

Operating Instructions and Parts Manual Non-Ferrous Manual Cold Saw

Models: J-CK350-2, J-CK350-4



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1.0 Warranty and Service

JET[®] warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
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Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

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More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

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Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors; Machine Accessories
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for industrial or commercial purposes
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3.0 IMPORTANT SAFETY INSTRUCTIONS

- Read and understand the entire owner's manual before attempting assembly or operation.
- Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
- Replace the warning labels if they become obscured or removed.
- The cold saw is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a cold saw, do not use until proper training and knowledge have been obtained.
- Do not use this cold saw for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
- Always wear approved safety glasses/face shields while using this cold saw. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
- Before operating the cold saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Nonslip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
- Wear ear protectors (plugs or muffs) during extended periods of operation.
- Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
- Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
- Make certain the machine is properly grounded.
- Make all machine adjustments or maintenance with the machine unplugged from the power source.
- Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.

- Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
- Make sure the cold saw is firmly placed on a secure foundation.
- Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- Provide for adequate space surrounding work area and non-glare, overhead lighting.
- Keep the floor around the machine clean and free of scrap material, oil and grease.
- Keep visitors a safe distance from the work area. **Keep children away.**
- Make your workshop child proof with padlocks, master switches or by removing starter keys.
- Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
- Maintain a balanced stance at all times so that you do not fall into the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
- Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and safer.
- Use recommended accessories; improper accessories may be hazardous.
- Maintain tools with care. Keep saw blades sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
- Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris do not use your hands.

- Do not stand on the machine. Serious injury could occur if the machine tips over.
- leave the machine running Never unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
- Remove loose items and unnecessary work pieces from the area before starting the machine.

MARNING: This product can expose you to chemicals including chlorinated paraffins which are known to the State of California to cause cancer, and ethylene glycol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca. gov.

MARNING: Some dust, fumes and dases created by power sanding, sawing, grinding, drilling, welding and other construction activities contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

- · lead from lead based paint
- crystalline silica from bricks, cement and other masonry products
- arsenic and chromium from chemically treated lumber

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as dust masks that are specifically designed to filter microscopic particles. For more out information go to http://www.p65warnings. ca.gov/ and http://www.p65warnings.ca.gov/ wood.

SAVE THESE INSTRUCTIONS

Familiarize yourself with the following safety notices used in this manual:

ACAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

AWARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

The specifications in this manual are given as general information and are not binding. JET reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

4.0 About this machine and manual

The J-CK350 circular saw is designed to provide a reliable solution to the needs of machine shops and production environments that work with aluminum or light alloys. The J-CK350 is manually operated: after clamping the material in the vise, the operator presses the trigger handle starting the blade, and brings the operating lever downward to cut the material. The saw performs miter cuts up to 45° to the right or left.

This manual is provided by JET, covering the safe operation and maintenance procedures for the J-FK350 Cold Saw. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

If there are questions or comments about this product, please contact your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.

Register your product using the provided card, or register online: http://www.jettools.com

5.0 J-CK350 Features



Left View

Right View

6.0 Specifications

Model	J-CK350-2	J-CK350-4
Stock Number		
Disc Blade		
Disc diameter	14" (350mm)	
Hole diameter		1.3" (32mm)
Blade thickness		
Cutting Speed		
Blade Speed (RPM)		
Motor		
Motor	2HP, 3PH	2HP, 3PH
Voltage		
Other		
Miter stops	90°, 45° R & L	
Maximum Vise Opening	6"	6"
Coolant Capacity	3 gal	
Dimensions		
Weight	683 lbs	683 lbs

Cutting Capacity (All Models)

	Degree	Round	Square	Rectangle
Tubing	90°	4.5"	4.25"	5.5" x 3.75"
Tubing	45°	3.5"	3.5"	3.5" x 3.5"
Colid	90°	3"	3"	3" x 3"
Solid	45°	2.5"	2.5"	2.5" x 2.5"

7.0 Features

7.1 Miter Cutting Head

The miter cutting head is the unit that cuts the material and consists of a cast iron base, blade support unit and guard, transmission unit, and motor. The depth of cut is set by adjusting the depth cut stop. The miter cutting head swivels and locks into -45°, 90°, and +45° by means of a locking mechanism. Depressing the mechanism overrides the lock, permitting the head to adjust to anv position between -45° and +45°.

