# **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

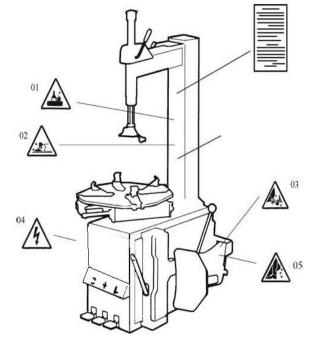
This instruction manual is important for the machine, please read carefully before installation and use; also it is important for safe use and machine maintenance of machine. Please keep this manual properly in order to further maintenance of the machine.

# 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; warranties exclude the easy-broken parts).



## 2. Warning label and sticking position:

- 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.

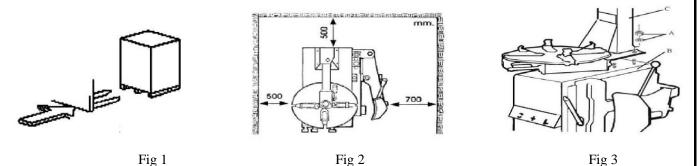
Here above machine versions can be equipped with Rapid Tire Inflation Device (client optional device), IT-suffix version, accessory details can be found at the IT-suffix version exploded drawing.

## 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.



#### 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.

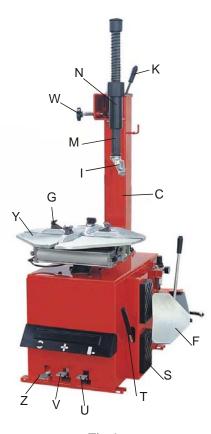
2. Unscrew the nut A on the cabinet body B as shown in Fig 3.

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



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Fig 4

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:



Jaws open and close Pedal (V)

- 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 (F) close toward inside; release Bead Breaker Pedal (U), Bead Breaker shovel (F) return to original position.
- 3) Tread Jaws open and close Pedal (V), four jaws (G) on the turntable open; tread again, four jaws (G) close. When the pedal is in the middle position, the four jaws 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.

tyre bead is released completely.

9.1. Breaking the tyre bead:

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#### **9.2. Demounting the tyre :**

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:

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

a- to clamp the wheel from outside:

Tread the Jaws open and close Pedal (V) halfway down to middle, positioning for the four jaws (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 jaws (G) and let them all closed. Put the tyre on the turntable and tread the Jaws open and close Pedal (V) to open the jaws thereby lock the wheel in place.

#### Caution: Check to make sure the wheel firmly secured by the four jaws 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**.

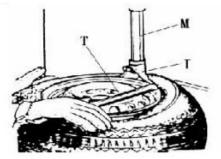


Fig 6

# 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.



Fig 7

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

# **10. 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;

Please operate as follows:

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.

# 11. 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.





#### **12. 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.

- 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 jaws.

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.

# (Fig 9)

- As shown in Figure 9-1, when you found there are some water in the cup, push up 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.

Fig 9 Outlet Inlet+ Oil cup+ Cup+

Drain valve₽

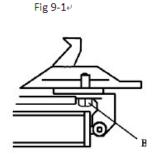


Fig 10

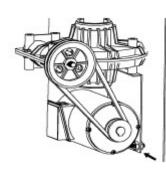
Note: After the first 20 days of use, retighten the jaws with tightening screws (B) on the Turntable (Fig 10)

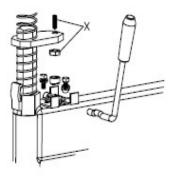
Note: in the event of turntable lose power, check to see if the belt is tight as follow steps: Remove the left side cover by unscrewing the screws; adjust two screws located on the motor support, keep a suitable distance between motor support and motor base; tight the screws for the belt tension.(Fig 11) 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 12 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 13)
- 3. Clean the mufflers with compressed air, please replace it referring to the spare parts list if it is damaged. (Fig 13)





