OWNER'S MANUAL

GEARED HEAD MILLING & DRILLING MACHINE

Model ZX40 GH MAJOR



READ ALL INSTRUCTIONS CAREFULLY

Keep for future reference!

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

As with all machinery there are certain hazards involved with operation and use of the machine. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

This machine was designed for certain applications only. We strongly recommends that this machine. NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the machine until you have had detail instruction from your dealer.

SAFETY RULES FOR ALL TOOLS

1.FOR YOUR OWN SAFETY ,READ THIS INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tool's application and limitations as well as the specific hazards peculiar to it.

2. KEEP GUARDS IN PLACE and in working order .

3. GROUND ALL TOOLS . If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong plug receptacle, the adapter lug must be attached to a know ground. Never remove the third prong.

4. REMOVE ADJUSTING AND WRENCHES.

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it"on."

5. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

6.DON'T USE IN DANGEROUS ENVIRONMENT .Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well- lighted.

7. KEEP CHILDRE AND VISITORS AWAY. All children and visitors should be keep a safe distance from work area.

8. MAKE WORKSHOP CHILDROOF -with padlocks, master switches, or by removing starter keys.

9. Don't force tool. It will do the job better and be safer at the rate for which it was designed.

10.USE RIGHT TOOL .Don't force tool or attachment to do a job for which it was not designed.

11.WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip foot wear is

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recommended. Wear protective hair covering to contain long hair.

12.ALWAYS WEAR EYE PROTECTION. Refer to ANSIZ87.1 Standard for appropriate recommendations. Also use face or dust mask if cutting operation is dusty.

13.SECURE WORK. Use clamps or a vise to hold work when practical.

It's safer than using your hand and frees both hands to operate tool.

14. DON'T OVERREACH. Keep proper footing and balance at all times.

15. MAINTAIN TOOLS IN TOP CONDITION.

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16.DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, cutters, ect.

17. USE RECOMMENDED ACCESSORIES.

Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.

18.AVOID ACCIDENTAL STARTING. Make sure switch is in "OFF" position before plugging in power cord.

19.NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted

20.CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure 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.

21. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

22.NEVER LEAVE TOOL RUNNING UNATTENDED.TURN POWER OFF.

Don't leave tool until it comes to a complete stop.

23. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drug, alcohol or any medication.

24. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY while motor is being mounted, connected or reconnected.

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ADDITIONAL SAFETY RULES FOR MILL DRILL

- 1.BE SURE drill bit or cutting tool is securely locked in the chuck.
- 2.BE SURE chuck key is removed from the chuck before turning on power.
- 3. Adjust the table or depth stop to avoid drilling into the table.
- **4.SHUT OFF** the power ,remove the drill bit or cutting tool, and clean the table before leaving the machine.
- 5.CAUTION. When practical, use clamps or a vise to secure workpiece to keep the workpiece from rotating while the drill bit or cutting tool.
- 6.WARNING: FOR Your Own Safety Don't wear gloves when operating a mill/drill.

| Model | | | 45 | | | 40 | | |
|----------------------|-----------------|------|--|------------------------|-------------|-------------------------------|----------------------------|--|
| | cast iron | | 45mm | | | 40mm | | |
| Unling capacity | mild steel | | 32mm | | 32mm | | | |
| Face mill capaci | у | | 80mm | | | 76mm | | |
| End mill capacity | | | 32mm | | | 32mm | | |
| Working table size | | | 800mm×240mm | | | 730mm×210mm or 800mm×240mm | | |
| Working table cro | oss travel | | 190mm or 23 | 0mm | | 190mm or 230 | Dmm | |
| Working table lor | igitudinal trav | /el | 560mm | | | 500mm | | |
| T-Slot size | | | 12mm | | | 12mm | | |
| Head tilt left right | | | 90° | | | 90° | | |
| Head swivel | | | | | | 360° | | |
| Spindle taper (op | tion) | | MT3 or MT4 | MT3 or MT4 R8 or ISO30 | | MT3 or MT4 | R8 or ISO30 | |
| Max distance spi | ndle to table | | 460mm | 440mm | | 430mm | 410mm | |
| Spindle stroke | | | 120mm | | 120mm | | | |
| | | atar | | | I | 75 180 20 | 180 280 600 1000 1600 | |
| Spindle speed(rpr | n) Motor | | 0.07/07/07/07/07/07/07/07/07/07/07/07/07/0 | | Π | 150 360 50 | 150 360 560 1200 2000 3200 | |
| option) | | atar | 1 1101 | | 50H | Z 75 170 280 | 75 170 280 540 960 1600 | |
| | Motor | | 1.1KW | | Z 90 210 34 | 5 670 1180 1970 | | |
| Overall dimension | | | 1090mm×1120mmm×785mm | | | n 1075mm×1090mm×800mm | | |
| Packing dimension | | | 850mm×760mm×1150mm | | | 820mm×760mm×1150mm | | |
| W/GW Weight | | | 300/350Kg | | | 270/300Kg | | |

