



# Concrete mixer BRS-130, BRS-165, BRS-200

## Passport and user manual

*We thank you for purchasing concrete mixer of our manufacturer company "Vector-08" Ukraine*



Before using Concrete Mixer carefully study these instructions and make sure you understand everything correctly.

*Design features that make concrete mixer safe and reliable*

*The frame is welded from square tubes and ensures the reliability of the whole structure*

*The plastic housing and wheels made from high-impact polymer*

*You can choose from two types of crown, cast iron or metal composite*

*Gear made by casting into shape with subsequent hardening*

*Regulation of the gap gearing - prolongs the use of gear*

*Pulley produced from aluminum*

*Motor of the concrete mixer is equipped with thermal protection to prevent overheating*

## SPECIFICATIONS



**BRS 130**



**BRS165**



**BRS200**



Type

BRS - 130 (c.i/m.c) \* BRS - 165 (c.i/m.c) BRS - 200

Tank capacity (l) -

130

165

200

The volume of mixture (l) -

110

135

165

Length (m) -

1.1

1.18

1.18

Width (m) -

0.78

0.78

0.88

Height (m) -

1.16

1.21

1.25

Weight h / c (kg) -

60/55

63/65

75

Single-phase current (V) -

220

220

220

Power Output (W) -

750

750

1000

\* Completion with cast iron or with metal composite crown

## The symbols on our product and in the manual



**ATTENTION!** Before working carefully study this manual



**ATTENTION!** Before opening the plastic housing of the motor, you must disconnect the plug from the power source



**ATTENTION!** Maintenance done only after disconnecting the plug from the power source!



**ATTENTION!** Do not grease the toothed crown!



The second class of electrical safety

### 1. Application field and limitations in use.

Domestic concrete mixers BRS type that produced by "Vector-08" company are only for mixing concrete and cement mixtures in the temperature range of 0 ° - 40 ° C.



Concrete mixer is not intended for use in the food industry, for mixing liquids, powders and explosive substances.

Concrete mixer is not intended for use in an explosive environment.

### 2. Safe working and residual risks.



Before using Concrete Mixer the device carefully study these instructions and make sure you understand everything correctly.

Please pay attention to the contained instructions for safe use of Concrete Mixer, the fulfillment of these instructions will guarantee your safety.

Forbidden to use concrete mixer for person under 16 years of age and for a person that not able to bear responsibility for fulfilment of safety requirements.

Forbidden to move the concrete mixer itself except in the range of building space.

Forbidden to tow a concrete mixer and to move concrete mixer that is filled with mixture!

The workplace should be spacious, safe for man with wheelbarrow to transfer with sufficient illumination.

Before start up the mixer make sure that protective devices are complete and undamaged.



Forbidden during the work to lay hands on moving parts of concrete mixer and use additional tools to accelerate the mixing of the solution (shovel, fittings and etc.).

### 3. Electrical safety.

**FAILURE TO COMPLY WOULD RESULT THE RISK OF LIFE!**



Strictly forbidden to work on concrete mixer with removed cover.

Forbidden to use homemade outlets and cable connections.

Forbidden to use of a damaged cable or plug. Strictly forbidden to work with removed or damaged housing cover. To prevent short circuit pay attention to cleanliness of contacts and make sure that there no foreign objects between contacts.

Forbidden to replace cord with purpose to extending it. For connection, you can only use a moisture-proof extension of wires confirmed by IEC 245-4 1980 (DIN 57 282) with a cross section 3x1,5 sq. mm, this cross section will be sufficient for wires length of 25 m. Do not allow the cable to lie in the area of wheelbarrow transportation



Caution! Concrete mixer has second class of electrical safety, that allows it to connect it to an ordinary household outlet (230V) with a 10A fuse. The second class of electrical safety is saved when you using original spare parts and while you maintaining factory isolation distances.

#### 4. Concrete mixer operation

Concrete mixer can be delivered as assembled and unassembled condition. To assembly Concrete mixer use assembly instructions. You have to carefully follow the SR (safety rules) to monitor the accuracy of the concrete mixer assembly.



Set the concrete mixer on a flat, horizontal and solid surface.

Fully unwind cord and connect it to the power supply of 220V, 50 Hz.

