

Introduction



megh neel

Company Details

Registered Name	Megh Neel Renewable Power Systems Private Limited
UIN	U40108TZ2011PTC017366
Date of incorporation	29-Aug-2011
GST	33AAHCM4007F1ZX
Registered Office Address	2/19, Elite Avenue, Near Shivaram Nagar, Ganapathy, Coimbatore – 641006 Tamil Nadu, India
Website	http://www.meghneel.co.in
Social Media	Facebook: https://www.facebook.com/meghneelrenewable/ Instagram: https://www.instagram.com/meghneelpower/
Contact Numbers	+91-9841079631 +91-7708066207
Contact Email IDs	sales@meghneel.co.in , meghneelpower@gmail.com navin.cc@meghneel.co.in

About Us

- Founded in the year 2011, we are a technology oriented company with keen interests in developing energy efficient and eco-friendly products
- We have in depth knowledge in construction of Brushless Direct Current (BLDC) motors, Permanent Magnet Synchronous Motors (PMSM), Permanent Magnet Alternators (PMA) and its applications including pumps, Electric Vehicles and Vertical Axis Wind Turbines (VAWT)
- All of our products are developed in-house

Our Objectives

- Help transition to a sustainable World by reducing dependency on existing technologies that severely impact the environment, by improving efficiency of existing systems, promote electric vehicles and renewable energy systems.
- Bring green technologies to the mainstream by making them reliable, affordable and competitive when compared to existing technologies.
- Our primary social objective is to help transition to a sustainable World by raising awareness, adopt sustainable lifestyles, enable transition to renewable energy, shift towards a circular economy.

What We Do

Products

Services

IR120 Series

OR120 Series

IR220 Series

R&D

Design

BLDC Motors

PMSM Motors

Pumps

2W/3W
/4W-EV
Motors

Special
Hub
Motors

2W -
EV Hub
Motors

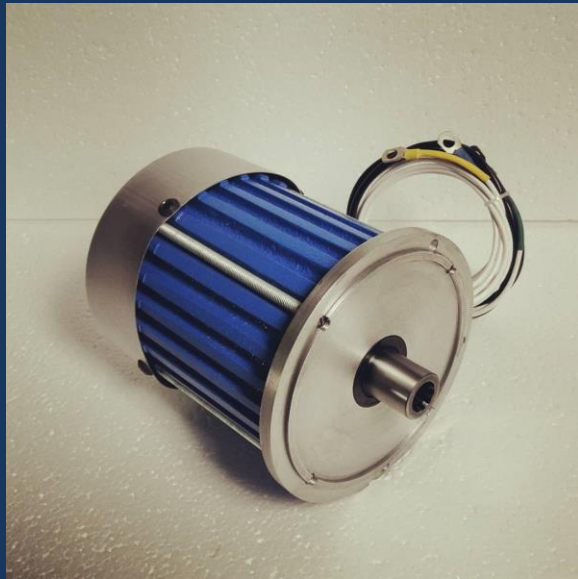
4W-EV
Motors

Research
Institutes

Custom
Motor

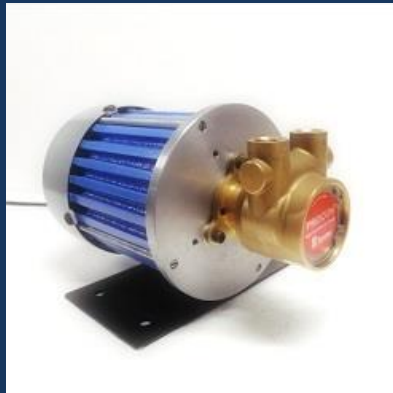
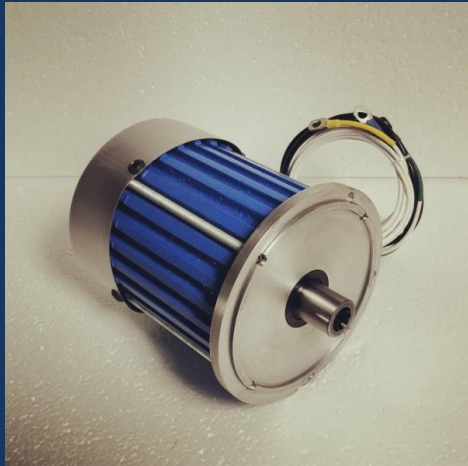
Custom
Controllers