SPECIFICATIONS:

WARNING: CHANGE SPEED ONLY WHEN MACHINE IS STOPPED

CHANGING THE GEAR BOX OIL

Tilt the head stock over as shown in Fig 1.Open the drain plug to allow the oil to drain from the opening completely. Then lock the oil drain plug and turn the head to be upright position. Remove the oil filler plug fill the oil to the gear box until the oil lever reach the middle of oil fluid lever indicator. Then lock the plug.

CLEANING

- (1) Your machine has been coated with a heavy grease to protect it in shipping. This coating should be completely removed before operating the machine. Commercial degreaser, kerosene or similar solvent may be used to remove the grease from the machine, but avoid getting solvent on belts or other rubber parts.
- (2) After cleaning, coat all bright work with a light lubrication. Lubricate all points with a medium consistency machine oil.

LUBRICATION:

All ball bearings in your mill/drill are sealed for life , requiring no lubrication. Points requiring lubrication are:

(1)Internal spline drive assembly. Keep this area well lubricated with a good grade grease, insert grease in the hole at the top of spindle pulley spline driver, lube twice yearly.

(2)A light film of oil applied to the quill and column will reduce wear, prevent rust, and assure ease of operation.

- (3) Quill return spring should receive oil(sae 20) once yearly. Remove cover plate and apply oil with squirt can or small brush.
- (4) IMPORTANT: The gear box should be oiled with a lubricant such as sae 68 oil in level. CHANGE OIL EVERY ONE YEAR.
- (5) Apply lubriplate to quill pinion every 90 days.

NOTE: use extreme care when performing this operation and keep hands clear of pinch points. When using paraffin bar, do this only by turning the sheaves by hand. Do not apply with motor running.

USE OF MAIN MACHINE PARTS

- (1) To raise and lower the head by head handle.
- (2) Equipped with an electric switch for tapping operation clockwise or counterclock wise.

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- (3) To adjust the quick or slow feeding by feed handle.
- (4) To adjust the table left and right travel by table handle wheel.

- (5) To adjust the table fore and after travel by table handle wheel.
- (6) To operate the spindle handle wheel for micro feed.
- (7) To adjust the scale size according to working need.

PRECAUTION FOR OPERATION

Check all parts for proper condition before operation; if normal safety precautions are noticed carefully, this machine can provide you withstanding of accurate service.

- (1) Before Operation
 - (a) Fill the lubricant
 - (b) In order to keep the accurate precision, the table must be free from dust and oil deposits.
 - (c) Check to see that the tools are correctly set and the workpiece is set firmly.
 - (d) Be sure the speed is not set too fast.
 - (e) Be sure everything is ready before use
- (2) After Operation
 - (a) Turn off the electric switch.
 - (b) Turn down the tools.
 - (c) Clean the machine and coat it with lubricant.
 - (d) Cover the machine with cloth to keep out the dust.
- (3) Adjustment of head
 - (a) To raise and lower the head, loosen the leaf screw located on the right side of the raise and lower base. When the desired height is reached tighten leaf screw to avoid vibration.
 - (b) Head may be rotated 360° by loosening the same bolts mentioned above. Adjust the head to the desired angle, then fix the heavy duty head locknuts, it is tighten the same time to fix the head if drilling & milling too much.
 - (c) Unscrew 3 nuts while the workpiece needs to be bevel turn to the degrees you wish on the scale, then screw the 3 nuts.



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QUILL RETURN SPRING ADJUSTMENT:

Spring tension for return of spindle, after hole drilling, has been pre-set at the factory .No further adjustment should be attempted unless absolutely necessary. Adjustment will probably be required if a multiple spindle drilling or tapping head is used .If adjustment is necessary ,loosen lock screw while holding quill spring housing .Do not allow the housing to turn in your hand, or spring will unwind. Turn entire housing assembly clockwise the number of turns necessary to cause the quill to return to its up position.(NOTE: The flat of the spring housing pilot is lined up with the spring loading hole on the body of the spring housing.)Reset lockscrew make sure point of screw mates the flat on the housing journal.

(1)Preparing for Drilling(see fig.2)(Except addition power feed system).

Turn of the knob make loose the taper body of worm gear and spring base. Then we decide spindle stroke setting the positive depth stop gauge for drilling blind hole or free state for pass hole.

(2)Preparing for Milling (see fig.2)(Except addition power feed system).

(a)Adjust the positive depth stop gauge to highest point position.