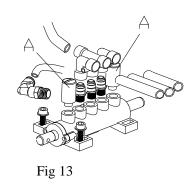


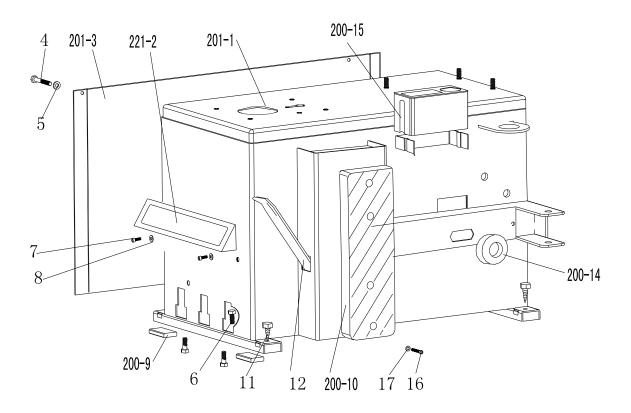
Fig 11

Fig 12

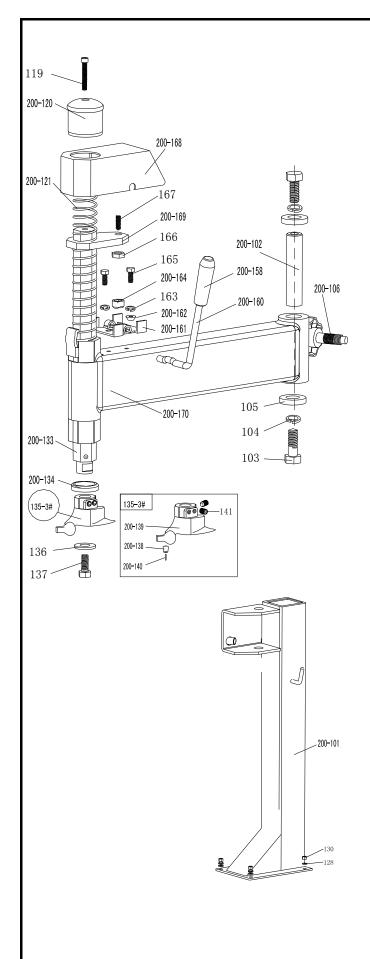
# **13. Trouble shooting table:**

Problem	Reason	Solution
	Reverse Switch broken	Replace the Reverse Switch
The turntable rotate just in	Belt broken	Replace the belt
one 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 pedal spring broken back to the original position.		Replace it.
The Bead Breaker shovel operates	Jammed silencer	Clean it or replace it.
difficultly.	The washer on the Bead Breaker cylinder is broken.	Replace it.

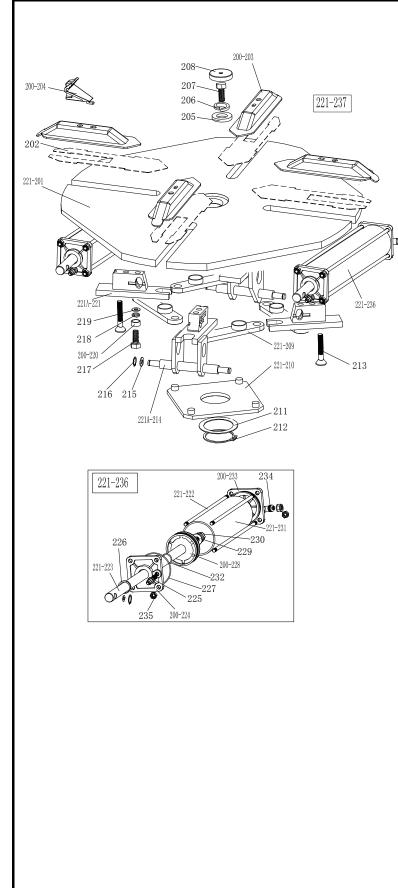
# 14. Exploded drawing:



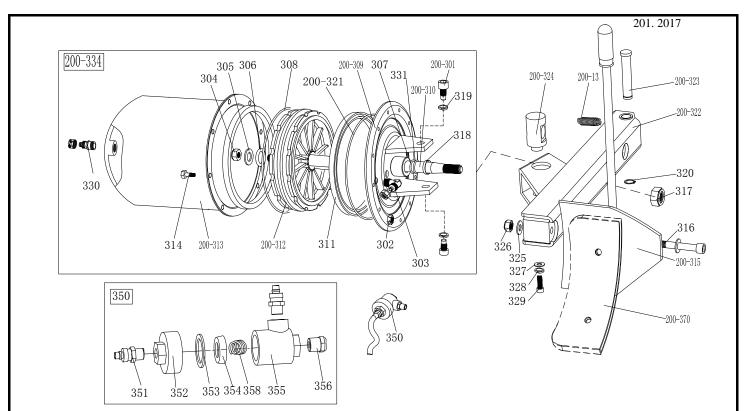
201-1	CX-201-010000-0	Machine body	200-10	C-200-500000-0	Bead breaker buffer with pot point
221-2	CX-221-080000-0	Pedal front cover	11	B-027-060401-0	Grounding Screw M6X40
201-3	CX-201-020000-0	Left cover	12	C-200-580000-0	Lifting lever
4	B-010-060101-0	Hex socket head screw M6*10	200-13	C-200-360000-0	Bead breaker arm spring
5	B-040-061412-1	Flat washer Ø6*14*1.2	200-14	C-200-510000-0	Bead breaker arm rubber
6	B-014-080251-0	Outer hex bolt M8*25	200-15	C-200-470000-0	Oil-water box
7	B-010-080201-0	Hex socket head bolt M8*20	16	B-010-080201-0	Hex socket head bolt M8*20
200-9	C-000-001020-0	Rubber foot buffer	17	B-040-081715-1	Flat washer Ø8*17*1.5



