

# HEINS FM SERIES

Balancing Equipment



## Heins FM Series

balancing machines provide

fast, accurate balancing of a

wide variety of rotors.

## Features:

- Fast, easy machine setup and operation.
- Extremely accurate-vibrations smaller than .0000015" can be easily detected.
- No special foundation required.
- No special tooling required for most rotors.
- Available options allow machine to be customized for a wide variety of applications.





# ACCURATE BALANCING QUICKLY AND EASILY!

## Fast, Easy Setup for Virtually any Rotor.

Machines can accept a wide variety of workpieces. Mechanical supports can quickly be adjusted for different parts. Electronics can be quickly set up for any rotor configuration.

## Tracking Filter.

Follows workpiece speed, eliminating problems caused by workpiece speed variations. Tachometer provides constant readout of workpiece RPM.

## Reliable State of the Art Electronics.

CMOS design provides extremely high degree of accuracy and durability, even in the harshest environments. Heavy duty industrial grade components are used throughout the machine.

## Complete Spare Parts Kits.

All Heins Balancing Machines are shipped with a set of spare parts at no extra charge. Kit helps keep the machine running and eliminates waiting for spares.

## Unsurpassed Sensitivity.

Heins FM Series balancing machines can balance parts closer with better resolution. Parts requiring a very high degree of final balance can be done faster and easier on a Heins. FM Balancers can read vibrations smaller than 1.5 microinches.

## Flexible Readout Options.

Analog or digital readouts are available for the machine.

SPECIFICATIONS	FM-50	FM-50-200	FM-100	FM-200	FM-500
SAE Machine Class	10/30	10/30/100+	30/100	100+	300+
Workpiece Weight Range	1/2 oz to 50 lbs.	1/2 oz to 250 lbs.	12 oz. to 100 lbs.	5 lbs. to 250 lbs.	10 lbs. to 500 lbs.
* Max. Swing Diameter	24 Inches	24 Inches	24 Inches	24 Inches	25 Inches
* Max. Distance Between Bearings	40 Inches	40 Inches	40 inches	40 Inches	50 Inches
Min. Distance Between Bearings	1 Inch	1 inch	2 inches	2 inches	4 Inches
* Workpiece Journal Dia. Range	1/4 - 2 1/2 inches	1/4 - 4 inches	1/4 - 2 1/2 inches	3/8 - 4 inches	1/2 to 8 Inches
Max. Workpiece Drive Diameter	12 Inches	12 Inches	12 inches	12 inches	16 Inches
Sensitivity (P.P.)	0.000,001"	0.000,001"	0.000,001"	0.000,001"	0.000,003"
Balancing Speed Range (RPM)	250-20000	250-20000	250-20000	250-20000	250-20000
Motor Drive (D.C. Permanent Magnet)	1.0 H.P.	1.5 H.P.	1.0 H.P.	1.5 H.P.	5 H. P.
Power Requirements (60 Hz 1Ø)	10A @ 120V	20A @ 240V	15A @ 120V	20A @ 240V	25A @ 240V
Overall Dimensions (Inches)	72W x 48H x 36D	72W x 48H x36D	72W x 48H x36D	72W x 48H x36D	84W x 48H x36D
Approximate Shipping Weight	950 Pounds	1250 Pounds	1000 Pounds	1100 Pounds	1600 Pounds

\* Optional Ranges Available

**Heins Balancing Machines are engineered to be fast and easy to use even in the most specialized applications.**