(b)Turn tight of the knob be use to taper friction force coupling the worm gear and spring base. Then turning the handle wheel by micro set the spindle of work piece machining height.

(c)Lock the rack sleeve at the desired height with fixed bolt.

ADJUSTING TABLE SLACK AND COMPENSATE FOR WEAR(see fig.3)

(1) Your machine is equipped with jib strip adjustment to compensate for wear and excess slack on cross and longitudinal travel.





Cross feed view

Longitudinal feed view

Fig.3

- (2) Clockwise rotation the job strip bolt with a big screw for excess slack otherwise a little counter clockwise if too tight.
- (3) Adjust the jib strip bolt until feel a slight drag when shifting the table.

CLAMPING TABLE BASE AND MACHINE BASE(See Fig.3)

When milling longitudinal feed. It is advisable to lock the cross feed table travel to insure the accuracy of your work. To do this, tighten the small leaf screw located on the right side of the table base.

- (1) Adjustable travel stops are provided on the front of the table for control of cross travel and the desired milling length.
- (2) To tighten the longitudinal feed travel of the table for cross feed milling, tighten the two small leaf screw on the front of the table base.

TO CHANGE TOOLS

(1) Removing Face Mill or Drill Chuck Arbor

Loosen the arbor bolt at the top of the spindle shaft approximately 2 turns with a wrench. Rpa the top of the arbor bolt with a mallet.

After taper has been broken loose, holding chuck arbor on hand and turn detach the arbor bolt with the other hand.

(2)To install Face Mill or Cutter Arbor

Insert cutter and cutter arbor bolt detach securely, but do not over-tighten. (3)Removing Taper Drills

- (a) Turn down the arbor bolt and insert the taper drill into the spindle shaft.
- (b) Turn the rapid down handle rod down until the oblong hole in the rack sleeve appears. Line up this hole with the hole in the spindle. Insert key punch key through holes and strike lightly with a mallet. This will force the taper drill out.

SPECIFICATION OF T-SLOT

The size of T-Solt on table as Fig.4.



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Fig.4

Maintenance instructions

TROUBLE SHOOTING HINTS

| TROUBLE | PROBABLE CAUSE | REMEDY |
|---|--------------------------------------|---|
| Excessive Vibration | 1.Motor out of balance | 1.Balance or replace problem motor. |
| | 2.Bad motor | 2.Replace motor |
| Motor stalls | 1. Over feeding. | 1.Reduce feed rate. |
| 이 가지 않는 것이 가지 않는다. 이 가지 않는 것이 가지 않는다. 이 가지 않는 것이 같은 것이 있는 것이 같은 것이 없는 것 | 2.Dull drill. | 2.Sharpen drill and keep sharp. |
| | 3.Motor not building up to running | 3.Replace or repair motor. Check fuses in all three |
| | speed | legs on three phase motors and replace it |
| | 물 활약 전화되어서 많다는 것이 같다. | necessary. |
| | 4.Bad motor | 4.Replace motor. |
| Noisy Operation | 1.Excessive vibration. | 1. Check remedy under excessive vibration. |
| | 2.Improper quill adjustment. | 2.Adjust quill. |
| | 3.Nosiy spline | 3.Lubricate spline. |
| | 4.Noisy motor | 4. Check motor bearings or for loose motor fan. |
| Drill or Tool heats up | 1.Excessive speed. | 1.Reduce speed. |
| or burns work. | 2. Chips not clearing. | 2.Use pecking operation to clear chips. |
| | 3.Dull tool. | 3.Sharpen tool or replace. |
| | 4.Feed reate too slow. | 4. Incresase feed enough to clear chips. |
| | 5. Rotation of drill incorrect. | 5.Reverse motor rotation. |
| | 6.Failure to use cutting oil or | 6.Use cutting oil or coolant on steel |
| t fer stad i stad og h | coolant(on steel) | |
| Drill leads off | 1.No drill spot. | 1. Center punch or center drill workpiece. |
| | 2. Cutting lips on drill off center. | 2.Regrind drill. |
| | 3.Quill loose in head. | 3.Tighten quill. |
| | 4.Bearing play. | 4. Check bearings and reseat or replace if necessary. |
| Excessive drill runout | 1.Bent drill. | 1.Replace drill. Do not attempt to straighten |
| orwobble | 2.Bearing play. | 2.Replace or reseat bearings. |
| | 3. Drill not seated property in | 3.Loosen, reseat and tighten chuck. |
| | chucks. | |
| Work or fixture | 1.Failure to clamp workpiece or | 1. Clamp workpiece or work holding device to table |
| comes loose or spins | work holding device to table. | surface. |
| | 장애 공격을 얻는 것이 같다. | |
| | | |

