

Reliability at work

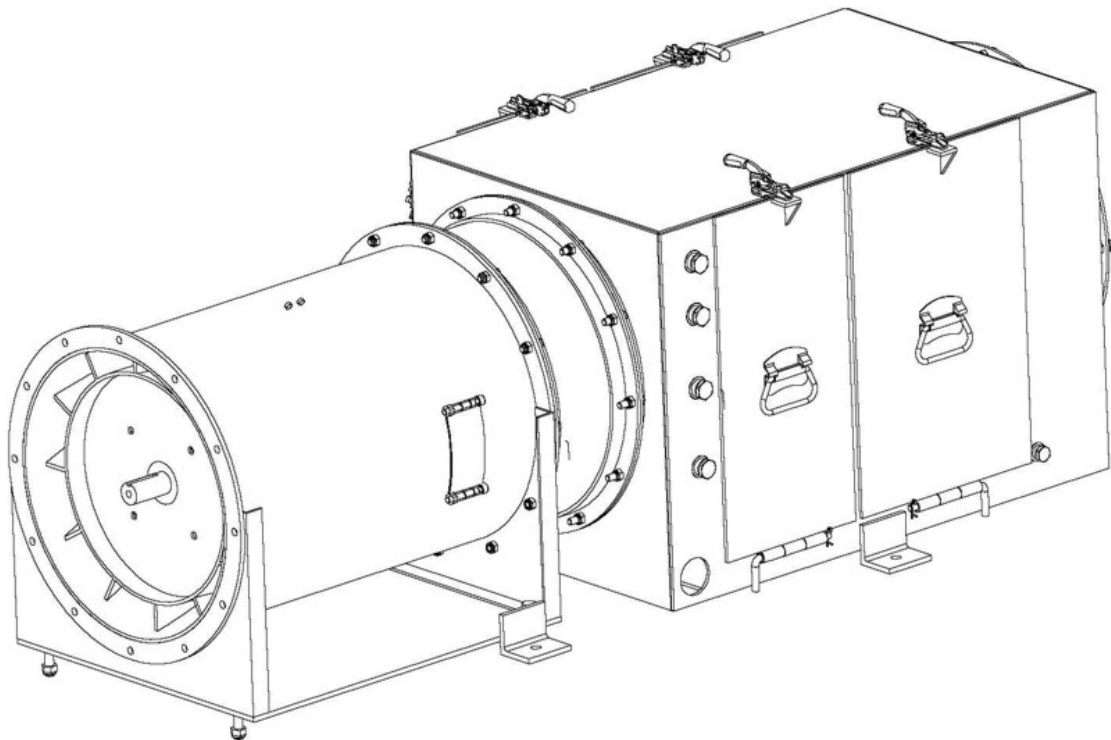


Operation Manual

BUCYRUS- BSL SCRUBBER®

Model - 952600

Doc. No.: 02-21-11



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**your safety**

This chapter contains important information for your safety.

Please read this chapter particularly carefully. The safety instructions and behavioral rules are intended to protect you from any dangerous situations and to help you carry out your work as safely as possible.

state of the art

The BSL Scrubber has been manufactured to the state-of-the-art and in accordance with recognized safety engineering regulations. You and others can nevertheless be exposed to dangerous situations e.g. as a result of environmental influences, machine damage or operator errors.

Do not make any alterations or modifications, which could impair the safety of the BSL Scrubber. All modifications and changes must be approved through Bucyrus.

In addition to this operating manual, please be sure to also observe the relevant regulations and accident prevention ordinances

Observe the safety and accident prevention regulations:

- of the mine,
- of the Mines Inspector and
- of the mining supervisory authorities

further operating manuals

Please read also the operating manuals of the components required for operation. Clarify any questions **before** starting work.

training

Reading of the operating manual, especially the chapter on safety, shall constitute a part of this training.

You must have an adequate knowledge of the

- mechanics and
- control engineering
- and must be able to prove this knowledge.



Installation

installation

Centrifugal fans should always be mounted to a flat, level and rigid structure. The fan base should be shimmed and leveled. Gaps between the foundation and fan base should be grouted. This will ensure permanent alignment and smooth running, vibration-free fan, as well as minimize maintenance costs.