To start up concrete mixer, use the button which is located on the side of motor housing. We recommend to do loading solution components from the side of concrete mixer where the steering wheel will be on your left side. This will reduce the risk of falling stones into between the crown and gear.

The motor is equipped with a SEKI ST22 (135 °C), thermostat type . The thermostat switches the motor off automatically in the event of overheating. The machine can be restarted after a cooling - off period. If the motor will stop work again and if it will systematically stop, that could be a consequence of the motor failure. In this case, contact the manufacturer or contact an authorized representative.



You can implement downloading components into the concrete mixer, only during rotation of the tank.

In the case of an unplanned concrete mixer stop with filled tank, set the steering wheel to position (1) Figure 1 and only then initiate motor start.



Forbidden to start a concrete mixer with a full tank.



Before running, partially release the tank by tilting it in outpouring position.

Strictly forbidden to work on concrete mixer with removed motor cover

Tank positions: positions 2 and 3 for mixing concrete, positions 4 and 5 for mixing a solution, positions 6 and 7 for outpourings the mixture. Position 8 for storage.



You can empty the tank only during tank rotation.

Throwing of the mixture conducted only during tank rotation.

#### Advices for mixing concrete material:

1. Add the required amount of water and the basic ingredients of concrete (gravel, sand, etc.).
  2. Add the cement (see right proportion on the bags with cement)
  3. Repeat operation 1 and 2 until you reach the proportion that required for mixing
- To prepare quality solution or concrete do not allow of any water formation in free form, in solution or in insufficiently mixed components.

To prevent freezing the mixture on the walls of the tank, do not leave concrete mixer turned of, more than 30 minutes after mixing. To reset the mixture you have to lower the detent mix tank 10 (see instructions for assembly Fig. 4) pressing with your foot and firmly retaining the steering wheel with both hands. Slowly tilt the wheel to position 6 or 7 of the retainer, and then further to complete releasing tank from the solution.

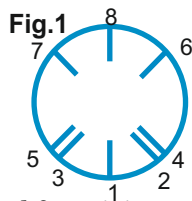


Fig.1

## 5. Concrete mixer cleaning

For cleaning the inner surface of the tank you have to turn on the concrete mixer and set it in position 5 or 4 Fig.1. In the tank add water and a couple of shovels of gravel. After 5 min. you can fully release the tank from water and gravel and install it in position 8.



Cleansing inner surface of the tank by water jet allowed only when you disconnect it from the power source. Do not expose the plastic motor housing to direct influence of water.

Watch out for the purity of the toothed crown, it will extend a period of gear operation. Forbidden to strike blows on the crown and on the concrete mixer by any thing! You have to provide cleansing of concrete mixer after each use.

## 6. Transportation

Every time before transportation disconnect the concrete mixer from the power supply. Forbidden to pick up concrete mixer by plastic case, for this action you can use the steering wheel and frame. Forbidden to move the concrete mixer by it wheels other than in boundaries of the construction site.



Forbidden to tow!

Also forbidden to move the concrete mixer that is full!

## 7. Environment and recycling

Components of concrete mixer does not have a harmful compounds for the environment. To recycle the concrete mixer you can disassemble it and deliver its components to the recycled materials reception centers.



## 8. Repair and maintenance

Maintenance can be done only after disconnection from the power source!

For more information on repair and spare parts see additions to the passport, also for advice you can contact with our representatives or directly with us. Pay special attention to the integrity of the security elements and if it is necessary replace it with new ones. **Use only original spare parts.**

Malfunction	Possible cause	Remedy
Motor does not start up	a) no mains voltage b) defective cable c) overheated motor	a) check the power availability at the outlet (for experts) b) allow the motor to cool
Motor running (hums) but the tank does not rotate	a) Insufficient belt tension b) defective condenser c) jamming of bearings or motor failed	a) Adjust the belt tension (Add.1) b) Replace the condenser to the new one with appropriate capacity c) please consult with representatives or experts



Repair of electrical parts is carried out in the service center or by licensed electrician – expert.

## 9. Warranty terms

"Producer" - "Vector-08" company

"Seller" - organization or individual - entrepreneur who made an a cooperation agreement with "Vector-08" company

·"Customer" - individual person or legal entity who has purchased concrete mixer

·Period of concrete mixer operation is 4 years. Warranty period of operation 2,000 hours since the start of the work, but not more than 1 year from the date of sale.

