TYRE CHANGER INSTRUCTION & MAINTENANCE MANUAL

We follow the way that wheel moving!



Read this entire manual carefully and completely before installation or operation of the tire changer

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Tyre Changer

Warning

This instruction manual is important for the machine, please read carefully before installation and use; also it is important for safe use and machine maintenance of machine. Please keep this manual properly in order to further maintenance of the machine.

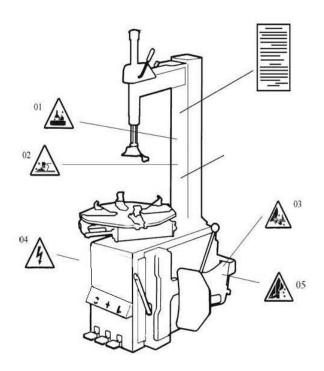
1. Introduction:

Application Range: The semi-automatic tyre changer is especially designed for demounting / mounting tyres from wheel rims.

Caution: Please use the machine only for purpose for which it is designed, don't use it for other purposes.

Manufacturer shall not be liable for any damage or injury caused by failure to comply with these regulations.

Safety regulation: Use of this machine is especially reserved to trained and qualified professional persons, those who already read the introduction manual carefully, or someone have the experience for operating similar machinery. Any changes and beyond the scope of use on this machine without manufacturer's permission or do not according to the manual, may cause the malfunction and damage to machine, manufacturer can cancel warranty coverage for above. If some parts are damaged due to some reason, please replace them according to the spare parts list. (Attention: warranty is one year after manufactures' delivery date; warranty excludes the easy-broken parts).



2. Safety Warnings:

- 01 Don't put hands under the Mounting/demounting head during operation;
- 02 Don't put hands between the jaws during operation;
- 03 Don't put hands inside the tyre bead when demounting the tyre;
- 04 Make sure and to check the system is equipped with a good grounding circuit;
- 05 Don't put feet between the Bead Breaker shovel and the body during operation;

Security warning labels

Caution:

When the security warning labels are defaced or off, please recovery them in time!

Do not allow to operate when the security warning labels are missed or imperfect.

Do not allow to set any objects to obscure the security warning labels.

Clients can self-set the warning labels (as right picture show) at any necessary positions.



3. Technical data

External locking rim dimensions	10~21 "
Internal locking rim dimensions	12~24 "
Max. Wheel diameter	1040mm(41 ")
Max. Wheel width	355mm(14 ")
Working Pressure	8-10bar
Power supply	110V (1ph)/ 220V (1ph)/ 380V (3ph)
Optional Motor power	0.75/0.55/1.1 kw
Max. Rotating Torque (Turntable)	1078 Nm
Overall Dimension	96*76*93cm
Noise Level	75 Db

Remark:

Rim dimensions defined at above table are based on the iron wheel rims. Aluminum rims are thicker than the iron wheel rims, so here above rim dimensions are just for the reference.

Here above machine versions can be equipped with Rapid Tire Inflation Device (client optional device), IT-suffix version, accessory details can be found at the IT-suffix version exploded drawing.

4. Transport:

When transporting, the machine should be with original package and placed according to the mark on the package. For the already packaged machine should be handled with a corresponding tonnage forklift for loading and unloading. The location to insert the fork feet shown as $Fig\ 1$

5. Unpacking & Inspection:

Pull out the nail which is nailed on the plate with tip jaw; unpack the carton and plastic cover. Check and make sure all parts shown on the spare parts list are included. If any parts are missing or broken, please do not use the machine and contact the manufacturer or dealer ASAP.

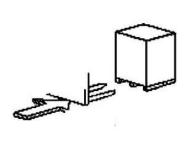


Fig 1

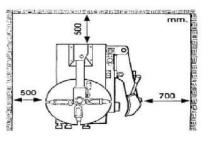


Fig 2

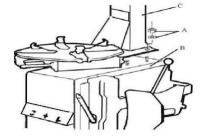


Fig 3

6. Workplace requirements:

Choose workplace in compliance with safety regulations. Connect power supply and air source according to manual and workplace must have good air condition; in order to make the machine run well, its workplace requires at least clear space from each wall shown as **Fig 2**. If installing it outdoor, it must be protected by roof against rain and sunshine.

Warning: the machine with motor must not be operated in explosive atmosphere.

7. Position and installation:

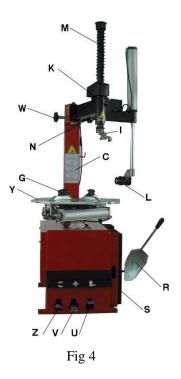
- 1. Unscrew the nuts at the bottom, position the machine and calibrate it with the horizontal rule. Mount the machine with all the screws and to ensure the machine is stable. Make sure the system is equipped with a good grounding circuit for prevent electric leakage. And have operation range of ground for skid prevention.
 - 2. Unscrew the nut A on the cabinet body B as shown in Fig 3.

Lift the column C; mount it on the machine body B by using the nut A through the bolt located on the machine body B. If the column becomes loose after a period of using, tight them immediately. Otherwise the result of damage to the tyre may happen.

8. Electricity and Pneumatic connections:

Caution: Before installation and connection, check to be sure that the electricity power supply corresponds to the machine technical data. All the installation of electric and pneumatic devices must be operated by a professional electrician.

Connect the compressed air connector which is on the machine right side with compressed air system. The electric grid that the machine connects to must have fuses protection device and good outer cover grounding protection. Install the leakage automatic air switch on the maim power supply, leakage current is set at 30A



Caution: No power plug for this machine, the user should self-connect one power plug no less than 16A as well as in line with the machine voltage. Or directly connect with the power supply according to the above requirements.

9. Adjusting operation:



- 1) Tread the Turntable Rotation Pedal (Z), Turntable (Y) clockwise rotation; Lift up the Turntable Rotation Pedal (Z), Turntable (Y) counterclockwise rotation.
- 2) Tread Bead Breaker Pedal (U), Bead Breaker shovel (R) close toward inside; release Bead Breaker Pedal (U), Bead Breaker shovel (R) return to original position.
- 3) Tread Jaws open and close Pedal (V), four clamps (G) on the turntable open; tread again, four clamps (G) close. When the pedal is in the middle position, the four clamps stop moving.

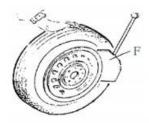
Tyre changer operation is consisted of three parts:

- 1) Breaking the tyre bead
- 2) Demounting the tyre
- 3) Mounting the tyre

Caution: Before any operations, don't wear loose clothing and wear protective hat, gloves, and skid-proof shoes. Ensure to exhaust the air in the tyre completely, and remove all the wheel weights from the rim.