IMPORTANT

FAILURE TO PROPERLY INSTALL THE FAN BASE CAN CONTRIBUTE TO EXCESSIVE VIBRATION.

Poured concrete foundations are always recommended, whenever possible.

Fans mounted off ground should be rigidly mounted to a structural platform and be placed as near as possible to a solid wall or column.

For roof mounted fans, place the fan curb panel on the roof curb, level and anchor the unit to the curb using lag screws, neoprene washers and flat washers.



IMPORTANT

AVOID SUPPORTING A STACK DIRECTLY ON THE FAN FLANGE.

It is recommended that access doors be placed in the ductwork just ahead of the fan inlet and just behind the fan outlet for ease of inspection and maintenance. Access doors in a duct system should never be opened while the fan is running. This could cause equipment damage and personal injury.

Electrical connection for the fan must be made by a qualified electrician, conforming to mining codes, local codes and practices. When making electrical connections, the motor must be connected following electrical characteristics as indicated by the motor name plate, and adhere to the wiring diagram on the motor name plate or in the motor terminal box.



IMPORTANT

THE FULL LOAD AMPS STATED IN THIS MANUAL MUST NOT BE EXCEEDED.

start-up

Lock out the primary and all secondary power sources.

A complete inspection should be made of all ductwork along with the fan's interior. Verify there is no foreign material which can be drawn into or blown through the fan or ductwork. Protective measures and safety practices should be observed when entering or working in these areas which may include goggles, respirators or other protective equipment.



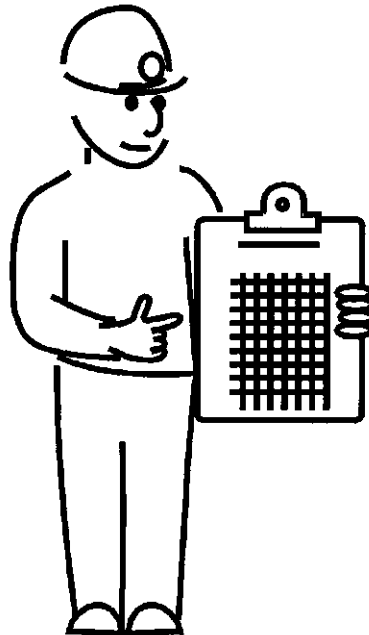
6. Loosen all bearing/shaft set screws or other locking device.
7. Remove bearings (may have to be pressed off the shaft).
8. Polish the shaft with fine emery paper (240 grit or finer) and file the set screw dimples smooth.
9. Install new bearings on the shaft, making sure the collars are together, (i.e., facing each other on the shaft facing each other on the shaft) and set screws are in line with each other. Lightly seat one set screw on each bearing to hold in the approximate position from #4 from the previous page.
10. Mount the shaft/bearing assembly in the fan, on shims, with bolts. Do not tighten yet. Just snug up. Loosen set screws.
11. Center the shaft in the housing (both ends) as closely as possible and shim where necessary. The fan impeller may need to be temporarily installed to get its clearances equal.
12. Tighten the bearing mounting bolts
13. With a soft faced mallet, tap the shaft between the bearings while turning the shaft by hand to seat the bearing races. The shaft must turn freely tighten all bearing set screws. Spin the shaft again. Is it free?
14. Reinstall the lube tubes.
15. While rotating shaft purge bearings with fresh grease.
16. Install bearing cover and impeller.
17. If a new shaft is supplied, then ignore items #5 through #7.

**NOTICE**

CAREFULLY FOLLOWING THIS PROCEDURE WILL ENSURE TROUBLE FREE SERVICE

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Technical data



**TABLE 3**

Vibration displacement in mils, "Double Amplitude"				
FAN RPM	GOOD	FAIR	SLIGHTLY ROUGH	ROUGH
870	1.7	3.3	6.5	> 6.5
1160	1.2	2.5	5.0	> 5.0
1750	0.75	1.5	3.5	> 3.5
3450	0.50	0.9	2.0	> 2.0

Interpolate for fan speeds other than show above. The fan should be operated unless the maximum vibration reading is in at least the "fair" range.

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