7.2 Miter Position Lock

The miter position lock secures the miter cutting head from movement. The miter is secured when the lock is pushed all the way to the left and can be positioned when the lock is moved to the right.

7.3 Self-centering Vise

The self-centering vise holds the work piece in place during cutting. The work piece is secured in the vise by turning the vise handles.

7.4 Blade Lock

The *blade lock* secures the arbor from rotation when attempting to change blades. The blade lock is *pushed in* when changing blades.

ACAUTION The *blade lock* is not spring loaded and *must be pulled out* after the blade has been replaced and before operating the machine.

7.5 Controls

The control panel consists of the Power (On/Off) switch and High/Stop/Low switch, and an integral coolant system. To operate the machine, the Power switch must be set to On and the High/Stop/Low switch must be set for Hi or Low. Then depress the trigger handle to start.

7.6 Trigger Handle

The trigger handle (Figure 1) is located on the operating lever used to raise and lower the saw. It contains a *micro-switch*, which is activated when the operator depresses the run trigger.



7.7 Mist Coolant System

The mist coolant system sprays a coolant mist onto the saw blade during the cutting operation, cooling it and the work piece being cut. Air is supplied from a compressor to the air intake valve (A) located near the bottom of the cabinet on the left side. When the head is moved off of the top limit switch (Figure 2) when beginning a cut, the pneumatic switch (B) is activated, allowing air to flow through the air tube (C) and into the orifice (not shown), causing coolant to be drawn through the coolant tube (D). The pneumatic valve (E) adjusts the amount of airflow. Air and coolant is mixed in the orifice and sprayed onto the saw blade.

Use a water-soluble synthetic coolant with this mist coolant system. The ratio should be between 7:1 to 10:1. Coolant should be changed regularly. Some recommended brands are DoAll and Lenox. These coolants are available at your local industrial distributor.



Figure 2

8.0 Installation

8.1 Unpacking the Machine

Do not handle the packed machine using slings.

To install the machine, first remove the packing, paying particular attention not to cut any electric wires or hydraulic hoses. Lift using straps (Figure 3).



Figure 3

8.2 Anchoring and Handling the Machine

The base of the machine must be anchored to the floor by two lag bolts or studs properly anchored into concrete.

9.0 Electrical Connections

All electrical connections must be done by a qualified electrician. All adjustments or repairs must be done with the machine disconnected from the power source, unplugged. Failure to comply may result in serious injury!

J-CK350-2 is rated at 220V. J-CK350-4 is rated at 440V.

These machines are not supplied with a plug. Use a plug and outlet rated at least 20 amps. The circuit for the machine should also be protected by at least a 20 amp circuit breaker or fuse.

Make sure that the blade turns in the correct direction. If it does not, simply reverse two of the phase wires on the supply input.

The cold saw is now ready for use.

10.0 Controls

10.1 Control Panel

The *Control Panel* (Figure 4) is located on the front of the cabinet stand and consists of the *Power* and *High/Stop/Low* switches, described below.

Power Switch – The *Power* switch has two positions, *Off* and *On*.

High/Stop/Low Switch – This switch controls the blade speed. To operate the saw, the power switch must set to on, *High* or *Low* must be selected, and the *Run Trigger* depressed.



Figure 4

10.2 Trigger Handle

To operate, the *Power* switch must be set to *on* a *Hi* or *Low* speed selection made, and the trigger handle depressed.



Figure 5

11.0 **Operation**

Before using the machine:

- Check that safety devices, such as blade guards, are in position and work perfectly and that personal safety requirements are complied with.
- Check the sharpness of the blade and verify coolant flow.

11.1 General Operating Procedure

- 1. Make sure the work piece is securely clamped in the vise.
- 2. Turn the power on (A, Fig. 8).
- 3. Select the cutting speed (B, Fig. 8).



Figure 8

- 4. Grip the trigger handle (Figure 5) on the control lever.
- 5. Start the blade by pressing the micro-switch on the handgrip.

The down stroke speed of the head is controlled manually by the operator. The mist coolant is activated during the time that the head is below the upper limit position.

When the cut is complete:

- 6. Raise the head.
- 7. Remove the work piece from the vise using the vise hand wheels.

11.2 Miter Adjustment

To adjust the miter position follow the steps below while referring to Figure 10:

- 1. Move the miter position lock (A) to the right to release.
- 2. Adjust the head to the desired angle ranging from -45° to +45° by pushing on the back of the motor to the right or left. The miter position is shown on the scale (B).

