Continuous Band Sealer Instruction Manual

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General Information

Thank you for purchasing our CBS-880 continuous band sealer.

This owner's manual contains information relating to your band sealer machine. The manual will provide you with basic information concerning both operation and maintenance of your new machine. Please read it carefully as failure to do so may result in bodily injury and/or damage to the equipment.

Please fill in the information below. You will find the information on the machine identification plate. You will need this information when ordering replacement parts or making technical inquiries.

CBS-880 EQUIPMENT INFORMATION

- Model #
- Serial #
- Purchase Date:
- Reference # (found on packing slip)
- Owner:

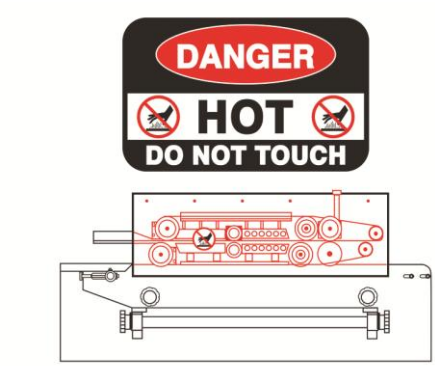
Table of Contents

Safety Instructions

WARNING! *Below are general safety precautions and warnings that should be understood prior to setting up or operating your equipment. Read and fully understand all instructions and warnings prior to using this unit. Your safety is most important! Failure to comply with procedures may result in serious injury or property damage. Remember:* ***Your personal safety is your responsibility.***

Unsafe practices or unauthorized modifications could result in accidents or property damage. Failure to follow these safety rules and take necessary precautions can result in serious injury as well as damage to equipment.

- Never operate or service your band sealer until you have read this manual completely and understand it fully.
- Plug the band sealer into a standard 120 Volt, 60Hz wall outlet or surge protector. We highly suggest using a surge protector. Some special order units are 220 Volt, 50Hz. Make adjustments as necessary.
- Do not use the band sealer if the power cord, plug or any other parts are damaged. Be sure not to allow the power cord to drape into your work area. Check that all parts are operating properly and perform the intended functions. Check for all other conditions that may affect the operation.
- Reduce risk of unintentional starting. Make sure the power switch is in the "OFF" position before attaching to the power source.
- Always disconnect sealer from power source before servicing, changing accessories or cleaning the unit.
- To provide protection against the risk of electrical shock, the power connection must be properly grounded at all times.
- Do not leave the sealer unattended when in use. Disconnect the sealer from the power source before leaving the work area.
- Band sealer is used solely for sealing thermoplastic materials. Using the machine for any other purpose can cause damage to the machine and operator. Do NOT use the machine for any other purpose other than to seal thermoplastic materials. Doing so may result in damage to the machine and injury to the operator.
- Always operate machine on a flat stable surface.
- While operating machinery, wear close-fitting clothing and tie back long hair to prevent any external items from getting caught in the machine. Do not wear jewelry when operating the band sealer.



- While machine is operating do not touch the heating and/or cooling blocks. Blocks will be extremely hot and may burn your hands.

-  While machine is in operation, do not place fingers, tools, or other foreign objects on or into the machine. Do not touch any moving parts while machine is operating. Fingers may get caught in between the gears /pinch points and cause significant injury.

- Thermoplastic bags and material are hand fed into the machine. Place bag on the guide and carefully feed the bag through the band sealer. Fingers may be placed on the guide but do not allow fingers to touch any of the moving parts on the band sealer.

- Use emergency stop to turn off machine should material/bags get jammed into the machine. Carefully pull material out of the band sealer. Do NOT use fingers to touch any part of the machine.

- The band sealer is not water resistant or water proof. Spraying down the machine will damage machine or cause electrical shock. Do not submerge the band sealer into water or liquid.

- Do not operate band sealer in a corrosive or humid environment.

- Always keep the machine clean, lubricated and in good working condition. Follow any maintenance and lubrication procedures outlined in this manual. Make sure unit is disconnected from power source before cleaning

- NEVER use any accessories or parts from other manufacturers. Machine should not be altered or modified using parts that are not genuine authorized parts. Doing so will VOID YOUR WARRANTY.

- Never leave the band sealer unattended. Be safe, disconnect the band sealer from power source before leaving work area.

- Close supervision is necessary when any appliance is near children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge . This sealer is NOT to be used by children or by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.

- DO NOT use the band sealer outdoors.

- DO NOT use the band sealer while under the influence of drugs, medications or alcohol.

SAVE THESE INSTRUCTIONS - REFER TO THEM OFTEN AND USE THEM TO INSTRUCT OTHERS.

Introduction

CBS-880 is equipped with an electronic temperature controller and variable speed conveyor to seal all types of thermoplastic materials (PP, PE, stand up pouches, gusseted bags, moisture barrier bags, etc.). Seals are created using PTFE bands which maintain high seal quality and produce consistently strong, clean seals on all heat sealable bags. Because bags are placed on a conveyor system, the width of the bag does not matter. These versatile machines offer several adjustments which allow them to be used for a wide range of applications. These machines are used extensively in the food/produce, medical, chemical, cosmetic, and electronic industries. The CBS-880 band sealer will significantly increase efficiency of packaging your products.

There are two configurations for the CBS-880 band sealer. The horizontal configuration (CBS-880I) is primarily used for sealing dry materials and when you can lay flat your pouch. The vertical configuration (CBS-880II) typically seals small solid products (ex: powders, grains, coffee) and liquids. In addition, sealing using the vertical configuration also works best with stand up pouches.

Features of the CBS-880 Band Sealer

Your band sealer is equipped with a wide range of standard features and capabilities.

- Simple to use – minimal operator training
- Rust inhibiting stainless steel construction
- Unit feeds right to left
- Equipped with electronic adjustable speed control
- Equipped with bag entry guide for easy bag feeding and straight seals
- Control panel includes industrial grade safety emergency stop switch
- 10amp protection power surge breaker
- Wide seal (8mm) to assure airtight seal / Optional 15mm width sealer model available
- PTFE sealing belts
- Extended forced-air cooling system with extra wide cooling bars and 6 heat transfer orifices
- One pair of brass sealing bars
- Sealing method – constant heat
- Adjustable 2-way pulley system for optimal stability and embossing clarity
- Knurled pressure rolls with variable pressure adjustment
- Fast warm up time
- PID digital temperature controller 0-300˚C (572˚F) with dual alphanumeric displays (target & current temp)
- Motorized rubber conveyor with speed control
- Capable of speeds up to 472 inches/minute
- Optional pressure embossing printing coder

How Does the CBS-880 Work?

Basic Principles
CBS-880 is easy to use. To seal, adjust temperature and place bag on conveyor

CBS-880 is comprised of a stainless steel frame, speed adjusting mechanism, sealing temperature control system and transmission system. Turning on the heat for the band sealer will cause a rapid rise in the temperature of the heating blocks. Required temperature and speed can be adjusted via the temperature controller and speed adjusting device. Plastic material to be sealed is placed on the guide and conveyor. Conveyor will then take the material between the two heating blocks to fuse the material together. Material will then pass through the cooling blocks to allow the material to congeal. Finally, material will then pass through the embossing wheel for a meshed seal line.

The motor drives the sealing belts, drive belts and conveyor simultaneously.

Specifications

	CBS-880I (Horizontal)	CBS-880II (Vertical)
Power	110V/60Hz	
Motor Power	50W	
Sealing Speed	0-472 inches/minutes	
Sealing Width	8mm (Optional 15mm width available)	
Temperature Range	0-300˚C (572˚F)	
Conveyor Size	38" x 7"	
Max Conveyor Load	6.6lbs	
Min/Max Height of Bag *(Vertical Only)*	N/A	6" / 12"
Character Size	3x4x9mm / 18PT	
Embossing *(Optional Feature)*	1 line embossing (2 lines available) 3 sections w/ 15 characters/line	
Dimensions	33" x 17" x 13"	33" x 17" x 22"
Weight	60lbs	66lbs

CBS-880 Diagram

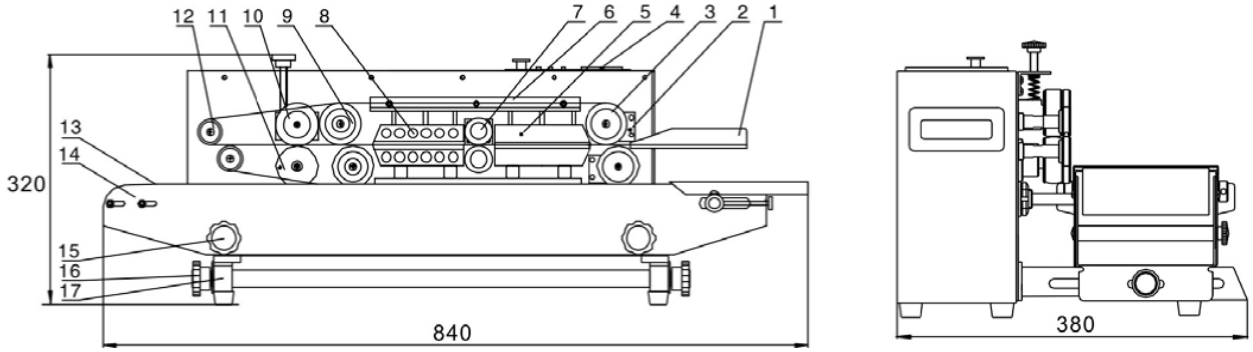


Figure 1. Horizontal Band Sealer (1) Guide, (2) Driven Wheel Seat (Adjusting Block), (3) Driven Wheel, (4) Control Panel, (5) Heating Block, (6) Holding Plate, (7) Pinch Roller, (8) Cooling Block, (9) Driving Wheel, (10) Embossing Roller, (11) Silicone Wheel, (12) Guiding Wheel, (13) Conveyor Belt, (14) Conveyor Table, (15) Fastening Knob for Elevating Table, (16) Transverse Tightening Knob for Conveyor Table, (17) Conveyor Support

