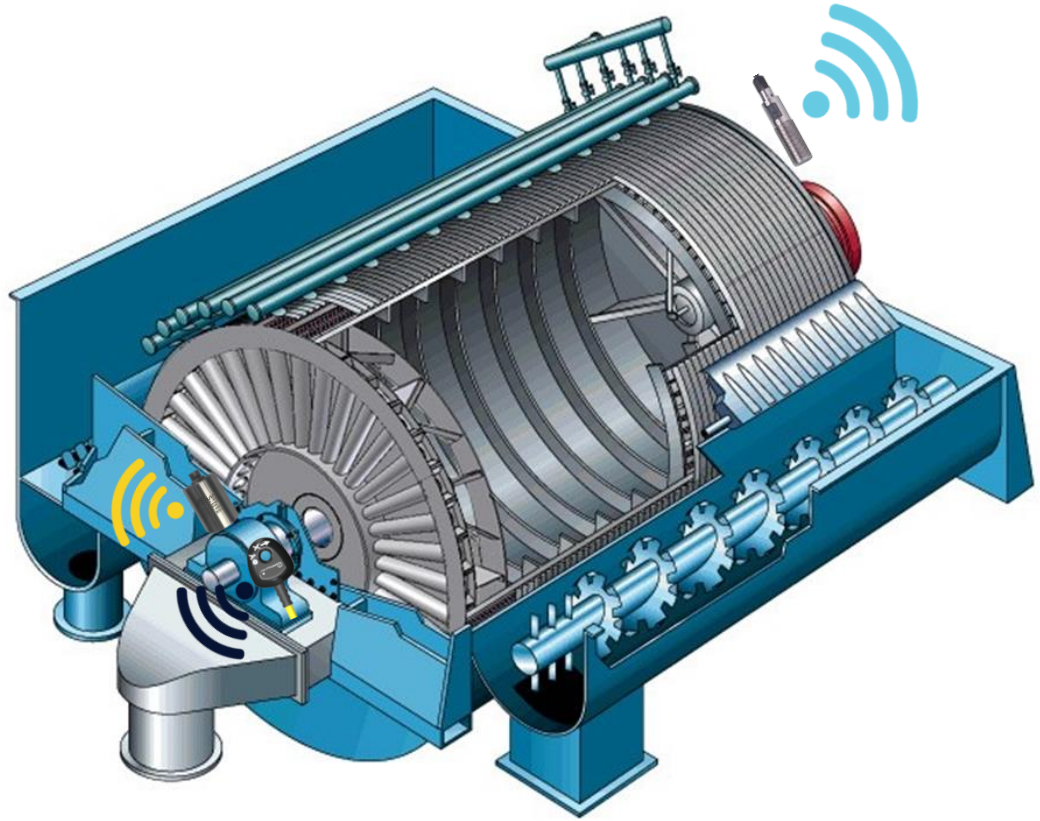
SLOW-SPEED
AVAILABLE TECHNOLOGY

KCF technologies

	SOLUTION	CONDITIONS DIAGNOSED
GOOD	Vibration	Stages 3 and 4 bearing wear, inner race, outer race, roller, and cage faults, late-stage lubrication failure
BETTER	Speed	Timing of vibe faults, resonance
BEST	Ultrasonic (surface)	Stages 1 and 2 bearing wear, contamination, inner race, outer race, roller, and cage faults, early-stage lubrication failure



APPLICATIONS: Washer Drums, Drier Drums, Lime Kilns, Agitators

SLOW-SPEED

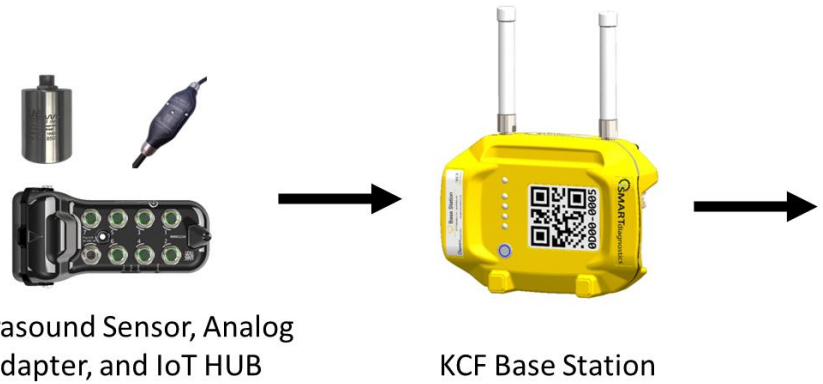
TECHNOLOGY DETAILS

EARLY-STAGE BEARING WEAR

THE SOLUTION:

KCF's ultrasound sensor can be used to detect the following, especially on slow-speed bearings:

- ✓ Stages 1 and 2 wear
- ✓ Contamination
- ✓ Inner and outer race faults
- ✓ Roller faults
- ✓ Cage faults
- ✓ Early-stage lubrication failure



Ultrasound Sensor, Analog Adapter, and IoT HUB

KCF Base Station

THE PROOF:

- ✓ Run-speed peaks of 20 RPM (0.33 Hz) are easily detected in the time domain, along with higher-frequency bearing peaks between them.