

# **SYSTEMATIC DESIGN** **IMPACTFUL** **PERFORMANCE**

A power-packed range of Magneto



# **DYNAMIC SOLUTIONS** **FOR A SMOOTHER** **DRIVE CONDITIONS**

## **INTRODUCING** **OUR POWER** **PACKED RANGE OF** **VARIANTS FOR 2W** **& 3W APPLICATIONS**

Varroc offers a range of magneto that are designed, developed & manufactured in India specifically considering customer requirement.

Focusing on customer requirement, efficient & optimize performance in given bondery conditions.



# MAGNETO PORTFOLIO

LOWER CC TO HIGHER CC



Power Output



Signal to ECU/CDI/TCI  
For Spark Ignition



Provide Inertia

## TECHNICAL SPECIFICATIONS

**Power rating:** 100W to 450W

**Type:** Single & three phase

**Speed range:** 200 RPM to 10000 RPM

**Rotor OD range:** 112mm to 141mm

**Stator OD range:** 84mm to 126mm

**Max working temperature:** 160°C

**Working condition type:** Wet & dry sump

**Magnet grades used:** Ferrite and  
Neodymium magnets



# LOW POWER MAGNETO

SINGLE & THREE PHASE



Power Output



Signal to ECU/CDI/TCI  
For Spark Ignition



Provide Inertia

## FEATURES

**Frame size:** 110mm to 118mm

**Rotor, Stator pole:** 4 to 12 pole

**Pulsar coil construction:** Potted / molded  
Multi-pip / teeth provision on cup/bush as  
per requirement

## TECHNICAL SPECIFICATIONS

**Power rating:** 90W to 120W

**Type of motor:** Single phase

**Speed range:** 200 RPM to 10000 RPM

**Rotor OD range:** 110mm to 118mm

**Stator OD range:** 84mm to 93mm

**Max working temperature:** 150°C

**Working condition type:** Wet & dry sump

**Magnet grades used:** Ferrite magnets

# MEDIUM POWER MAGNETO

SINGLE & THREE PHASE



Power Output



Signal to ECU/CDI/TCI  
For Spark Ignition



Provide Inertia

## FEATURES

**Frame size:** 110mm to 118 mm

**Rotor, stator pole:** 8 to 18 pole

**Pulsar coil construction:** Potted/molded  
Multi-pip/teeth provision on cup/bush as  
per requirement

## TECHNICAL SPECIFICATIONS

**Power rating:** 120W to 250W

**Type:** Single & three phase

**Speed range:** 200 RPM to 10000 RPM

**Rotor OD range:** 110mm to 118mm

**Stator OD range:** 84mm to 93mm

**Max working temperature:** 150°C

**Working condition type:** Wet & dry sump

**Magnet grades used:** Ferrite magnets



# HIGH POWER MAGNETO

THREE PHASE



Power Output



Signal to ECU/CDI/TCI  
For Spark Ignition



Provide Inertia

## FEATURES

**Frame size:** 118mm to 141mm

**Rotor, Stator pole:** 12 to 18 pole

**Three phase construction**

**Pulsar coil construction:** potted/molded

Rotor with Ferrite /NdFeB (Rare earth) magnet

Multi-pip /teeth provision on Cup/ Bush as per requirement

## TECHNICAL SPECIFICATIONS

**Power rating:** 250W to 410W

**Type:** Three phase

**Speed range:** 200 RPM to 10000 RPM

**Rotor OD range:** 118mm to 141mm

**Stator OD range:** 93mm to 106mm

**Max working temperature:** 160°C

**Working condition type:** Wet & dry sump

**Magnet grades used:** Ferrite/NdFeB (rare earth)





# INTEGRATED STARTER GENERATOR

THREE PHASE



Power Output



Signal to ECU/CDI/TCI  
For Spark Ignition



Provide Inertia



Torque For  
Starting Purpose

## FEATURES

**Frame size:** 118mm

**Rotor, Stator pole:** 12, 18 pole

**Three phase construction**

**Pulsar coil construction:** potted/molded

**Rotor magnet:** ferrite /NdFeB (rare earth)

Multi-pip/teeth provision on cup/bush as per requirement

## TECHNICAL SPECIFICATIONS

**Power rating:** 100W to 150W

**Starting average torque:** 2.5 NM to 5 NM

**Lock torque:** 5 NM

**Type:** Three phase

**Speed range:** 200 RPM to 10000 RPM

**Rotor OD range:** 118mm

**Stator OD range:** 93mm to 98mm

**Max working temperature:** 150°C

**Working condition type:** Dry & wet sump



# CAPABILITIES

---



One manufacturing plant



One technical centre



Design validation (CAE / electrical simulations)



NABL accredited lab for product validations



Localized development and manufacturing



Supply to leading 2W & 3W OEMs



## **VARROC CORPORATE OFFICE:**

L-4, MIDC Industrial Area, Waluj,  
Aurangabad - 431 136, Maharashtra, India.  
Phone: +91 240 6653600 / 3700  
E-mail: [varroc.info@varroc.com](mailto:varroc.info@varroc.com)



[varroc.com](http://varroc.com)