Separately, we provide 1.5 years warranty for the metal composite crown.

The warranty does not apply if you misuse the concrete mixer (paragraph 1 passport) as well as violation of rules for use, that given in the passport.

The warranty is void if concrete mixer passport are lost or if it have incorrect contents (no "producer" stamp, no "Seller" mark, no date of sale)·

After purchasing concrete mixer by "Customer", "Seller" makes a mark in the passport, from that point complaints on the contents are not accepted.

Warranty provided in this order:

- a) Receiving reclamation from the "Customer" by "Seller"
- b) "Seller" are making the report of the fault detection in free form and sending it to the "producers"
- c) The producer at its discretion, decides on opportunities and places of repair
- d) The decision on warranty replacement of the concrete mixer accepted by "producer" within 3 business days after receiving report of the fault detection from the "Seller".

### Addition 1

#### **Adjust the drive belt tension.**

Concrete mixers uses the belt drive for rotating tank. Over time the belt tension may become weaken and lead to slippage on the pulley. To prevent this, adjust the belt tension (Figure 1)

1. Loosen the bolts (1)
2. Push up on top of the plastic housing (2) to the necessary stop and in this state, tighten the screws (1) fastening the housing.

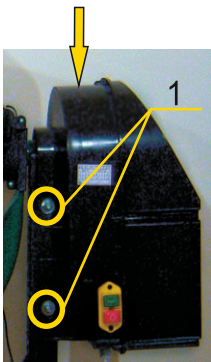
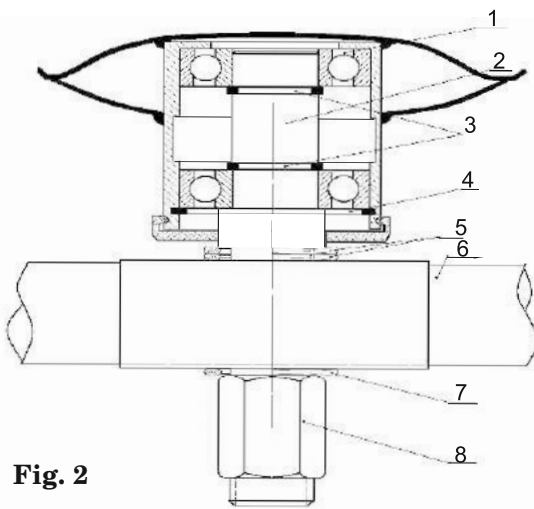


Fig. 1

## Addition 2



The lower bearing cup node

1. Ball Bearing 6007
2. The axis of the tank
3. Retaining ring
4. Retaining ring
5. Adjusting washer
6. Arc
7. Grover Washer
8. Screw nut

Concrete mixer uses a gearing the gear - the crown. Over time, this gearing needs to be regulated by using washers 5 (Figure 2) removing one or two washers, according to the needs. The gap between gearing must be a three-quarters of the gear tooth.

**Fig. 2**

## Addition 3 (Fig.3)

### Instructions for concrete mixer assembly

For of concrete mixer assembly you will need:

Ring spanners or ratchet wrench for screw nut M8 - 2 pcs.

Phillips screwdriver with a length of at least 120 mm.

The ring puller pliers for external retaining rings

1. Put the transport wheel (7) on the wheel axle and fasten retaining rings A26
2. Attach the pipe - connection (3) to the rack (1) and (2) using the nut, grover, washers and bolts as you see in it at the Figure 3
3. The tank assembled with an arc (4), set on a rack according to Figure 4
4. Use clamps (8) to lock the arc cup to the frame racks (1, 2) and fix it with bolts, washer and screw nut.

5. Assembling the plastic motor housing

5.1. Unscrew the housing cover screws (3) See below. "Instructions for parts replacement" (Figure 3) and remove the housing covers (5.2) Figure 3

5.2. Put on a rack (1) the motor housing (5.1) in to combination with rack mounting holes and housing and affix the bolted connection slightly tightening it.



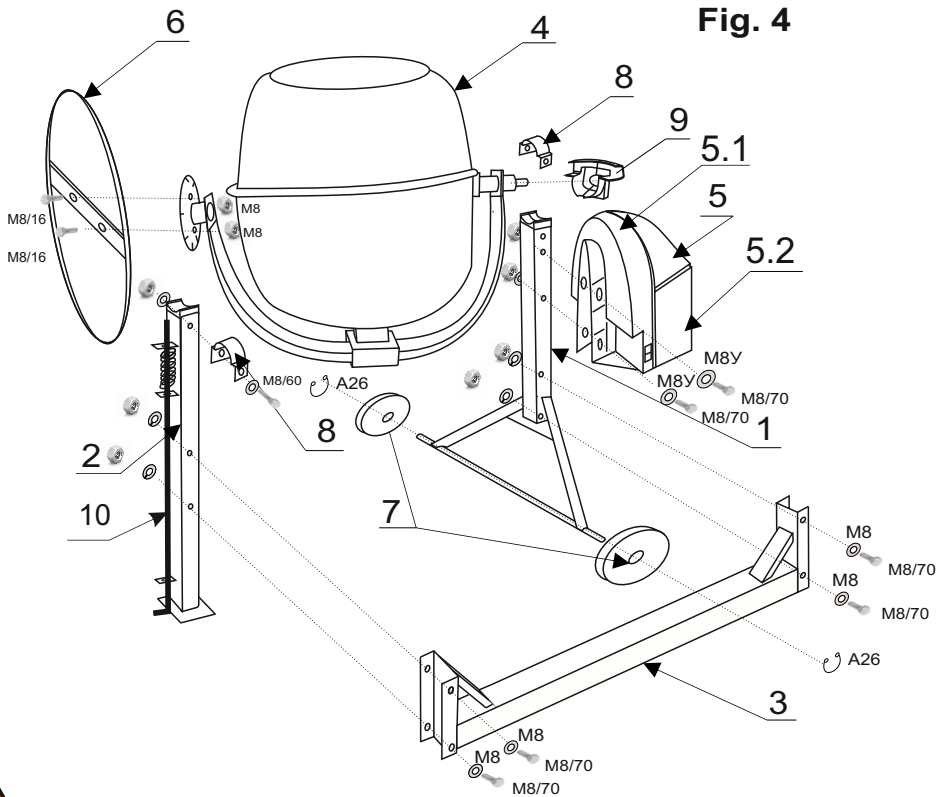
**Make sure that housing (5.1) was placed strictly in to the parallel to the rack (1)**

5.3. Affix the pulley (2) Fig. 3 "Instructions for parts replacement" by the side with the rigid ribs inside until it stops and put the retaining ring.

5.4. Put the belt on the motor shaft and pulley, make belt tension (Addition 1)



**Make the belt tension without cover (5.2) make it with your hands pressing to hard edge (inside) of the motor housing (5.1).**

**Fig. 4**

5.5. These works are carried out in the place that is protected from rain and outsiders. Do not touch the parts inside the motor housing!

After tensioning the belt, turn on the concrete mixer and visually inspect the work of the belt, it should not touch the housing wall and should not be displaced along the axis of the motor or pulley. In case if you notice it displacement it is indicates incorrect installation of housing (5.1) on the rack (1). In this case, repeat the operation of paragraph 5.2 of this manual.

5.6. Attach the housing cover (5.2) to the motor housing (5.1) with screws.

5.7. Attach the steering wheel (6) with bolts and screw nuts according to the picture.



**Attention! Before operating, read the passport!**

You can watch video instructions how to assembly concrete mixer on our web site [www.vector-ua.net](http://www.vector-ua.net).

Completion figure 3

1 Big Rack

2. Small Rack

3. Pipe-connection

4. Tank in assembly

5. Concrete mixer motor housing in assembly (5.1- housing, 5.2- cover)

6. Steering wheel

7. Transport wheel - 2 pcs.

8. Clamp - 2 pcs.

9. Gear protection

10. Tank detent

without numbering: pulley, belt, passport.

Ironwares:

Bolt M8 / 16 - 2 pcs; M8 / 60 - 2 pcs;

M8 / 70 - 6 pcs.

Grover M8 - 4 pcs.(for pipe3!)

Screw nut M8 - 6 pcs.