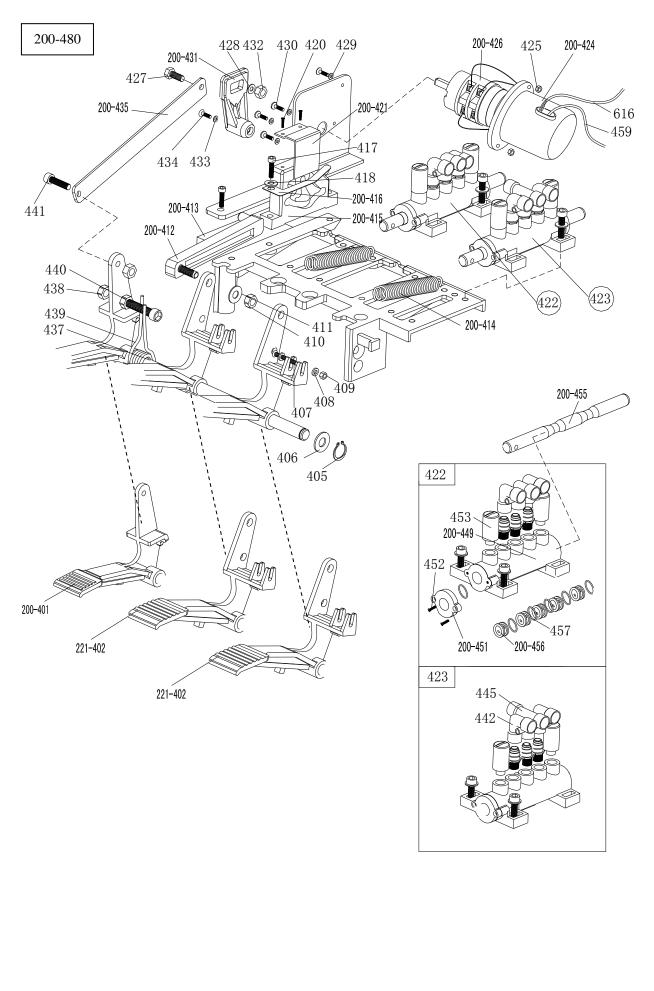
200-101	CX-200-250000-0	Column U2000125
200-102	CX-200-190000-0	Swing arm pin
103	B-014-140301-0	Outer hex bolt M14x30
104	B-050-140000-0	Spring washer Ø14
105	CX-200-140000-0	Big washer
200-106	C-200-350000-0	Column adjust handle
119	B-010-100501-0	Hex socket head bolt M10*50
200-120	C-200-490000-0	Vertical arm cap 200
200-121	C-200-390000-0	Vertical arm spring U200
128	B-040-102020-1	Washer
130	B-001-100001-0	Self-locking nut M10
200-133	CX-200-160000-0	Vertical arm 200
200-134	C-200-520000-0	Vertical arm washer
135-3#	CW-113-020303-0	Complete Mount/demount head B03#(without protectors)
136	CX-200-170000-0	Mount/demount head flat washer
137	B-014-100251-0	Outer hex bolt M10×25
200-138	CX-200-150200-0	Mount/demount head pulley
200-139	C-203-150100-3	Mount/demount head B03#
200-140	C-200-150400-0	Hex round pin
141	B-007-120121-0	Hex socket head bolt M12X12
200-158	C-200-230200-0	Locking handle cover
200-160	CX-200-230000-0	Locking Handle
200-161	CX-200-200000-0	Locking plate
200-162	C-200-240000-0	Locking block cover
163	B-050-080000-0	Spring washer Ø8
200-164	C-200-210000-0	Eccentric shaft nut
165	B-014-080251-0	Outer hex bolt M8*25
166	B-004-120071-1	Thin Nut M12
167	B-007-120301-0	Hex socket head bolt M12X30
200-168	C-200-480000-0	Locking plate cap
200-169	CX-200-220000-0	Hex locking board 200
200-170	CX-200-180000-0	Swing arm 470