9.1. Breaking the tyre bead:

Ensure to exhaust the air in the tyre completely, place the tyre against the rubber buffer (S). Bring the paddle against the bead about 10mm from the edge of the rim shown as **Fig 5**. Tread Bead breaker Pedal (U) to push paddle into tyre. Repeat the above operations on different positions around the tyre and both sides of tyre until tyre bead is released completely.



9.2. Demounting the tyre:

Fig 5

Ensure to remove all the weights on the wheel rim and to exhaust the air in the tyre completely before this operation. Apply lubricating grease (or similar lubricant) around the tyre bead. Without the lubricant may lead to badly wear and tear on tyre.

Clamp the wheel methods shown as below regarded to the ruled dimension:

a- to clamp the wheel from outside:

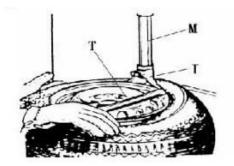
Tread the Jaws open and close Pedal (V) halfway down to middle, positioning for the four clamps (G) by reference scale on the Turntable (Y); put the tyre on turntable, hold the rim, and tread the Jaws open and close Pedal (V) until the wheel is secured by the jaws.

b- to clamp the wheel from inside:

Positioning for the four clamps (G) and let them all closed. Put the tyre on the turntable and tread the Jaws open and close Pedal (V) to open the clamps thereby lock the wheel in place.

Caution: Check to make sure the wheel firmly secured by the four clamps before next step.

Lower the Vertical Arm (M) until the Mounting/demounting head (I) rests next to the edge of the rim, flip the Locking Handle to lock the Vertical Arm and Swing Arm in position, and also adjust the Rocker Arm make Mounting/demounting head can raise 2mm-3mm automatically from the edge of the wheel rim. Insert the Lifting Lever (T) between the tyre bead and the front section of the mounting/demounting head (I), and move the tyre above the mounting/demounting head as shown as Fig 6.



Caution: Chains, bracelets, loose clothes and anything else close to the rotating parts will bring danger to the operator.

With the Lifting Lever held in position, tread the Turntable Rotation Pedal (Z), rotate the Turntable (Y) in a clockwise direction until the tyre is completely separated from the wheel rim.

For the other side tyre demounting, keep using the lifting lever to lift the tyre, make the other side tyre separated from the wheel rim.

9.3. Mounting the tyre:

Caution: Check to make sure that the tyre and the wheel rim are of same size before mounting the tyre. To avoid any damage on type, lubricate the tyre bead and the wheel rim with the lubrication recommended by manufacturer. Put on the tyre and check the situation.

Caution: When clamp the wheel rim, don't put your hands on the wheel rim to avoid injury during this operation.

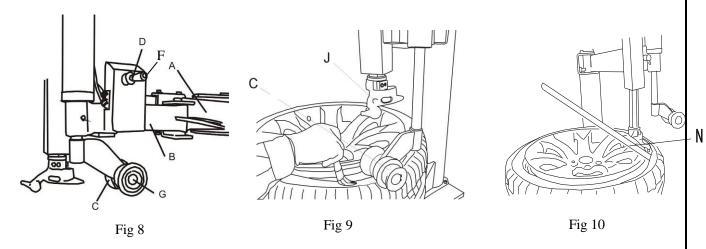
Lock the Hexagonal Vertical Mounting Arm, put the tyre on the rim, let the Rocker Arm back to place as demounting the tyre. And let one side of tyre down bead above the rear section of the Mounting/demounting head, the other side under the front section of the Mounting/demounting head. Suppress the trye with hands or help arm, and then spin the turntable for mounting the tyre down bead.

Repeat the above operation for mounting the tyre up bead. (Fig 7)



Fig 7

10. Helping arm application:



Helping arm at right side is auxiliary device of tyre changer for helping operator to demount and mount tyre.

10.1 098 Help Arm Components

Each components of helping arm device are introduced as follows:

A- Swing arm B- Small helping arm

C- Roller C D- Raise-fall roller handle

F- Locking switch for right helping arm

G-Roller G

The function of helping arm control handle is as follows:

Roller lifting handle (D, Fig 8) is for lifting and lowering roller $C \cdot G$ so as to adjust tyre demounting / mounting vertical height. Operate handle (D, Fig 8) up, then roller $C \cdot G$ goes up; Operate handle (D, Fig 8) down, then roller $C \cdot G$ goes down.

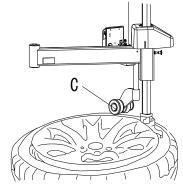


Fig 11

10.2 098 Help Arm Operation

It is difficult to demount and mount big and flat profile tyre. If operation is proper, it is very easy to use helping arm device to demount and mount tyre from rim. The helping arm device may also be used when demounting and mounting normal tyre with resistance.

a. Clamp rim

Firstly, press both side tyre loose as per operation instruction in user's manual. Force of demounting and mounting is big when helping arm device is used. And rim may be damaged easily. It is recommended that to clamp rim from outside (jaw protector may be installed on jaws) . Tread relevant pedal to make jaws open to clamp edge of rim, move helping arm's rotary arm to far-end. Put on tyre, tread relevant pedal to make jaws close and to approach rim

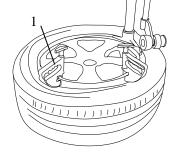


Fig 12

- b. Demount tyre
- 1. Press tyre with right pressing roller C,G to a position 3cm lower than rim edge, lubricate tyre bead, rotate turntable, lift roller C,G. (Fig 9)
- 2. Move demounting/mounting head close to edge of rim, keep a 2-3mm gap between demounting/mounting head and rim plane, operate locking handle (K, Fig 4) to lock vertical arm, adjust screw bolt in column to position swing arm, make sure 2-3mm gap between demounting/mounting head and rim edge side
- 3. Nearby demounting/mounting head, insert lift lever **N** into tyre, use lift lever to lift bead upon knob of demounting / mounting head. Manually rotate roller C to inner side, pull handle D down, make roller C to press rim, keep 3-5mm gap between demounting/mounting head and rim, make sure demounting/mounting head not damage rim, rotate turntable, demount tyre upper bead (Fig 11)
 - 4. Push handle D up, lift roller C,G, press switch F, loosen right pressing arm,
 Lift tyre up, insert lifting level into bottom tyre bead nearby demounting/mounting head, lift bead upon knob of demounting / mounting head and rotate turntable to demount down tyre bead
 - c. Mount tyre
- 1. Lubricate tyre and rim edge with lubricant to avoid damage of tyre. Adjust height of demounting/mounting head and make tyre bottom bead upon rear of demounting/mounting head and below front of demounting/mounting head. Rotate turntable to mount bottom bead.
- 2. Make tyre top bead upon rear of demounting/mounting head and below front of emounting/mounting head, move right pressing arm and make sure it is locked, pull handle D down to make roller C,G to press top bead to position below demounting/mounting head. Lock pressing block 1 on rim edge, rotate turntable, finish tyre mounting. (Fig 12)

11. Inflating the tire:

Importance: It is very dangerous during inflating operation, take carefully and comply with instruction. When inflating, it will turn to be extremely dangerous if problems happen to tyre or rim. The possible burst force tire goes upward and outward, the big power may cause injury or death of the operator or the people around.