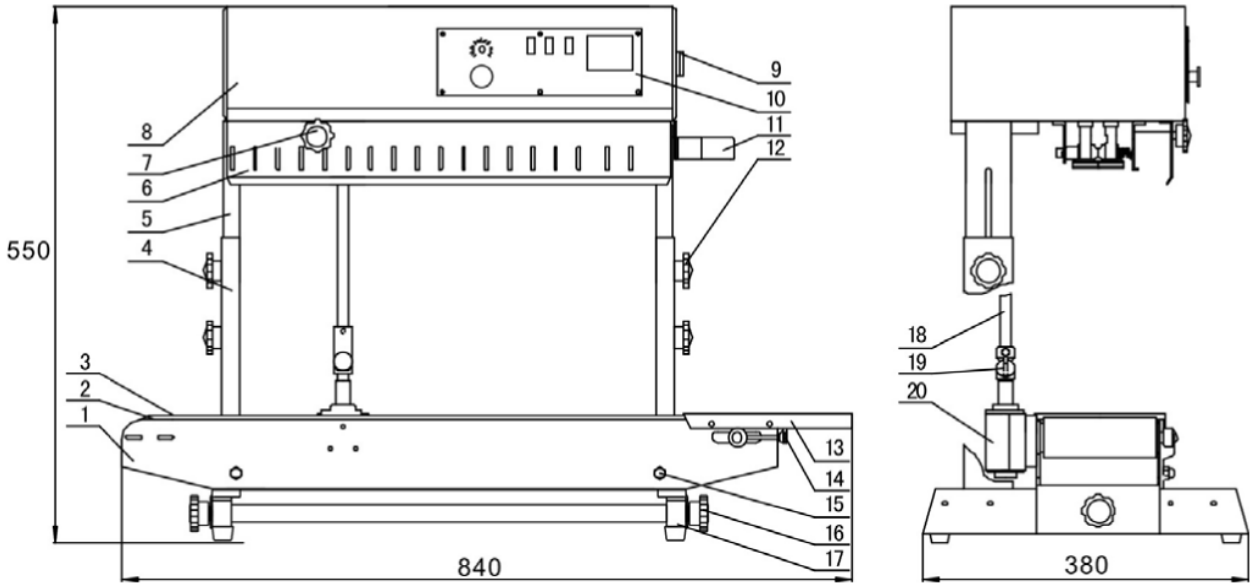


Figure 2. Vertical Band Sealer (1) Conveyor Table, (2) Driving Roller, (3) Conveyor Belt, (4) Fixed Bracket, (5) Slip Bracket, (6) Safety Cover, (7) Adjusting Knob for Embossing Roller, (8) Housing, (9) Circuit Breaker, (10) Control Panel, (11) Feed Opening, (12) Fastening Knob, (13) Worktable, (14) Adjusting Knob for Conveyor Belt, (15) Tightening Nut, (16) Transverse Tightening Knob for Conveyor Table, (17) Conveyor Support, (18) Vertical Shaft, (19) Gimbel Assembly, (20) Umbrella Gear Shaft

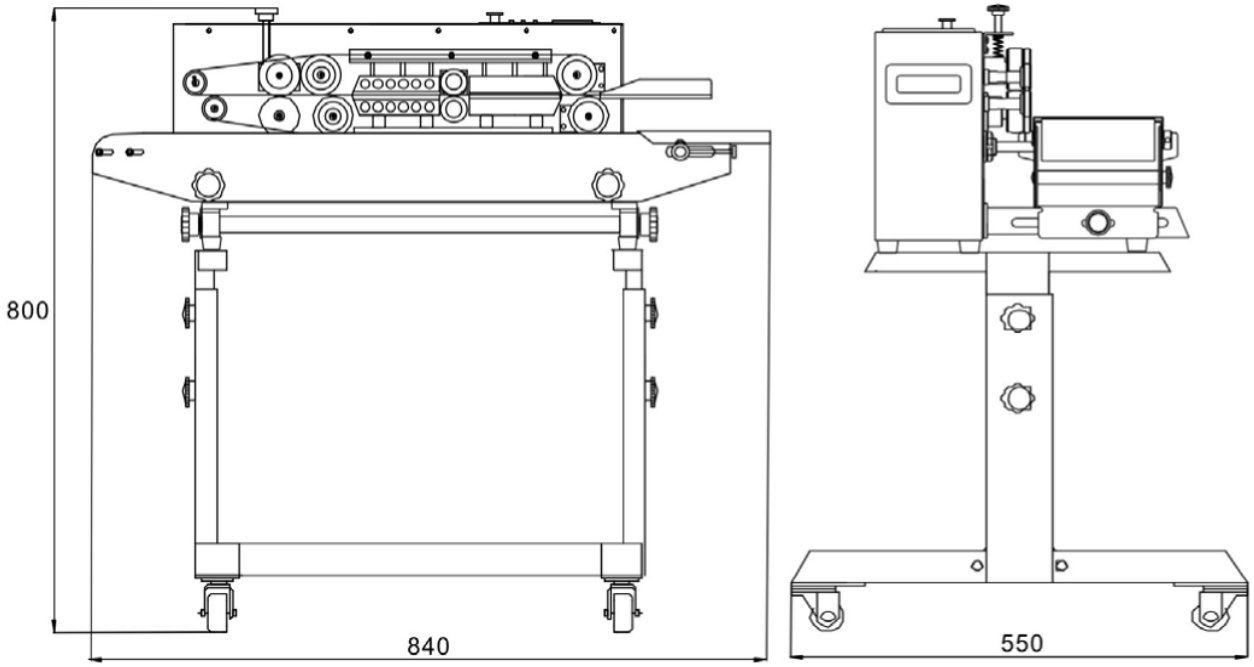


Figure 3. Horizontal Band Sealer with Stand. Optional stand available for CBS-880. Please ask your distributor.

Getting to Know your Band Sealer

Electrical Circuit Diagram

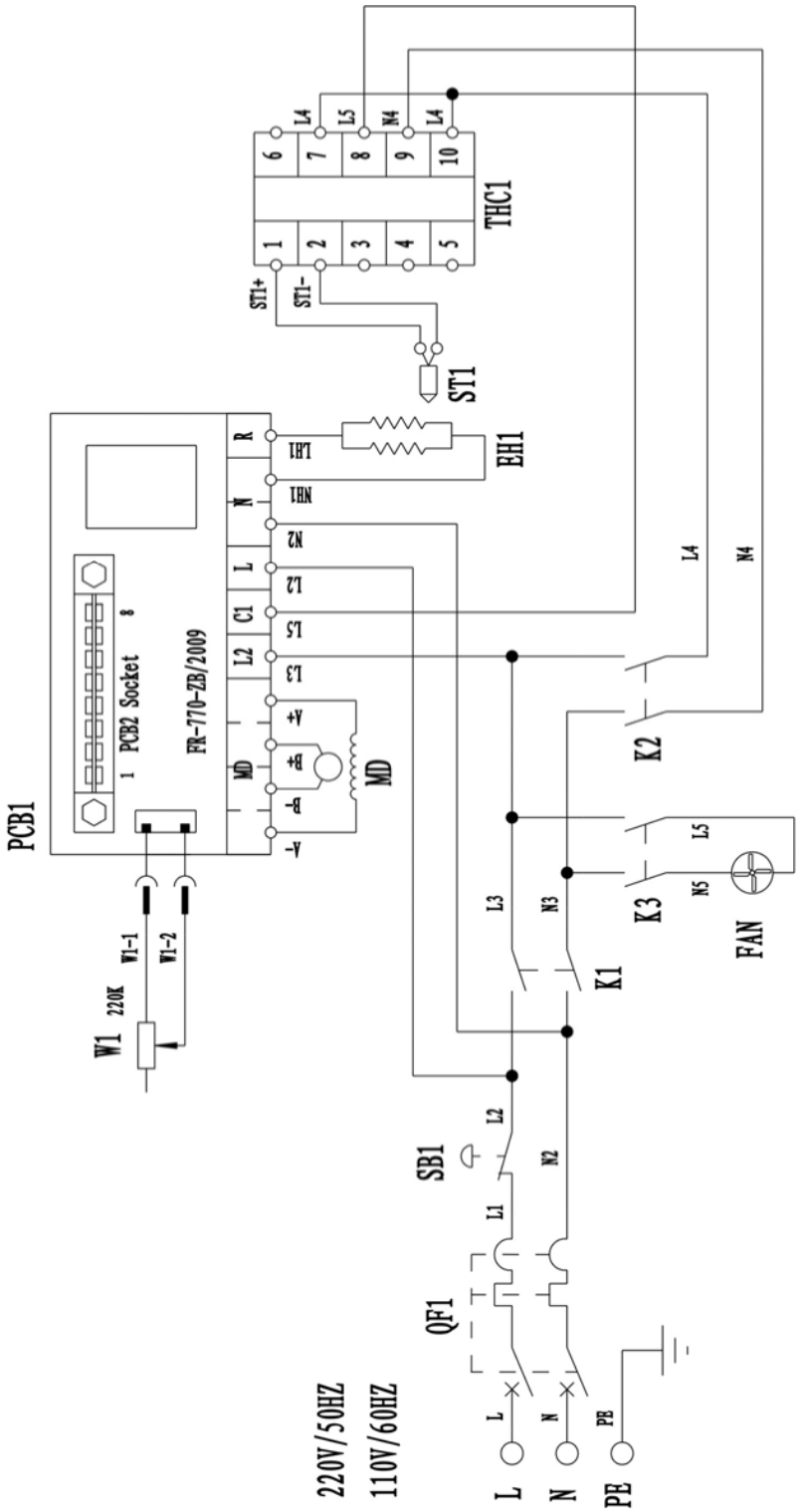


Figure 4. Electrical Circuit Diagram. (QF1) Breaker, (SB1) Switch/Emergency Stop, (K1) Switch/On-Off, (K2) Switch/Seal, (K3) Switch/Fan, (MD) DC Motor, (FAN) Axial-Flow Fan, (THC1) Temperature Controller, (ST1) Thermocouple, (HE1) Heating Element, (W1) Potentiometer, (AP1) Speed-Regulating PCB

Operating Your Band Sealer

Important

Read this manual carefully, and make it available to everyone connected with the supervision, maintenance, or production of this machine. Additional copies are available at your request. (Contact your distributor for this information.) Be very careful when operating, adjusting, or servicing this equipment. If in doubt, stop and obtain qualified help before proceeding.

Installation

Place the band sealer in the desired location with the required electrical power source available. (See power requirements.) Make certain that proper electrical wiring is provided to guard against low voltage. If the voltage is too low, the equipment will not function properly.

Finding the proper location is a most important function of the initial set-up. One must take several factors into consideration:

- Adequate power source
- Relationship to source of product
- Relationship to band sealer
- Relationship to any conveyors necessary to remove finished product
- Convenience of operator

Initial Set-up

If you have not already done so, please unpack your machine, carefully checking the contents against the spare parts list (See Spare Parts List on page 39). Once you have determined that all of the parts have arrived in good order set up can proceed. If any parts are missing or appear to be damaged, please notify your distributor or Sealer Sales AND your freight company at once.