Key Products – IR120 Series



- 100W to 8000 Watts in-runner BLDC and PMSM Motors
- 12VDC to 72 VDC (Customizable)
- Also available with 230VAC drives
- RPM customizable
- 12 Slot / 8 Pole IPM and 10 Pole SPM Configuration
- IEC standards for easy mounting
- Also available with mounting suitable for rear differential gear box for eLCV application

IR120 Series Photo Gallery



IR120 Series Photo Gallery



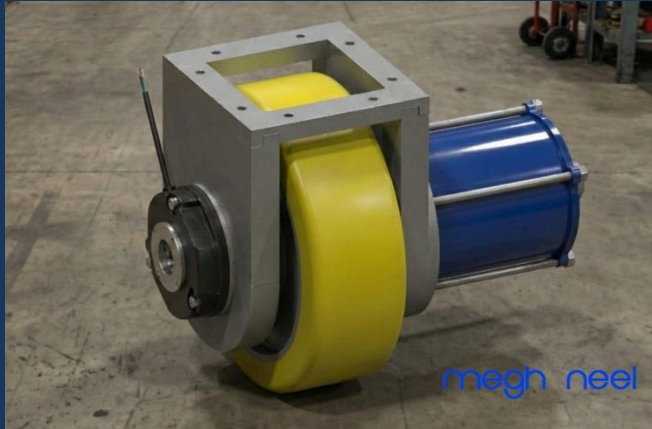
BLDC Motors with Integrated Cycloidal Gears



- Indigenously developed cycloidal gears
- Custom ratios (standard ratios of 10, 12, 15, 20 & 25)
- Available for motors ranging from 350W to 6Kw
- Available with external electro-mechanical brake



Upcoming Products for AGV & AMR



- AGV Drive Wheel with built-in gear box, optional steering drive, optional external brake and drive unit
- Available from 750 W up to 2000W
- Suitable for both AGV and AMR applications
- Customization possible

