

# OPERATOR'S MANUAL CT129N MILL & DRILL



#### WARNING!

#### Read and understand the entire instruction manual before attempting set-up or operation of this mill/drill

- This machine is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper safe use of mill/drills, do not use this machine until proper Training and knowledge has been obtained.
- Keep guards in place. Safety guards must be kept in place and in working order.
- Remover adjusting keys and wrenches. Before turning on machine, check to see that any adjusting wrenches are removed from the tool.
- Reduce the risk of unintentional starting.
   Make sure switch is in the OFF position before plugging in the tool.
- Do not force tools. Always use a tool at the rate for which it was designed.
- Use the right tool. Do not force a tool or attachment do a job for which it was not designed.
- Maintain tools with care. Keep tools sharp and clean for best and safest performance. Follow instructions for lubrication and changing accessories.
- Always disconnect the tools from the power Source before adjusting or servicing.
- Check for damaged parts. Check for alignment of moving parts, breakage of parts, mounting, and any Other condition that may affect the tools operation.
- Turn power off. Never leave a tool unattended.
   Do not leave a tool until it comes to a complete stop.
- Keep work area clean. Cluttered areas and bench Invite accidents.
- Do not use in a dangerous environment. Do not Use power tools in damp or wet locations, or expose Them to rain. Keep work area well lighted.

- Keep children and visitors away. All visitors should be kept a safe distance from the work area
- 14 Make the workshop child proof. Use padlocks, master switches and remove starter keys.
- 15. Wear proper apparel. Loose clothing, gloves, neckties, rings, bracelets, or other jewelry may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Do not wear any glove.
- 16. Always use safety glasses. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. accessories may be hazardous.
- 17 Do not overreach. Keep proper footing and balance at all times.
- Do not place hands near the cutterhead while the machine is operating.
- Do not perform any set-up work while machine is operating.
- Read and understand all warnings posted on the machine.
- 21 This manual is intended to familiarize you with the technical aspects of this mill/drill. It is not, nor was it intended to be, a training manual.
- Failure to comply with all of theses warnings may result in serious injury.
- 23. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm.
- 24. Your risk from those exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well ventilated are, and work with approved safety equipment

#### MAIN TECHNICAL SPECIFICATION

| SPECIFICATION                  | CT129N       |
|--------------------------------|--------------|
| Drilling Capacity              | 1"           |
| End Mill Capacity              | 5/8"         |
| Face Mill Capacity             | 2 1/2"       |
| Spindle Taper                  |              |
| Spindle Stroke                 | 2"           |
| Head Tilt                      | ±90°         |
| Number of Spindle Speeds       | Variable     |
|                                | )~2250 RPM   |
| Working Surface of Table       | 600 x 180mm) |
| Max. Table longitudinal Travel | 11"          |
| Max. Table Cross Travel        | 7"           |
| Max. vertical travel           | 15"          |
| Number of T-Slots              | 3            |
| T-Slot Size                    | 3/8"         |
| Motor                          | (600 W, 1Ph) |
| Overall Dimensions             |              |
| Net Weight(approx.)            | 113KGS       |
| Shipping Weight (approx.)      | 135KGS       |

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#### **↑** WARNING

Read and understand the entire contents of this Manual before attempting set-up or operation! Failure to comply may cause serious injure!

#### CONTENTS OF SHIPPING CONTAINER

- 1 CT129N Vario Milling & Drilling Machine
- 1 M10 Drawbar
- 1 Digital Scale & Speed Readout
- 1 Test Flow Chat
- Operator manual
- 1 Toolbox & Tools

#### **Toolbox Contents (Fig. 01)**

- 1 Oil Gun
- 1 MT3 Arbor
- 2 Double End Spanner (17-19, 22-24mm)
- 6 Hex Socket Wrench (2.5,3,4,5,6,8mm)
- 1 Flat Blade Screwdriver
- 1 Cross Blade Screwdriver
- 4 Handle
- 2 M10 "T" Screw
- 2 M10 Washer
- 2 M10 Nut

#### **Unpacking and Clean-up**

- 1. Finish removing the wooden crate from around the mill/drill.
- Unbolt the machine from the crate bottom.
- 3. Sling mill/drill with the proper equipment.
- 4. Clean all rust protected surfaces using a mild commercial solvent, kerosene or diesel fuel. Do not use paint thinner, gasoline, or lacquer thinner. These will damage painted surfaces. Cover all cleaned surfaces with a light film of machine oil.

