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## Main Features

- ♦ Rotor kit includes motor, coupling, balancing disk, gear reducer, blower, tachometer and motor speed controller
- ♦ Customized bearing housing
- ♦ Equip with real blower
- ♦ Aluminum alloy foundation
- ♦ Disconnect coupling easily to compare the vibration behavior between different load
- ♦ Dynamic balancing simulation
- ♦ Misalignment simulation

## Product Overview

NEXCOM Predictive Diagnostic Maintenance (PDM) solution kit is the education/training kit for the predictive maintenance for rotary machinery. It includes the rotor kit, vibration sensors, digital signal processing module, PLC, the IoT gateway with vibration predictive/analysis software function. The rotor kit is designed as similar as the exact machinery. Users can use the rotor kit to simulate the unbalance, shaft alignment, variable loading to monitor the bearing, shaft, motor, gear box behavior to learn how to analyze the machine situation. The IoT gateway with the predictive/analysis software can help use to learn how to implement the IoT communication technology for the PDM application.

## PDM Rotor Kit Specifications

### Gateway

- ♦ CPS200, Industrial IoT Edge Gateway, J1900, 4GB RAM,
- ♦ 128GB SSD, Fieldbus

### OS

- ♦ Windows 10 IoT Enterprise T

### Display

- ♦ APPD-1205T, 12.1" IP65 Industrial 4:3 XGA LCD Flush Touch
- ♦ Monitor

### Power Induction Motor

- ♦ 60 W, 110 V, single phase

### Maximum Speed

- ♦ 1750 rpm (with 60Hz power)

### Total Assembly Weight

- ♦ 9.6kg

### Total Dimension

- ♦ 780x500x220 (mm^3)

### Bearing

- ♦ SKF 16101-2Z for shaft at balancing disk and blower

### Gear Reducer

- ♦ Total gear ration: 5.7:1
- ♦ 1st stage gear ratio 11T:50T
- ♦ 2nd stage gear ratio 24T:30T

### Blower

- ♦ 45 pieces of blade

### Controller

- ♦ CompactLogix 750KB DI/O Controller

### Dynamic Measurement Module

- ♦ CompactLogix Device Net Scanner Module
- ♦ Ordering Information

## Ordering Information

### ♦ CPS PDM\_Rotor\_W

Please contact Sales Department for the detail information