Tyre may burst caused by following:

- 1) The wheel rim and the tyre are not of the same size;
- 2) The tyre or the wheel rim is damaged;
- 3) The pressure of tyre inflation is over the max. pressure recommended by manufacturer;
- 4) The operator fail to comply with the safety regulation;





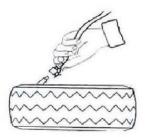
- 1) Remove the valve cap from the valve stem;
- 2) Check to make sure the air nozzle is pressed down completely over the threads of the valve stem.
- 3) Check to make sure that the tyre and the wheel rim are of the same size;
- 4) Lubricate both the tyre bead and the wheel rim, additional lubrication is required if needed;
- 5) Inflate the tyre with break, while inflating, check the pressure listed on the pressure gauge, also check whether the bead is fixed or not. Repeat operation above until the bead is secured; you need take special steps when inflating convex rim or double convex rim;
 - 6) Continue inflating and check the air pressure frequently until to reach the required pressure.

Note:

Never exceed the max. inflation pressure given by the tyre manufacturer.

Keep hands and your body away from inflating tyres.

Only specially trained persons are allowed to perform the operations, do not allow other to operate or be near the tyre changer.



12. Moving machine:

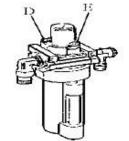
Please use forklift to move the machine. Disconnect the tyre changer from the electricity power supply and pneumatic power supply, lift the base board and insert the feet of forklift. Then mount the tyre changer machine to a new position and fix it tightly.

Note: the place chosen for fixing the tyre changer must meet the safety regulation.

13. Maintenance:

Caution: only the professional persons can do the maintenance. To prolong the machine's life, maintain the machine timely according to the manual. Otherwise, it will impact the reliability of the machine or even cause injury to operator and others nearby.

Caution: before performing any maintenance, disconnect the tyre changer from the electric power supply and pneumatic power supply, and tread the Jaws open and close Pedal or Turntable Rotation Pedal for 3~4 times to evacuate all compressed air from the machine. Damaged parts must be replaced by professional persons with the spare parts provided by manufacturer.



Inlet₽

- Clean the machine once every day after work. Clean the dirt on the turntable with diesel oil once per week and lubricate the slides and clamps.

- Following maintenance must be done at least once per month: Check oil level in Oil Fog Maker, please be filled with SAE30# oil if need. Unscrew with hex wrench (E). Based on connection of compressed air, first to tread Jaws open and close Pedal or Turntable Rotation Pedal 5-6 times, and then check whether oil in Oil Fog Maker drops down a drip of oil. For continuous operation, tread twice every time, drop down a drip of oil, otherwise adjust the screw (D) that controlled oil enter with minus screwdriver.

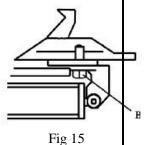
Turntable (Fig 15)

(Fig 14)

Drain valve« - As shown in Figure 14-1, when you found there are some water in the cup, push up Fig14-1₽ the drain valve to drain away water with your fingers; loosen your fingers after drained water, drain valve can be automatic closed under the action of the spring.

Note: After the first 20 days of use, retighten the jaws with tightening screws (B) on the

Note: in the event of turntable lose power, check to see if the belt is tight as follow steps: Remove the left side cover by unscrewing the screws; adjust two screws located on the motor support, keep a suitable distance between motor support and motor base; tight the screws for the belt tension.(Fig 16)



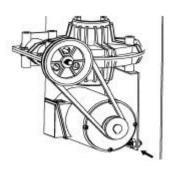
Oil c

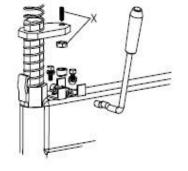
Caution: please disconnect the machine from electric power supply and pneumatic power supply.

Note: If Hexagonal Vertical Arm not be locked or not meet the requirement that 2-3mm from the bottom of Mounting/demounting head to rim, please adjust Hexagonal Locking Plate, refer to Fig 17 and adjust the (X).

Note: In order to achieve the reliability of jaws and Bead Breaker shovel, operate as follows to keep their valves clean:

- 1. Remove the left side cover of the machine body by unscrewing the two screws;
- 2. Loosen the valve Muffler (A) which belong to Jaws open and close Pedal and Bead Breaker Pedal; (Fig 18)
- 3. Clean the mufflers with compressed air, please replace it referring to the spare parts list if it is damaged. (Fig 18)





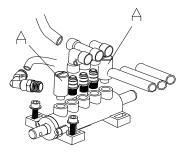


Fig 16

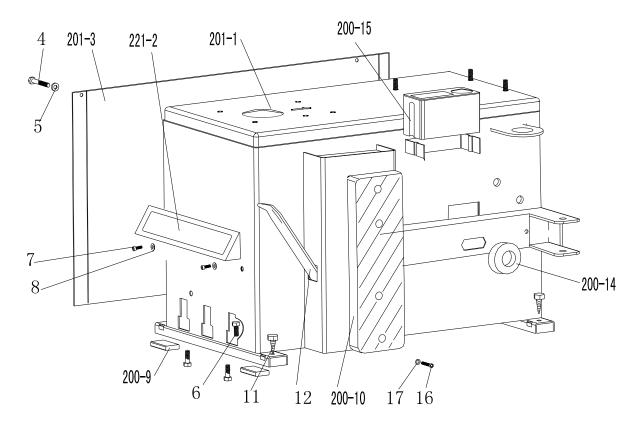
Fig 17

Fig 18

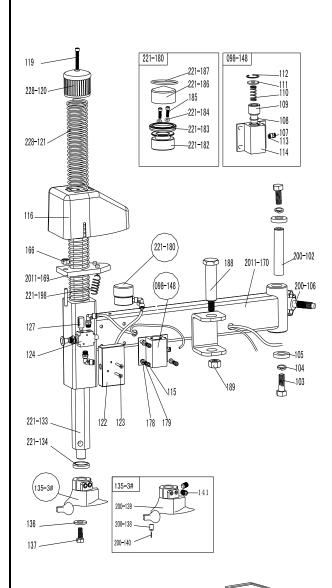
14. Trouble shooting table:

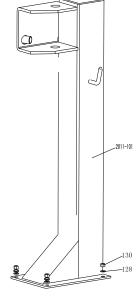
Problem	Reason	Solution
	Reverse Switch broken	Replace the Reverse Switch
The turntable rotate just in one	Belt broken	Replace the belt
direction or can't rotate.	The Motor's malfunction	Check the motor cable or terminal block wire; Replace the motor if it was broken.
Demount or fix the wheel, the turntable can't lock (spin with	Leakage of Air network	Check all the parts on the air network.
wheel);	The clamping cylinder can't work.	Replace the cylinder piston.
The jaws delay to open/close; The turntable locks the rim	Worn jaws	Replace the jaws.
incorrectly.	Broken washers of the chuck cylinder	Replace it.
The mounting/demounting head	The locking plate incorrectly adjust or unqualified.	Replace or adjust it.
always touch the rim during operation.	Screws on the chuck loose; the Hexagonal Vertical Arm can't be locked by Locking Plate	Tighten the screws; replace the Locking Plate.
The Bead Breaker Pedal and Jaw open and close Pedal can't turn back to the original position.	Pedal spring broken	Replace it.
The Bead Breaker shovel	Jammed silencer	Clean it or replace it.
operates difficultly.	The washer on the Bead Breaker cylinder is broken.	Replace it.

15. Exploded drawing:

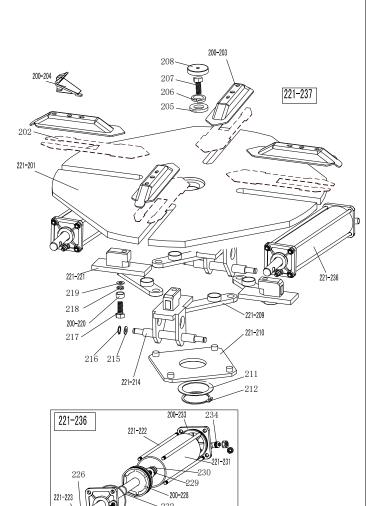


201-1	CX-201-010000-0	Machine body
221-2	CZ-221-080000-0	Pedal front cover
201-3	CX-201-020000-0	Left cover
4	B-010-060101-0	Hex socket head bolt M6×10
5	B-040-061412-1	Flat washer Ø6*14*1.2
6	B-014-080251-0	Outer hex bolt M8x25
7	B-010-080201-0	Hex socket head bolt M8×20
8	B-040-061412-1	Flat washer Ø 6*14*1.2
200-9	C-000-001020-0	Rubber foot buffer
200-10	C-200-500000-0	Bead breaker buffer
11	B-027-060401-0	Grounding screw M6x40
12	C-200-580000-0	Lifting lever
200-14	C-200-510000-0	Bead breaker arm rubber
200-15	C-200-470000-0	Oil-water box
16	B-010-080201-0	Hex socket head bolt M8x20
17	B-040-081715-1	Flat washer Ø 8*17*1.5



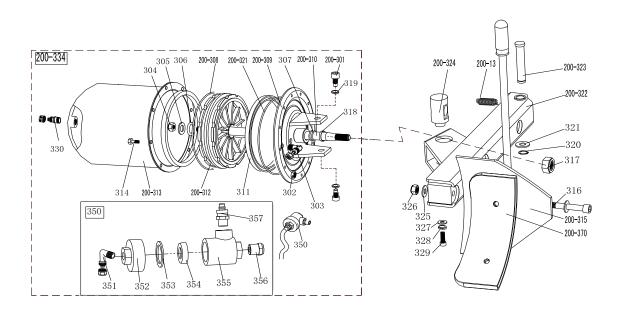


2011-101	CX-2011-250000-0	Square column
200-102	CX-200-190000-0	Swing arm pin
103	B-014-140351-0	Outer hex bolt M14x35
104	B-050-140000-0	Spring washer Ø14
105	CX-200-140000-0	Big washer
200-106	C-200-350000-0	Column adjust handle
107	S-010-050004-0	Quick straight union M5- Ø 4
108	S-000-030355-0	O-seal 30X3.55
109	CX-007-180600-0	098 Swing arm spring plate
110	C-007-180700-0	098 Swing arm spring
111	CX-007-180800-0	098 Swing arm plate washer
112	B-055-300002-0	Snap ring Ø30(hole)
113	S-000-005200-0	O-seal Ø 5.6X2
114	CX-098-080000-0	098 Pneumatic lock barrel
115	B-010-060201-0	Hex Socket Head Bolt M6X20
116	C-298-480000-0	Locking plate cap
119	B-010-100301-0	Hex socket head bolt M10×30
228-120	C-228-490000-0	Vertical arm cap
228-121	C-228-390000-0	Vertical arm spring
122	C-098-090000-0	Locking switch box
123	B-017-040301-0	Cross-round head screw M4X30
124	S-030-010414-2	Hand valve
127	S-023-010801-0	Muffler 1/8
221-133	CX-221-160000-0	Vertical arm
221-134	C-228-520000-0	Vertical arm washer
135-3#	CW-113-020003-0	Complete mount/demount head
200-138	CX-200-150200-0	Mount/demount head pulley
200-139	C-200-150100-3	Mount/demount head 3#
200-140	C-200-150400-0	Hex round pin
141	B-007-120161-0	Hex socket head bolt M12X16
136	CX-200-170000-0	Mount/demount head flat washer
137	B-014-100251-0	Outer hex bolt M10×25
098-148		Complete 098 Pneumatic lock
166	B-001-100001-0	Self-locking nut M10
2011-169	CX-298-22000-0	Hex locking board 2011
2011-170	CX-211-180000-0	Swing arm 2011
178	B-040-061210-1	Flat washer Ø 6X12X1
179	B-050-060000-0	Spring washer Ø6
221-180		Complete locking cylinder
221-182	C-221-090100-0	locking cylinder piston
221-183	S-005-050065-1	V- seal 60*50*6.5
221-184	S-000-005200-0	O-seal Ø 5.6X2
185	B-010-060551-0	Hex socket head bolt M6×55
221-186	CX-221-090200-0	locking cylinder cover Ø 60
221-187	S-000-052200-0	O- seal Ø52*2
188	CX-098-030000-0	Pressing arm pin (right)
189	B-001-160001-1	Self-locking nut M16X1.5
221-198	C-221-400000-0	Hex locking board spring
•		

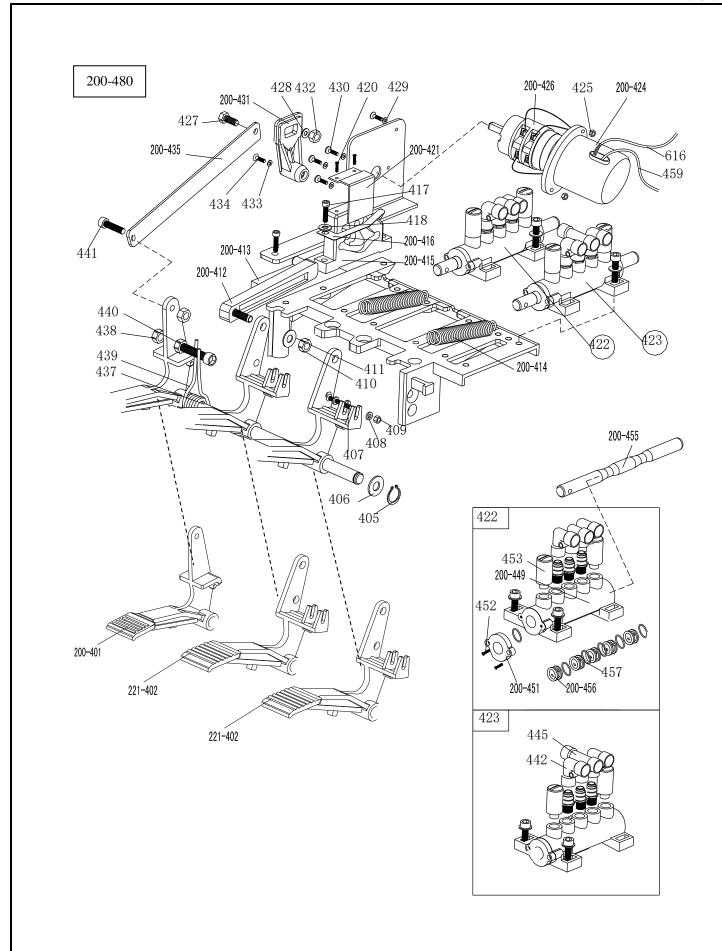


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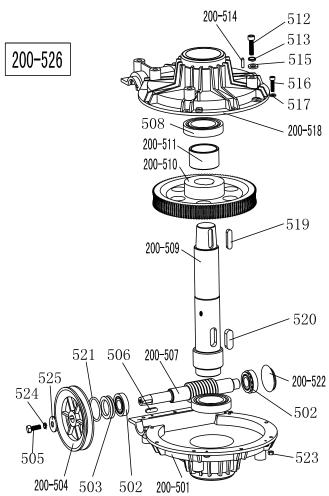
221-201 CX-221-13000-0 Turntable assembly 615 202 CX-221-120300-0 Jaw sliding plate(optional) 200-203 CX-200-120000-0 Jaw cap assembly 200-204 C-200-570000-0 Jaw 200 205 CX-200-140000-0 Big washer 206 B-050-160000-0 Spring washer Ø16 207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable washer 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 Teeth locking washer Ø12y20-2 CX-200-30000-0 </th <th></th> <th>-</th> <th></th>		-	
200-203 CX-200-120000-0 Jaw cap assembly 200-204 C-200-570000-0 Jaw 200 205 CX-200-140000-0 Big washer 206 B-050-160000-0 Spring washer Ø16 207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable washer 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 212-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-30000-0 Connection rod nut 221-221 CX-221-10040-0	221-201	CX-221-130000-0	Turntable assembly 615
200-204 C-200-570000-0 Jaw 200 205 CX-200-140000-0 Big washer 206 B-050-160000-0 Spring washer Ø16 207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-100400-0 Threaded connection rod 393	202	CX-221-120300-0	Jaw sliding plate(optional)
205 CX-200-140000-0 Big washer 206 B-050-160000-0 Spring washer Ø16 207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-221-10040-0 Threaded connection rod nut 221-221 CX-221-100400-0 Threaded connection rod 393 221-222 C-221-100400-0 Threaded connection rod 393 <td>200-203</td> <td>CX-200-120000-0</td> <td>Jaw cap assembly</td>	200-203	CX-200-120000-0	Jaw cap assembly
206 B-050-160000-0 Spring washer Ø16 207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-221-10040-0 Threaded connection rod nut 221-221 CX-221-10040-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straig	200-204	C-200-570000-0	Jaw 200
207 B-014-160401-0 Outer hex boltM16×40 208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12X30X3 201-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-100400-0 Threaded connection rod 393 221-222 C-221-100400-0 Threaded connection rod 393 Clamping cylinder piston rod 400 Clamping cylinder cover with handle 225 S-011-010808-0 Straight	205	CX-200-140000-0	Big washer
208 C-200-440000-0 Turntable cap 221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12X20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100200-0 Threaded connection rod 393 Clamping cylinder piston rod 400 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0	206	B-050-160000-0	Spring washer Ø16
221-209 CX-221-310000-0 Connection rod assembly 615 221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x30x3 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-10100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cyl	207	B-014-160401-0	Outer hex boltM16×40
221-210 CX-221-280000-0 Square turntable 615 211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-10100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover with handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 63*2.65 200-228 C-200-540000-0	208	C-200-440000-0	Turntable cap
211 CX-200-290000-0 Square turntable washer 212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat	221-209	CX-221-310000-0	Connection rod assembly 615
212 B-055-650001-0 Snap ring Ø65(shaft) 221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12X20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X	221-210	CX-221-280000-0	Square turntable 615
221-214 CX-221-110000-0 Jaw slide guide with pin 215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100200-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping c	211	CX-200-290000-0	Square turntable washer
215 B-040-122520-1 Flat washer Ø12X25X2 216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder	212	B-055-650001-0	Snap ring Ø65(shaft)
216 B-055-120001-0 Snap ring Ø12(shaft) 217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0	221-214	CX-221-110000-0	Jaw slide guide with pin
217 B-014-120801-0 Hex socket head boltM12×40 218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 Clamping cylinder cover with handle Clamping cy	215	B-040-122520-1	Flat washer Ø12X25X2
218 B-046-122050-1 Teeth locking washer Ø12x20.5x1 221-237 CW-104-021100-0 Complete square turntable 615 219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Straight union 1/8"-Ø8 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 Clamping cylinder cover with handle Clamping cylinder cover with handle 234 S-018-010800-0 Un	216	B-055-120001-0	Snap ring Ø12(shaft)
218	217	B-014-120801-0	Hex socket head boltM12×40
Ø12x20.5x1	218	R-046-122050-1	Teeth locking washer
219 B-040-123030-1 Flat washer Ø12X30X3 200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	216	D-040-122030-1	Ø12x20.5x1
200-220 CX-200-300000-0 Connection rod nut 221-221 CX-221-110100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	221-237	CW-104-021100-0	Complete square turntable 615
221-221 CX-221-10100-0 Jaw slide guide without pin 221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 Clamping cylinder cover with handle C-200-100300-0 Union 1/8-Ø8 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	219	B-040-123030-1	Flat washer Ø12X30X3
221-222 C-221-100400-0 Threaded connection rod 393 221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	200-220	CX-200-300000-0	Connection rod nut
221-223 C-221-100200-0 Clamping cylinder piston rod 400 200-224 C-200-100100-0 Clamping cylinder cover without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	221-221	CX-221-110100-0	Jaw slide guide without pin
221-223 C-221-100200-0 400	221-222	C-221-100400-0	Threaded connection rod 393
200-224 C-200-100100-0 without handle 225 S-011-010808-0 Straight union 1/8"-Ø8 226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	221-223	C-221-100200-0	
226 S-005-020075-0 V- seal 20*28*7.5 227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	200-224	C-200-100100-0	
227 S-000-063265-0 O- seal 63*2.65 200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	225	S-011-010808-0	Straight union 1/8"-Ø8
200-228 C-200-540000-0 Clamping cylinder piston Ø70 229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	226	S-005-020075-0	V- seal 20*28*7.5
229 B-040-122520-1 Flat washer Ø12X25X2 230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	227	S-000-063265-0	O- seal 63*2.65
230 B-004-120071-1 Nut M12X7X1.75 221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	200-228	C-200-540000-0	Clamping cylinder piston Ø70
221-231 C-221-100500-0 Clamping cylinder barrel 360 232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	229	B-040-122520-1	Flat washer Ø12X25X2
232 S-000-019262-0 O- seal Ø19.6X2.62 200-233 C-200-100300-0 Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	230	B-004-120071-1	Nut M12X7X1.75
200-233 C-200-100300-0 handle Clamping cylinder cover with handle 234 S-018-010808-0 Union 1/8-Ø8 235 B-001-080001-0 Self-locking nut M8	221-231	C-221-100500-0	Clamping cylinder barrel 360
200-233	232	S-000-019262-0	O- seal Ø19.6X2.62
235 B-001-080001-0 Self-locking nut M8	200-233	C-200-100300-0	
	234	S-018-010808-0	Union 1/8-Ø8
221-236 CW-105-021101-0 Complete clamping cylinder	235	B-001-080001-0	Self-locking nut M8
	221-236	CW-105-021101-0	Complete clamping cylinder