To prevent damage to the band sealer, the band sealer body and conveyor are shipped disconnected. Please follow these simple steps to connect the drive shaft **(Figure 34, Item #17)** on the band sealer body with the conveyor middle post **(Figure 40, Items #5, 14-18)** on the band sealer conveyor. ***Please disregard if you purchased the CBS-880II vertical band sealer and follow the vertical configuration set up instructions.***

1. Loosen the knobs for the conveyor table to move the conveyor table forward.

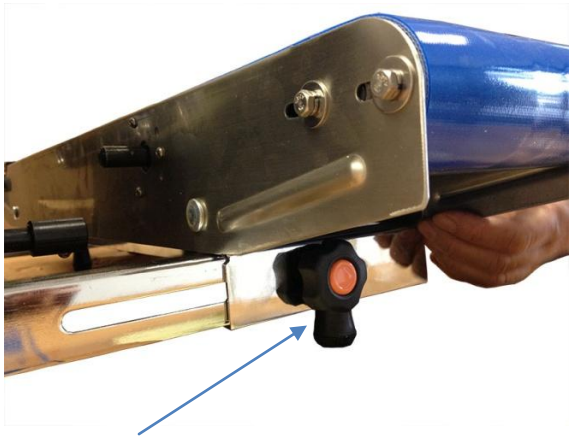


Figure 5. Two flower shaped knobs are found under conveyor.

2. Loosen the screw on the drive shaft and insert the conveyor middle post (found on the conveyor table) to the drive shaft. Be sure the groove on the conveyor middle post lines up along the screw on the drive shaft. Move the conveyor belt as needed to allow the conveyor middle post to meet with the drive shaft. Once the conveyor middle post is in place, tighten the screw on the drive shaft to lock the conveyor middle post in place.

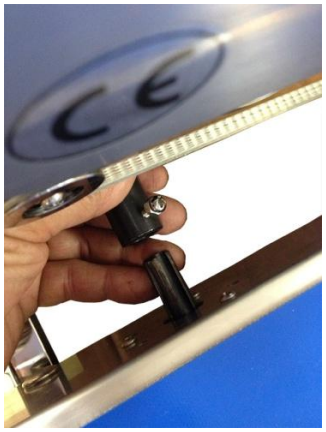


Figure 6. Insert the conveyor middle post in drive shaft. Make sure grooves are aligned.

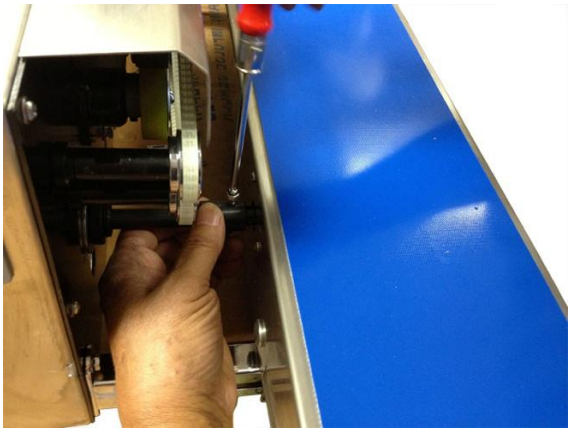


Figure 7. Tighten the screw on the drive shaft to lock the conveyor middle post in place.

3. Tighten the round nut **(Figure 34, Item #18)** along the drive shaft as well as the knobs and in front of the band sealer **(Figure 40, Item #12)**

Operation Set-up

1. Our machines are equipped with a three-prong grounded plug. Make sure the plug is well-connected in the socket to ensure safe operation.

2. Make sure the circuit breaker is in the "ON" position. (Levers pointing up)

3. First time operation. Allow the machine to pre-heat by running at a low temperature for a few minutes. This would apply if the machine has not been in operation for a long time. The machine can sometimes be damp from storage or shipment and running at a low temperature will dry out any residual moisture.

4. Adjust the conveyor position forwards or backwards. Refer to **Figure 8** for knob adjustments. For vertical configuration only, adjust the height of the band sealer appropriate for your bag to be sealed.

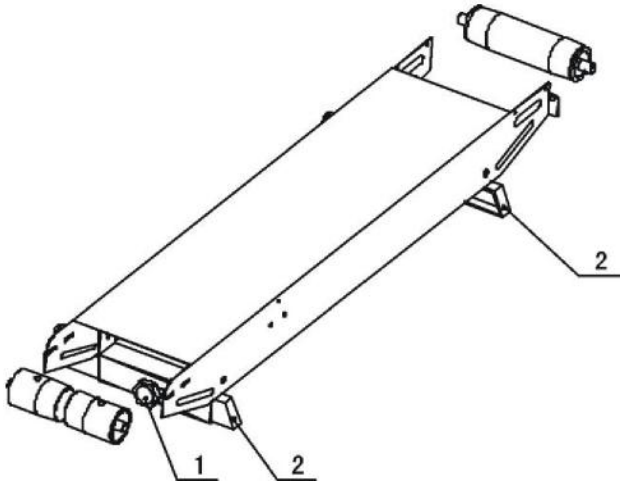


Figure 8. (1) Adjusting Knob, (2) Foot Rest

5. Adjust the guide to adjust seal width and position of seal line on your material.

Operation

Figure 9. Control Panel of CBS-880

1. Switch the circuit breaker **(Figure 44 , Item #7)** to the "On" position.

2. Turn Power, Heater, and Fan switches to the "On" position. Belts and conveyor will begin to move simultaneously.

3. Emergency Stop – Press the emergency stop to turn off the machine. In order to restart the machine, you must release the emergency stop by turning the knob 120° clockwise.

4. Adjust the conveyor speed.

5. Adjust the temperature controller to the temperature desired to seal your material. Temperature settings will vary based on bag material and thickness. If you are unsure what temperature setting to use, we recommend starting at a low temperature and gradually increase to a temperature that will seal your material. The PV value (red light) is the actual temperature and the SV value (green light) is the desired temperature setting.

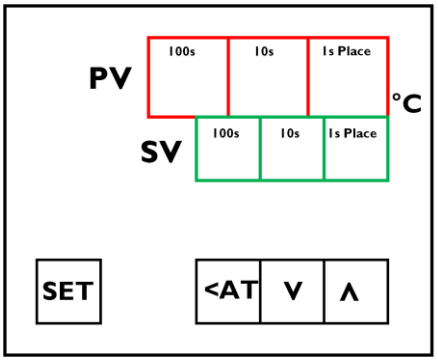


Figure 10. CBS-880 Temperature Controller

   a. To set the temperature, press the SET button.

   b. Press the <AT (auto tuning) button to move from the ones, tens, and hundreds place. Adjust the value using the up and down arrows.

   c. Press the SET button to save the temperature settings. Your desired temperature settings should appear in green in the SV Value.

d. Wait until the PV temperature matches the SV temperature which should take approximately 5-10 minutes.

6. Adjust the pressure knob **(Figure 34 , Item #7)** on your band sealer depending on the thickness of your bag material.

7. Place material on the guide **(Figure 34 , Item #1)** and allow the band sealer to pull your material through. Make sure your material is flat on the guide. While the material is moving through the band sealer, do not push or pull the material as this will cause irregular sealing.

8. If the sealing belt is running off the guide wheels, make adjustments to the screws that are found on the driven wheel seat **(Figure 11, Item #1 & 2)**

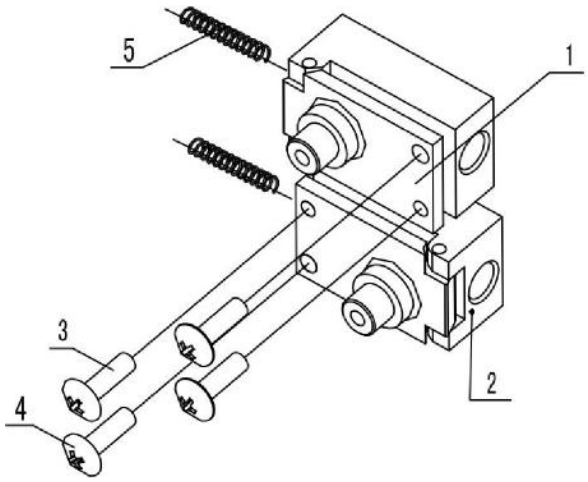


Figure 11. (1) Driven Wheel Seat (Adjusting Block), (2) Driven Wheel Seat (Adjusting Block), (3)/(4) Adjusting Screws, (5) Springs

9. To shut down, turn off the heater switch and allow the temperature of the machine to drop before turning off the power and fan switches. *Following the shut down procedure will significantly prolong the life of machine and sealing belts.*

Installing the Embossing Wheel (Optional Feature)

CBS-880 can be equipped with an optional embossing function. The embossing coder will continually emboss characters directly on your bag. The coder uses pressure and does not use ink to print. The CBS-880 embossing wheel is equipped for 1-line embossing with 15 characters. There are three sections so three sets of characters are needed. Optional feature: 2-line embossing which can be purchased separately.

1. Place the key in the groove of the embossing wheel plate and turn counter clockwise to loosen the print wheel plate. (Figure 12) Remove the embossing wheel plate, as well as the o-ring (Figure 13)

Figure 12

Figure 13

2. Carefully install your typesets in each of the three cavities. Once all cavities are filled, place the o-ring and print wheel plate back in place. Using the key, carefully turn clockwise to lock wheel plate. Make sure none of the typesets are pushed out of the cavity by holding the typesets in place as you turn the key.

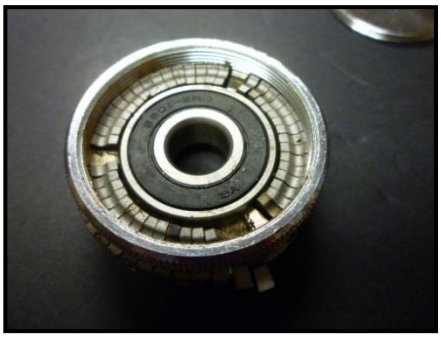


Figure 14

Figure 15

3. Unscrew and remove the pattern knurled wheel on the sealer. Replace with the embossing wheel by lifting the embossing wheel seat and pushing the embossing wheel in place. Please note: remove safety cover before accessing the embossing wheel.

Sealing & Printing Optimization

1. Sealing performance can be adjusted with the sealing temperature and sealing speed. The higher the speed the less exposure the material and therefore a higher temperature will be required to seal the material.

2. Try a variety of different sealing temperatures and conveyor speeds to get the optimal seal for your material.

3. Make adjustments to the pressing wheel with the pressure knob **(Figure 34 , Item #7)** to ensure a good quality seal as well as a clear and visible embossed image.

Vertical Configuration Set-Up

To use the CBS-880 in its vertical configuration, please follow the instructions below. If you purchased the CBS-880I horizontal band sealer and wish to use your band sealer in the vertical configuration, please order the conversion kit (Part # CBS-880-72) from your distributor.

Figure 16. CBS-880II – Vertical CBS-880 Band Sealer for sealing liquids and stand up pouches

1. Detach the conveyor table by removing the two knobs under the conveyor table. Slide the conveyor table off the conveyor support.

2. Remove the drive shaft **(Figure 34 , Item #17)** and loosen the round nut **(Figure 34 , Item #18).**

Figure 17. Remove the two knobs underneath the conveyor to slide the conveyor off the conveyor support.