Washer M8 (y) - 4 pcs.

Washer M8 - 12 pcs.

Retaining ring A15 - 1 pcs.

A26 - 2 pcs.

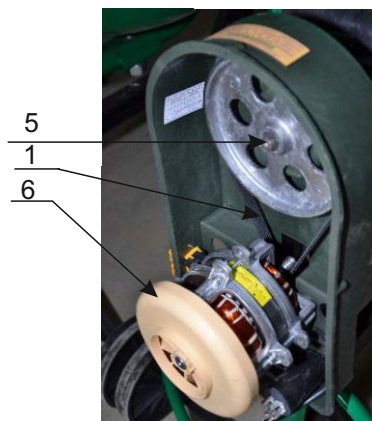


Fig. 5

### Instructions for parts replacement



Carry out the work with the disconnected power plug from the power source!

1. Replacement of the belt 1 (Figure 1)

Remove the cover of the housing 2 (Figure 6) by loosening screws 3.

1.2. Loosen the bolts 4

1.3. Remove the old belt.

1.4. Put on the new belt

1.5. For the belts tensioning see (Addition 1)

1.6. Put on the cover of the housing and tighten the screws.

2. The replacement of the gear with an axle (for specialists)

2.1. Remove the tank mixer, unscrewing the screw nut M30 see. (Addition 2 p.8)

2.2. Fulfill the requirements of p.1.1, 1.2, 1.3

2.3. Remove the retaining ring 1 (Figure 7),

with axis.

2.5 Using a metal pipe about 20-22 mm., you have to knock out the bearing 3 to the side of the pulley and remove bearing and anti-duster of the axle.

2.6. With the new bearings in reverse order gather the node. Anti-duster has a ledge that has to sit in to the groove in the gear. After press-work of the axis with bearings in the tube, put on the side of the shell bearing some grease "Litol-24" or analog. With your hands it should be easy for axis to rotate in the pipe. In case if you scroll and you feel like bearings jamming - it can indicate about incorrect position of bearings or it defects. Disassemble the node and replace it if it is necessary with intact bearing.

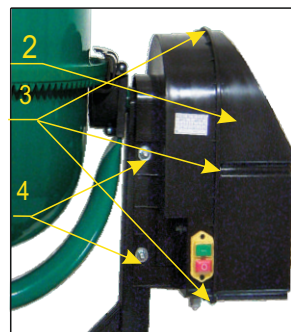


Fig. 6

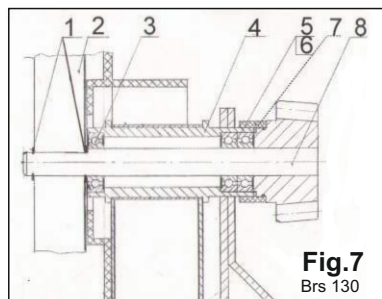


Fig.7  
Brs 130

3. Replacement of the lower bearing.

To replace the lower bearing we recommend you to contact your local service of concrete mixer or in repair workshop.

4. The replacement of the fan

4.1. Run p.1.1 of this manual

4.2. Remove the fan from the motor axis

4.3. Using a rubber hammer with the light blows put it on the axis of the engine.

\* Completion of the concrete mixer from 2015.

### PASSPORT

Concrete mixer BRS – 130 f / n \* \_\_\_\_\_

Concrete mixer BRS - 165 f / n \* \_\_\_\_\_

Concrete mixer BRS - 200 f / n \* \_\_\_\_\_

Meets the requirements 29.5-14261690.001-2004 of Ukraine Specifications  
(\* Factory number)

CE Declaration of conformity

The producer stamp

Production date / / / .(day/ month /year)

Sold in working condition and complete set / / / .(day/ month /year).

Company-seller \_\_\_\_\_

Information on the warranty repair

Executive organization \_\_\_\_\_

№	Х-ка несправност	Виконані роботи	Дата

After performing the guarantee repair, warranty lasts only for the replaced spare parts for concrete mixers

Address of the Manufacturer company"Vector-08": Ukraine, 58023 Chernivtsi city O. Pchilka street. b.22. Tel. (380372) 585814, 586

Executive organization \_\_\_\_\_

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*[www.vector-ua.net](http://www.vector-ua.net)*