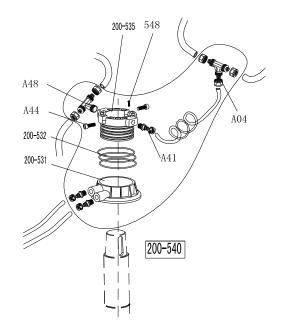
200-13	C-200-360000-0	Bead breaker arm spring	320	B-055-160001-0	Snap ring Ø16
200-301	B-010-140301-0	Hex socket head boltM14×30	321	B-040-162820-1	Flat washer
302	B-001-060001-0	Self-locking nut M6	200-321	S-000-180500-0	O-seal 180x5
303	S-018-010408-0	Union (90°) 1/4-Ø8	200-322	CX-200-030000-0	Bead breaker arm 200
304	B-004-160001-1	Nut M16*1.5	200-323	CX-200-040000-0	Bead breaker pin
305	B-040-162820-1	Flat washer Ø16*28*2	200-324	CX-200-050600-0	Bead breaker cylinder rotating pin
306	S-000-016265-0	O-seal Ø 16*2.65	325	B-040-122520-1	Flat washer Ø12*24*2
307	S-000-020265-0	O-seal Ø 20*2.65	326	B-001-120001-0	Self-locking nut M12
200-308	S-000-175500-0	O-seal Ø170.8x5.33	327	B-040-083030-1	Flat washer Ø8*30*3
200-309	CX-200-050500-0	Bead breaker cylinder cover assembly	328	B-050-080000-0	Spring washer Ø8
200-310	C-200-050100-0	Bead breaker cylinder piston rod	329	B-014-080201-0	Outer hex bolt M8×20
311	S-005-168115-0	V-seal 185X168X11.5	330	S-011-010808-0	Straight union1/8-Ø8
200-312	C-200-050200-0	Bead breaker cylinder piston	200-334	CW-108-020000-0	Complete Bead breaker cylinder
200-313	CX-200-050300-0	Bead breaker cylinder barrel	350	CW-112-209800-0	Bead breaker cylinder exhaust valve
314	B-010-060161-0	Hex socket head bolt M6×16	351	S-012-010808-0	Union (90°)1/8-Ø8
200-315	CX-200-070000-0	Bead breaker shovel assembly	352	C-098-600200-0	Bead breaker cylinder exhaust valve cover
316	B-010-120901-0	Hex socket head bolt M12×90	353	C-098-600400-0	Seal washer
317	B-004-160001-1	Self-locking nut M16*1.5	354	C-098-600300-0	Bidirectional seal
318	U-006-000001-2	Guide belt	355	C-098-600100-0	Bead breaker cylinder exhaust valve barrel
200-370	C-200-070600-0	Bead breaker shovel protection cover(optional)	356	S-023-010401-6	Muffler
319	B-050-140000-0	Spring washer Ø14	357	S-010-010408-0	Straight union1/8-Ø8



