

INSTRUCTION MANUAL  
MODEL 3260  
CONSTANT SPEED MIXER  
(Original Instructions)

Revision J – October 2015  
P/N: 3260-1050

S/N: \_\_\_\_\_



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# General Information

## Introduction

### *Purpose and Use*

The Chandler Engineering Model 3260 Constant Speed Mixer is designed to provide mixing of cement slurries in accordance with API Specification 10. The mixer features a digital speed control and display with a built-in tachometer and programming capabilities. The built-in programs are set for mixing speeds of 4,000 and 12,000 RPM for use with the 1-liter cup. Alternately, the mixing speed may be adjusted manually via the built-in keypad. As the load varies, the speed control maintains the speed of the motor at the preset speeds.

The control enclosure is mounted below the mixing cup and motor for ease of use and display of the mixing speed.




## Features and Benefits

- CE certified.
- Constant speed operation is easily observed by the digital display.
- Hardened mixing blades assure long life.
- Four pre-programmable constant speeds, with two pre-programmed speeds (4,000 and 12,000 rpm). The preset speeds can be easily changed to any value between 1,000 and 20,000 rpm for applications outside API Spec 10.
- Push button selection of variable speed allows mixing of shear-sensitive materials at desired speed.
- One continuous variable speed (1,000 to 20,000 rpm).
- Stainless steel container can withstand abrasive action when mixing cement at high speeds.
- Heavy-duty industrial-grade mixer assures its trouble-free and long life operation.
- No variation in thickening time test due to changes in shear rate.
- Operator can quickly select API speeds while adding cement to mixer.

# Specifications

<b>Input Voltage</b>	<b>(Model 3260-110V):</b>	120 VAC
	<b>(Model 3260-220V):</b>	230 VAC
<b>Input Current</b>	<b>(Model 3260-110V):</b>	13A
	<b>(Model 3260-220V):</b>	6.5A
<b>Frequency:</b>		50/60HZ, 1 PHASE
<b>Environment:</b>		Indoor Use
<b>Altitude:</b>		2000 m
<b>Temperature:</b>		5 – 40 °C
<b>Maximum Relative Humidity:</b>		80 % for temperatures up to 31 °C decreasing linearly to 50 % at 40 °C
<b>Maximum Operating Cycle:</b>		1 minute ON / 3 minutes OFF
<b>Container Material:</b>		Stainless steel
<b>Maximum Speed:</b>		20,000 rpm
<b>Speed Selection Switch:</b>		Integral keypad to quickly select the desired speed
<b>Constant Speeds:</b>		Four independently adjustable speeds over a wide range of rpm, adjusted by Chandler to 4,000 and 12,000 rpm (per API Spec 10)
<b>Adjustable Speeds:</b>		From 1,000 to 20,000 rpm
<b>Display:</b>		Speed is displayed directly in rpm
<b>Cabinet:</b>		Stainless steel
<b>Container Volume:</b>		1 quart (1-liter)
<b>Dimensions:</b>		17" (43 cm) high x 9" (23 cm) wide x 10" (25 cm) deep
<b>Net Weight:</b>		15 lbs (7 kg)

# Symbols Used on Equipment

Symbol	Meaning
	Protective Conductor Terminal
	Documentation must be consulted in all cases where this caution symbol is marked.
	Hot Surface

# Safety Requirements

## ***READ BEFORE ATTEMPTING OPERATION OF INSTRUMENT***

The Chandler Engineering Model 3260 Constant Speed Mixer is designed for operator safety.

To ensure safety:

- If the instrument is not used in accordance to this manual, the safety of the instrument may be impaired.
- Locate the instrument in a low traffic area and ensure the cooling vent is not obstructed.
- Always position the instrument in such a manner that allows easy access to the power cord.
- Post signs where the instrument is being operated to warn non-operating personnel.
- Read and understand instructions before attempting instrument operation.
- Observe caution notes.
- Observe and follow the warning labels on the instrument.
- Always disconnect main power to the instrument before attempting any repair and before cleaning.
- Appropriately rated fire extinguishers should be located within close proximity.
- Avoid contact with moving parts.
- Don't remove container lid while operating the mixer.
- Don't remove the container while the motor is running.
- Always wear hearing protection when operating the mixer.

Before attempting to operate the instrument, the operator should read and understand this manual.

## Where to Find Help

In the event of problems, contact your local sales representative or Chandler Engineering:

- Telephone: 918-250-7200
- Fax: 918-459-0165
- E-mail: [chandler.sales@ametek.com](mailto:chandler.sales@ametek.com)
- Website: [www.chandlereng.com](http://www.chandlereng.com)

Instrument training classes are also available.