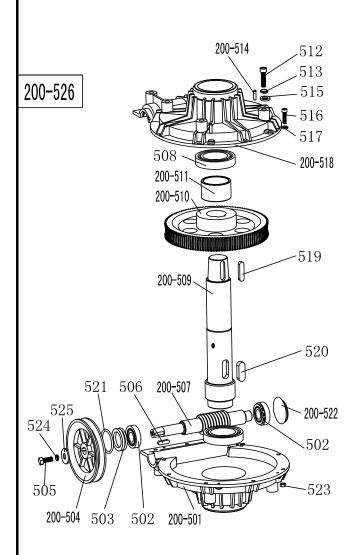
		201. 2017
221-201	CX-221-130000-0	Turntable 630
202	CX-221-120300-0	Jaw sliding plate(optional)
200-203	CX-200-120000-0	Jaw cap assembly U200
200-204	C-200-570000-0	Jaw 200
205	CX-200-140000-0	Big washer
206	B-050-160000-0	Spring washer Ø16
207	B-014-160401-0	Outer hex bolt M16×40
208	C-200-440000-0	Turntable cap U200
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 Ø 65(Shaft)
221A-214	CX-221-110000-A	Jaw slide guide with pin 615A
215	B-040-122520-1	Flat washer Φ 12*24*2
216	B-055-120001-0	Snap Ring Ø12
217	B-014-120801-0	Outer hex bolt M12*80
218	B-046-122050-1	Teeth locking washer φ 12*20.5*1
221-237	CW-104-021100-0	"Complete turntable 630, square"
219	B-040-123030-1	Flat washer
200-220	CX-200-300000-0	Connection rod nut
221A-221	CX-221-110100-A	Jaw slide guide without pin 615A
221-222	C-221-100400-0	Threaded connection rod 393
221-223	C-221-100200-0	Clamping cylinder piston rodφ20*400
200-224	C-200-100100-0	Clamping cylinder cover without handle
225	S-011-010808-0	Straight union 1/8-φ8
226	S-005-020075-0	V-seal UHS-20*28*7.5
227	S-000-063265-0	O-seal φ63*2.65
200-228	C-200-540000-0	Complete clamping cylinder piston Φ70
229	B-040-122520-1	Flat washer Φ 12*24*2
230	B-004-120071-1	Thin Nut M12
221-231	C-221-100500-0	Clamping cylinder barrel φ 70*360
232	S-000-019262-0	O- seal φ19.6*2.62
200-233	C-200-100300-0	Clamping cylinder cover with handle
234	S-018-010808-0	Quick union 1/8-Ø8
235	B-001-080001-0	Self-locking nut M8
221-236	CW-105-021100-0	Complete clamping cylinder