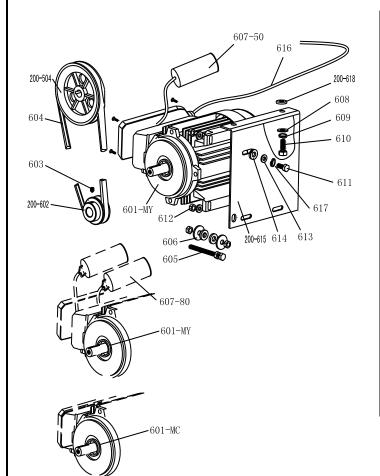
200-401	C-200-060400-0	Reverse switch pedal	428	B-040-061210-1	Flat washer Ø6*12*1
221-402	C-221-060300-0	5-way valve pedal(right)	429	B-040-040000-1	Flat washer Ø 4
405	B-055-120001-0	Snap ring Ø12(shaft)	430	B-024-040161-0	Cross-round head screw M4*16
406	B-040-122520-1	Flat washer Ø12X2	200-431	C-200-530000-0	Reverse switch handle
407	B-017-040301-0	Cross head screw M4X30	432	B-001-060001-0	Self-locking nut M6
408	B-040-040000-1	Flat washer Ø 4	433	B-040-030000-1	Flat washer Ø3
409	B-001-040001-0	Self-locking nut M4	434	B-024-030161-0	Cross head screwM3×16
410	B-001-080001-0	Self-locking nut M8	200-435	CX-200-060600-0	Pedal connection rod
411	B-040-081715-1	Flat washer Ø 8*17*1.5	437	CX-200-060700-0	Pedal front shaft
200-412	C-200-061300-0	Cam connection rod	438	B-004-080001-0	Nut M8
200-413	C-200-060100-0	Pedal suport board	439	C-200-370000-0	Pedal twist spring
200-414	C-200-380000-0	Pedal Spring	440	B-010-080501-0	Hex socket head bolt M8×50
200-415	C-200-061500-0	Cam	441	B-010-080201-0	Hex socket head bolt M8×20
200-416	C-200-810000-0	Cam washer	442	S-012-010808-0	Union (90°)1/8-Ø8
417	B-010-060201-0	Hex socket head bolt M6× 20	445	S-016-010808-2	T-union1/8-2* Ø 8
420	B-019-290121-0	Cross head self-tapping screw	200-449	C-200-060901-0	5-way valve barrel
200-421	CX-200-060500-0	Cam cover	200-451	C-200-061100-0	5-way valve cover
422	CW-110-020000-0	Complete 5-way valve for clamping cylinder	452	B-024-290121-0	Cross head screw ST2.9*14
423	CW-110-020001-0	Complete 5-way valve for bead breaker cylinder	453	S-023-010801-0	Muffler 1/8"
200-424	C-200-061400-0	Reverse switch cover	200-455	CX-200-061200-0	5-way valve rod
425	B-004-040001-1	Nut M4	200-456	C-200-061000-0	5-way valve rod spacer
200-426	S-060-016000-1	Reverse switch	457	S-000-012400-0	O-seal 12*20*4
427	B-010-060201-0	Hex socket head bolt M6× 20	200-480	CW-109-020000-0	Complete 3-pedals assembly



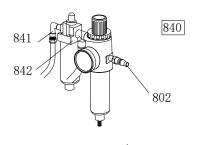
	200-501	C-300-320302-0	Gear box lower cover
	502	S-040-030204-0	Bearing 30204
	503	S-005-020080-1	Gear box seal φ20*35*8
	200-504	C-200-320500-0	Gear Belt pulley
	505	B-014-080251-0	Outer hex bolt M8×25
	506	B-065-006020-0	Key washer 6×20
	200-507	C-200-320400-0	Worm rod
	508	S-040-006010-0	Bearing 6010
	200-509	C-200-320200-0	Worm gear shaft
	200-510	C-200-320100-0	Worm gear
	200-511	CZ-200-320600-0	Worm gear shaft spacer
	512	B-014-100551-0	Outer hex bolt M10×55
	513	B-050-100000-0	Spring washer Ø10
	200-514	B-060-006020-0	Pin 6X20
	515	B-040-102020-1	Flat washer Ø10*20*2
	516	B-010-060201-0	Hex socket head bolt M6×20
	517	B-040-061412-1	Flat washer Ø 6*14*1.2
	200-518	C-300-320301-0	Gear box upper cover
2	519	B-065-010040-0	Key washer 10×40
۷	520	B-065-014040-0	Key washer14×40
	521	S-000-027310-0	O-seal Ø 27.8*3.1
	200-522	C-200-320700-0	Oil resistant seal
	523	B-001-060001-0	Self-locking nut M6
	524	B-050-080000-0	Spring washer Ø8
	525	B-040-083030-1	Flat washer Ø 8*30*3
	200-526	CW-107-020001-0	Complete gear box



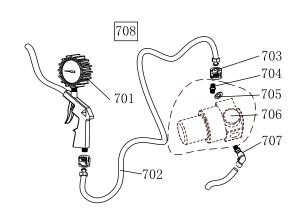
A04	EQ11002003333	T-union 3*Ф8
A44	FJ04009004676	hex socket head cap screw M6*16
A48	EQ11002003340	T-union G1/8-2*Ф8
200-531	JZ02007015872	Rotating valve casing 200 U200
200-532	FJ08001005300	O - seal Ф59.99*2.62
200-535	JZ02007015676	Rotating valve mandrel U200
537	CF01002000936	Flexible air hose Φ8*Φ5*10m
A41	EQ11006003389	Straight union G1/8-Ф8
548	FJ04006004060	screw M4*6
200-540	JZ06001020249	Complete Rotating valve, plastic U200
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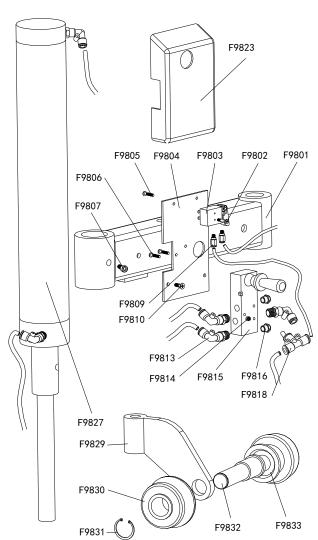
		I I
200-504	C-200-320500-0	Gear Belt pulley
601-MC	S-050-220110-5	Motor 220V/50HZ
601-MY	S-050-230075-0	Motor 220v
200-602	CX-200-330000-0	Motor Belt pulley
603	B-007-080121-0	Hex socket head boltM8×12
604	S-042-000686-0	Tyre changer belt A-28
605	B-014-080651-0	Outer hex bolt M8X65
606	B-040-083030-1	Flat washer Ø8X30X3
607-80	S-063-008000-0	Capacitor 80µf,110V
607-50	S-063-005000-0	Capacitor 50µf,220V
608	B-040-102020-1	Flat washer Ø10X20X2
609	B-050-100000-0	Spring washer Ø10
610	B-014-100251-0	Outer hex bolt M10X25
611	B-014-080351-0	Outer hex bolt M8X35
612	B-004-080001-0	Nut M8
613	B-040-082220-1	Flat washer φ8X22X2
614	C-200-560000-0	Motor rubber washer
200-615	CX-200-340000-2	Motor support
616	CZ-000-205150-0	Motor cable 5×1.0
617	B-050-080000-0	Spring washer φ8
200-618	C-200-560000-0	Motor rubber buffer