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# Section 1 – Installation

## Unpacking the Instrument

The following components are included with the complete 3260 system:

- Mixer base
- Viton 1 Liter cup adapter
- Mixer drive shaft
- Mixer cup (1-Liter) with lid

Accessories supplied with instrument (check against accessory list inside the packing).

*NOTE: Verify all parts listed on packing slip have been shipped with instrument. If parts are missing, contact Chandler Engineering.*

## Utilities Required

Model 3260-110V:	120 VAC
Model 3260-220V:	230 VAC

## Tools/Equipment Required

None required

## Setting up the Instrument

1. Install the rubber adapter over the adapter shaft.
2. Install the cup into the rubber adapter.
3. Connect the power cord from the mixer base to an appropriately rated power source in accordance with local wiring codes.

*CAUTION: Wear hearing protective when using the mixer.*

*CAUTION: Check your power supply against your Model 3260 system power rating. Damage can occur if incorrect line voltage is applied.*

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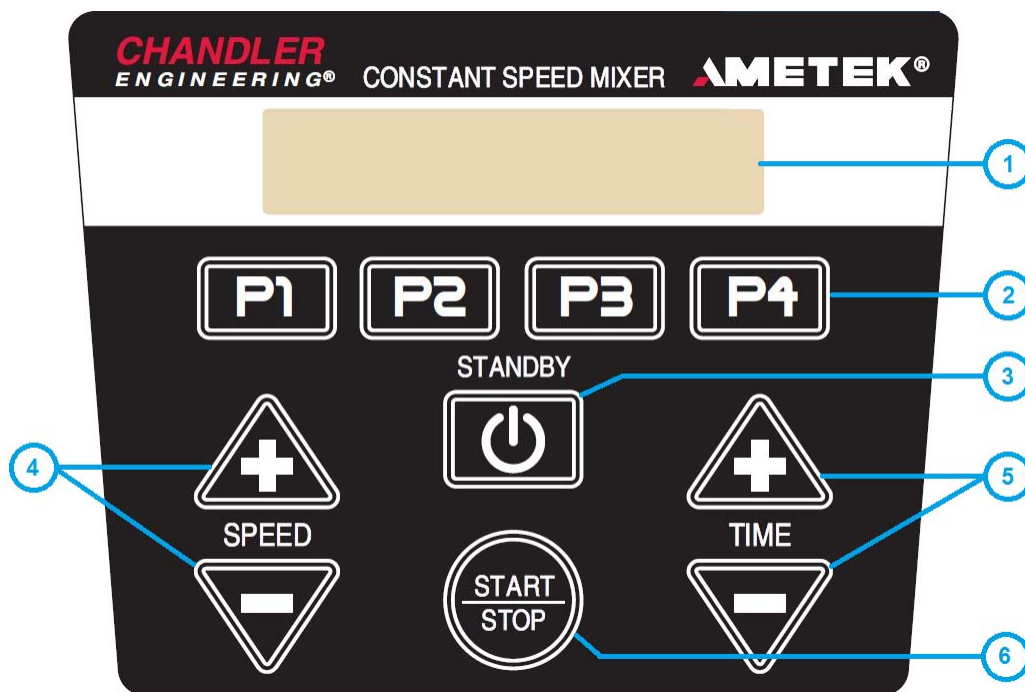
# Section 2 – Operating Instructions

## Operation

The control enclosure includes four speed control buttons (P1-P4) located just below the display. P1 is preset at 4,000 RPM, P2 is preset at 10,000 RPM and P3 is preset at 12,000 RPM. P1 thru P4 may be programmed for any speed or sequence of speeds from 1,000 to 20,000 RPM. Refer to the *Maintenance* section of this manual for additional information on how to reprogram the functionality of buttons P1 thru P4.

When a program button (P1 thru P4) is pressed, a built-in timer is used to preset the mixing time interval. When the selected time has elapsed, the motor will turn off. Alternatively, starting the mixer via the Start/Stop button allows the speed to be manually controlled via the Speed +/- buttons for continuous operation of the motor.

### Front Panel Description



1. LCD Display – Displays current speed, mixing time and allows setup, programming, etc.
2. Program Buttons – Allows the mixer to operate at preset speeds for preset time intervals. Factory default settings are as follows:
  - a. P1 – 4,000 RPM (15 seconds maximum)
  - b. P2 – 10,000 RPM (35 seconds)
  - c. P3 – 12,000 RPM for 35 seconds.
  - d. P4 – 12,000 RPM for 35 seconds
3. Power On/Off (Standby) Button – Turns the power on/off.
4. Manual Speed Control Buttons – Controls the mixer speed. If idle, the Start/Stop button must be pressed to run at the prescribed manual speed.

