

JAQUET TACHOMETER (MECHANICAL RPM INDICATOR)



Introduction:

- A Jaquet Tachometer is a precision instrument used to measure rotational speed (RPM) of machines, engines, and turbines.
- It is a mechanical, handheld device that operates without electrical power.
- Widely used in industrial applications, railways, and early automotive engineering.



Historical:

- Developed by **Jaquet**, a Swiss company specializing in speed measurement devices.
- Used extensively in the early 20th century for measuring the performance of steam engines, electric motors, and turbines.
- Mechanical tachometers like this were critical for monitoring speed before the advent of digital measurement tools.
- The company Jaquet Instruments later evolved into Jaquet Technology Group, now part of TE Connectivity.



JAQUET TACHOMETER (MECHANICAL, RPM INDICATOR)

Working Principle:

Specifications:

- **Type**: Ana-log mechanical tachometer.
- Measurement Range: Typically 0-8000 RPM, depending on model.
- Operation: Uses a spring-loaded mechanism and pointer dial to display speed.
- Components : Main dial with a needle indicator (shows RPM).
- Push button for measuring speed.
- Interchangeable tips for attaching to rotating shafts.
- Protective case with red velvet lining for safekeeping.

- The tachometer is pressed against a rotating shaft.
- The friction causes the internal mechanism to engage and measure the rotational speed.
- The speed is displayed on the analog dial in RPM (Revolutions Per Minute).
- After measurement, a built-in **stop mechanism** holds the reading for easy observation.

Applications:

- Railway and Locomotives: Checking the speed of steam and diesel engines.
- Industrial Machinery: Monitoring motor and turbine speeds in factories.

Features:

- **High Accuracy** Provides **precise RPM readings** for various rotating machinery.
- Push-Button Measurement Simple operation using a press-and-hold button for accurate speed detection.
- Durable Build Made with high-quality metals and precision-engineered parts for longevity.
- Versatile Applications Used in railways, power plants, automobiles, and industrial machinery.

- Automotive Testing: Used by mechanics for engine tuning and diagnostics.
- **Power Plants**: Checking **turbine RPM** for efficiency and safety.

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