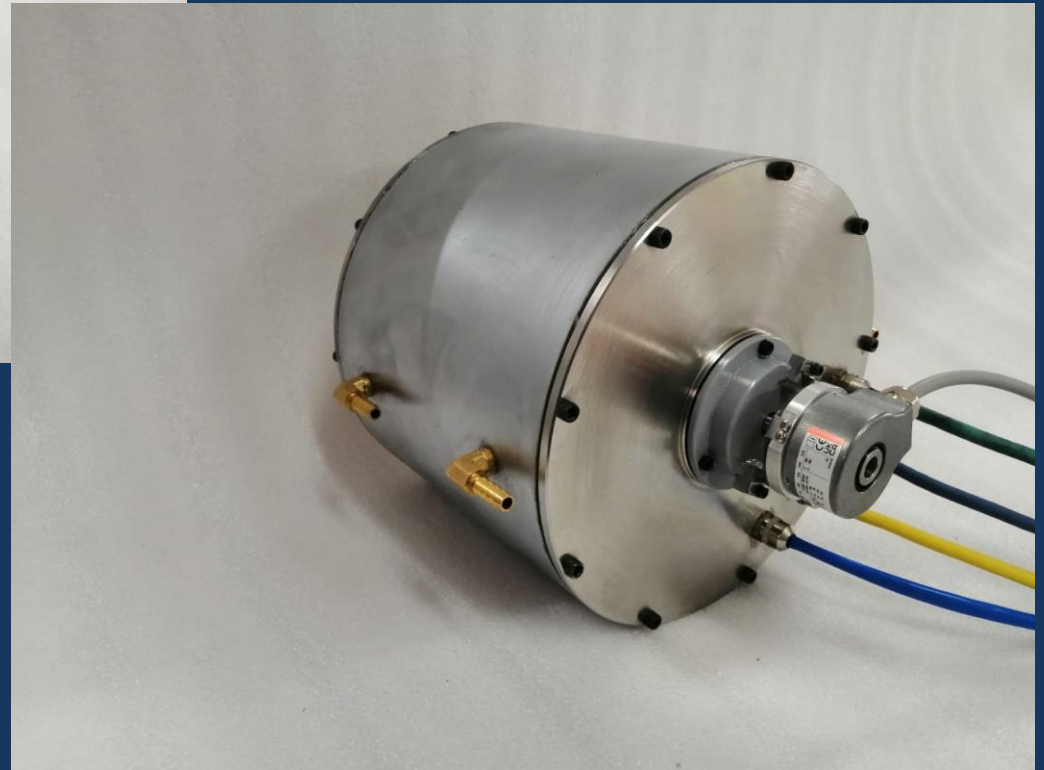


Key Products – IR220 Series

- 10KW to 50 Kw in-runner PMSM Motors
- 72 to 310 VDC (Customizable)
- RPM customizable
- 12 Slot / 6 Pole Configuration
- Liquid Cooled
- Suitable for electric Cars, Tractors, Mini Pick Up Vans etc



IR220 Series Photo Gallery



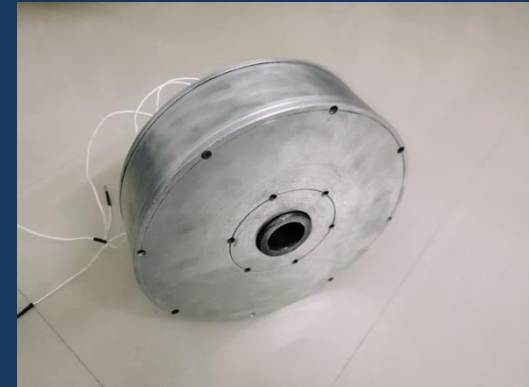
Key Products – OR120 Series



- 250 to 500W Out-runner BLDC motors
- 500 Watts Geared Bicycle Hub Motor
- 500 Watts Mini Scooter Hub
- 12 Slot / 16 Pole Configuration
- 100% Indigenous



OR120 Series Photo Gallery



Custom Motors

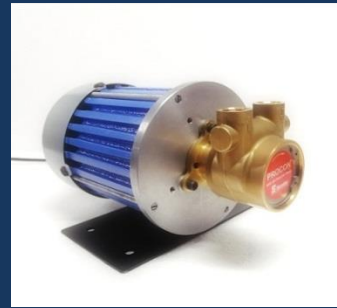
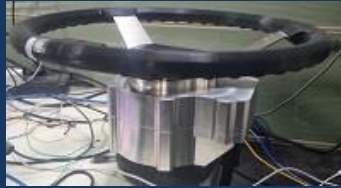


- More than 10+ custom motors developed for various customers
- They include
 - Slot-less, Core-less, using Halbach array
 - Vernier Machine
 - Spoke Type BLDC Motor
 - IPM Machine
 - Electrically Excited Synchronous Machine
 - CAN enabled Pumps for EVs

Customers

- Centre for Development of Advanced Computing , Trivandrum
- Centre for Development of Advanced Computing , Hyderabad
- University of Sheffield, Sheffield, UK
- Robert Bosch Engineering India Limited, Bangalore
- National Institute of Technology - Calicut
- Evergreen Automations, Coimbatore
- All About Innovations, Kerala
- Sundaram Fasteners, Chennai
- Tata ELXSI, Trivandrum
- Akvotransiro Tech Pvt Ltd, Guwahati
- Allied Engineering Works, New Delhi
- Kumaraguru College of Technology, Coimbatore
- Dima Techind Private Limited
- Veyyon Crane Technology
- Sethu Institute of Technology, Madurai

Some Customer Applications



Thank You