5. Time +/- Buttons – Used for configuring the mixer and setting program parameters.
6. Start/Stop Button – Stops the mixer if it is currently running. Starts the mixer in manual speed control mode if it is currently stopped.

### **Mixing a Cement Slurry**

*CAUTION: Wear eye protection when using the mixer.*

1. Measure the amount of water and pour into the mixer cup.
2. Using a scale, measure the amount of cement.
3. Turn the power/standby switch to on (LCD display illuminated).
4. Press the P1 button. The motor will operate at 4,000 RPM.
5. Add the measured cement into the mixer cup as the water is mixed.
6. Replace the mixer cup cover and press the P3 button to increase the motor speed to 12,000 RPM. The motor will turn off when the timer countdown has ended.

*NOTE: Mixer should run for 15 seconds at low speed (4,000 RPM) and for 35 seconds at high speed (12,000 RPM) in accordance with API Specification 10.*

*WARNING: Following operation, the mixer cup could be hot. Always use a protective thermal glove to grip the handle to prevent burns.*

### **Resetting Thermal Protection**

- The 3260 Mixer is equipped with an automatic reset switch to protect the motor from overheating.
- If the mixer stops running due to heavy use, push the “STANDBY” button and unplug the power cord. Empty the mixer cup and allow approximately 5 to 10 minutes for the motor to cool down.
- Plug the power cord back into the outlet and continue mixing.
- If the 3260 mixer does not function properly following this procedure, discontinue use and contact a Chandler Engineering Technical Sales representative.

# Section 3 – Maintenance

## Tools Required

Basic hand tools.

## Cleaning and Service Tips

Most of the problems that occur with the 3260 mixer motor are due to inadequate cleaning of the mixing blade assembly. If the blade assembly becomes contaminated with cement, the assembly will bind and cause the motor to over heat. The blending assembly, mixing cup and mixer base should be thoroughly cleaned after each use. *As long as the cement doesn't set up, the blending assembly, mixing cup and mixer base can be washed with soapy water using Dishwashing liquid. Rinse with water and dry thoroughly.*

### ***Blending Assembly (if it is necessary to remove from cup):***

- *Remove from mixing cup. NOTE: Blades are sharp. Handle with care.*
- *Wash using soapy water.*
- *Ensure all cement has been removed.*
- *Rinse with water and dry thoroughly.*

### ***Mixing Cup:***

- *Remove mixing cup from mixer base.*
- *Remove lid.*
- *Wash lid and mixing cup using soapy water. NOTE: If Blending Assembly hasn't been removed, the blades are sharp. Handle with care.*
- *Ensure all cement has been removed.*
- *Rinse with water and dry thoroughly.*

### ***Mixing Base:***

- *Unplug power cord.*
- *Remove mixing cup from mixer base.*
- *Wipe down exterior surfaces of mixer base with soft cloths or sponges dampened with soapy water. Prevent liquid from running into mixer base.*
- *Allow mixer base to air-dry before using.*

## Calibration Procedure

The mixing speed can be checked using a traceable tachometer.

## Maintenance Procedures

### **Changing the Blade Assembly**

To change the blade assembly, follow the procedure below:

1. Remove the nut on the bottom outside with a 7/8" socket, pull the blade assembly through the cup.
2. Remove the small "acorn" nut with a 3/8" wrench.
3. Replace blade with a new one.
4. Tighten acorn nut onto new blade.
5. Reinsert the blade assembly through the cup.
6. Tighten the nut on the bottom outside.

### **Changing a Program (P1 – P4)**

The mixer is equipped with four program buttons (P1-P4), which can be reprogrammed for any speed and mixing time. A program can have from one to three sequential steps, each consisting of a mixing speed and timer count.

1. To enter program mode, press the Speed +/- buttons simultaneously for several seconds.
2. Press the program button to be reprogrammed (P1-P4).
3. Select a speed using the Speed +/- buttons.
4. Press the Start/Stop button.
5. Select a mixing time using the Time +/- buttons.
6. Press the Start/Stop button.
7. To assign more speeds to be executed in sequence, repeat steps 3 thru 6.
8. To save the program and exit programming mode, press and hold the Speed +/- buttons simultaneously.

### **Adjusting Operational Parameters (Advanced)**

The mixer is equipped with factory default values for all operational parameters, which have been carefully selected for optimal operation of the unit. Although instructions for doing so are included here, it is generally not required or recommended to change these values.

1. To enter configuration mode, press the Time +/- buttons simultaneously for several seconds.
2. A parameter list will appear. To scroll through the list, use the Speed +/- buttons.
3. To select a parameter, use the Start/Stop button.
4. To adjust the value of the selected parameter, use the Speed +/- buttons.
5. To accept the new value, press the Start/Stop button.
6. The parameter list will reappear. To scroll through the list and select other parameters, use the Speed +/- keys.

