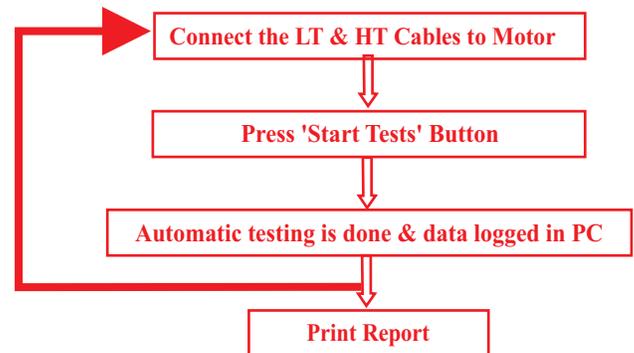


MAT is a fully integrated test suite for testing of 1 / 3 phase Motors of all rating. The suite consists of Test bench, Motor Test Pro – an interface and reporting software, Frquency converter, Torque transducer, Measuring instruments, Variac, Tapping transformer, HV tester, Barcode printer & scanner, Name plate punching machine and Rotor locking mechanism.

With MAT, operator connects test bench leads to Motor. Then he clicks to start tests in sequence. MAT then automatically conducts all the tests and signals completion on the screen. MAT prints report that are in full compliance with IS, IEC & IEEE standards and name plate is automatically punched.

### *Prolific Provides*

- Routine tests setup
- Type tests setup with Regenerative method
- Type tests setup with Dynamometer
- Customized Motor test setup



### *Following tests covered by "Motor Test Pro" software*

SN	Tests	SN	Tests
	<b><i>Routine Tests</i></b>	9	Efficiency Test
1	Measurement of Winding Resistance	10	Friction and Windage Loss Test
2	Measurement of No Load Loss (Lock Rotor Test)	11	Measurement of Starting, Pull Up, Break-Down & Running Torque
3	Measurement of Load Loss	12	Temperature rise test
4	Insulation Test	13	Momentary Overload Test
5	HV Test	14	Reduced Voltage Test
	<b><i>Type Tests</i></b>	15	Over Speed Test
6	No load loss	16	Surge test
7	Winding Resistance Test	17	Noise level test
8	Load test	18	Vibration test

### *Following Graphs are drawn by "Motor Test Pro" Software*

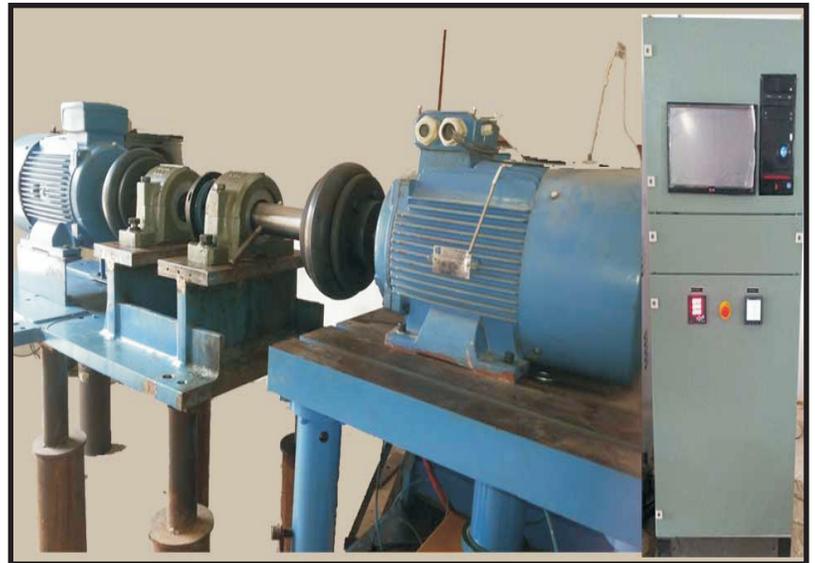
- Output Power Vs Efficiency
- Output Power Vs Speed
- Current Vs Voltage (Magnetization Curve)
- V<sup>2</sup> Vs Power
- Torque Vs Speed
- Current Vs Speed
- Temperature Rise Graph

## ***Benefits of MAT***

- 1) The regenerative test system is cost effective solution and offers significant energy savings compared to other conventional methods.
- 2) Automated data acquisition ensures error free data logging and assists in carrying out statistical analysis of test results.
- 3) It allows users to easily store and retrieve data with simple but intuitive graphical user interface.
- 4) It increases testing accuracy, productivity significantly by reducing test preparation time, testing process time and report generation time
- 5) Because of fixed cabling with instruments, MAT eliminates the subsequent cable connection time.

## **Instruments & Sensors covered in MAT**

<b>Sr. No.</b>	<b>Instruments &amp; Sensors</b>
1	Resistance meter
2	Insulation & HV tester
3	Barcode printer & scanner
4	Power analyser
5	Torque transducer
6	Temperature sensor
7	Vibration sensor
8	Noise level meter
9	Frequency converter



## ***Existing users of MAT***

- 1) Crompton Greaves Ltd, Goa
- 2) Deleum Rotary Services Sdn. Bhd, Malaysia
- 3) Rotomotive Powerdrives India Ltd, Anand
- 4) Amber engineering enterprise, Rajkot
- 5) EMR Engineering Services Sdn Bhd, Malaysia

# **PROLIFIC SYSTEMS & TECHNOLOGIES PVT LTD.**

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