- A detent mechanism locks the head in the -45°, 90° and +45° positions to prevent the head from rotating. For a miter position other than -45°, 90° and +45°, press the lever (C) to release while rotating the head.
- 4. When the desired cutting angle is set, move *miter position lock* (A) to the left to secure.



Figure 10

11.3 Depth Stop

The *depth cut stop* adjustment limits the lower travel of the saw blade during a cutting operation.

AWARNING Remove power when making this adjustment. Failure to comply may result in serious injury!

To adjust the depth of cut (refer to Figure 12):

- 1. Using two 13mm wrenches, loosen the lock nut (A).
- 2. With the saw in the fully lowered position, turn the screw (B) until the saw blade bottoms out at the desired level.
- 3. Tighten the lock nut.



Figure 12

12.0 Maintenance

12.1 Maintenance Requirements

AWARNING All maintenance must be carried out with the power switched off. Failure to comply may result in serious injury!

On completion of maintenance, ensure that replaced parts and/or any tools used have been removed from the machine before starting it up.

12.2 Periodic Maintenance

- □ Remove chips from the machine, preferably with a cloth
- Remove chips from the coolant tank and change coolant regularly (see Coolant section)
- □ Top up the coolant level (see *Coolant*)
- Check the wear of the blade and change if necessary (see Changing the Saw Blade)
- □ Empty the chips out of the base.
- □ Clean the vise and lubricate all the joints and sliding surfaces, using good quality oil.
- Check transmission belts for wear (see Transmission Belts)
- □ Attend to daily, weekly and annual lubrication recommendations (see the Lubrication section)

12.3 Coolant System

The coolant tank access door is located on the back of the cabinet stand. Remove four hex cap screws with a 5mm hex wrench. Check coolant level in the coolant tank periodically and top off if necessary. Coolant can also be added by pouring directly on the table, which will drain into the tank through the chip strainer.

Remove excess chips periodically from the tank.

Use the coolant level gauge to check the coolant level.

12.4 Coolant

Use a water-soluble synthetic coolant with this mist coolant system. The ratio should be between 7-10 to 1. Coolant should be changed regularly. Some recommended brands are DoAll and Lenox. These coolants are available at your local industrial distributor.

Coolant Type:

Water-Soluble Synthetic Coolant

12.5 Changing the Saw Blade

AWARNING The cold saw must not be connected to the power source when changing saw blades. Failure to comply may result in serious injury!

To change the saw blade:

- 1. Switch off the machine.
- 2. Release the lower disc guard.
- Move the lower guard upwards. 3.
- 4. Push the blade lock in.

Note: The J-CK350 bolt is a left-hand thread; rotate clockwise to loosen.

- 5. Remove the blade and replace it with a new one.
- 6. To secure the saw blade, reverse the preceding steps.

12.6 Transmission Belts

The J-CK350 uses a V-belt transmission system. After the first 100 working hours, remove the transmission belt protective cover and check the tension and wear of the belts. Repeat the operation after every 500 working hours of the machine.

To tighten the transmission belts:

- 1. Remove the transmission belt protective cover.
- 2. Loosen four bolts (A, Fig. 13) and slide motor back.



Figure 13

12.7 Lubrication

For long life and trouble-free operation, it is essential that this machine be kept well lubricated. The vise and leadscrew should be oiled daily. Pivot joints and bearings should be greased weekly.

Recommended lubricants

Grease fittings Texaco Starplex 2 or equivalent

Vice and Leadscrew Regal R & O 68

12.8 Air Prep Unit

The Air Prep Unit regulates the air pressure supplied to the saw. It is located in the cabinet stand and is accessible through the access door located below and to the left of the control panel. Referring to Figures 14 and 15, it consists of a pressure regulator, pressure gauge, and water trap. Air pressure (90 lbs. minimum) is supplied to the air intake valve located near the bottom of the cabinet on the left side. The pressure regulator should be adjusted to 90-120 lbs.

12.9 Air Prep Unit

Referring to Figure 14:

Required Maintenance

- Check weekly.
- Drain water from the trap when the level exceeds the redline.



Figure 14

13.0 **Blades**

When using the J-CK350 cold saw, it is important to select the correct type of blade for the material to be cut. This section explains the limitations and specific applications of the different types of blades.

General Characteristics

Fine Tooth Pitch - used for thin wall materials such as sheet steel, tubes and profiles Coarse Tooth Pitch - used for large crosssections - for soft materials (aluminum alloys and soft alloys in general).