7. To save the new settings and exit configuration mode, press and hold the Time +/- keys simultaneously.

The available parameters for adjustment are listed below, along with their factory default values.

- Speed Pb Value (Proportional band for PID control loop) – 29490
- Speed Ti Value (Integral/reset time for PID control loop) – 3277
- Speed Td Value (Derivative time for PID control loop) – 6553
- ACCELERATION – 2,000 RPM/sec
- DECELERATION – 20,000 RPM/sec

# Maintenance Schedule

MAINTENANCE SCHEDULE INSTRUMENT NAME					
COMPONENT	EACH TEST	MONTHLY	3 MONTHS	6 MONTHS	ANNUAL
Blending Assembly	Clean and Inspect for wear and leaks				
Mixing Cup	Clean				
Control Base	Clean				
Mixer Motor	Clean				
Blending Blade				<ul style="list-style-type: none"> <li>● Inspect and Replace Blending Blade (10% or greater weight loss may result in a thickening time change of 10% or greater)</li> </ul>	
O-Ring	Inspect and replace if broken				
<p>This maintenance schedule applies to normal usage of two tests per day. Detailed procedures for these operations are contained in your manual.</p> <ul style="list-style-type: none"> <li>● Per API Specifications</li> <li>σ Where Applicable</li> </ul>					



## Section 4 - Replacement Parts

<b>Part Number</b>	<b>Description</b>
30-0048	Blending Assembly
30-0049	Hardened Blade
30-0056	Container
30-0180	Adapter, Mixer Base, 1 Liter
30-0210	Mixer Base, 110V
30-0211	Mixer Base, 220V
30-0228	Drive Clutch Assembly, 1L Mixer
P-1798	O-ring

To ensure correct part replacement, always specify Model and Serial Number of instrument when ordering or corresponding.

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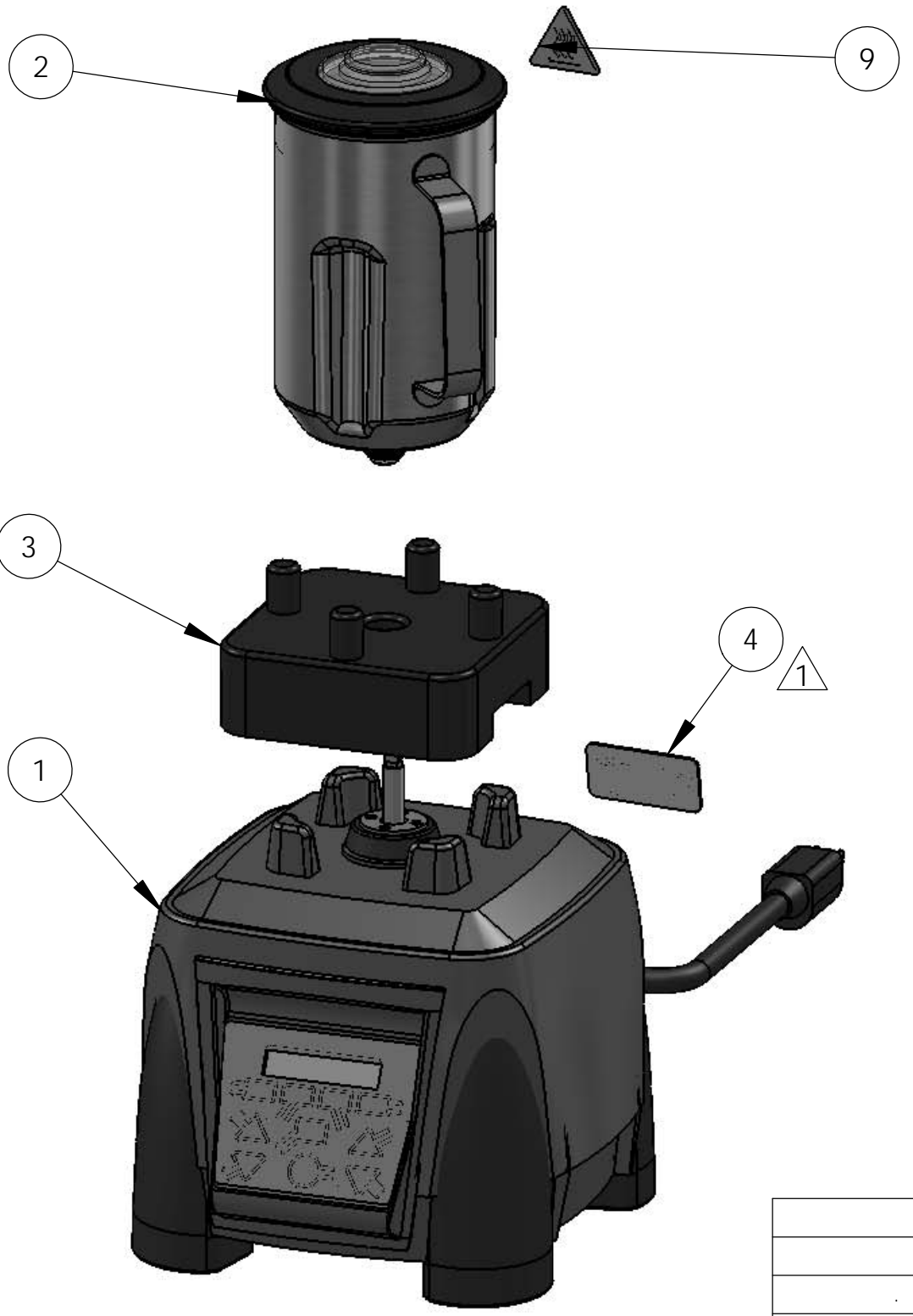
## Section 6 - Drawings and Schematics

Drawing Number	Description
3260-110V	Mixer, 1-QT, 110V
3260-220V	Mixer, 1-QT, 220V
30-0228	Drive Clutch Assembly, 1L Mixer
N/A	Declaration of Conformity

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8 7 6 5 4 3 2 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	ECN T5559' ADDED MANUAL	10/9/13	TC
	F	ECN T5688; ADDED C15746	1/3/14	TC
	G	ECN T6587; UPDATED ASSEMBLY VIEW	4/13/15	TC



**NOTES:**  
 1. STAMP LABEL WITH SERIAL NUMBER AND DATE.  
 2. TEST PER PROCEDURE 30-0224.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	30-0210	BASE, MIXER, 110V	1
2	30-0056	CONTAINER	1
3	30-0180	ADAPTER, BASE, MIXER, 1L, VITON	1
4	30-0214	LABEL, MIXER, 120V	1
5	3260-ACCESS	ACCESSORIES, 3260	1
6	30-0224	TEST PROCEDURE	REF
7	30-0225	PROC: FIRMWARE UPDATE	REF
8	3260-1050	MANUAL, 3260	1
9	C15746	LABEL, HOT SURFACE HAZARD, INT'L	1
10	3260-110V-LABEL	LABEL PLACEMENT, MIXER	REF

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	
TOLERANCES:	
1 PLACE	±0.030
2 PLACE	±0.010
3 PLACE	±0.005
ANGLES	±1/2°
SURF. FINISH	32/
NEXT ASSY	USED ON
APPLICATION	
<b>BREAK SHARP EDGES, DEBURR</b>	
APPROVALS	DATE
DRAWN: TRB	7/3/12
CHECKED: JF	7/10/12
ENGR.: TRB	7/3/12

**CHANDLER ENGINEERING**

TITLE: MIXER, 1-QT, 110V

SIZE: B      DWG NO.: 3260-110V      REV. G

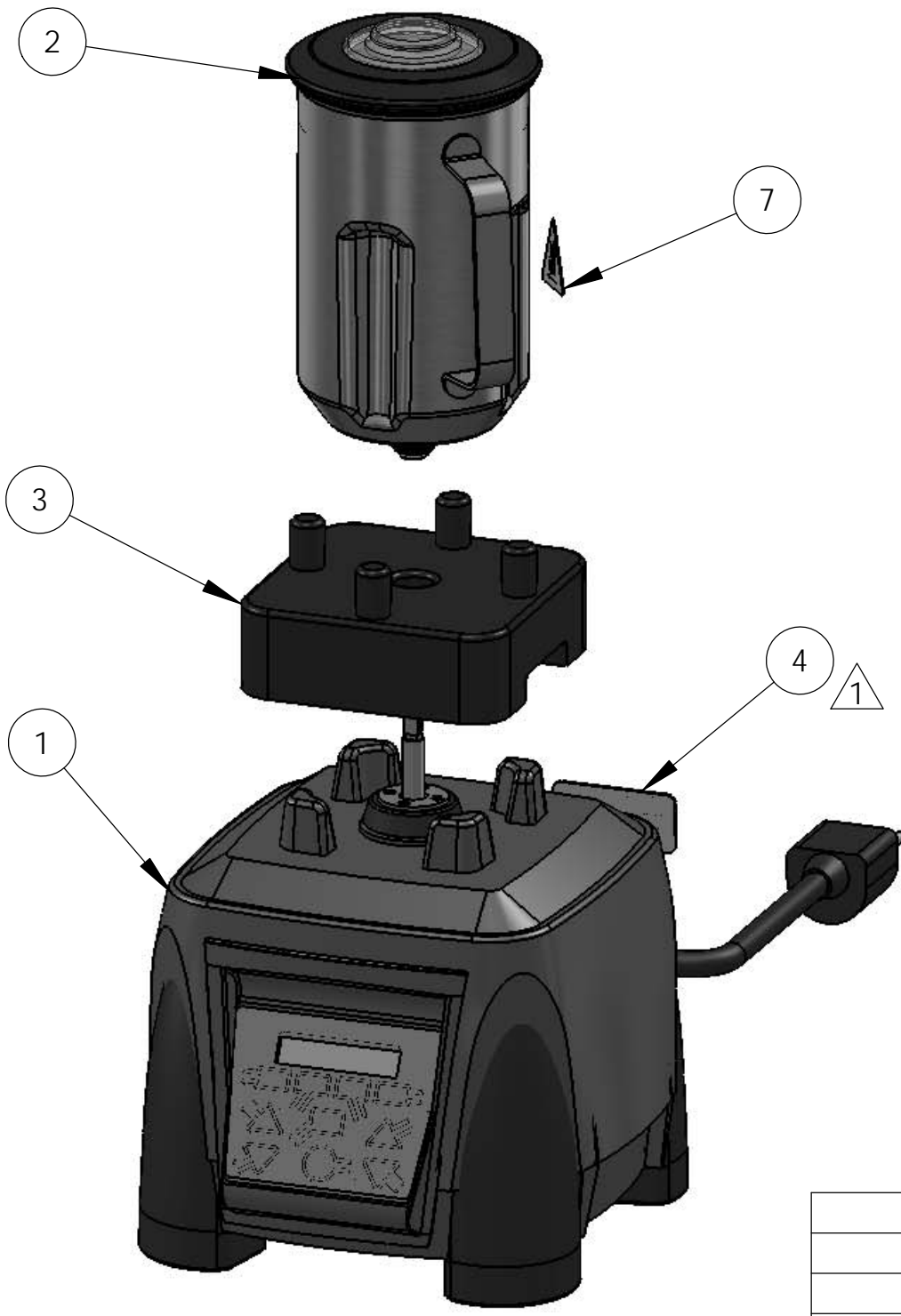
SCALE: 1:3      TITLE BLOCK REV: 2.0      SHEET: 1 of 1

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8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	ECN T5481; ADD 30-0225	8/16/13	TC
	F	ECN T5559; ADDED MANUAL	10/9/13	TC
	G	ECN T6587; UPDATED ASSEMBLY VIEW	4/13/15	TC



**NOTES:**  
 1. STAMP LABEL WITH SERIAL NUMBER AND DATE.  
 2. TEST PER PROCEDURE 30-0224.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	30-0211	BASE, MIXER, 220V	1
2	30-0056	CONTAINER	1
3	30-0180	ADAPTER, BASE, MIXER, 1L, VITON	1
4	30-0215	LABEL, MIXER, 230V	1
5	3260-ACCESS	ACCESSORIES, 3260	1
6	30-0224	TEST PROCEDURE	REF
7	C15746	LABEL, HOT SURFACE HAZARD, INT'L	1
8	3260-220V-LABEL	LABEL PLACEMENT, MIXER	REF
9	30-0225	PROC: FIRMWARE UPDATE	REF
10	3260-1050	MANUAL, 3260	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	
TOLERANCES:	
1 PLACE	±0.030
2 PLACE	±0.010
3 PLACE	±0.005
ANGLES	±1/2°
SURF. FINISH	32/
NEXT ASSY	USED ON
APPLICATION	
<b>BREAK SHARP EDGES, DEBURR</b>	
APPROVALS	DATE
DRAWN: TRB	7/3/12
CHECKED: JF	7/10/12
ENGR.: TRB	7/3/12