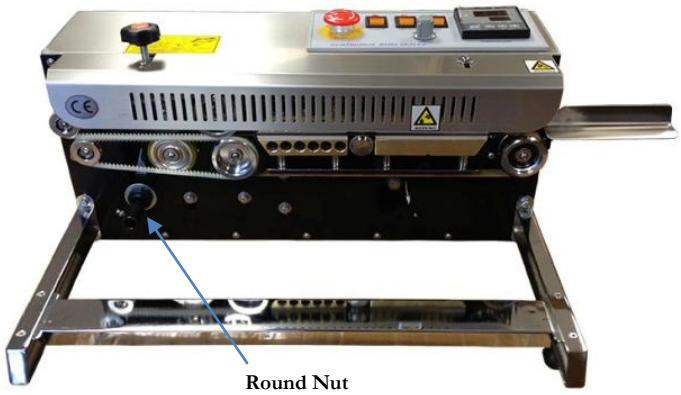


Figure 18. After removing the conveyor, remove the drive shaft and loosen the round nut.

3. Assemble the vertical stand as in the diagram below.

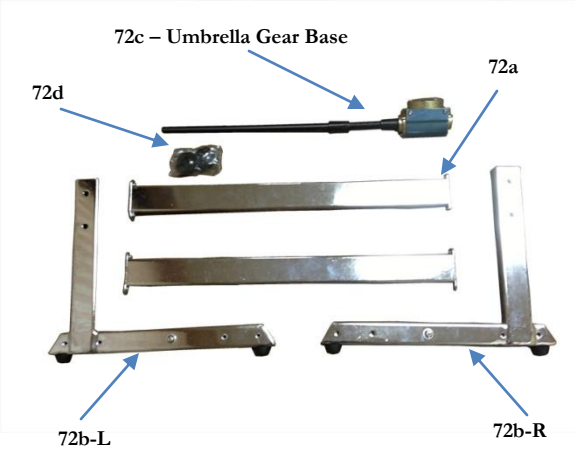


Figure 19. Parts needed to convert to the vertical configuration.

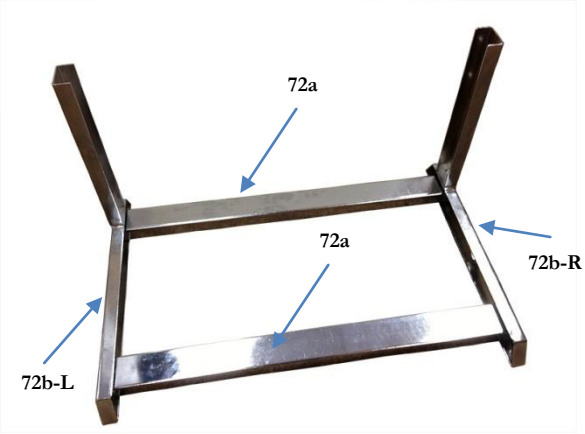


Figure 20. Assemble vertical stand as shown above.

4. Remove the cover from the Umbrella Gear **(Figure 45, Item #4).** Set aside for later.

Figure 21. Remove the cover from the umbrella gear by removing the four screws on the side of the gear.

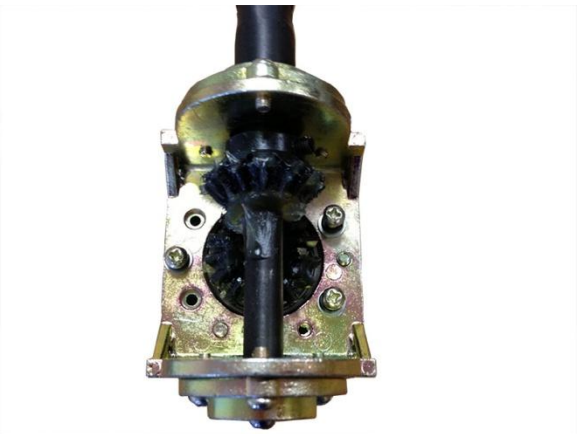


Figure 22. Umbrella Gear without the cover.

5. Turn the umbrella gear over and remove the three screws/nuts. Keep screws aside for later.

Figure 23. Remove the three screws and nuts on the umbrella gear.

Figure 24. Umbrella Gear without the screws.

6. Insert the long drive shaft of the Umbrella Gear into the axis hole. Take note of the alignment groove.

Figure 25. Insert umbrella gear into the axis hole.

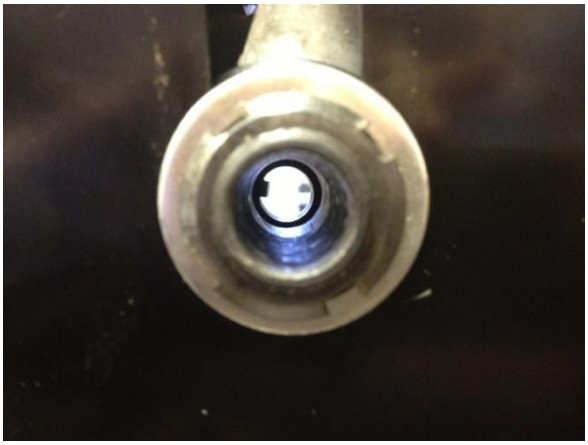


Figure 26. Take note of the alignment grove in the axis hole.

7. Insert the vertical stand from step 3 into the conveyor support. Tighten both sides with screw and knob. (Note: this is the sealing height regulator).

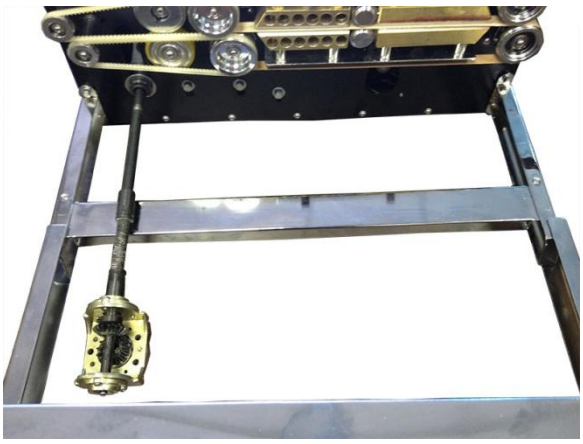


Figure 27. Insert the vertical stand on the conveyor support..

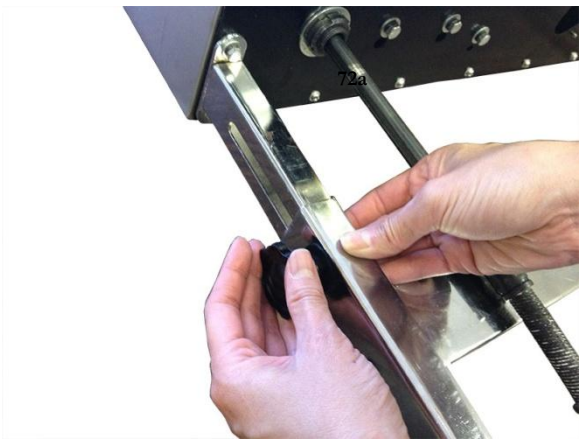


Figure 28. Tighten both sides with screw and knob. You can make adjustments to the height of your band sealer.

8. Position the groove of the short drive shaft on the conveyor table unto the groove of the umbrella gear. Do not lock the umbrella gear to the conveyor table yet. Tighten the knobs under the conveyor to lock the conveyor in place.

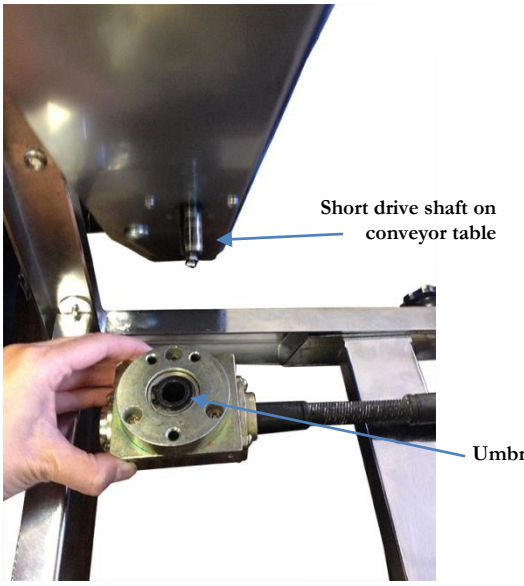


Figure 29. Insert the short drive shaft on the conveyor unto the groove of the umbrella gear.

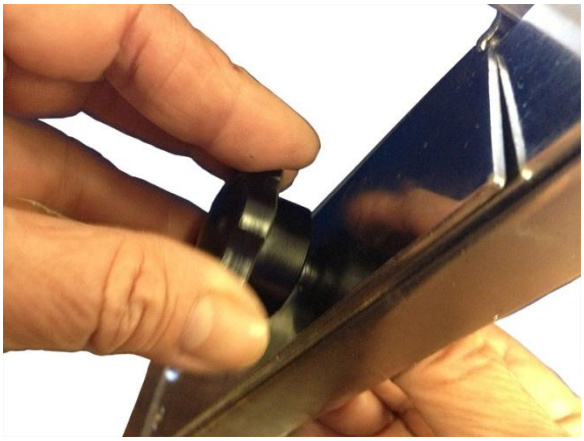


Figure 30. Tighten screw and knob on both sides under the conveyor to lock conveyor in place.

9. Position the band sealer in the upright position. The height between the sealing bars and the conveyor table can be adjusted using the sealing height regulator. In some cases, the drive shaft may protrude from the back cover.

10. Move the conveyor belt until the grove of the short drive shaft on the conveyor table is locked in place with the groove of the umbrella gear. Be sure there is no space in between as it should fit exactly (moving the conveyor belt will turn the long shaft.) Set the three screws.

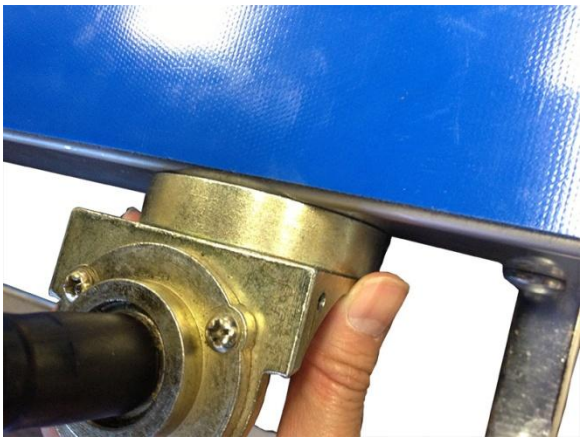


Figure 31. Umbrella gear and the conveyor should be flush against each other. Move the conveyor belt in order to align the groves.