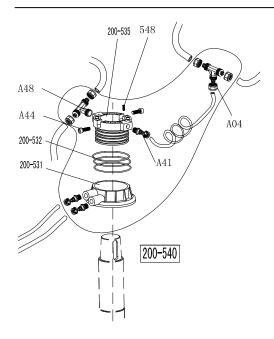
200-13	C-200-360000-0	Bead breaker arm spring	320	B-055-160001-0	Snap Ring Ø 16
200-301	B-010-140301-0	Hex socket head bolt M14*30	200-321	S-000-175500-0	O-seal φ173.4*5.3
302	B-001-060001-0	Self-locking nut M6	200-322	CX-200-030000-0	Bead breaker arm 200
303	S-018-010408-0	2-way Union (90°) 1/4-Ø8	200-323	CX-200-040000-0	Bead breaker arm pin
304	B-001-160001-1	Self-locking nut M16X1.5	200-324	CX-200-050600-0	Bead breaker cylinder rotating pin
305	B-040-162820-1	Flat washer	325	B-040-122520-1	Flat washer Φ 12*24*2
306	S-000-016265-0	O- seal φ16*2.65	326	B-001-120001-0	Self-locking nut M12
307	S-000-020265-0	O-seal φ20*2.65	327	B-040-083030-1	Flat washer Ø8*30*3
200-308	S-000-180500-0	O-seal φ180*5	328	B-050-080000-0	Spring washer Ø8
200-309	CX-200-050500-0	Bead breaker cylinder cover assembly D186	329	B-014-080201-0	Outer hex bolt M8*20
200-310	C-200-050100-0	Bead breaker cylinder piston rod	330	S-011-010808-0	Straight union 1/8-φ8
311	S-005-168115-0	V-seal	331	S-000-019262-0	O- seal φ19.6*2.62
200-312	C-200-050200-0	Bead breaker cylinder piston	350	CW-112-209800-0	Bead breaker cylinder exhaust valve
200-313	CX-200-050300-0	Bead breaker cylinder barrel	351	S-012-010808-0	Quick union 1/8- Ø 8
314	B-010-060161-0	Hex socket head bolt M6×16	352	C-098-600200-0	Bead breaker cylinder exhaust valve cover
200-315	CX-200-070000-0	Bead breaker shovel assembly	353	C-098-600400-0	Seal Washer
316	B-010-120901-0	Hex socket head bolt M12*90	354	C-098-600300-0	Bidirectional Seal
317	B-001-160001-1	Self-locking nut M16X1.5	355	C-098-600100-0	Bead breaker cylinder exhaust valve
318	U-006-000001-1	Bronze stripes	356	S-023-010401-6	Muffler 1/4
200-370	C-200-070600-0	Bead breaker shovel protection cover(optional)	357	S-010-010408-0	Quick straight union 1/4- Ø8
319	B-050-140000-0	Spring washer Ø14	200-334	CW-108-020000-0	Complete bead breaker cylinder
358	C-2098-600500-0	Spring			



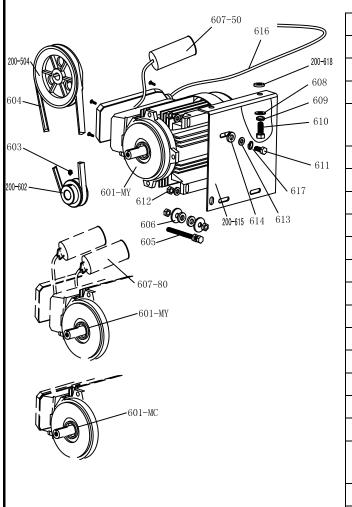
200-401	C-200-060400-0	Reverse switch pedal	428	B-040-061210-1	Flat washer Ø 6X12X1
221-402	C-221-060300-0	5-way valve pedal(right)	429	B-040-040000-1	Flat Washer Ø4
405	B-055-120001-0	Snap Ring Ø12	430	B-024-040161-0	Cross Round Head Screw M4X16
406	B-040-122520-1	Flat washer Φ 12*24*2	200-431	C-200-530000-0	Reverse switch handle
407	B-017-040301-0	Cross-round head screw M4X30	432	B-001-060001-0	Self-locking nut M6
408	B-040-040000-1	Flat Washer Ø4	433	B-040-030000-1	Flat Washer Ø3
409	B-001-040001-0	Self-locking nut M4	434	B-024-030161-0	Cross Round Head Screw M3*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 Ø8*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 support 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 Bol M8X50
200-415	C-200-061500-0	Cam	441	B-010-080201-0	Hex socket head bol M8*20
200-416	C-200-810000-0	Cam washer	442	S-012-010808-0	Quick union 1/8- Ø 8
417	B-010-060201-0	Hex Socket Head Bolt M6X20	445	S-016-010808-2	Quick T-union 1/8-2* Ø 8
420	B-019-290121-0	Cross Head Self Tapping Screw ST2.9*12	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	"5-way valve (L-union, without rod)"	452	B-024-290121-0	"Cross Head Screw St2,9X14"
423	CW-110-020001-0	"5-way valve (T-union, without rod)"	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	Hex 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-sealq12*20*4
427	B-010-060201-0	Hex Socket Head Bolt M6X20	200-480	CW-109-020000-0	Complete 3-pedals assembly 200