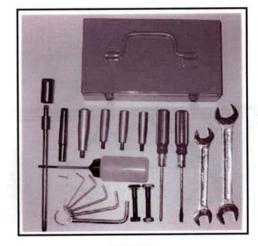


Fig. 01

#### **Assembly**

- Screw handles (A, Fig.02) onto handwheel (B, Fig.3) and tighten.
- 2. Repeat for remaining handles of table.

#### Installation

#### **⚠ WARNING!**

Machine is heavy! Use an appropriate lifting device and use extreme caution when moving the machine to its final location.

Failure to comply may cause serious injury!

- The location for the mill/drill should be well lit, dry, and have room enough to allow the head to rotate 360°.
- Carefully lift the mill/drill with properly rated equipment to a sturdy stand or working bench. For best performance, through bolt the mill/drill to a stand.

We do not recommend that unattached machines be operated, as the machine will move during operation!

- 3. Before bolting the mill/drill to a bench or stand, the unit must be level in both directions. Place a level on the table in both directions.
- 4. If the table of mill is not to level, shim under the low corner(s) until level. Tighten the fastening bolts. Check for level again. Adjust as necessary until the mill/drill is level. Check again when securing bolts are tightened.

#### Installation Drawing (Fig. 03)

The installation drawing described below may differ from the real dimensions. The tolerances are in the range of the general tolerances according to DIN 7168.

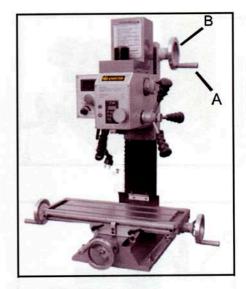
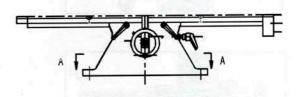


Fig. 02



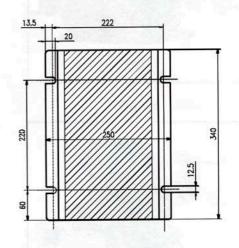


Fig. 03

Down feed Handles: (J, Fig. 08):

Located on the right side of the head casting. Counter-clockwise movement advances the quill toward the table. Return spring retracts the handles. The knob (K, Fig. 08) must be loose before the operating the handles. The graduated dials (L, Fig. 08) on the handle base can be indexed or "zeroed" to help make accurate and convenient movements.

#### Fine Down Feed

Turn counter-clockwise the knob (K, Fig. 08) to engage the fine down feed knob (M, Fig. 08) what located on the front of the head. Turn it according to you want to move downward, Clockwise turn the hand wheel to down feed the spindle, reverse to retract it.

#### Mill Head Rotation

The head is designed to tilt 90° either left or right, enabling it to perform task such as angle drilling or horizontal slotting. Loosen the lock nuts (N, Fig. 09) under the head. Rotate the head to its desired position, using the reference guide (O, Fig.09). Once in place, re-tighten the lock nuts.

Note: make sure to provide support for the head so it doesn't unexpectedly rotate on its own. Always maintain control of the head.

Keep in mind that the head must be dialed in when it's returned to the "zero" position if high levels of accuracy are required. If you are able to use an angle vise to accomplish your milling operation without tilting the mill head, you will save yourself a good amount of set-up time.

#### High/Low Speed Knob (P, Fig. 10)

Located on the right of the mill head. You can select H/L speed by moving the knob right or left. **Note:** Change speed keep machine is at low speed! See the chart below for spindle speeds:

| SPINDLE SPEED 7/m | in |
|-------------------|----|
|-------------------|----|

| L      | Н      |
|--------|--------|
| 0-1125 | 0-2250 |

Caution: Even at low spindle speeds, metal fragments from the cutting process can be expelled by the mill/drill. Always wear eyewear and protective clothing when operating the machine!

