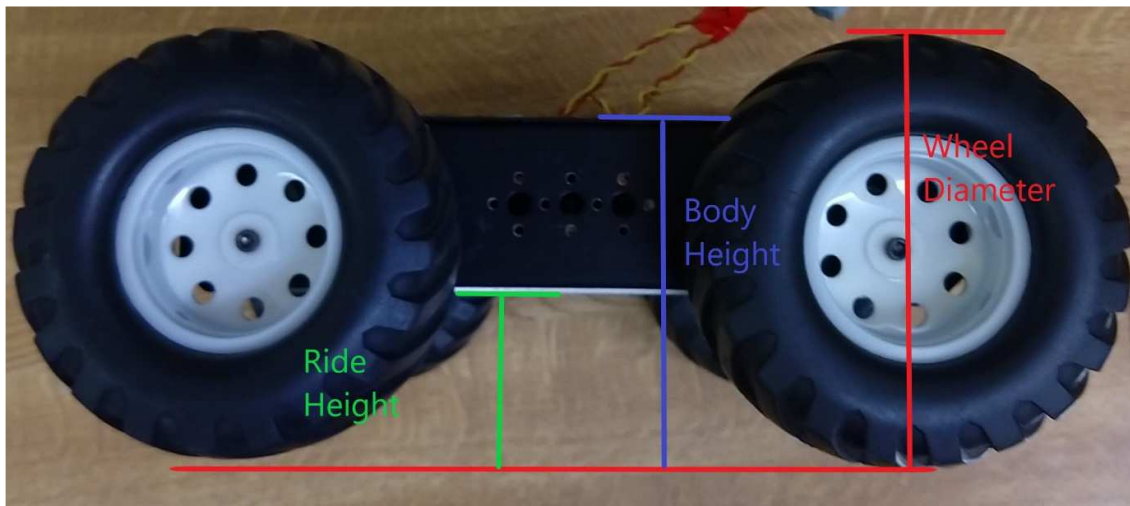
Body Length = 250mm

Body Width = 200mm



Internal Length = 145mm

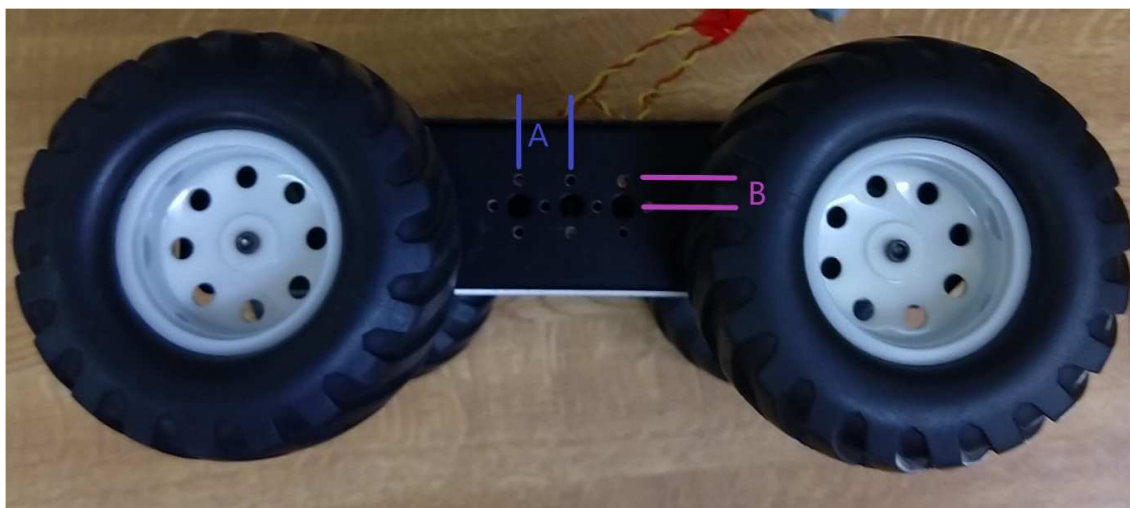
Internal Width = 165mm



Ride Height = 45mm

Body Height = 100mm

Wheel Diameter = 120mm



Large hole Diameter = 8mm

Small hole Diameter = 3.2mm

Distance A = 12mm

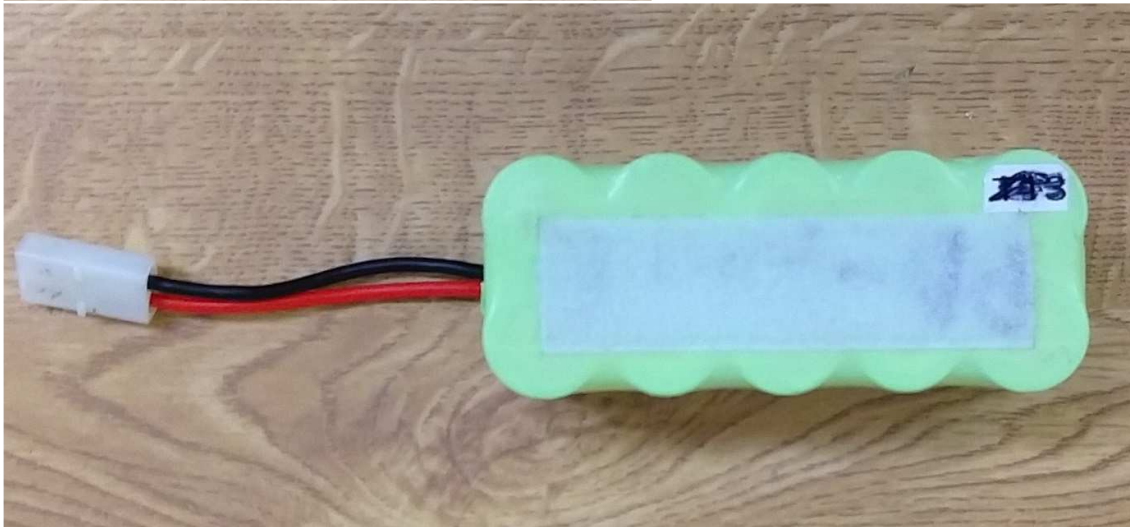
Distance B = 6mm



Robot Top and bottom cover

Can be modified

Everything else return as issued – Please do not modify or disassemble.



Battery Length = 120mm, Battery Height = 50mm, Battery width = 50mm

Voltage = 12V, Capacity = 2800 mAh (Ni MH rechargeable)

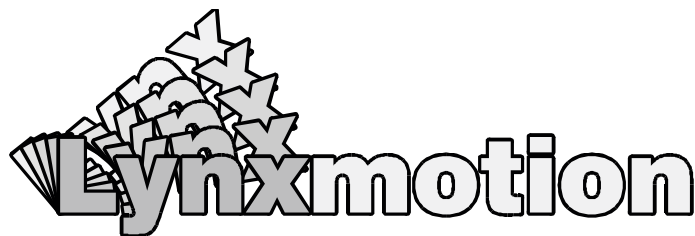
Sticky backed Velcro to attach to Robot



Lynxmotion 12VDC 200rpm, 0.78Kg-cm GHM-16 w/ rear shaft

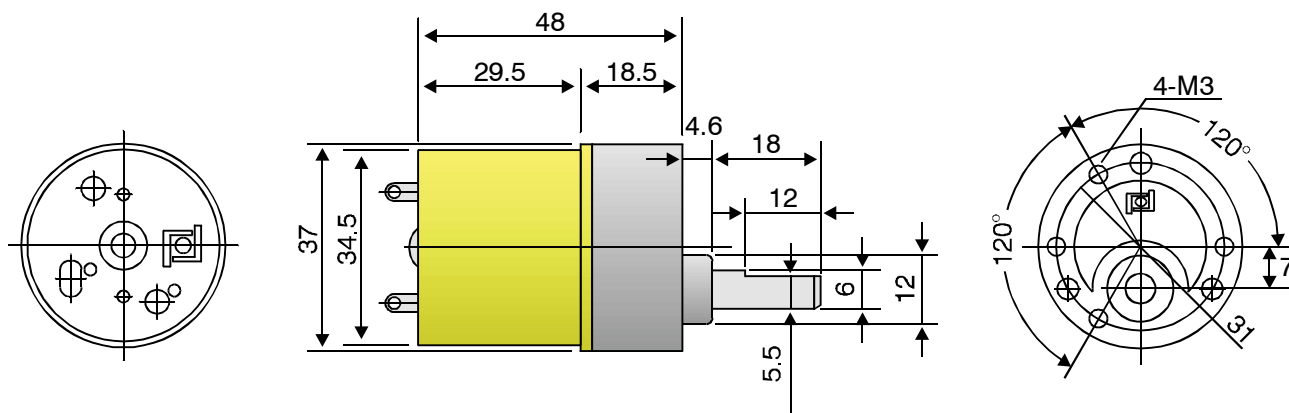
- DC Gearmotor w/ rear shaft
- Nominal Voltage: 12V
- Stall Current / Torque: 1.5 A / 83 oz-in
- Shaft Diameter: 6 mm

Data sheet for:
GHM-01
12vdc 30:1 200rpm
6mm shaft

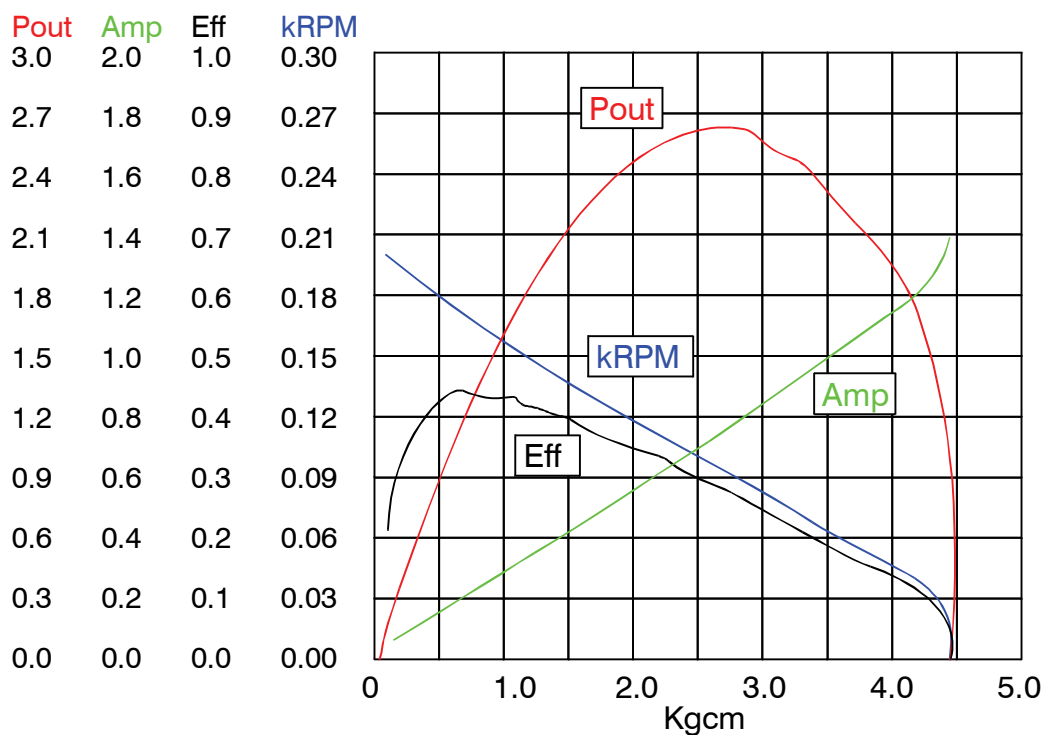


www.lynxmotion.com

I. OUTER DIMENSIONS



II. DRAWING OF CURVES



III. SPECIFICATIONS

Type: HN-GH35GMA
Model: HN-GH12-2217Y - 30:1

1. Testing Conditions:

Temp: 25° Celsius
Humidity: 60%
Motor Orientation: Horizontal

2. Rated Voltage: 12vdc

3. Voltage Operating Range: 6-12vdc

4. Rated Load at 12vdc: 620g-cm

Do not exceed rated load. Damage may occur!

5. No Load Speed at 12vdc: 200 RPM +/- 10%

6. Speed at Rated Load (620g-cm): 177 RPM +/- 10%

7. No Load Current at 12vdc: < 113mA

8. Current at Rated Load (620g-cm): < 233mA

9. Shaft End-Play: Maximum 0.8mm

10. Insulation Resistance: 10M ohm at 300vdc

11. Withstand Voltage: 300vdc for 1 Second

12. The gear motor is not intended for instant reverse.

The gear motor must be stopped before reversing.

13. The gear motor does not include protection from water or dust etc.