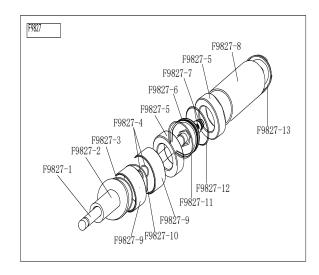
802	Decide by Type of Quick nozzle	Quick nozzle
841	EQ11005003350	Quick coupler G1/4-Ф8
842	EQ03001002905	Filter AW+AL2000
840	Decide by Type of Quick nozzle	Complete oil fog maker 2000



701	S-038-000100-0	Inflating gun indicator
702	C-200-900000-0	Helical hose
703	S-025-104008-0	Notch nut
704	S-011-010414-0	Straight union1/4-1/4
705	B-040-132420-1	Flat washer Ø13
706	S-030-010400-2	Pressure adjust valve
707	S-012-010408-0	Union 1/4-Ø8
708	CW-090-000201-0	Complete inflating gun (without
700	CVV-030-000201-0	pressure adjust)
708W	CW-090-000201-1	Complete inflating gun (with
		pressure adjust)

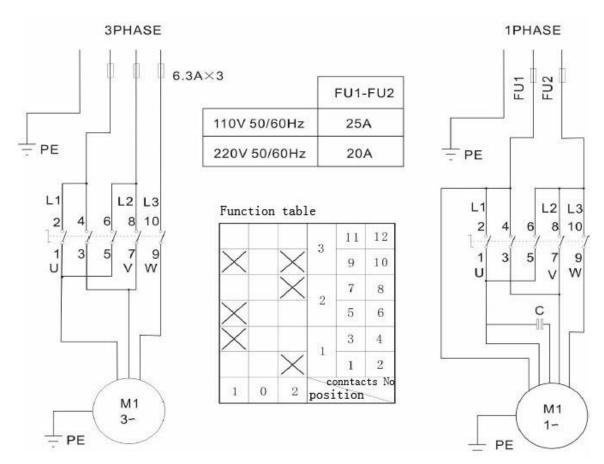


F9801 CX-098-020000-0 Pressing arm(right) F9802 B-024-050101-1 Cross head Screw M5X10 F9803 S-030-010414-0 Pneumatic valve F9804 CX-005-200000-0 Raise-fall switch base plate F9805 B-017-040161-0 Cross flat head screw M4*16 F9806 B-017-040301-0 Cross flat head screw M4*30 F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9829 CX-098-060100-0 Tyre pressing roller 1		Τ	Τ
F9803 S-030-010414-0 Pneumatic valve F9804 CX-005-200000-0 Raise-fall switch base plate F9805 B-017-040161-0 Cross flat head screw M4*16 F9806 B-017-040301-0 Cross flat head screw M4*30 F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller shaft	F9801	CX-098-020000-0	Pressing arm(right)
F9804 CX-005-200000-0 Raise-fall switch base plate F9805 B-017-040161-0 Cross flat head screw M4*16 F9806 B-017-040301-0 Cross flat head screw M4*30 F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft<	F9802	B-024-050101-1	Cross head Screw M5X10
F9805 B-017-040161-0 Cross flat head screw M4*16 F9806 B-017-040301-0 Cross flat head screw M4*30 F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9803	S-030-010414-0	Pneumatic valve
F9806 B-017-040301-0 Cross flat head screw M4*30 F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9804	CX-005-200000-0	Raise-fall switch base plate
F9807 B-007-100121-0 Hex socket head bolt M10*12 F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9805	B-017-040161-0	Cross flat head screw M4*16
F9809 S-010-050004-0 Straight union M5-Ø4 F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9806	B-017-040301-0	Cross flat head screw M4*30
F9810 B-010-050161-0 Hex socket head bolt M5*16 F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9807	B-007-100121-0	Hex socket head bolt M10*12
F9813 S-012-010406-0 union 1/4-Ø6 F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9809	S-010-050004-0	Straight union M5-Ø4
F9814 B-004-040001-1 Nut (silver) M4 F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9810	B-010-050161-0	Hex socket head bolt M5*16
F9815 S-030-010818-0 Raise-fall control valve F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9813	S-012-010406-0	union 1/4-Ø6
F9816 S-023-010801-6 Muffler (brass) F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9814	B-004-040001-1	Nut (silver) M4
F9817 S-012-010406-0 Quick L-union 1/4-φ6 F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9815	S-030-010818-0	Raise-fall control valve
F9818 S-013-104206-0 Quick T-union 2XØ6-Ø4 F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9816	S-023-010801-6	Muffler (brass)
F9823 C-007-181000-0 Control valve protect cover F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9817	S-012-010406-0	Quick L-union 1/4-φ6
F9827 CA-005-209800-2 Complete 098 cylinder F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9818	S-013-104206-0	Quick T-union 2XØ6-Ø4
F9828 S-012-010406-0 Quick Union 1/4-Ø6 F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9823	C-007-181000-0	Control valve protect cover
F9829 CX-098-040000-0 Pressing roller bracket F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9827	CA-005-209800-2	Complete 098 cylinder
F9830 C-098-060100-0 Tyre pressing roller 1 F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9828	S-012-010406-0	Quick Union 1/4-Ø6
F9831 B-055-300002-0 Snap ring Ø30(hole) F9832 CX-098-050000-0 Tyre pressing roller shaft	F9829	CX-098-040000-0	Pressing roller bracket
F9832 CX-098-050000-0 Tyre pressing roller shaft	F9830	C-098-060100-0	Tyre pressing roller 1
	F9831	B-055-300002-0	Snap ring Ø30(hole)
F9833 C-098-060200-0 Tyre pressing roller 2	F9832	CX-098-050000-0	Tyre pressing roller shaft
	F9833	C-098-060200-0	Tyre pressing roller 2



F9827	CW-105-209800-2	Complete right help arm cylinder
F9827-1	C-098-070400-2	Help arm cylinder piston rod
F9827-2	C-098-070100-0	Help arm cylinder front cover
F9827-3	B-055-400002-0	Snap ring φ40
F9827-4	S-000-030265-0	O-seal φ30*2.65
F9827-5	C-098-070600-0	Right arm cylinder washer U098
F9627-3		Ф31*50*15
F9827-6	C-098-075400-0	Help arm cylinder piston φ70
F9827-7	B-001-120001-0	Self-locking nut M12
F9827-8	CX-009-070300-0	Help arm cylinder barrel
F9827-9	C-098-070500-0	Guide cover φ30*33*15
F9827-10	S-000-063265-0	O-seal φ63*2.65
F9827-11	S-000-063355-0	O-sealφ63*3.55
F9827-12	U-006-000001-0	Guide belt 4*2
F9827-13	CX-098-070200-0	Cylinder back cover

16. Circuit diagram:



17. Pneumatic drawing:

