

KIC 405 I



Original Instructions



Read instructions before operating Metal Cutting Chop Saw.



EIBENSTOCK POSITRON



KIC 405 I

PRIOR TO USE :-

Please read these operating and safety instruction carefully and completely. For your own safety, Before using this 5HP Induction motor chop saw check that the voltage is correct and that all parts are firmly secured. If you are uncertain about any aspect of using this chop saw, contact your dealer.

**Appropriate Use**

The tool is designed for Cutting Metal Solid bar, Round pipes, Square pipes, Angle cutting etc. Do not exceed the Cutting capacity as mention in manual, Otherwise the tool could be damaged and lead to the loss of warranty. For additional safety instruction, read general safety instruction.

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NOTE

- As our engineering is striving for the constant research and development to improve the quality, shape or specification of our product can be changed without prior notice.

Product Specification & Cutting Capacity

Motor	: 5 HP
Voltage (V)	: 440
Max. Cutting Wheel Dia (mm)	: 405
No Load Speed	: 3300 rpm
Net Weight (KG)	: 87
Cutting Capacity	:

Working Shape	Specification
Bar Dia	85 mm.
Pipe Dia	130 mm.
Shape Steel	130*130 mm.

Operation Instruction

Be sure the part is clamped securely in vice. Any part movement will result in broken blades. Always wear safety goggles.

Check part location :- Part centerline should be ahead of wheel centerline. Do not climb cut. Use shims or spacers to move part out towards operator to avoid climb cutting.

Use a smooth steady pulling action when cutting. If no sparks are present the blade is not working correctly. Finished cuts should be bright not blue or yellow. This indicate too much heat if part is discolored. Check wheel grade selection, part centerline location and cutting rate before proceeding.

Keep down stop adjust correctly so as not to overcut into the saw table. Down stop is adjusted by using the spanner.

Always keep blade guard in down position. Always wear safety glasses at all time.

Never wear loose gloves or loose fitment clothing when operating machine. Keep long hair tied back.

Never put hands directly into sawing area while machine is in operation.

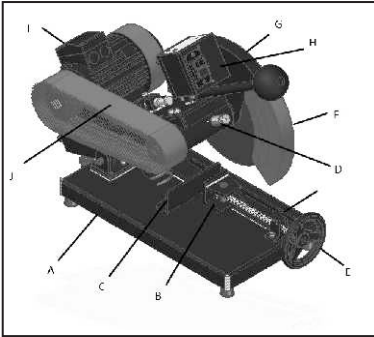
To set vice proper angle, Loose Allen head screw of vice plate, Adjust required angle line with Locating plate line & Clamp Again with screw.

Maintenance Instruction

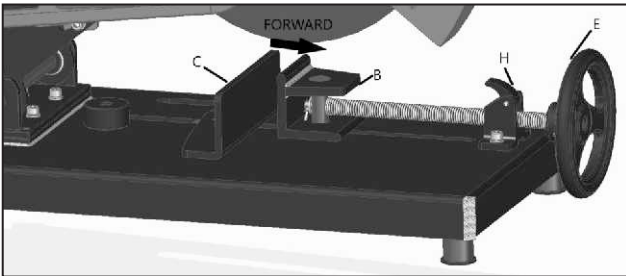
Keep V belt tight, Normal use results in stretching. Check frequently, Depending upon the Uses of machine.

Make sure drive pully and spindle pully remains in line. Both outer edges of pulleys should be in good alignment. Keep spindle flanges clean, smooth and free of abrasive dust. Keep working area clean.

Features

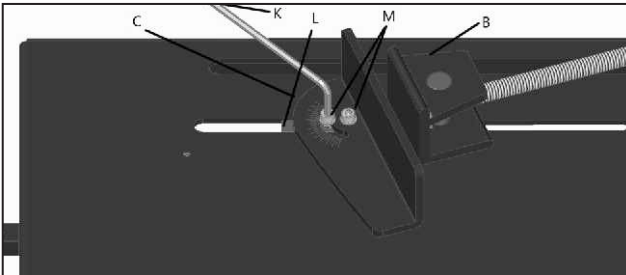


- A) Base
- B) Vise Plate SA
- C) Flange Plate
- D) Wheel Locking SA
- E) Housing Wheel
- F) Movable Guard
- G) Wheel Guard
- H) Switch Box SA
- I) 5 HP Induction Motor
- J) Belt Guard SA



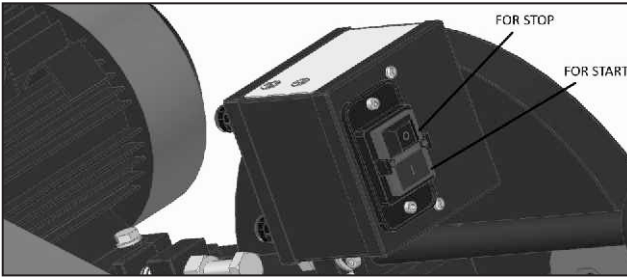
Vise operation :

The vise plate (B) has quick travel feature. To release the vise when it is clamped tightly, turn the crank (E) counterclockwise one or two times to remove clamping pressure. Lift vise lever (H) up. Pull crank assembly out as far as desired. Vise may be pushed forward into work without cranking. Lower vise lever (H) then Tighten vise(B) on work by using crank (E).



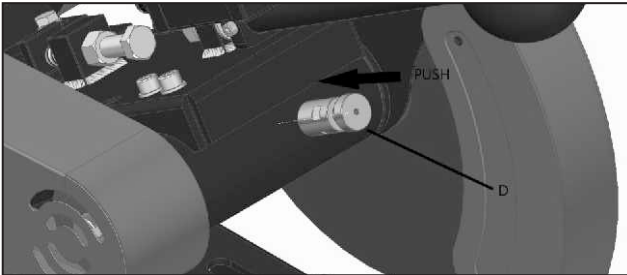
To change the desired cutting angle :

Use the wrench (K) provided to loosen (do not remove) the two Allen screw (M). Align the desired angle indicator line with the indicator on locating plate (L). Securely tighten both Allen head screw before use.



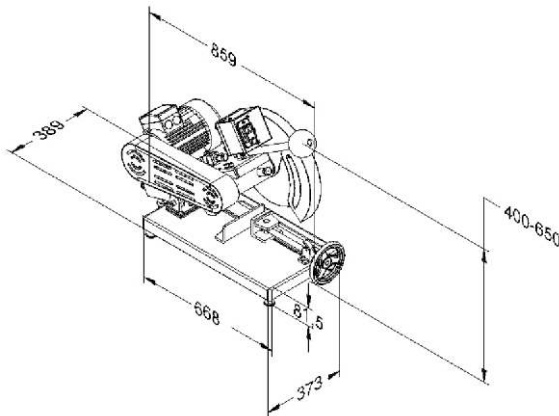
Trigger Switch :

To start the tool, press the trigger switch (green). To turn the tool off, press the trigger switch (red).



Removal and installation of wheels :

Push wheel locking lever (D) and rotate abrasive wheel by hand until Wheel locking lever engages slot inside the spindle of housing. Use the wrench and loosen the Allen screw counter clockwise in the center of the abrasive wheel with the 8 mm hex wrench. Remove the screw, washer, outside flange & Old wheel. Make sure flange surface are clean and flat. Install new abrasive wheel by reversing the above steps. Do not over tighten bolt.



Safety Instructions for Power Tools

When using power tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place.



General Safety Rules



WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS.

1) WORK AREA

- a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.**

There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

3) PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

4) POWER TOOL USE AND CARE

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source before making any adjustments, changing accessories,

or storing power tools. Such preventive safety measures

reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

THANK YOU FOR BUYING A EIBENSTOCK METAL CUTTING CHOP SAW

We have built for you a reliable and lasting Metal Cutting Chop Saw. effectively and without endangering your health is only possible if this instruction for use is read carefully before first using the tool.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage.

Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well.

SAFETY REGULATIONS

The corresponding safety information can be found in the enclosed booklet.

⚠ CAUTION!

Read all safety regulations and instructions.

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

PROPER USE

The Metal Cutting Chop Saw is designed for cutting Metal angel, Sections & Pipes into the lengths.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user/operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or

industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

⚠ Wear ear-muffs.

The impact of noise can cause damage to hearing.

REPLACING THE POWER CABLE

If the power cable for this equipment is damaged, it must be replaced by the manufacturer or its after-sales service or similarly trained personnel to avoid danger.

- Cleaning, maintenance and ordering of spare parts. Always pull out the main power plug before starting or any cleaning work.

Cleaning

- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible.

Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.

- We recommend that you clean the device immediately each time you have finished using it.

- Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

Maintenance

There are no parts inside the equipment which require additional maintenance.

Ordering replacement parts:

Please quote the following data when ordering replacement parts:

- Type of machine
 - Article number of the machine
 - Identification number of the machine
 - Replacement part number of the part required
- For our latest prices and information please go to our website

<http://www.ep-india.in>

DISPOSAL AND RECYCLING

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic.

Defective components must be disposed of as special waste. Ask your dealer or your local council.

SYMBOLS

Please read the instruction carefully before starting the machine.



CAUTION! WARNING! DANGER!



Always wear goggles when using the machine.



Always disconnect the plug from the socket before carrying out any work on the machine.

WARNING!

Read all safety warnings and all instructions, including those given in the accompanying broucher. Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury.

Safety Warning Common for Grinding, Sanding, Wire Brushing or Abrasive Cutting - Off operations :

a) This power tool is intended to function as a grinder, sander, wire brush, or cut-off tool. Read all Safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

b) Operations such as a polishing are not recommended to be performed with this power tool. Operations for which the power tools was not designed may create a hazard and cause personal injury.

c) Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to you power tool, it does not assure safe operation.

d) The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.

e) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.

f) The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

g) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspecting for damage or install an undamaged accessory. After inspection and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.

h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be

capable of filtering particles generated by you operation. Prolonged exposure to high intensity noise may cause hearing loss.

i) Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

j) Hold the power tool by insulated gripping surface only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting „live“ wire may make exposed metal parts of the power tool „live“ and could give the operator an electric shock.

k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

l) Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

m) Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

n) Regularly clean the power tool air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

o) Do not operate the power tool near flammable materials. Sparks could ignite these materials.

p) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotation wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of saw misuse and / or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) Maintain a firm grip on the power tool and position you body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.

b) Never place your hand near the rotating accessory. Accessory may kickback over your hand.

c) Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheels movement at the point of snagging.

d) Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

e) Do not attach a saw chain, woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

Safety Warnings Specific for Grinding and Abrasive Cutting Off Operations :

a) Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

b) The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect the operator from broken wheel fragments and accidental contact with wheel and sparks that ignite clothing.

c) Wheels must be used only for recommended applications. For example : do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

d) Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.

e) Do not use worn down wheels from larger power tools. Wheel intended for larger power tool is not suitable for the higher speed of smaller tool and burst.

Additional Safety Warnings Specific for Abrasive Cutting-Off Operations :

a) Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the

wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

b) Do not position your body in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.

c) When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel binding.

d) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may blind, walk up or kickback if the power tool is restarted in the workpiece.

e) Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

f) Use extra caution when making a "Hole" into existing walls or other blind areas. The drill bit may hole on gas or water pipes, electrical wiring or objects that can cause kickback.

Safety Warnings Specific for Sanding Operations :

a) Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper. Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

Safety Warning Specific for Wire Brushing Operations :

a) Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush. The wire bristles can easily penetrate light clothing and / or skin.

b) If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brsh with the guard. Wire wheel or brush may expand in diameter due to work load and centrifugal forces.