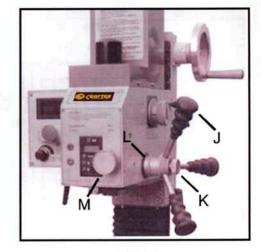


Fig. 08

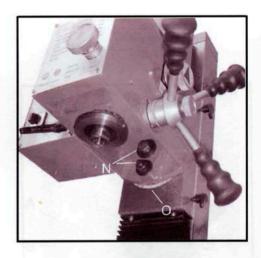


Fig. 09

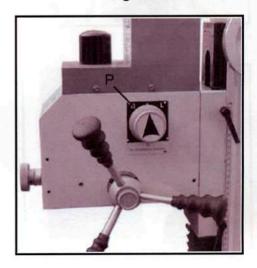


Fig. 10

#### **ELECTRICAL CONNECTIONS**

#### WARNING!

A qualified electrician must make all electrical connections!

Failure to do so may cause serious injury!

Before connecting the machine to the mains, make sure that the electrical values of the mains supply are the same as those for the machine's electrical components. Use the wiring diagram (Fig. 11) for connecting the lathe to the mains supply.

#### **WARNING!**

Make sure the machine is properly ground!

Failure to do so may cause serious injury and damage to user!

**DC-Motor -** its type is 91ZYT005, 110V, 5600rpm, 2.7A, 600W

Make sure that all 2 phase (L, N) are connected. Defective or incorrect connection will render the guarantee null and void.

Indicators are:

Motor runs hot immediately (3-4 minutes).

Motor doesn't run silently and has no power.

Magnetic Switch (A, Fig.12) has the function of emergency stopping and the protective function to the machine and electric components. Green push button marked "I" to start the motor, Red push button marked "O" to switch the motor off.

**Speed Control Knob** (B, Fig. 12) turn it clockwise to increase the spindle speed, reverse to decrease. The knob should be turned to zero each time the machine is stopped. Always start the machine with the knob set at zero.

**F/R switch** (C, Fig.12) changing the position of switch will reverse the direction of the motor. F-forward direction, R- reverse direction.

**Fuse Base** (D, Fig. 13) located on the back plate of electrical box. Fuse rate is 10A, located in the base. Turn counter-clockwise the button to open and change the fuse, reverse to retighten.

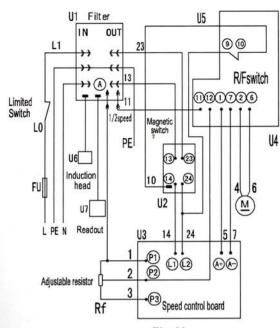


Fig.11

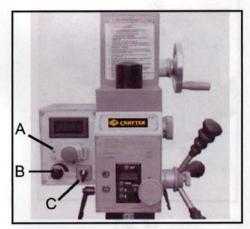


Fig.12



Fig.13

#### **↑** WARNING!

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Failure to comply may cause serious injury!

#### **Arbor Replacement**

- Disconnect machine from the power source, unplug.
- Remover the cover of drawbar onto the motor cover (A, Fig, 14).
- Hold the flat of spindle (B, Fig.15) to keep it from moving while loosening the drawbar (C, Fig 16) with the 22-25 spanner in toolbox.
- Loosen the drawbar approximately three to four full turns.
- Tap the drawbar head with a rubber mallet to dislodge the arbor.
- Grasp the arbor with on hand while loosening the drawbar with the other. Continue to loosen the drawbar until the arbor can be withdrawn from the spindle. Wipe out the spindle with a clean dry rag.
- 7. Wipe down the new arbor with a clean dry rag and place the arbor into the spindle. Thread the drawbar into the arbor. Tighten the drawbar with a spanner while holding the spindle.

#### WARNING!

Do not loosen the drawbar more than three or four turns before hitting with a rubber mallet. Damage to the drawbar threads may occur!