Figure 32. Set the three screws back on the umbrella gear.

11. Replace the cover on the Umbrella Gear.
12. Final tuning:
    a. To adjust height, use the sealing height regulator.
    b. To adjust conveyor table, use knob under the conveyor table. **(Figure 43, Item #14)**

Maintenance

The following maintenance procedures should be followed to ensure the longevity of your CBS-880 band sealer.

Inspection and Cleaning

1. Inspect your machine daily.
2. Check if there is any foreign matter or dirt adhering to the band sealer.
3. To clean your band sealer, wipe down your sealer with silicone spray and a shop cloth. Do not apply silicone directly to your sealer. Definitely DO NOT wash down your machine with water.

Sealing and Drive Belts

1. Check and replace the belts as necessary. Both the sealing and drive belts are consumable items. Replace sealing belts when there are burn marks or if the belts become hard and brittle. Replace drive belts when the belts break or become badly cracked.
2. To change out the belts, make sure the machine is turned off.
3. Remove the safety cover **(Figure 34, Item #6)**.
4. Remove the two drive belts.
5. To remove the sealing belts, push on the adjustment blocks **(Figure 34, Item #3 & 20)** and the sealing belts should easily slip off.
6. Put new sealing and/or drive belts back on the machine. Test the machine, making adjustments as necessary.
7. Replace the safety cover.
8. Check our YouTube channel (https://www.youtube.com/user/sealersales) for a video demo.

Turbocase Maintenance

1. Remove dust and clean motor at regular intervals. Avoid contact with alcohol, gasoline and benzene chemicals.

2. The turbocase should be oiled monthly with 50g 20# oil by:

    a. Remove the back cover.

    b. Locate the turbocase and unscrew the cap. Replenish any depleted gear oil with 50g 20# oil.

3. The motor brush **(Part#BS-29A)** is designed to be used 2,500 hours continuously. Replace carbon brush at regular intervals.

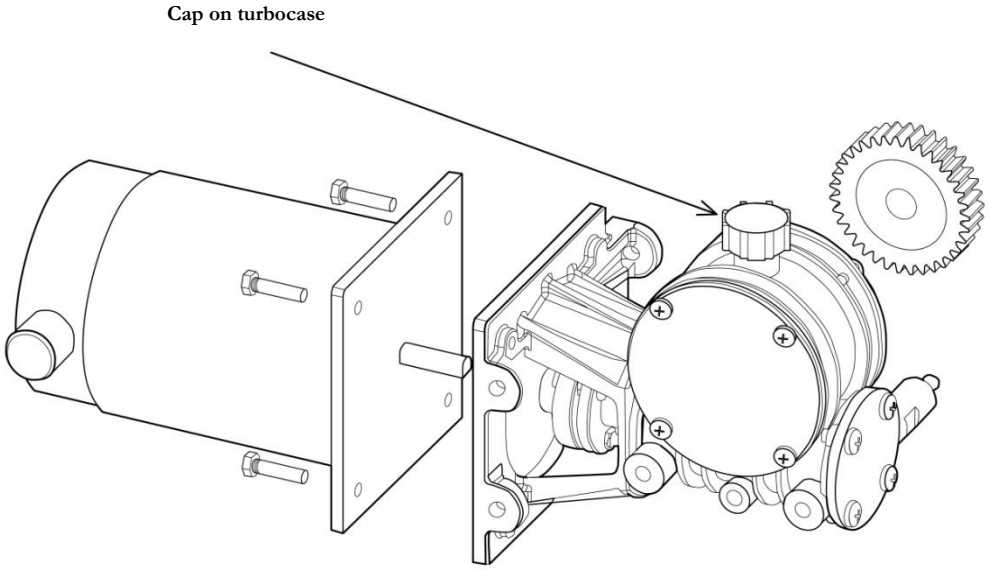


Figure 33. Turbocase cap.

Parts Diagram

To order spare parts, please use diagram and part #s below:

Figure 34 – Spare Parts Diagram Overview

Figure 36 – Heating / Cooling Blocks

Figure 38 – Gears

Figure 40 – Conveyor Table

Figure 42 – Motor / Turbocase

Figure 43 – Sealer Body

Figure 45 – Umbrella Gear (only in CBS-880II units)

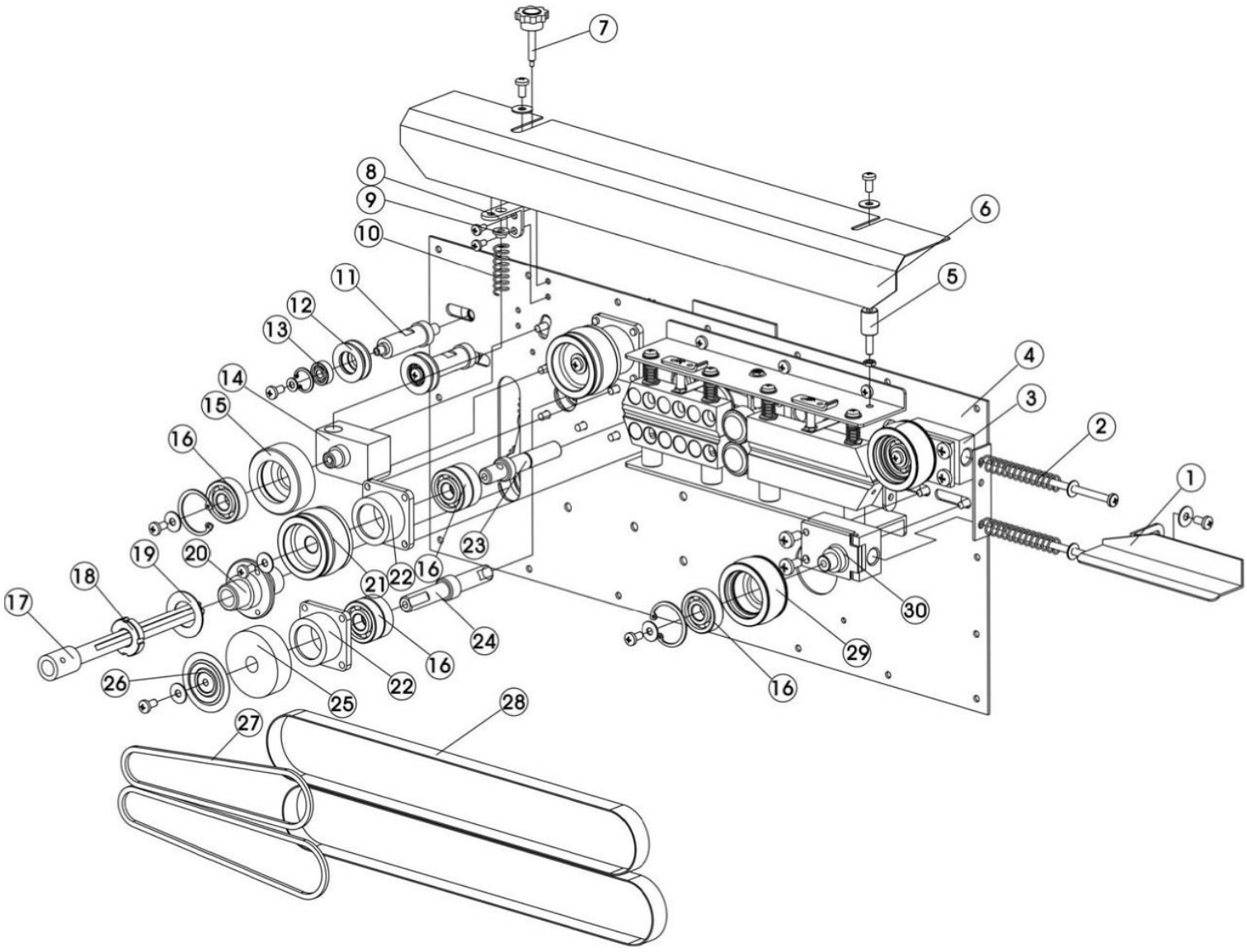


Figure 34. Spare Parts Diagram Overview

Figure 35. Spare Parts Diagram Overview

Item	Part #	Quantity	Description	Comments
1	**CBS-880-44**	1	feed opening	
2	**CBS-880-13A**	2	spring for driven wheel seat	
3	**CBS-880-13**	1	upper driven wheel seat	
4	**CBS-880-84**	1	bottom board	steel: 102102-3
5	**CBS-880-8-5**	1	support for safety cover	
6	**CBS-880-7**	1	safety cover	
7	**BS-5**	1	672 corrugated knob (M8X35)	
8	**BS-5B**	1	supporting board for adjusting embossing roller	
9	**BS-5C**	1	spring seat of embossing roller	
10	**BS-5A**	1	spring of embossing roller	
11	**CBS-880-6B**	2	small pulley shaft	
12	**CBS-880-6A**	2	small pulley	**Includes #12, #13**
13	**CBS-880-6A**	2	606-2Z bearing	**Includes #12, #13**
14	**CBS-880-4**	1	embossing roller seat	
15	**CBS-880-3**	1	embossing roller w/ cavities for types	**Includes #15, #16**
15	**CBS-880-3A**	1	embossing roller, knurled wheel / meshed	**Includes #15, #16**
16	**CBS-880-6-26**	9	6201-Z bearing	
17	**CBS-880-40**	1	drive shaft	
18	**CBS-880-42**	1	round nut	**Includes #18, #19**
19	**CBS-880-42**	1	big washer	**Includes #18, #19**
20	**CBS-880-42a**	1	connection shaft	
21	**CBS-880-6**	2	driving wheel	
22	**CBS-880-6-27A**	3	square bearing seat	
23	**CBS-880-6-25**	2	driving wheel shaft	
24	**CBS-880-2-31**	1	silicone wheel shaft	
25	**CBS-880-2**	1	silicone wheel	
26	**CBS-880-2-33**	1	silicone wheel cover	
27	**CBS-880-26**	2	guiding belt	428X6X4(40)
28	**CBS-880-10**	2	sealing belt	770X15X0.2
29	**CBS-880-12**	2	driven wheel	
30	**CBS-880-13**	1	bottom driven wheel seat	

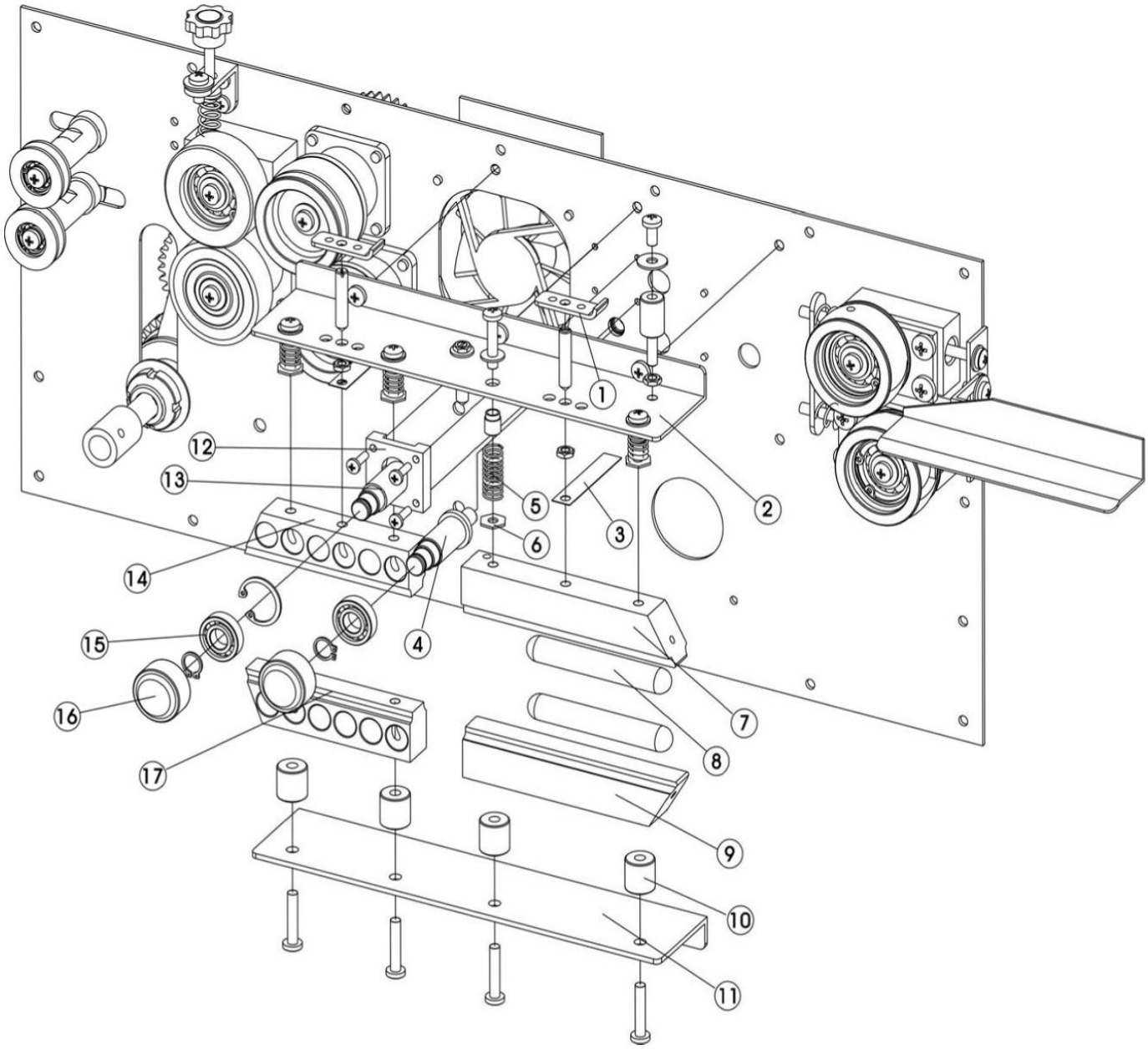


Figure 36. Heating / Cooling Blocks

Figure 37. Heating / Cooling Blocks

Item	Part #	Quantity	Description	Comments
1	**BS-9I**	2	stopping flake	
2	**CBS-880-9-2**	1	upper holding plate	
3	**BS-9J**	2	hanger plate of copper block	
4	**CBS-880-21-19**	1	lower pressing wheel shaft	
5	**BS-9D**	4	spring for copper block	
6	**BS-9F**	4	self-made hexagon thin nut	
7	**CBS-880-9A**	1	upper heating block (770)	**Includes #7, #9**
8	**BS-9B**	2	300W/110V(Φ12X95) heating pipe for sealing	
9	**CBS-880-9A**	1	bottom heating block (770)	
10	**CBS-880-9-10**	4	copper block cushion	
11	**CBS-880-9-11**	1	bottom holding plate	
12	**CBS-880-21-23**	1	slide seat for pressing wheel	
13	**CBS-880-21-24**	1	upper pressing wheel shaft	
14	**CBS-880-8**	1	upper cooling block	**Includes #14, #17**
15	**CBS-880-21**	2	61900-2Z bearing	**Includes #15, #16**
16	**CBS-880-21**	2	pressing wheel / pinch roller	**Includes #15, #16**
17	**CBS-880-8**	1	bottom cooling block	**Includes #14, #17**
	CBS-880-21uppercomplete		upper pressing wheel shaft assembly	**Includes #12-13, 15-16**
	CBS-880-21lowercomplete		lower pressing wheel shaft assembly	**Includes #4, 15-16**

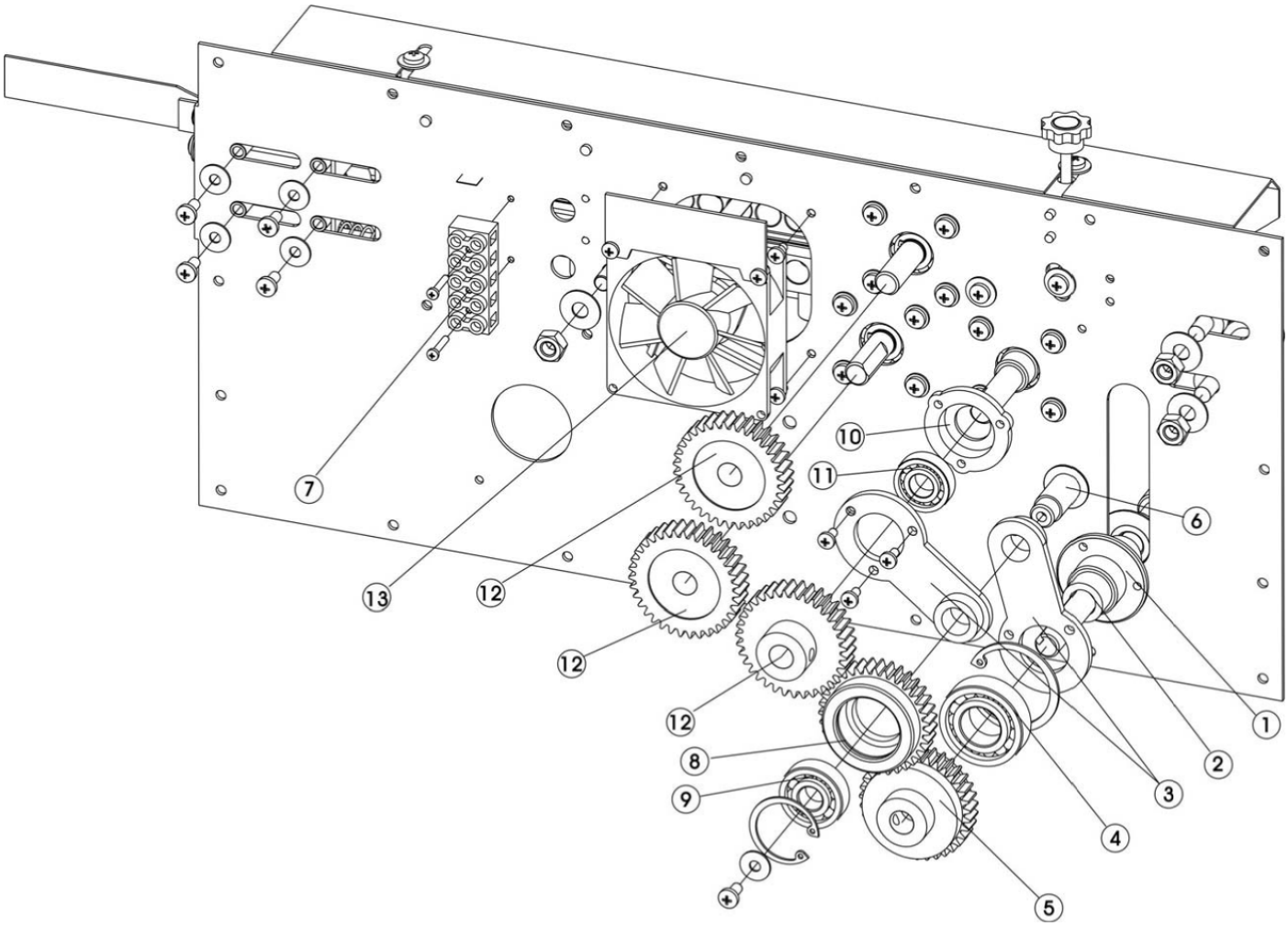


Figure 38. Gears

Figure 39. Gears

Item	Part #	Quantity	Description	Comments
1	**CBS-880-42a**	connection shaft	1	
2	**CBS-880-40**	transmission shaft	1	
3	**BS-35A**	connection board II	1	**Includes #3-6,#8-11**
4	**BS-35A**	6004-2Z bearing	1	**Includes #3-6,#8-11**
5	**BS-35A / BS-35A-1**	steel gear	1	**Includes #3-6,#8-11**
6	**BS-35A**	gear shaft	1	**Includes #3-6,#8-11**
7	**BS-33B**	10 pin wiring terminal(orange)	1	
8	**BS-35A**	middle gear	1	**Includes #3-6,#8-11**
9	**BS-35A**	6201-Z bearing	1	**Includes #3-6,#8-11**
10	**BS-35A**	bearing seat(three-hole)	1	**Includes #3-6,#8-11**
11	**BS-35A**	6001-2Z bearing	1	**Includes #3-6,#8-11**
12b	**BS-35B**	driven gear	1	
12c	**BS-35C**	driven gear	2	
13	**CBS-880-32**	axial fan	1	