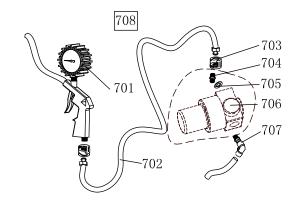
200-501	C-300-320302-0	Gear box lower cover
502	S-040-030204-0	Bearing 30204
503	S-005-020080-1	Gear Seal φ20*35*8
200-504	C-200-320500-0	Gear Belt pulley U200
505	B-014-080251-0	Outer hex bolt M8*25
506	B-065-006020-0	Key washer 6×20
200-507	C-200-320400-0	Worm rod
508	S-040-006010-0	Bearing 6010
200-509	C-200-320200-0	Worm gear shaft
200-510	C-200-320100-0	Worm gear U200
200-511	CZ-200-320600-0	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	Washer φ10*20*2
516	B-010-060201-0	Hex Socket Head Bolt M6X20
517	B-040-061412-1	Flat washer Ø 6*14*1.2
200-518	C-300-320301-0	Gear box upper cover
519	B-065-010040-0	Key washer 10×40
520	B-065-014040-0	Key washer 14×40
521	S-000-030355-0	O-seal Ø 30*3.55
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 Ø8*30*3
200-526	CW-107-020001-0	Complete gear box



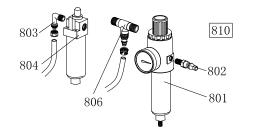
A04	S-015-000008-3	Quick T-union 3* Ø 8	
A44		Hex socket head bolt M6	
A44	B-010-060161-0	×16	
A48	S-017-010808-2	Quick union 1/8-2*φ8	
200-531	CX-200-430100-0	Rotating valve	
200-531	CX-200-430100-0	casing(plastic)	
200-532	S-000-059262-0	O-seal φ59.99*2.62	
200-535	CX-200-430200-0	Rotating valve mandrel	
537	S-035-055080-0	Flexible air hose φ8*10M	
A41	S-011-010808-0	Straight union 1/8-φ8	
549	P 007 040061 0	Hex socket head bolt	
548	B-007-040061-0	M4*6	
200-540	CW-106-020000-0	"Complete Rotating valve,	
200-540	Cvv-100-020000-0	plastic"	



200-504	C-200-320500-0	Gear Belt pulley U200	
601-MC		Motor 220V/50HZ	
601-MY		Motor 220v/00112	
200-602	CX-200-330000-0	Motor Belt pulley U200	
603	B-007-080121-0	Hex socket head bolt M8× 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 Ø8*30*3	
607-80	S-063-008000-0	"Capacitor 80UF,110V"	
607-50	S-063-005000-0	Capacitor 50uf 220V	
608	B-040-102020-1	Washer q10*20*2	
609	B-050-100000-0	Spring washer Ø10	
610	B-014-100251-0	Outer hex bolt M10×25	
611	B-014-080351-0	Outer hex bolt M8X35	
612	B-004-080001-0	Nut M8	
613	B-040-082220-1	Flat washer φ8×22×2	
614	C-200-560000-0	Motor Rubber Buffer	
200-615	CX-200-340000-1	Motor support	
616	CZ-000-205150-0	Motor Cable 220V RVV5*1.5	
617	B-050-080000-0	Spring washer Ø8	
200-618	C-200-560000-0	Motor Rubber Buffer	

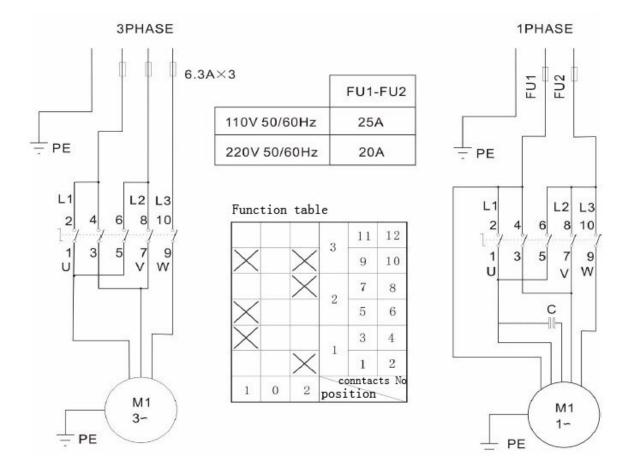


701	S-038-000100-0	Inflating gun indicator
702	C-200-900000-0	Helical hose
703	S-025-104008-0	Notch nut
704	S-025-104008-0	Notch nut
705	B-040-132420-1	Flat washer
706	S-030-010400-2	Pressure adjust valve
707	S-012-010408-0	Quick L-union 1/4-Ø8
708		Complete inflating gun



801	S-033-200002-1	Relief pressure filter
802	S-025-000050-0	Quick coupler
803	S-018-010408-0	2-way Union (90°) 1/4-Ø8
804	S-033-200002-2	Oil fog maker
806	S-015-010408-2	T-union 2X1/4-φ8
810	CW-114-020003-0	Complete oil fog maker

# 15. Circuit diagram:



# 16. Pneumatic drawing:

