

Vibrator Motor Sheaves for Block Machines

The long established optimum vibration speed during the dry cycling stage for producing quality block is approximately 2800 R.P.M. (+/-2%). Because V-belt and motor manufacturers have changed their V-belt and motor designs, many block plants have experienced production and quality problems that stem from slower vibration speeds. For some machines the optimum vibration speed cannot be reached using standard size sheaves. Besser is now offering for sale a special non-standard size sheave to obtain optimum vibration speed. The following chart explains which sheave to use on existing equipment. It is important that the sheaves are replaced in pairs so that the vibrators can obtain synchronization. The older design sheaves will still be available for those customers who do not experience this problem. Besser is also now selling a hand-held tachometer that can be used to measure the actual R.P.M. of the vibrator shaft.

Also Note:

- Check both vibrator motor data plates for identification.
- Speeds in excess of 2900 R.P.M. are not recommended- premature vibrator shaft bearing failure may result.
- It is also important that motor frame styles and R.P.M. must match whenever replacing vibrator motors in order to achieve synchronization. The old U-frame style motors are no longer available.
- When ordering sheaves, give the Besser order writer the O.D. (Outside Diameter) of your existing sheave and the Besser Part - No. and/or the O.D. of the sheave to be ordered.
- No. 112910 Hand-Held Tachometer.

SHEAVE RECOMMENDATIONS			Old		New	
Machine		Sheave No.	O.D.	Sheave No.	O.D.	
Bescopac	60 Cycle	108847	7.75	113068	8.21	
Bescopac	50 Cycle	108974	8.95	113069	9.84	
V3-R	60 Cycle	108847	7.75	113068	8.21	
V3-R	50 Cycle	108974	8.95	113069	9.84	
V3-12	60 Cycle	108847	7.75	113068	8.21	
V3-12	50 Cycle	108974	8.95	113069	9.84	
Dynamac V3-12						
Bescodyne Dr. Output Shaft Sheave	60 Cycle	108847	7.75	No Change		
Bescodyne Dr. Output Shaft Sheave	50 Cycle	108847	7.75	No Change		
Bescodyne Dr. Input Shaft Sheave	50 Cycle	108742	9.75	113082	9.43	
Superpac V6-12						
Bescodyne Dr. Output Shaft Sheave	60 Cycle	108766	8.95	No Change		
Bescodyne Dr. Output Shaft Sheave	50 Cycle	108766	8.95	No Change		
Bescodyne Dr. Input Shaft Sheave	50 Cycle	108742	9.75	113082	9.43	

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SAFETY BULLETIN

This notice is issued to advise you that some previously accepted shop practices may not be keeping up with changing Federal and State Safety and Health Standards. Your current shop practices may not emphasize the need for proper precautions to insure safe operation and use of machines, tools, automatic loaders and allied equipment and/or warn against the use of certain solvents or other cleaning substances that are now considered unsafe or prohibited by law. Since many shop practices may not reflect current safety practice and procedures, particularly with regard to the safe operation of equipment, it is important that you review your practices to ensure compliance with Federal and State Safety and Health Standards.

IMPORTANT

The operation of any machine or power-operated device can be extremely hazardous unless proper safety precautions are strictly observed. Observe the following safety precautions:

ALWAYS:

- ✓ Be sure proper guarding is in place for all pinch, catch, shear, crush, and nip points.
- ✓ Be sure that all personnel are clear of the equipment before starting it.
- ✓ Be sure the equipment is properly grounded.
- ✓ Turn the main electrical panel off and lock it out in accordance with published lockout/tagout procedures prior to making adjustments, repairs, and maintenance.
- ✓ Wear appropriate protective equipment such as safety glasses, safety shoes, hearing protection, and hard hats.
- ✓ Keep chemical and flammable material away from electrical or operating equipment.
- ✓ Maintain a safe work area that is free from slipping and tripping hazards.
- ✓ Be sure appropriate safety devices are used when providing maintenance and repairs to all equipment.

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NEVER:

- ✓ Exceed the rated capacity of a machine or tool.
- ✓ Modify machinery in any way without prior written approval of the Besser Engineering Department.
- ✓ Operate equipment unless proper maintenance has been regularly performed.
- ✓ Operate any equipment if unusual or excessive noise or vibration occurs.
- ✓ Operate any equipment while any part of the body is in the proximity of potentially hazardous areas.
- ✓ Use any toxic flammable substance as a solvent cleaner.
- ✓ Allow the operation or repair of equipment by untrained personnel.
- ✓ Climb or stand on equipment when it is in operation.

It is important that you review Federal and State Safety and Health Standards on a continual basis. All shop supervisors, maintenance personnel, machine operators, tool operators, and any other person involved in the setup, operation, maintenance, repair or adjustment of Besser-built equipment should read and understand this bulletin and Federal and State Safety and Health Standards on which this bulletin is based.