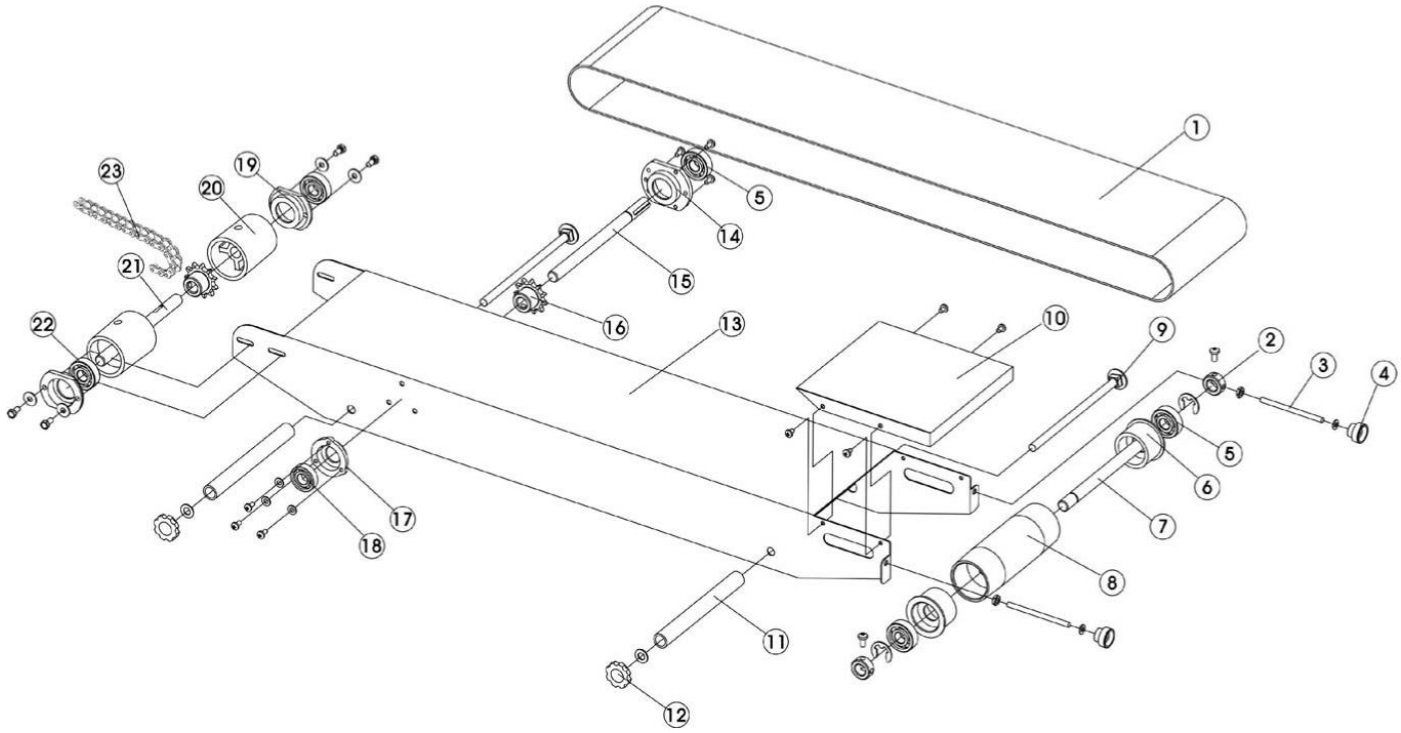


Figure 40. Conveyor Table

Figure 41. Conveyor Table

Item	Part #	Description	Quantity	Comments
1	**CBS-880-1**	conveyor belt	1	
2	**BS-16**	adjusting block for conveyor belt	2	**Includes #2, 3, 4**
3	**BS-16**	double end bolt	2	**Includes #2, 3, 4**
4	**BS-16**	adjusting knob for conveyor table	2	**Includes #2, 3, 4**
5	**CBS-880-41**	6201-Z bearing	3	**Includes #5, 14-18**
6	**CBS-880-36**	bearing seat of rear roller	2	**Includes #5, 6, 7, 8**
7	**CBS-880-36**	rear shaft of conveyor table	1	**Includes #5, 6, 7, 8**
8	**CBS-880-36**	rear roller of conveyor table	1	**Includes #5, 6, 7, 8**
9	**CBS-880-18 / CBS-880-18B**	half-round square neck bolt	2	**Includes #9, 11, 12**
10	**CBS-880-15**	worktable	1	**specify flat or curved edges**
11	**CBS-880-18**	plastic spacer	2	**Includes #9, 11, 12**
12	**CBS-880-18 / BS-17**	knob	2	**Includes #9, 11, 12**
13	**CBS-880-20**	conveyor table	1	
14	**CBS-880-41**	bearing seat	1	**Includes #5, 14-16**
15	**CBS-880-41**	middle shaft of conveyor table	1	**Includes #5, 14-16**
16	**CBS-880-41a**	sprocket of conveyor table	2	**Includes #5, 14-16**
17	**CBS-880-41-17**	bearing seat (three-hole)	1	
18	**CBS-880-41-18**	6001-2Z bearing	1	
19	**CBS-880-37**	two-eye bearing seat	2	**Includes #19, 20, 21, 22**
20	**CBS-880-37**	front roller of conveyor table	2	**Includes #19, 20, 21, 22**
21	**CBS-880-37**	front shaft of conveyor table	1	**Includes #19, 20, 21, 22**
22	**CBS-880-37**	6201-2Z bearing	2	**Includes #19, 20, 21, 22**
23	**CBS-880-38**	chain (48 segments)	1	

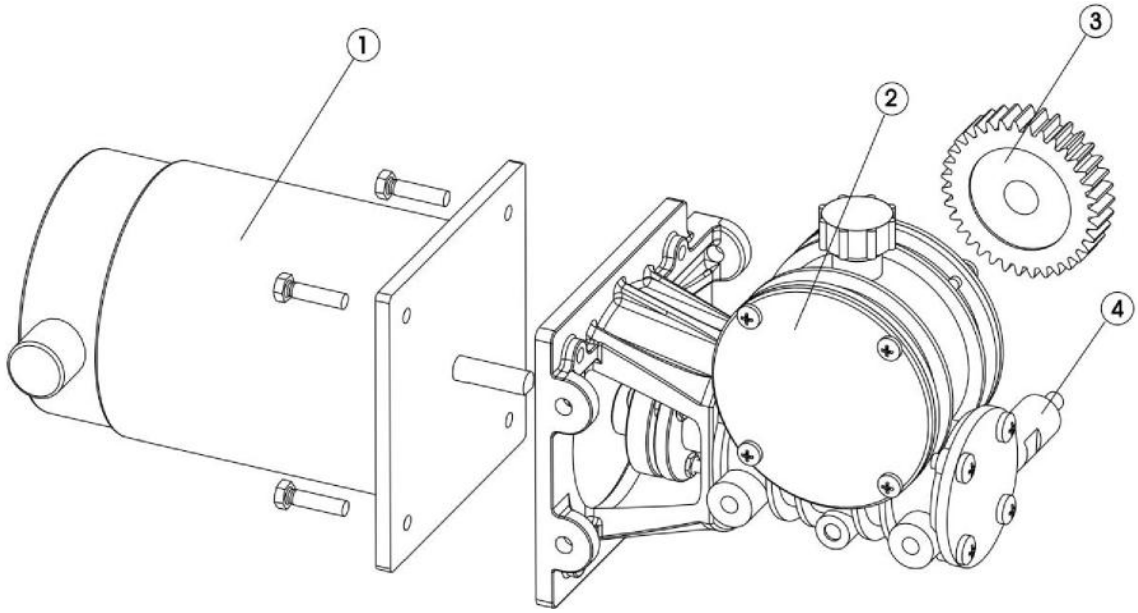


Figure 42. Motor / Turbocase

Item	Part #	Description	Quantity	Comments
1	**CBS-880-29**	110V DC motor	1	
	BS-29A	motor brush	2	Not shown. In motor.
2	**CBS-880-30**	worm-gear case assembly	1	
3	**BS-35B**	driving gearwheel	1	
4	**CBS-880-12-4**	pig iron gearwheel / turbocase support	1	

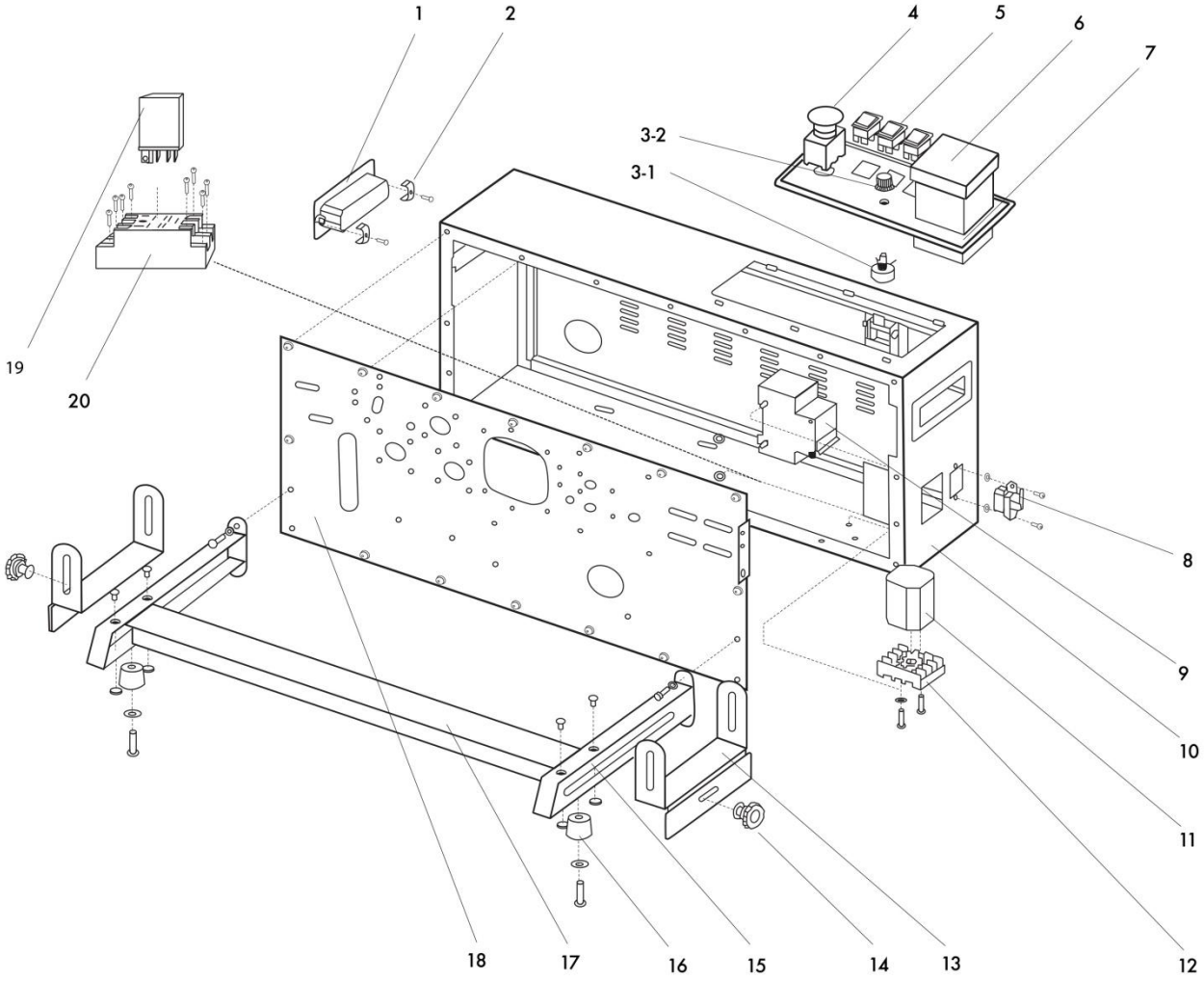


Figure 43. Sealer Body

Figure 44. Sealer Body

Item	Part #	Description	Quantity	Comments
1	**CBS-880-88-1**	handle support	2	**Includes #1, #2**
2	**CBS-880-88-1**	handle clamp	4	**Includes #1, #2**
3-1	**BS-25**	carbon-film potentiometer 220K	1	
3-2	**BS-25A**	K18-2 knob	1	
4	**BS-22A**	emergeny stop switch	1	
5	**BS-22**	springboard switch	3	**specify large or small**
6	**TMC-XMTE-1000-2**	temperature controller - gen 1.0	1	**determine version by taking temperature controller out**
	TMC-XMTE-1000-2-O	temperature controller - gen 2.0		**determine version by taking temperature controller out**
7	**CBS-880-83**	plastic panel	1	**A: old gen / B: new gen**
8	**BS-14**	10ª socket		
9	**BS-27**	DZ47-2P/5A breaker	1	
10	**CBS-880-88**	housing	1	
11	**BS-52A**	speed-regulating PC board	1	
12	**BS-45A**	PF083A socket	1	
13	**CBS-880-18**	transition table support	2	**Includes #13, #14**
14	**CBS-880-18**	(674 Knob) handle	2	**Includes #13, #14**
15	**CBS-880-68**	foot	2	**specify left or right**
16	**BS-67B**	rubber foot pad	2	**specify A or B**
17	**CBS-880-68B**	rail	1	
18	**CBS-880-88-18**	soleplate (electrophoresis)	1	Steel: 102102-3
19	**R-JQX-13F**	relay	1	

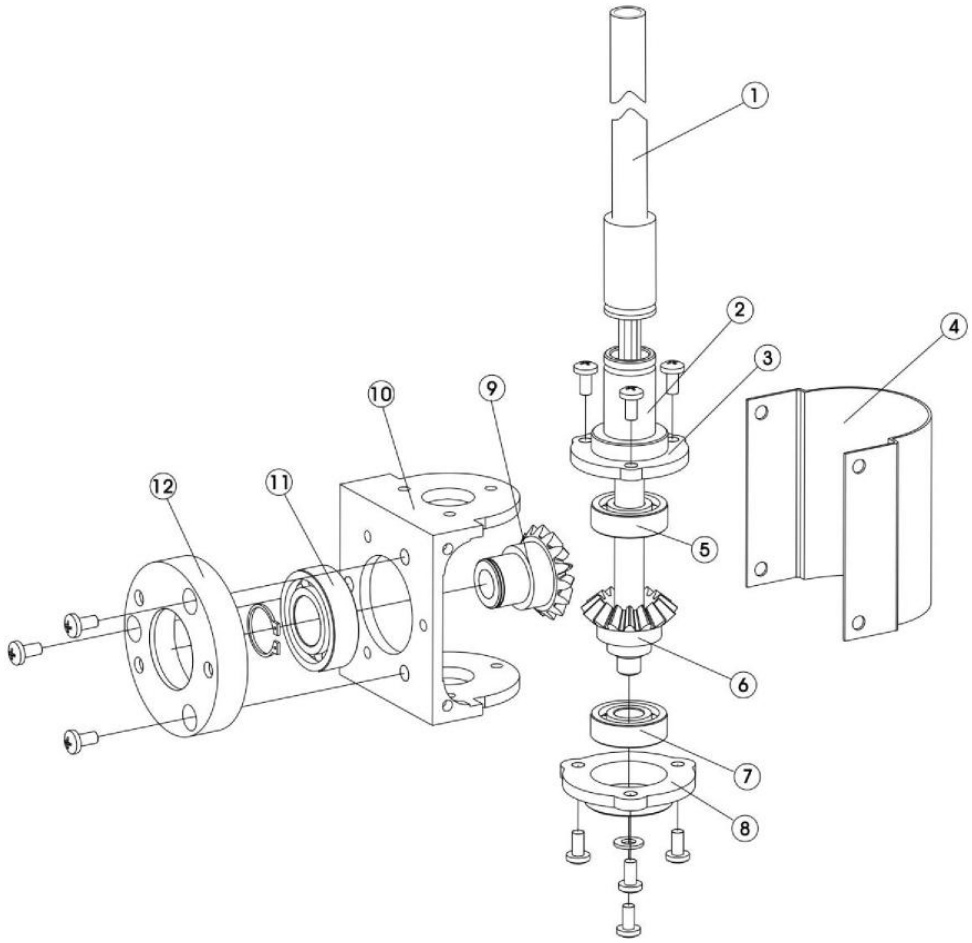


Figure 45. Umbrella Gear (only in CBS-880II units)

Item	Part #	Description	Quantity	Comments
1	**CBS-880-72c**	driving shaft I	1	**Umbrella Gear Base - Parts #1-12**
2	**CBS-880-72c**	driving shaft II	1	**Umbrella Gear Base - Parts #1-12**
3	**CBS-880-72c**	bearing support (big)	1	**Umbrella Gear Base - Parts #1-12**
4	**CBS-880-72c**	conical gear support cover	1	**Umbrella Gear Base - Parts #1-12**
5	**CBS-880-72c**	6000-2Z bearing	1	**Umbrella Gear Base - Parts #1-12**
6	**CBS-880-72c**	short conical gear	1	**Umbrella Gear Base - Parts #1-12**
7	**CBS-880-72c**	608 bearing	1	**Umbrella Gear Base - Parts #1-12**
8	**CBS-880-72c**	bearing support (small)	1	**Umbrella Gear Base - Parts #1-12**
9	**CBS-880-72c**	long conical gear	1	**Umbrella Gear Base - Parts #1-12**
10	**CBS-880-72c**	conical gear support	1	**Umbrella Gear Base - Parts #1-12**
11	**CBS-880-72c**	6003-2Z bearing	1	**Umbrella Gear Base - Parts #1-12**
12	**CBS-880-72c**	double-purpose bearing support (big)	1	**Umbrella Gear Base - Parts #1-12**

Troubleshooting

Problem	Possible Causes	Solution
Sealing belt is off tracking.	Driving wheel shaft is not parallel to driven wheel shaft	Adjust two adjusting screws on the adjusting block seat (Part# CBS-880-13)
Sealing belts are tearing	1. Too much tension on sealing belt 2. Sealing belt is off tracking 3. Creases on the sealing belt 4. Residual film or other debris attached to the sealing belt	1. Adjust the vertical adjusting screw on driven wheel seal to decrease tension on sealing belt 2. see above 3. When installing belt, make sure no creases are found on belt 4. Clean surface of belt with cloth
Seal is crumpled and film sticks to sealing belts	1. Temperature is too high 2. Guide belt is not correctly in place 3. Plastic melted on the sealing belt	1. Reduce temperature 2. Adjust guide belt 3. Clean or replace sealing belt If any plastic melts on the sealing belt, your bags will stick to the melted plastic
Embossing is not clear	1. Embossing roller is worn out 2. Pressure spring on embossing roller needs to be tightened	1. Replace embossing roller 2. Adjust the embossing roller spring (Part# BS-5)
Material will not pass through sealing blocks	Clearance between heating blocks or cooling blocks may be too small	Adjust the clearance between blocks by adjusting the springs and stopping flakes found above the blocks
Conveyor belt is off tracking	Driving roller shaft is not parallel to the driven roller shaft	Adjust using the conveyor belt adjustment (Part# BS-16)
Conveyor and sealing belt are not moving at same speed	Not enough tension on conveyor belt	1. Tighten the chain of driving roller shaft (front shaft) and middle shaft. (Parts # CBS-880-37 and CBS-880-41) 2. Tighten the conveyor belt
Temperature doesn't rise or cannot be controlled	1. Heat switch is damaged 2. Heater (BS-9B) is damaged 3. Temperature Controller 4. Coupling	Replace: 1. Heat switch (BS-22-Large) 2. Heater (BS-9B) 3. Temperature Controller 4. Thermocouple (CBS-880-34)

Problem	Possible Causes	Solution
Motor runs at a high speed and cannot be regulated	Speed controller has malfunctioned	Replace the speed controller (BS-52A)
Power, heater, and or fan switches do not light up	1. No AC Voltage 2. Open Fuse 3. Lamp is damaged	Check power source / power cord Connect the power Replace the fuse Replace the lamp
Machine does not run	1. Board for speed regulation is abnormal 2. Doesn't connect well 3. Brushes in the motor are too short because of friction	1. Replace the speed board (BS-52A) 2. Tighten the connecting screws 3. Replace motor brushes (BS-29A) If the temperature controller works and the power lamp illuminates but the motor does not move, start off by checking the motor and turbocase connection. Remove the back of the machine and you will see bushing where the motor connects to the gear box. Ensure the bushing is not broken. There is also a set screw that connects the bushing to the gear box / motor shafts. Ensure that these are tight so that when the motor turns, the turbocase turns as well. If the turbocase is noisy before it stopped working, the gear box could be broken inside. Lack of oil could cause this. If the lamp illuminates and the motor does not turn, the motor speed controller may need to be replaced. Other things could be faulty or wires to the motor or the brushes in the motor are worn.

Spare Parts List

Spare Parts List

Included with your band sealer are the following parts. Please note that spare parts included with your band sealer are subject to change without notice.

- Power Cord (Part# PWC-CBS)
- PTFE Sealing Belts (Part# CBS-880-10)
- Drive Belts (Part# CBS-880-26)
- Speed Adjusting PC Board (Part# BS-52A)
- Optional: Typeset Box which includes numbers (0-9), Letters - EXD, embossing wheel, and key wrench

Quality Control Testing

Our band sealers are manufactured in a facility which is certified in accordance with ISO 9001:2008. In addition, we quality test all of our band sealers in our facility following a rigorous and exacting standards to ensure that the product you purchased is a high quality reliable machine.

✓ Steps	Description
	Inspect all wiring on the unit, nothing is loosely attached. Make sure all wires are connected correctly.
	Make sure all connections are tight and properly mounted. (Ex: PC Board, Relay)
	Check parts to ensure they are in proper working order (ex: wheels, belts, knobs, etc)
	CBS-880 only - Attach the conveyor to the body via the drive shaft (Part #40). Detach after testing.
	Turn on machine - start, seal, fan, printer Check all knobs to make sure they start and end in the correct position
	Make adjustments as necessary if there is any unusual noise. Noise should be under 80db.
	Check fan - There should be air coming out of the cooling blocks
	Check motor - motor brushes should be held in tightly
	Check conveyor belt to make sure the belt is running smoothly and evenly
	Run machine for at least 20 minutes - after the seal temperature has been reached, seal bag sample to ensure good quality seal
	Clean machine
	Enter serial # of the unit in the manual
	Repackage sealer w/ QC form, sealed bag / printed sample and manual.

Date:
Technician