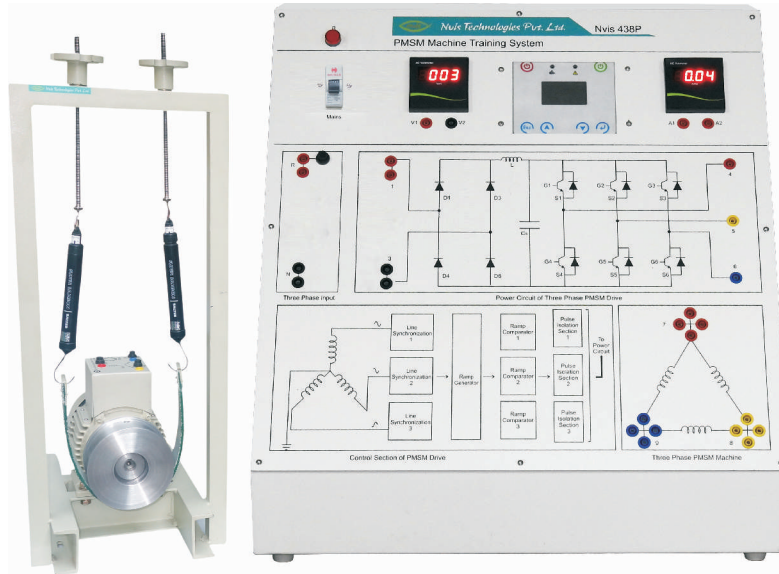




# PMSM Motor Training System

## Nvis 438P



**Nvis 438P PMSM Motor Training System** is an adaptable training solution that has extensively been used for Electrical and Electric Vehicle Laboratories. A Permanent Magnet Synchronous Motor (PMSM) has a higher power density than any other available motors. Due to these advantages, permanent magnet synchronous motors are commonly used in electric vehicles.

Nvis 438P provides a comprehensive learning experience for working of PMSM motor through experiments such as running and reversing, torque-speed characteristics, load characteristics, speed controlling using VVVF technique, etc.

### Features

- Built-in speed measurement
- Built-in operational Drive
- Brake-Drum Pulley with heat suppression facility
- Machine with Mechanical Loading Arrangement
- Diagrammatic representation for the ease of connections
- Designed with all the safety standards

### Scope of Learning

- Study of PMSM Drive and its applications
- Study working of PMSM motor
- Study running and reversing of PMSM motor
- Study load characteristic of PMSM motor

### Technical Specifications

#### AC Machine

|                     |                      |
|---------------------|----------------------|
| Type                | : PMSM Motor         |
| Rating              | : 1HP                |
| Voltage Rating      | : 70V $\pm$ 10%      |
| Rated Speed         | : 2500RPM $\pm$ 7.5% |
| Insulation          | : Class 'H'          |
| Loading Arrangement | : Mechanical         |
| Brake drum/Pulley   | : Aluminum Casted    |

#### AC Drive

|                |                         |
|----------------|-------------------------|
| Input Voltage  | : 90 – 245VAC $\pm$ 10% |
| Output Voltage | : 0 -70VAC $\pm$ 10%    |
| Frequency      | : 0 – 160Hz             |
| Graphical LCD  | : (128 X 64Pixels)      |

#### Digital meter

|                      |                            |
|----------------------|----------------------------|
| AC Voltmeter         | : 1No                      |
| MCB (TPN)            | : 10A                      |
| Optional Accessories | : Single Phase Variac, 10A |

Designed & Manufactured in India by

**Nvis Technologies Pvt. Ltd.**

141-A, Electronic Complex, Pardesipura, Indore-452010, India.

© +91-731-4211500, ✉ info@nvis.tech, 🌐 www.NvisTech.com