Fig. 14

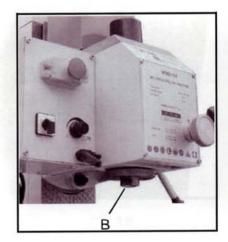


Fig. 15



Fig. 16

#### GIBS ADJUSTMENT

After a period of time, movement of the table over the ways will cause normal wear. Adjust the gibs to compensate for this wear.

- The horizontal gib adjustment screw (A, Fig.17) is found to the rear right on table. The traverse gib adjustment screw (B, Fig.17) is found on the right side of saddle under the table. The vertical gib adjustment screw (C, Fig.18) is found onto the column.
- Loose the screw from small taper end of gib. Turn the screw from large taper end of gib slightly clockwise to tighten. Turn the table handwheel and check the tension.
- 3. Re-adjust as required.

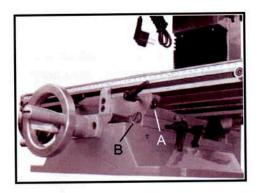


Fig. 17

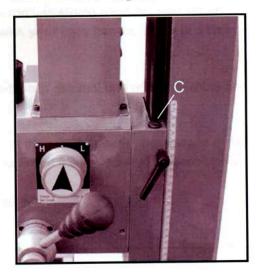


Fig. 18

#### Maintenance

Keep the maintenance of the machine tool during the operation to guarantee the accuracy and service life of the machine.

- 1. In order to retain the machine's precision and functionality, it is essential to treat it with care, keep it clean and grease and lubricate it regularly. Only through good care, you can be sure that the working quality of the machine will remain constant. Disconnect the machine plug from the mains supply whenever you carry out cleaning, maintenance or repair work!
- 2. Lubrication all slideways lightly before every use. The leadscrew must also be lightly lubricated with lithium base grease.
- 3. During the operation, the chips what falls onto the sliding surface should be cleaned timely, and the inspection should be often made to prevent chips falling into sliding ways. Asphalt felt should be cleaned at certain time. Do not remove the chips with your bare hands. There is a risk of cuts due to sharp-edged chips.
- 4. After the operation every day, eliminate all the chips and clean different part of the machine and apply machine oil to prevent rusting.
- 5. In order to maintain the machining accuracy, take care of the arbor, drawbar, the surface of the worktable and the guide way and avoid mechanical damage and the wear due to improper guide.
- 6. If the damage is found, the maintenance should be done immediately.

#### **Trouble Solution**

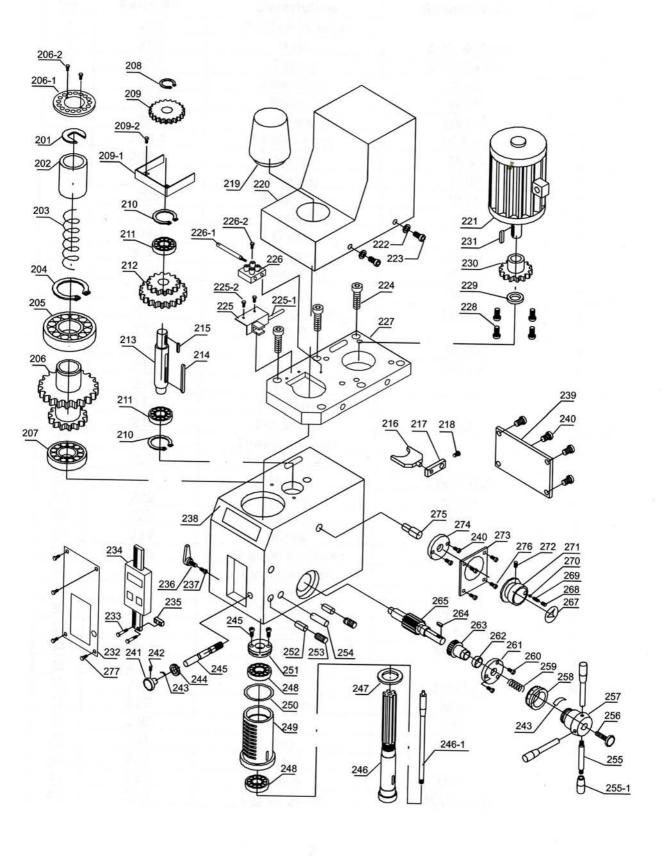
| Problem                                 | Possible Cause   | Solution   |
|---|--|--|
| Too chatters                            | Gibs too loose on table, column Unused feeds not locked Mill head not locked Quill too loose Tool not on center Improper tool shape, tool dull | Readjust gibs Lock all axes but the one moving Lock mill head Tighten quill lock Center tool reshape, sharpen, or replace tool |
| Depth of cut is not consistent          | Quill moving<br>Setup wrong  | Lock quill Make sure setup is parallel to table  |
| Hole is off center or bit wanders       | Bit dull Bit not mounted correctly in chuck Chuck loose in spindle Drawbar not secured Bearing loosen or worn Cutting too fast                 | Use sharp bits Remount tool Remount chuck on arbor Tighten drawbar Tighten or replace bearings Reduce speed                    |
| Bit turns erratically or stops          | Bit fed into work too fast   | Reduce feed rate   |
| Chuck is difficult to tighten or loosen | Chuck sticking<br>Debris in chuck  | Apply lubricant<br>Clean chuck   |
| Chuck wobbles                           | Chuck loose on arbor<br>Drawbar not tight  | Clean arbor and remount Clean spindle and replace drawbar  |
| Turn on machine and nothing happe       | Machine unplugged<br>Loose electrical connections  | Plug in machine<br>Tighten wiring connections  |



# PARTS LIST FOR CT129N MILL & DRILL



#### CT129 MILL HEAD ASSEMBLY I



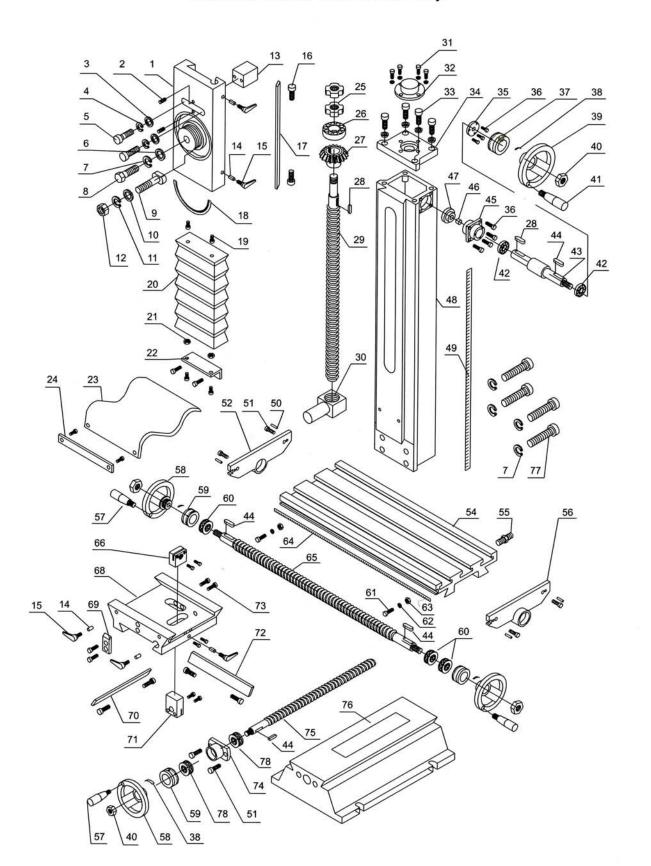
# CT129N MILL HEAD ASSEMBLY I

| Parts No. | Description        | Specification             | Qty |
|-----------|--------------------|---------------------------|-----|
| 201       | Position Washer    |                           | 1   |
| 202       | Bush               | Ф35 45 <sup>#</sup> steel | 1   |
| 203       | Spring             | 2.5x28x100                | 1   |
| 204       | Snap Ring          | Φ 45                      | 1   |
| 205       | Bearing            | 6209                      | 1   |
| 206       | Gears              | 60/70T                    | 1   |
| 206-1     | Raster Ring        | 16 Bore                   | 1   |
| 206-2     | Screw              | M3x8                      | 2   |
| 207       | Bearing            | 7007                      | 1   |
| 208       | Snap Ring          | Ф 15                      | 1   |
| 209       | Gears              | 37T                       | 1   |
| 209-1     | Guard              |                           | 1   |
| 209-2     | Screw              | M3x6                      | 2   |
| 210       | Snap Ring          | Ф 32                      | 2   |
| 211       | Bearing            | 6002                      | 2   |
| 212       | Shafting Gear      | 42/62T                    | 1   |
| 213       | Shaft              |                           | 1   |
| 214       | Key                | 5X50                      | 1   |
| 215       | Key                | C5x12                     | 1   |
| 216       | Fork               |                           | 1   |
| 217       | Fork Arm           |                           | 1   |
| 218       | Set Screw          | 5x8                       | 1   |
| 219       | Drawbar Cover      |                           | 1   |
| 220       | Motor Cover        |                           | 1   |
| 221       | Motor              | 91ZYT005                  | 1   |
| 222       | Washer             | M4x8                      | 6   |
| 223       | Washer             | M4                        | 6   |
| 224       | Screw              | M6x14                     | 6   |
| 225       | Bracket for finder | (Optional)                | 1   |
| 225-1     | Electrical wire    |                           | 1   |
| 225-2     | Screw              | M3x6                      | 2   |
| 226       | Terminal           | (Optional)                | 1   |
| 226-1     | Electrical wire    | (Optional)                | 1   |
| 226-2     | Screw              | M3x12                     | 1   |
| 227       | Motor Plate        | 36 100                    | 1   |
| 228       | Screw              | M5x12                     | 6   |
| 229       | Snap Ring          | M10                       | 1   |
| 230       | Gear               | 25T                       | 1   |
| 231       | Key                | C4X6                      | 1   |
| 232       | Label              |                           | 1   |
| 233       | Screw              | M3x6                      | 2   |
| 234       | Digital Scale      | (Optional)                | 1   |

## CT129N MILL HEAD ASSEMBLY II

| Parts No. | Description                | Specification | Qty |
|-----------|----------------------------|---------------|-----|
| 235       | Base                       |               | 1   |
| 236       | Locking Lever              | M8x20         | 1   |
| 237       | Brass Pin                  | Ф8х16.2       | 1   |
| 238       | Mill Head                  |               | 1   |
| 239       | Plate for Head             |               | 1   |
| 240       | Screw                      | M4x8          | 6   |
| 241       | Knob                       |               | 1   |
| 242       | Set Screw                  | M5x6          | 1   |
| 243       | Spring Piece               |               | 2   |
| 244       | Dial                       |               | 1   |
| 245       | Worm Shaft                 |               | 1   |
| 246       | Spindle                    |               | 1   |
| 246-1     | Drawbar                    | MT3           | 1   |
| 247       | Ring                       | M24x1         | 1   |
| 248       | Bearing                    | 32005         | 2   |
| 249       | Sleeve                     |               | 1   |
| 250       | Rubber Ring                | 58x2.65       | 1   |
| 251       | Adjusted Nut               |               | 1   |
| 252       | Brass Pin                  | B4x20         | 4   |
| 253       | Set Screw                  | M5X12         | 4   |
| 254       | Pin                        | A6x30         | 1   |
| 255       | Handle                     |               | 3   |
| 256       | Knob                       | M8            | 1   |
| 257       | Base                       |               | 1   |
| 258       | Dial                       |               | 1   |
| 259       | Spring                     | 1.2x12x2.5    | 1   |
| 260       | Screw                      | M4X40         | 3   |
| 261       | Flange                     | Ф52           | 1   |
| 262       | Washer                     | Ф25           | 1   |
| 263       | Worm Gear                  | 25T           | 1   |
| 264       | Key                        | 4x12          | 1   |
| 265       | Gear Shaft                 | 3             | 1   |
| 267       | H/L Speed Indication Label |               | 1   |
| 268       | Set Screw                  | M8x8          | 1   |
| 269       | Spring                     | 0.8x5x25      | 1   |
| 270       | Ball                       | Ф 6.5         | 1   |
| 271       | Knob                       |               | 1   |
| 272       | Set Screw                  | M5x16         | 1   |
| 273       | H/L Speed Label            |               | 1   |
| 274       | Flange                     |               | 1   |
| 275       | Fork Shaft                 |               | 1   |
| 276       | Rivet                      | 2x3           | 4   |
| 277       | Screw                      | M3x6          | 4   |

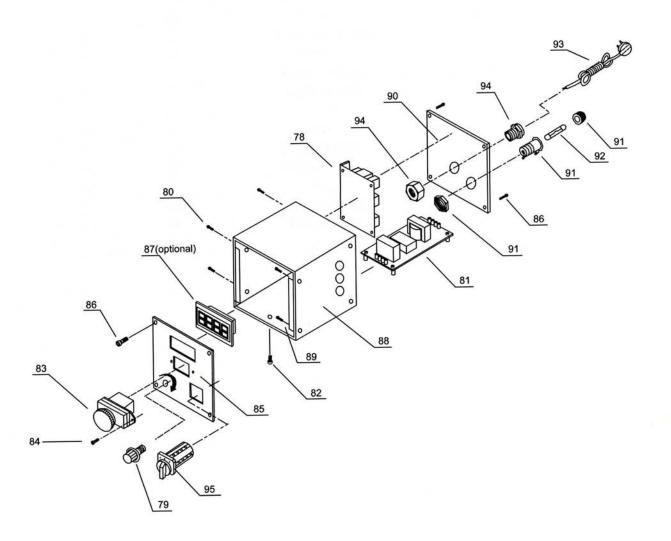
#### CT129N - MILLING & DRILLING MACHINE Column, Table, Base Assembly



# CT129N COLUMN, TABLE, BASE ASSEMBLY I

| Parts No | Description            | Specification | Qt |
|----------|------------------------|---------------|----|
| 1        | Vertical Slide         |               | 1  |
| 2        | Screw                  | M6x16         | 2  |
| 3        | Washer                 |               | 2  |
| 4        | Spring Washer          | 8             | 6  |
| 5        | Screw                  | M8x25         | 2  |
| 6        | Screw                  | M12x40        | 1  |
| 7        | Spring Washer          | 12            | 5  |
| 8        | T-Nut                  | 12            | 1  |
| 9        | Bolt                   | M10x60        | 1  |
| 10       | Washer                 | M10           | 1  |
| 11       | Spring Washer          | M10           | 1  |
| 12       | Nut                    | M10           | 1  |
| 13       | Block                  |               | 1  |
| 14       | Brass Pin              | Ф5х10         | 5  |
| 15       | Locking Lever          | M6x16         | 5  |
| 16       | Gib Screw              | M8            | 1  |
| 17       | Gib                    |               | 1  |
| 18       | Angie Indication Label |               | 1  |
| 19       | Screw                  | M5x10         | 12 |
| 20       | Dust Cover             | 120x400mm     | 1  |
| 21       | Nut                    | M5            | 2  |
| 22       | Connect Rib            |               | 1  |
| 23       | Dust Cover             |               | 1  |
| 24       | Connect Rib            |               | 1  |
| 25       | Nut                    | M16x1.5       | 2  |
| 26       | Bearing                | 51203         | 1  |
| 27       | Gear                   | 26T           | 1  |
| 28       | Key                    | 4x16          | 2  |
| 29       | Vertical Leadscrew     | 5T.P.I.       | 1  |
| 30       | Nut                    | 5T.P.I.       | 1  |
| 31       | Washer                 | M5            | 4  |
| 32       | Cover                  |               | 1  |
| 33       | Screw                  | M8x20         | 4  |
| 34       | Bracket                |               | 1  |
| 35       | Flange                 |               | 1  |
| 36       | Screw                  | M5x12         | 7  |
| 37       | Dial                   |               | 1  |
| 38       | Spring Piece           |               | 4  |
| 39       | Handwheel              |               | 1  |
| 40       | Locking Nut            | M8            | 4  |
| 41       | Handle                 | M10x80        | 1  |

## CT129N MILL ELECTRICAL BOX ASSEMBLY



#### CT129N MILL ELECTRICAL BOX ASSEMBLY

| Parts No. | Description         | Specification | Qty |
|-----------|---------------------|---------------|-----|
| 78        | Speed Control Board | , I = 1       | 1   |
| 79        | Potentiometer       |               | 1   |
| 80        | Screw               | M3x8          | 4   |
| 81        | Filter              |               | 1   |
| 82        | Screw               | M3x16         | 4   |
| 83        | Magnetic Swich      | KJD17B/120V   | 1   |
| 84        | Screw               | M4x10         | 2   |
| 85        | Electrical Plate    |               | 1   |
| 86        | Screw               | M4x6          | 8   |
| 87        | Speed Display       | (Optional)    | 1   |
| 88        | Electrical Box      |               | 1   |
| 89        | Screw               | M5x8          | 4   |
| 90        | Cover               |               | 1   |
| 91        | Fuse Holder         |               | 1   |
| 92        | Fuse (10A)          |               | 1   |
| 93        | Plug                |               | 1   |
| 94        | Strain Relief       |               | 1   |
| 95        | F/R Switch          |               | 1   |
|           |                     |               |     |
|           |                     |               |     |



#### **WARRANTY**

#### CRAFTEX 2 YEAR LIMITED WARRANTY

Craftex warrants every product to be free from defects in materials and agrees to correct such defects where applicable. This warranty covers **two years** for parts and 90 days for labour (unless specified otherwise), to the original purchaser from the date of purchase but does not apply to malfunctions arising directly or indirectly from misuse, abuse, improper installation or assembly, negligence, accidents, repairs or alterations or lack of maintenance.

Proof of purchase is necessary.

All warranty claims are subject to inspection of such products or part thereof and Craftex reserves the right to inspect any returned item before a refund or replacement may be issued.

This warranty shall not apply to consumable products such as blades, bits, belts, cutters, chisels, punches etceteras. Craftex shall in no event be liable for injuries, accidental or otherwise, death to persons or damage to property or for incidental contingent, special or consequential damages arising from the use of our products.

#### RETURNS, REPAIRS AND REPLACEMENTS

To return, repair, or replace a Craftex product, you must visit the appropriate Busy Bee Tools showroom or call 1-800-461-BUSY. Craftex is a brand of equipment that is exclusive to Busy Bee Tools.

For replacement parts directly from Busy Bee Tools, for this machine, please call 1-800-461-BUSY (2879), and have your credit card and part number handy.

- All returned merchandise will be subject to a minimum charge of 15% for re-stocking and handling with the following qualifications.
- · Returns must be pre-authorized by us in writing.
- · We do not accept collect shipments.
- Items returned for warranty purposes must be insured and shipped pre-paid to the nearest warehouse
- Returns must be accompanied with a copy of your original invoice as proof of purchase. Returns must be in an unused condition and shipped in their original packaging a letter explaining your reason for the return. Incurred shipping and handling charges are not refundable.
- Busy Bee will repair or replace the item at our discretion and subject to our inspection.
- Repaired or replaced items will be returned to you pre-paid by our choice of carriers.
- Busy Bee reserves the right to refuse reimbursement or repairs or replacement if a third party without our prior authorization has carried out repairs to the item.
- · Repairs made by Busy Bee are warranted for 30 days on parts and labour.
- Any unforeseen repair charges will be reported to you for acceptance prior to making the repairs.
- The Busy Bee Parts & Service Departments are fully equipped to do repairs on all products purchased from us with
  the exception of some products that require the return to their authorized repair depots. A Busy Bee representative
  will provide you with the necessary information to have this done.
- For faster service it is advisable to contact the nearest Busy Bee location for parts availability prior to bringing your product in for repairs.