Determining Proper Tooth Pitch

Proper tooth pitch depends on:

- a) the size of the section;
- b) the hardness of the material;
- c) wall thickness.

Solid sections call for discs with a coarse tooth pitch, while small cross-sections require blades

with finer teeth. This is because when cutting walls of small cross-section (1 - 7)mm) profiles, it is important that the number of teeth actually making the cut should not be too



small, otherwise the effect obtained will be one of tearing rather than of chip removal, leading to a large increase in shearing stress. On the other hand, when cutting thick materials or solid sections using an excessively fine tooth pitch, the chip collects as a spiral inside the gullet, and since fine tooth pitches have small gullets, the accumulated chip will exceed the gullet capacity and press against the walls of the workpieces,

		function of cross-s lid pieces and profi	
s		Os	sp
S in mm.	Pitch T	S and sp in mm.	Pitch T
10	6	10 sp=0.5	3-4
30	8	30 sp=1.5	4-5
50	10	50 sp=2.5	6-7
70	12	70 sp=3.5	8-9
90	14	90 sp=4.5	8-9
130	18	130 sp=6.5	10

KEY:

s = diameter or width of the solid piece to be cut in mm. s = thickness of the wall to be cut in mm. T = tooth pitch in mm.

resulting in poor cutting (same situation with soft materials), greater shearing stress and hence breakage of the blade.

A larger pitch should be chosen when, as a result of the shape of the piece to be cut, the cross-section at any given point exceeds the average cross-section given above.

Cutting and Feeding Speed

The cutting speed, in m/min, and the head feeding speed, in cm₂/min, are limited by the amount of heat generated near the points of the teeth. If the head feeding speed is too high, the cut will not be straight in either the vertical or the horizontal plane. As we have already said, the cutting speed depends on the strength (kg/mm₂) and hardness (HRC) of the material and the dimensions of the thickest section. The feeding speed depends on the cross-section of the material. Solid or thick-walled materials (thickness>5mm) can therefore be cut at high speed providing there is sufficient swarf removal by the blade, while thin-walled materials such as tubes or thin profiles must be cut with a low feeding speed.

A new blade requires a break-in period, during which time about half the normal feeding speed should be used.

Coolant

The cooling fluid mist ensures that the blade teeth and material in the area of the cut do not overheat. The fluid must be an excellent lubricant so as to prevent abrasion of the teeth and welding of the chips to the teeth themselves (seizing).

Types of Blades

The blades fitted to the J-CK350 have dimensions 350 x 32 x 3.4 mm and are of HM hard steel type since the machine is to be used for cutting non-ferrous materials. In addition to the size and pitch of the teeth, however, the also have different blades geometric characteristics in accordance with their particular use:

tooth cutting angle - may be negative or positive

tooth sharpening – may be BW with an alternate raked tooth or C with a roughing tooth raked on both sides and a non-raked finishing tooth

tooth pitch - the distance between the crest of one tooth and the crest of the next tooth (tooth pitch = T)

Teeth Shape

"C" TYPE SHARPENING (HZ)

Coarse toothing with roughing tooth raked on both sides and non--raked finishing tooth – The roughing tooth is about 0.3 mm higher.

Coarse toothing with roughing tooth and finishing tooth – Used in saws with pitch greater than or equal to 5 mm for cutting ferrous and non-ferrous materials with solid or solid-profiled sections.



Figure 16

"BW" TYPE SHARPENING DIN 1838--UNI 4014

Coarse toothing with teeth alternately raked to the right and left – Toothing generally used on cutting-off machines for cutting ferrous and alloy materials with tubular and profiled sections.



Figure 17

POSITIVE AND NEGATIVE CUTTING ANGLES

The cutting angle may vary from positive to negative depending on the cutting speed, the profile and the type of material to be cut.



Figure 18

A positive angle determines better penetration of the tool and hence lower shear stress and greater ease of sliding for the swarf over the cutting edge. On the other hand, the cutting edge has lower mechanical resistance, so as the breaking load of the material to be cut increases, the cutting angle decreases from positive until it becomes negative so as to offer a cutting edge with a larger resistant section.



Short swarf material such as brass, bronze, aluminum and hard cast iron require smaller cutting angles because the swarf becomes crushed immediately and the rake angle has little effect during the cutting stage.



Figure 20

The J-CK350 uses discs with positive cutting angles for cutting solid materials and with negative cutting angles for cutting hollow profiles. This is because, as a result of the high cutting speeds (3400 rpm), even with non-ferrous materials the tool "strikes" against the wall of the profile to be cut several times, thus requiring a cutting edge with a larger resistant section.



Circular saws can also be characterized by other parameters such as the whine reduction feature, which cuts down noise at high speeds, or expansion, which compensates for the pushing of chips inside the cutting edge, thus reducing the thrust on the walls of the material to be cut.



Figure 22

14.0 Troubleshooting J-CK350 Cold Saw

14.1 Blade and Cutting Problems

Problem	Probable Cause	Solution
	Incorrect lubricant/coolant fluid	Ensure proper coolant flow.
	Material too hard	Check the cutting speed, feed speed and air pressure parameters and the type of blade you are using.
	Disc not wornin correctly	With a new blade it is necessary to start cutting at half feeding speed. After the wearingin period (a cutting surface of about 300 cm ² for hard materials and about 1000 cm ² for soft materials) the cutting and feed speeds can be brought up to normal values
Teeth breaking	Disc with excessively fine tooth pitch	The swarf wedges into the bottom of the teeth causing excessive pressure on the teeth themselves
	New blade inserted in a partially completed cut	The surface of the cut may have undergone work hardening. When starting work again, use a lower cutting speed and head feed speed. A tooth from the old blade may be left in the cut: check and remove before starting work again.
	Work piece not clamped firmly in place	Any movement of the work piece during cutting can cause broken teeth: check the vise, jaws and clamping pressure.
	Feed speed too slow	The blade runs over the material without removing it: increase feed speed.
	Cutting pressure too high	Reduce cutting pressure.
	Blade speed too high	The teeth slide over the material without cutting it: reduce the blade speed.
Rapid tooth wear	Insufficient coolant	Check the coolant level and clean coolant lines and nozzles.
	Incorrect fluid concentration	Check and use the correct concentration.
	Material defective	The materials may present altered zones either on the surface, such as oxides or sand, or in section, such as under-cooled inclusions. These zones, which are much harder than the blade, cause the teeth to break: discard or clean these materials.
	Feed speed too high	Reduce blade speed.
Broken blade	Teeth in contact with material before starting the cut	Always check the position of the blade before starting a new job.
	Insufficient coolant	Check the coolant level and clean coolant lines and nozzles.

14.2 Machine Fault & Operating Problems

Problem	Probable Cause	Solution
	Electrical power supply	Check: the phases; the cables; the plug; the socket. Also check that the motor connections are in place.
	Transformer	Check that the voltages are present both on the input and output. Otherwise replace.
	Contactor	Check that the phases in it are present both on the input and output, that it is not jammed, that it closes when powered and that it is not causing short circuits. Change if any of these problems are found.
Spindle motor will not turn	Thermal relay	Make sure it is closed, i.e. check that the phases are present in input and output, that it is not causing short circuits and responds when the reset coil is closed. If it has tripped to protect the motor, check the amperage setting, reset, and check the motor. Change if necessary.
	Motor	Check that it has not burned out, that it turns freely and that there is no moisture in the connection terminal board box. The winding can be rewound or replaced.

15.0 Parts

Ordering Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET.

Some parts are shown for reference only, and may not be available individually.

15.1.1 Stand Assembly – Parts List

1	Index No. Part No.	Description	Size	Qty
3 FK350-603 Cam Switch 1 4 FK350-604 Magnetic Switch 1 5 FK350-604 Magnetic Switch 440V 5 FK350-605 Overload Relay 1 6 FK350-605 Overload Relay 440V 6 FK350-606 Lighted Selector Switch 1 7 FK350SX-650 Pressure Gauge 1 8 FK350SX-655 Elbow Push Fitting PT3/8 1 9 FK350-609 Cable Lock 3 3 10 FK350-610G Rear Cover 1 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-613 Coolant Gauge 1 1 13 FK3500SX-647 Pipe 1 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 2 15 FK350SX-647 Pipe 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1FK350-601G	Cabinet Stand		1
4 FK350-604 Magnetic Switch 1 FK350-604 Magnetic Switch 440V 1 5 FK350-605 Overload Relay 1 FK350-605-440 Overload Relay 440V 1 6 FK350-606 Lighted Selector Switch 1 7 FK350SX-650 Pressure Gauge 1 8 FK350SX-635 Elbow Push Fitting PT3/8 1 9 FK350-610G Rear Cover 1 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350SX-647 Pipe 1 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 1 16 FK350SX-648 Ball Valve 1 1 17 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 18 FK350-615 Transformer (220V only) 1 1	2CK350-002	Air Unit		1
FK350-604-440 Magnetic Switch 440V 1 5 FK350-605 Overload Relay 1 FK350-605-440 Overload Relay 440V 1 6 FK350-606 Lighted Selector Switch 1 7 FK350SX-650 Pressure Gauge 1 8 FK350SX-635 Elbow Push Fitting PT3/8 1 9 FK350-610G Rear Cover 1 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350SX-647 Pipe 1 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 1 16 FK350SX-648 Ball Valve 1 1 17 FK350SX-649 Quick Coupler 1 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 18 FK350-615-2 Transformer (220V only) 1 1	3FK350-603	Cam Switch		1
FK350-604-440 Magnetic Switch 440V 1 5 FK350-605 Overload Relay 1 FK350-605-440 Overload Relay 440V 1 6 FK350-606 Lighted Selector Switch 1 7 FK350SX-650 Pressure Gauge 1 8 FK350SX-635 Elbow Push Fitting PT3/8 1 9 FK350-610G Rear Cover 1 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350SX-647 Pipe 1 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 1 16 FK350SX-648 Ball Valve 1 1 17 FK350SX-649 Quick Coupler 1 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 18 FK350-615-2 Transformer (220V only) 1 1	4FK350-604	Magnetic Switch		1
FK350-605-440 Overload Relay 440V 1 6 FK350-606 Lighted Selector Switch 1 7 FK350SX-650 Pressure Gauge 1 8 FK350SX-635 Elbow Push Fitting PT3/8 1 9 FK350-609 Cable Lock 3 3 10 FK350-610G Rear Cover 1 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350-613 Coolant Gauge 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 1 16 FK350SX-648 Ball Valve 1 1 17 FK350SX-649 Quick Coupler 1 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 10 FK350-615-2 Transformer (220V only) 1 1	FK350-604-440	Magnetic Switch		1
6	5 FK350-605	Overload Relay		1
6	FK350-605-440	Overload Relay		1
8 FK350SX-635 Elbow Push Fitting PT3/8 1 9 FK350-609 Cable Lock 3 10 FK350-610G Rear Cover 1 11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350-613 Coolant Gauge 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 16 FK350SX-648 Ball Valve 1 17 FK350SX-649 Quick Coupler 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 18 FK350-615-2 Transformer (220V only) 1				
9	7FK350SX-650	Pressure Gauge		1
10	8FK350SX-635	Elbow Push Fitting	PT3/8	1
11 TS-1503021 Socket Head Cap Screw M6x10 4 12 FK350-612 Tapered Plug PT1/4 1 13 FK350-613 Coolant Gauge 1 14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 16 FK350SX-648 Ball Valve 1 17 FK350SX-649 Quick Coupler 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1	9 FK350-609	Cable Lock		3
12	10 FK350-610G	Rear Cover		1
13				
14 TS-1502051 Socket Head Cap Screw M5x20 2 15 FK350SX-647 Pipe 1 16 FK350SX-648 Ball Valve 1 17 FK350SX-649 Quick Coupler 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1	12FK350-612	Tapered Plug	PT1/4	1
15 FK350SX-647 Pipe 1 16 FK350SX-648 Ball Valve 1 17 FK350SX-649 Quick Coupler 1 18 FK350-615 Transformer (440V only) AU-20DW(50/60Hz) 1 FK350-615-2 Transformer (220V only) 1	13 FK350-613	Coolant Gauge		1
16 FK350SX-648 1 17 FK350SX-649 1 18 FK350-615 Transformer (440V only) 18 FK350-615 1 19 FK350-615 1 10 FK350-615 1 11 1 1 12 FK350-615 1 13 FK350-615-2 1	14TS-1502051	Socket Head Cap Screw	M5x20	2
17 FK350SX-649 1 18 FK350-615 Transformer (440V only) FK350-615-2 Transformer (220V only)	15 FK350SX-647	Pipe		1
18FK350-615Transformer (440V only)AU-20DW(50/60Hz)1 FK350-615-2Transformer (220V only)	16FK350SX-648	Ball Valve		1
18FK350-615Transformer (440V only)AU-20DW(50/60Hz)1 FK350-615-2Transformer (220V only)	17FK350SX-649	Quick Coupler		1
	18FK350-615	Transformer (440V only)	AU-20DW(50/60Hz)1
	FK350-615-2	Transformer (220V only)		1
JET-92JET Logo (not shown)1				

15.1.2 Stand Assembly – Exploded View



15.2.1 Head Assembly – Parts List

Index No. Part No.	Description	Size	Qty
1J-CK350-201G	Head Body		1
2CK350-202	Spindle		1
	Spindle Housing		
4CK350-204	Blade Flange		1
6CK350-206	Collar		1
7CK350-207	Spindle pulley		1
8CK350-208	Motor Pulley		1
9CK350-209	Blade Lock		1
	Blade Lock Guide		
	Motor Base		
	T-Nut		
	Handle (CK350 only)		
	Socket Head Cap Screw L.H. Thread		
	Lock Washer		
	Saw Blade (local purchase)		
	Hex Cap Screw		
	Hex Nut		
	Hex Cap Screw		
	Lock Washer		
	Flat Head Socket Screw		
	Ball Plunger		
	Hex Nut		
	Set Screw		
	Hex Nut		
	Socket Head Cap Screw		
	Grease Fitting		
	Flat Key		
	Flat Key		
	Oil Seal		
	Ball Bearing		
	Bearing Washer		
	Bearing Nut		
	O-Ring		
	Handle Switch (CK350 only)		
	Plug (CK350-SX only)		
	V-Belt 3V-370		
	Motor 220V		
J-CK350-241-4	Motor 440V		1



15.3.1 Base Assembly – Parts List

Index No. Part No.	Description	Size	Qty
1FK350-101G	Base		1
	Hinge Body		
3FK350-103G	Locking Mount		1
	Release Handle		
5FK350-105	Pin		1
6FK350-106	Coil Spring		1
	Scale		
8FK350-108	Pivot Shaft		1
9J-CK350-109G	Spring Bracket A		1
	Spring Bracket B		
	Chip Screen		
12CK350-112	Return Spring		1
13CK350-113	Spring Holder A		1
14CK350-114	Spring Holder B		1
	Socket Head Cap Screw		
16TS-1504051	Socket Head Cap Screw	M8x25	2
	Lock Washer		
18TS-1504031	Socket Head Cap Screw	M8x16	2
	Flat Washer		
20TS-1505031	Socket Head Cap Screw	M10x25	2
21TS-1551071	Lock Washer	M10	2
22TS-223A911	Socket Head Cap Screw	M12x100	2
23 TS-1504021	Socket Head Cap Screw	M8x12	2
24TS-1491041	Hex Cap Screw	M10x30	2
	Lock Washer		
26 TS-1490041	Hex Cap Screw	M8x25	1
	Pipe		
	Pin 10mm		
	Grease Fitting		
	-		



15.4.1 Manual Vise Assembly – Parts List

Index No. Part No.	Description	Size	Qty
FK350-300	Complete Vise Assembly (includes index #1-32	?)	
1J-FK350-301G	Base	, 	1
2J-FK350-302	Front Vise Jaw (LH Thread)		1
3FK350-303	Tip		1
4FK350-304	Vise Screw		1
5CK350-305	Jaw Insert A (AI)		2
6CK350-306	Jaw Insert B (AI)		2
7FK350-307	Guide Rod		2
8FK350-308	Handle Hub		1
	Handle		
10FK350-310	Filling Block		1
12FK350-312	Сар		1
	Setting Screw		
14FK350-314	Hex Nut	M20x1.5P	1
	Cover		
16FK350-316	Tension Handle		1
17FK350-317	Tension Nut		1
18FK350-318	Pressure Plate		1
19FK350-319	Scale Centering		1
20FK350-320	Pin	10mm Dia. x 30	2
	Retainer		
22TS-1505051	Socket Head Cap Screw	M10x35	4
	Hex Nut		
25TS-1502031	Socket Head Cap Screw	M5x12	2
26TS-1550031	Flat Washer	M5	2
	Hex Cap Screw		
28TS-1540061	Hex Nut	M8	3
	Socket Head Cap Screw		
	Socket Head Cap Screw		
	Rivet		
32J-FK350-332	Rear Vise Jaw (RH Thread)		1



15.5.1 Guard Assembly – Parts List

Index No. Part No.	Description	Size	Qty
1J-CK350-401	Guard A		1
2J-CK350-402	Guard B		1
3J-CK350-403G	Chute		1
4J-CK350-404G	Belt Guard		1
5CK350-405	Plate		2
6CK350-406	Rubber Guide		2
7CK350-407	Nylon Spacer A		1
	Nylon Spacer B		
9CK350-409	Link A		1
	Link B		
11CK350-411	Link Bracket		1
12FK350-410	Link Ring		1
13TS-1504081	Socket Head Cap Screw	M8x40	2
14TS-1504031	Socket Head Cap Screw	M8x16	1
15TS-1550061	Flat Washer	M8	1
16TS-1504041	Socket Head Cap Screw	M8x20	3
17TS-1551061	Lock Washer	M8	3
18TS-2284082	Screw	M4x8	8
19TS-1501031	Socket Head Cap Screw	M4x10	4
20TS-1502021	Socket Head Cap Screw	M5x10	4
21TS-1551031	Lock Washer	M5	3
22CK350-422	Hose Joint		1
23CK350-423	Bushing		1
24CK350-424	Bushing		1
	Snap Ring		
26CK350-426	Snap Ring	S45	1
27FK350-423	Knob	M8x30	1



15.6.1 CK350 Mist Coolant Assembly – Parts List

Index No. Part No.	Description	Size	Qty
1CK350-701	Coolant Block		1
2CK350-702	Coolant Nipple		1
3CK350-703			
4CK350-704G	Valve Bracket		1
5 CK350-705G	Switch Dog		1
6CK350-706	Hold Down Strap		1
	Limit Switch		
	Throttle Valve		
	Elbow Push Fit		
10CK350-710	Elbow Push Fit	PT1/8, 6mm Dia	1
11 CK350-711	Coupling	PT1/8	1
12 CK350-712	Miniature Coupling	M5	2
13TS-1501061	Socket Head Cap Screw	M4x20	2
14 TS-1490051	Hex Cap Screw	M8x30	1
15 TS-1540061	Hex Nut	M8	1
16 TS-1503031	Socket Head Cap Screw	M6x12	2
	Flat Washer		
18TS-1504041	Socket Head Cap Screw	M8x20	5
	Lock washer		
20 TS-1501061	Socket Head Cap Screw	M4x20	2
21 TS-1550021	Flat Washer		
22CK350-722	O-Ring	P5	1



15.7.1 In-Feed Table – Parts List and Exploded View

Index No. Part No.	Description	Size	Qty
1FK350-701	Bracket		1
2FK350-702	Stand		1
3 FK350-703	Leveling Foot		2
4TS-154010	Hex Nut M16		2
5 FK350-705	Angle Rail		2
6FK350-706	Base A		1
7FK350-707	Base B		1
8TS-1491041	Hex Cap Screw	M10x30	8
	Hex Cap Screw		
10TS-1491121	Hex Cap Screw	M10x70	2
	Lock Washer		
12 TS-1540071	Hex Nut	M10	
13FK350-713	Roller		6
14FK350-714	Roller Bracket		12
15 TS-1502021	Socket Head Cap Screw	M5x10	12
16FK350-716	Cover A		2
17FK350-717	Cover B		5
18TS-1533032	Pan Head Screw	M5x10	7



15.8.1 **Out-Feed Table Parts List and Exploded View**

Index No. Part No.	Description	Size	Qty
1FK350-801	Guide Block		1
	Guide Rail		
3TS-1502051	Socket Head Cap Screw	M5x20	8
4FK350-804	Stopper Base		1
5TS-1502051	Socket Head Cap Screw	M5x20	2
6 FK350-806	Connecting Plate		1
7TS-1502071	Socket Head Cap Screw	M5x30	3
	Lock Block A		
9 FK350-809	Lock Block B		1
	Spring		
	Stopper		
	Socket Head Cap Screw		
13FK350-813	Stopper Pad		1
	Socket Head Cap Screw		
	Scale Indicator		
	Rivet		
	Inch Scale		
	Handle		
19TS-1504041	Socket Head Cap Screw	M8x20	2



15.9.1 Stock Stop Assembly – Parts List and Exploded View

Index No. Part No.	Description	Size	Qty
1FK350-501	Block		1
2FK350-502	Shaft		1
3FK350-503	Stop Rod		1
4FK350-504	Scale (Inch)		1
6FK350-506	Handle	M8x30	2
7FK350-505	Rivet		2



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16.0 Wiring Diagram





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