

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton® Bung Entering IBC Mixer

Description

This type of mixer is designed for 275-550 gallon medium-sized, solid bulk containers.

Unpacking

When unpacking the mixer, check for both damage that may have occurred during transit and missing parts.

General Safety Information

READ AND FOLLOW SAFETY INSTRUCTIONS!

⚠ WARNING

These mixers are intended for specific

functions. Please follow all instructions to insure safe and proper use.

- (1) Be certain that all mounting hardware including the coupling and propeller set screws are properly tightened prior to operation.
- (2) Be certain that the propeller is not touching the side or bottom of the vessel. The propeller will hang down (4.5") when unit is off and will lift up and open (9") when the unit is running.

- (3) Always wear safety equipment, including eye protection, when observing the mixer performance or when adding materials to a tank while the mixer is in operation.
- (4) Mixer gear reducer should come filled with SAE40 weighted oil, which should be checked prior to operating the mixer.

Assembly Instructions

- (1) Bolt motor to bung adapter using enclosed hardware.
- (2) Attach coupling to motor shaft using setscrews. Note: The end of the coupling, with the two setscrews spaced closely together, should be attached to the motor.



Figure 1.

- (3) Attach propeller to round end of mixer shaft.
- (4) Insert the flat end of shaft into coupling and tighten setscrews.
- (5) Recheck all hardware to ensure that they are properly tightened.
- (6) Attach to tank by threading into 2" bung opening.

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Safety Alert

(1) For additional safety, the buyer or user should mount guards over all shaft extensions and any moving mounted apparatus. The user is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in body injury and/or damage to equipment.

(2) Hot oil reducers can cause severe burns. Take extreme care when removing lubrication plugs and vents.

(3) Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application of power.

(4) Reducers are not to be considered fail safe or self-locking devices. If they are required, a properly sized and independent holding device should be utilized. The reducers should not be used as a brake.

(5) Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as not to subject the reducer to loads beyond the catalog rating.

(6) Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and no other associated attachments or motors.

(7) Use of oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to a reducer or other equipment may result.

(8) Overhung loads (those that may not be sized properly) subject shafts and shaft bearings to stress, which may cause premature bearing failure or shaft breakage.

(9) Test run until operation is verified. If the unit tested is a prototype, that unit must be of current production.

(10) The speed reducer should be stored in a clean and dry area with access to adequate cooling air supply. Precautions must be taken to avoid contact with contaminants such as water and humid conditions.

(11) In order to maintain proper operation, the mounting bolts should be routinely checked for tightness to ensure that the unit is firmly anchored.

Model 32V125

General Operation

(1) Run the motor, which drives the reducer, to check the direction of reducer output rotation. Consult motor nameplate for instructions to reverse the direction of rotation.

(2) Attaching the load: On direct coupled installations, check shaft and coupling alignment between speed reducer and loading mechanism. On chain/sprocket and

belt/pulley installation, locate the sprocket or pulley as close to the oil seal as possible to minimize overhung load. Check to verify that the overhung load does not exceed specifications published in the catalog.

(3) High momentum loads: If coasting to a stop is undesirable, a braking mechanism should be provided to the speed

reducer output or the driven mechanism.

(4) The system of connected rotating parts must be free from critical speed, torsional or other type vibration, no matter how induced. The responsibility for this system analysis lies with the purchaser of the speed reducer.

Installation

(1) Mount the unit to a rigid flat surface using grade 5 or higher fasteners. The mounting fasteners should be the largest standard size that will fit in the base mounting hole. Shim as required under the flange or base feet, if they do not lie flat against the mounting surface.

(2) Connect motor to speed reducer.

(3) For additional safety, the buyer or user should mount guards over all shaft extensions and any moving apparatus. The user is responsible for checking all applicable safety codes in his area and providing suitable shields.

(4) Make certain that all tools and other items are clear from rotating parts

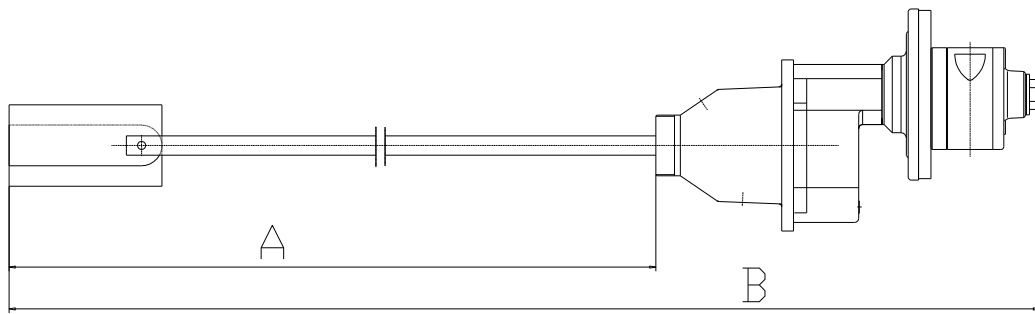
before starting machine. Stand clear and start machine slowly to be sure all components are secure and operating properly.

(5) Special consideration should be given to high inertia loads connected to the output shaft. Consult the manufacturer for further details.

Dayton® Bung Entering IBC Mixer

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Outline Drawing

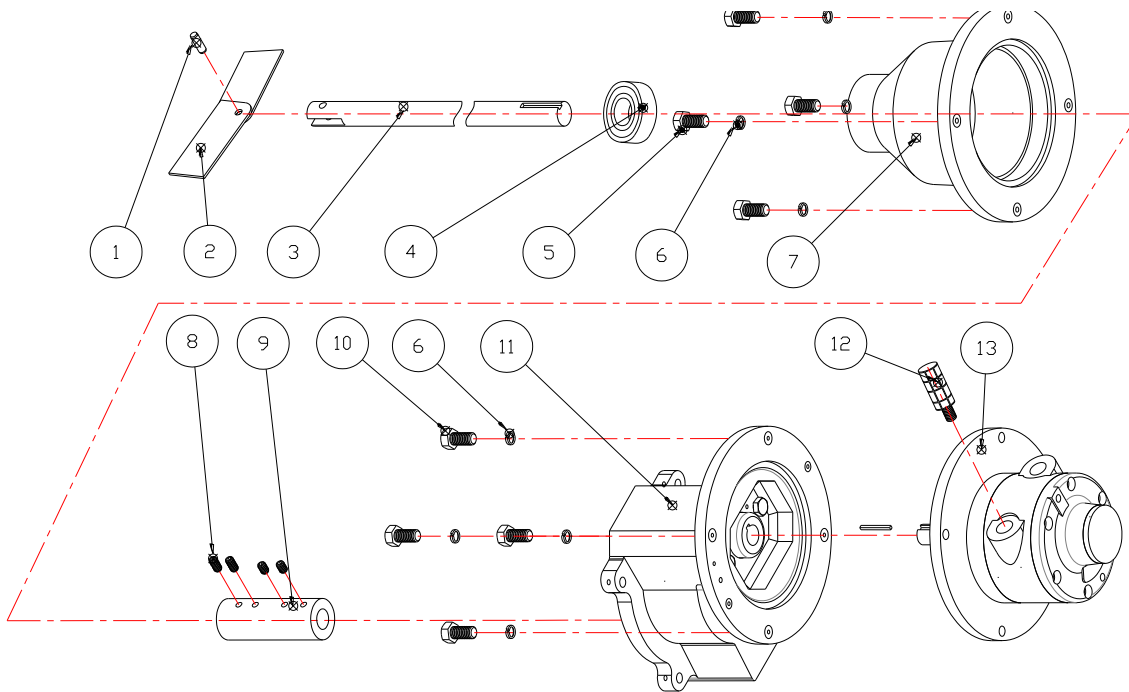


Specifications

| Model | HP | Motor Type | Air Pressure (PSI) | Consumption (CFM) | Speed (RPM) | Shaft Dia. (In.) | Shaft Length (In.) | Propeller Dia. (In.) | Air Motor in/out threads | Dimension (In.) | |
|--------|-----|---------------|--------------------|-------------------|-------------|------------------|--------------------|----------------------|--------------------------|-----------------|----|
| | | | | | | | | | | A | B |
| 32V125 | 1/2 | 4AM-F114.3-15 | 40 | 20 | 50-430 | 3/4 | 40 | 9 | NPT 1/4 | 40 2/3 | 48 |

Model 32V125

Part Exploded View Illustration



Part list

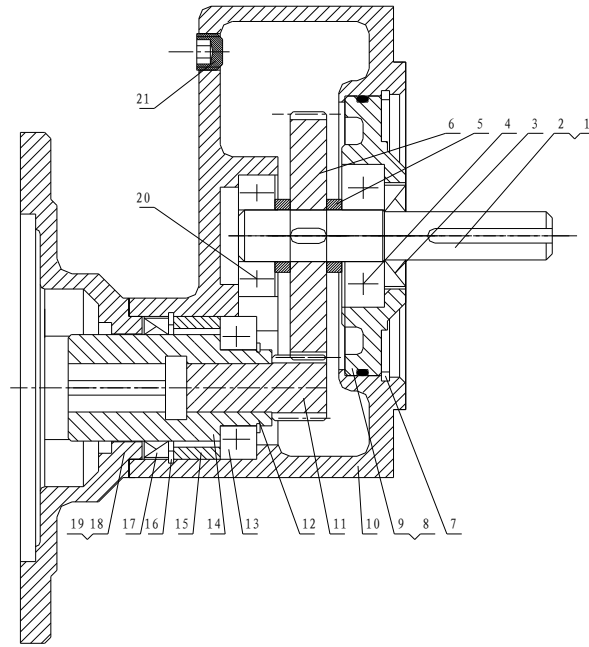
| Ref No. | Description | Part Number | Quantity |
|---------|-------------------------------------|-------------|----------|
| 1 | Pin (8 x 20) | ** | 1 |
| 2 | Propeller | * | 1 |
| 3 | Shaft (3/4" x 40") | * | 1 |
| 4 | Oil Sealing (16 x 25 x 7) | ** | 1 |
| 5 | Hexagon Bolt (3/8"-UNC16 x 30) | ** | 4 |
| 6 | Washer (3/8") | ** | 4 |
| 7 | Output Connecting Bracket | * | 1 |
| 8 | Hexagon Set Screws (1/4"-UNC20 x 8) | ** | 4 |
| 9 | Coupling | * | 1 |
| 10 | Hexagon Bolt (3/8"-UNC16 x 25) | ** | 4 |
| 11 | Reducer | * | 1 |
| 12 | Muffler | ** | 1 |
| 13 | Air Motor | * | 1 |

(*) Not available as repair part

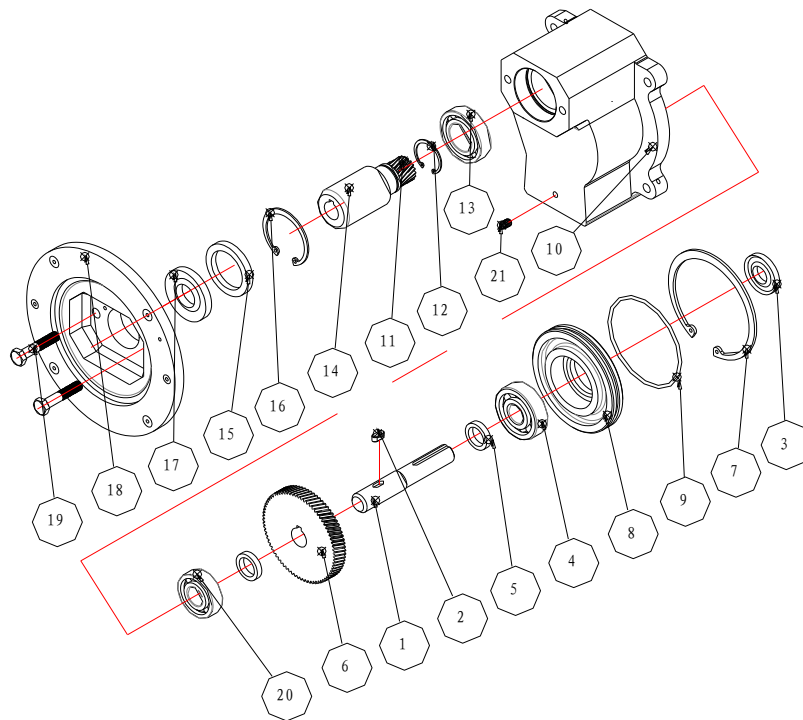
(**) Common Hardware, not offered as a replacement part

Dayton® Bung Entering IBC Mixer

Planar Graph



Part Exploded View Illustration of Reducer



ENGLISH

Model 32V125

Part List of the Reducer

| Ref No. | Description | Part Number | Quantity |
|---------|-------------------------|-------------|----------|
| 1 | Shaft | * | 1 |
| 2 | Key (5 x 5 x 12) | ** | 1 |
| 3 | Oil Seal (16 x 35 x 7) | ** | 1 |
| 4 | Bearing 6303 | ** | 1 |
| 5 | Washer | * | 2 |
| 6 | Big Gear | * | 1 |
| 7 | Retainer Ring 92 | ** | 1 |
| 8 | Bearing Cover Plate | * | 1 |
| 9 | O-Ring (78 x 2.65) | ** | 1 |
| 10 | Gear Box | * | 1 |
| 11 | Gear Shaft | * | 1 |
| 12 | Retainer Ring 25 | ** | 1 |
| 13 | Bearing 6005-2Z | ** | 1 |
| 14 | Bearing Support Shaft | ** | 1 |
| 15 | Backing Ring | * | 1 |
| 16 | Retainer Ring 47 | ** | 1 |
| 17 | Oil Seal (35 x 47 x 8) | ** | 1 |
| 18 | Input Connecting Flange | * | 1 |
| 19 | Bolt (M8 x 25) | ** | 6 |
| 20 | Bearing (6203-2Z) | ** | 1 |
| 21 | Clogging 1/4" | ** | 2 |

(*) Not available as repair part

(**) Common Hardware, not offered as a replacement part

Dayton® Bung Entering IBC Mixer

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