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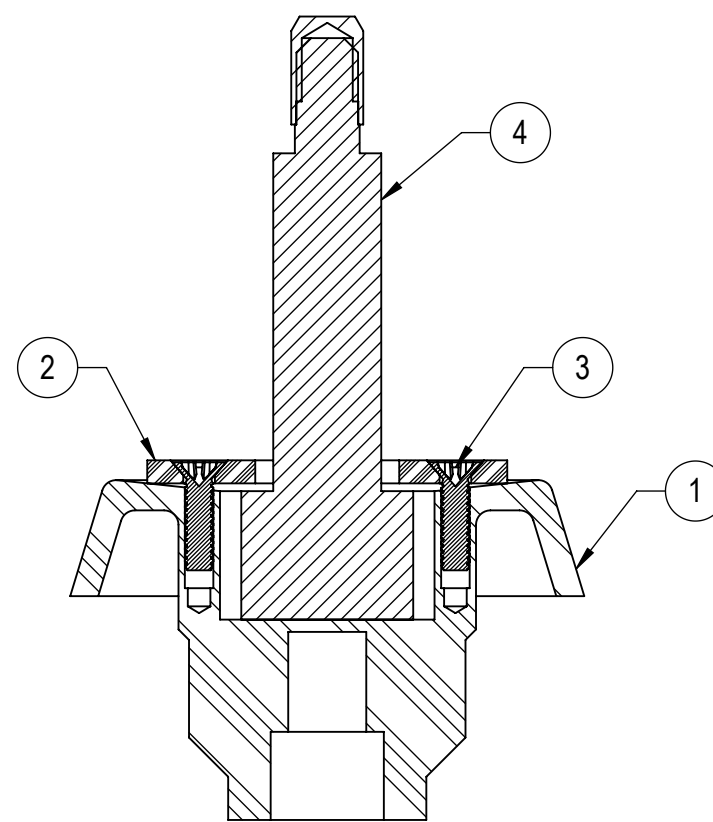
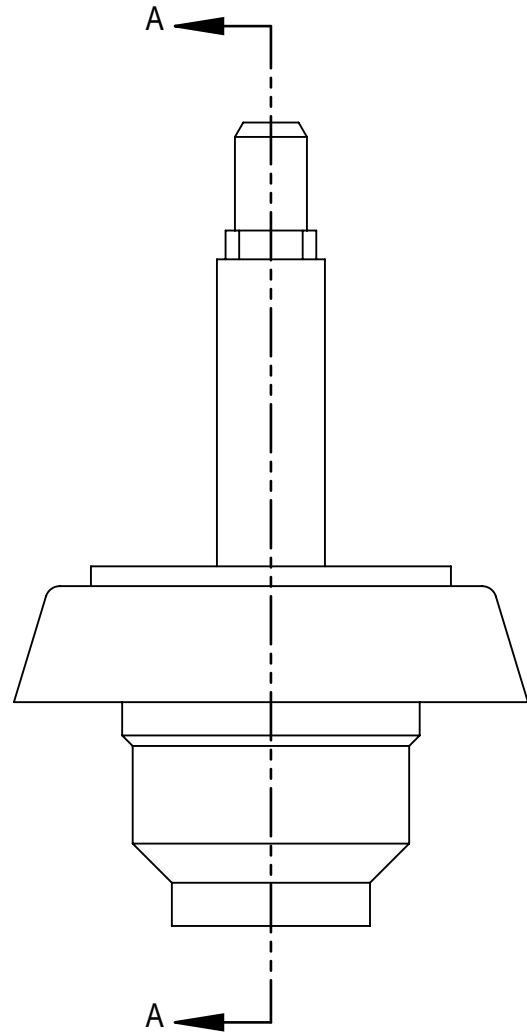
TITLE: MIXER, 1-QT, 220V

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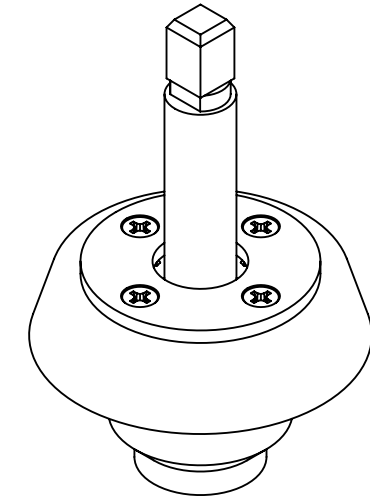
SIZE: B	DWG NO.: 3260-220V	REV.: G
SCALE: 1:3	TITLE BLOCK REV: 2.0	SHEET: 1 of 1

8 7 6 5 4 3 2 1

REV	DESCRIPTION	DATE	APPROVED
A	ISSUED	3/25/15	CAC/ES



SECTION A-A



ITEM	PART NUMBER	DESCRIPTION	QTY
1	30-0226	MODIFIED DRIVE CLUTCH, WARING	1
2	30-0227	RETAINER, WASHER, DRIVE CLUTCH	1
3	H-3006	SCREW, FHMS, SS, 3-48X0.375, PHIL	4
4	30-0206	DRIVE ASSY, MIXER, 1L	1

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BREAK EDGES, DEBURR  
 UN DIMS ARE IN INCHES  
 1 PLC ±0.030 2 PLC ±0.010  
 3 PLC ±0.005 ANGL ±1/2°  
 SURFACE FINISH 63 RMS  
 THIRD ANGLE PROJECTION

DRAWN: CAC 3/20/2015  
 MFG: GJG 3/26/2015  
 ENGR: CAC 3/25/2015  
 TYPE:  
 STRUCT:

**CHANDLER ENGINEERING**  
 DRIVE CLUTCH ASSEMBLY, 1L MIXER  
 PN: 30-0228  
 PROJ: Imported Data Set  
 REV A SIZE B  
 SHEET 1 OF 1



## Declaration of Conformity

**Manufacturer's Name:** Chandler Instruments Company L.L.C.  
**Manufacturer's Address:** 2001 North Indianwood Avenue  
Broken Arrow, Oklahoma 74012

*Declares that the product:*

**Product Name:** Constant Speed Mixer  
**Model Number:** 3260

*Conform to the following standards:*


### **EMC Directive 2004/108/EC**

EN 61326-2-1	Conducted Emissions (Mains port), Class A
EN 61326-2-1	Radiated Emissions, Class A
EN 61000-4-2	Electrical Discharge, Criteria A
EN 61000-4-3	Radiated Electromagnetic Field, Criteria A
EN 61000-4-4	Electrical Fast Transients / Burst, Criteria B
EN 61000-4-5	Surge Immunity, Criteria A
EN 61000-4-6	RF Conducted Immunity, Criteria A

### **Low Voltage Directive 2006/95/EC**

EN 61010-1	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
EN 61010-2-051	Particular Requirements for Laboratory Equipment for Mixing and Stirring

### **Machinery Directive 98/37/EC**

  
\_\_\_\_\_  
Dean Dorris  
Director of Engineering  
Ametek, Chandler Engineering

*Aug. 12, 2013*  
\_\_\_\_\_  
Date







# CHANDLER ENGINEERING

## Model 3260

### **CONSTANT SPEED MIXER**

#### **Sample Preparation for Oil Well Cement Testing**

The first steps of any test procedure have the ability to significantly impact the final results. This is true for oil well cement where detailed testing by the API has proven that the methods of mixing cement slurries will significantly effect their thickening time. Because of this, the API has defined accepted practices for mixing cement slurries.

Chandler Engineering has developed the Models 3260. Constant Speed Mixers for blending cement slurry in compliance with the API's 10A/B. These mixers are engineered to operate at constant speeds thereby mixing the slurry at an automatically-maintained, stable, constant shear rate.

These high performance mixers are designed for heavy duty industrial applications and long life. They are equipped with heavy duty motors, stainless steel mixing vessels and hardened long-life mixing blades. An additional shaft seal and special electronic circuitry are added to the mixer motor assembly to ensure its reliability. A large, stable base ensures that the mixer stays in-place during operation.

#### **Operational Simplicity**

The Model 3260 is extremely simple to operate with three speed control selections. API specific speeds are preset and factory calibrated. These mixers also have a continuously variable speed control function which is adjustable across the entire rpm range.

The Model 3260 is provided with a one quart (liter) mixing vessel.



### **FEATURES**

- ✓ *Push Button Simplicity*
- ✓ *Two Factory-Set Speeds and a Continuously-Adjustable Speed Function*
- ✓ *Automatically Maintains Constant Shear Rate During Mixing*
- ✓ *Long-life Hardened Mixing Blades and Stainless Steel Vessel*
- ✓ *Built-In Timer with Automatic Shut-Off*
- ✓ *Rotational Speed Display*
- ✓ *Heavy Base Plate Ensures Stability During Operation*



# Model 3260

## Specifications

Model #	Container Volume(s)	Constant Speed Selections	Adjustable Speed Range	Maximum rpm**	Weight				Dimensions W x D x H
					Net		Ship		
					lb	kg	lb	kg	
3260	1 qt / 1 liter	4,000 rpm & 12,000 rpm	1,000 to 18,000 rpm	18,000	45	20	80	36	11x16x28 (28x41x70cm)

### Speed Selection

Preset speeds per API mixing procedures, along with user-adjustable, continuously-variable speed

### Display

Speed is displayed directly in rpm

### Container Material

Stainless Steel

### Mixing Blades

Proprietary, Hardened Long-Life Metal

### Utilities

#### Power

110 or 220 VAC +/- 10% 50/60 Hz

*Manufacturer's specifications subject to change without notice*

R0109.002



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|---|---|---|---|---|---|
| a) The manual is well organized.                | 1 | 2 | 3 | 4 | 5 |
| b) I can find the information I want.           | 1 | 2 | 3 | 4 | 5 |
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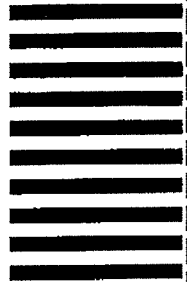
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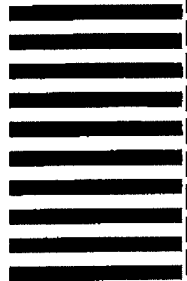
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