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| | | Head | d parts | | | | | |
|---|-----|------|-----------|-----------------------|------|------|-----------|----------------|
| | No. | Qty. | Code | Name | No. | Qty. | Code | Name |
| | 1 | 1 | 20010B | head body | 37 | 1 | | key |
| | 2 | 1 | 20011B | head body cover | 38 | 1 | | key |
| | 3 | 2 | | retaining ring | 39 | 2 | | ball |
| | 4 | 2 | | retaining ring | 40 | 1 | | spring |
| | 5 | 1 | 20018B | airtight base | 40/1 | 1 | | spring |
| | 6 | 2 | | airtight ring | 41 | 2 | | retaining ring |
| | 7 | 1 | | motor | 42 | 1 | | key |
| | 8 | 1 | | screw | 43 | 4 | | screw |
| | 9 | 1 | | washer | 44 | 1 | 20107B | III shaft |
| o | 10 | 1 | 20201 | plate | 45 | 1 | 20109-B | gear |
| | 11 | 1. | 20304-1B | arbor bolt cover | 46 | 1 | 20110-2-B | gear |
| - | 12 | 1 | 20304-2B | arbor bolt cover base | 47 | 1 | 20112-B | gear |
| | 13 | 1 | | screw | 48 | 1 | 20113-B | gear |
| | 14 | 1 | | pin | 49 | 1 | | gear |
| | 15 | 1 | 20025B | joint | 50 | 1 | | key |
| | 16 | 1 | 20026B | sleeve | 52 | 1 | | key |
| | 17 | 1 | 20027B | nut | 53 | 1 | 20019 | spindle sleeve |
| | 18 | 1 | | bolt | 54 | 1 | 20104B | spindle |
| | 19 | 2 | 20020B | cap | 55 | 1 | | bearing |
| | 20 | 2 | 20307B | speed lever | 56 | 1 | | bearing |
| | 21 | 2 | | pin | 57 | 1 | 20114-B | splined sleeve |
| | 22 | 1 | | oil plug | 58 | 1 | 20116-B | gear |
| | 23 | 1 | | screw | 59 | 1 | | retaining ring |
| | 24 | 1 | | screw | 60 | 1 | 20012 | feed base |
| | 25 | 1 | | oil pointer | 61 | 1 | 20128 | support base |
| | 26 | 1 | 20105B | l shaft | 62 | 1 | 20129 | nut |
| | 27 | 1 | 20105-1-B | gear | 63 | 1 | 20130 | knob |
| | 28 | 3 | | bearing | 64 | 1 | 20131 | graduated rod |
| | 29 | 3 | | bearing | 65 | 1 | 20021 | fixed bolt |
| | 30 | 1 | | key | 66 | 1 | 20132 | scale board |
| | 31 | 1 | 20106B | IIshaft | 67 | 1 | | lock washer |
| | 32 | 1 | 20108-B | gear | 68 | 1 | | lock nut |
| | 33 | 1 | 20110-1-B | gear | 69 | 1. | 20308 | rubber washer |
| | 34 | 1 | 20111-B | gear | 70 | 1 | | screw |
| | 35 | 1, - | 20106-1-B | gear | 71 | 1 | | split pin |
| | 36 | 4 | | bearing | 72 | 1 | | bolt |

| | | , | | | | | |
|------------|------|----------|-------------------|--------|----|------|---------|
| | | | | | | | |
| No. | Qty. | Code | Name | Ν | ю. | Qty. | Code |
| 73 | 1 | 20024B | separating ring | 1 | 11 | 1 | 20204 |
| 74 | 1 | 20133B | oil tight cover | 1 | 12 | 2 | |
| 74 | 1 | 62+12+12 | air tight | 1 | 13 | 2 | |
| 75 | 4 | 02*42*12 | nin | 1 | 14 | 2 | 20204 |
| 70 | 1 | 20015 | worm wheel hox | 1 | 15 | 2 | _0_0 |
| 70 | 1 | 20015 | worm chaft | 1 | 16 | 1 | 20126F |
| 78 | 1. | 20119 | worm oover | | 17 | 1 | 20204- |
| 79 | | 20302 | worth cover | | 10 | . I. | 20204 |
| 80 | | 00100 | retaining ing | | 10 | | 20022 |
| 81 | 1 | 20120 | separating ing | | | | |
| 82 | 1 | 20076 | worm wheel | | | | |
| 83 | 1 | 20117 | pinion shart | | | | |
| 84 | 1 | 20013 | handle body | | | | |
| 85 | 1 | 20118 | spring base | | | | |
| 8 6 | 1 | 20123 | spring cap | | | | |
| 87 | 1 | 20122 | spring plate | | | | |
| 88 | 1 | 20303 | big ripple handle | | | | |
| 90 | 1 | 20017 | graduated plate | | | | |
| 91 | 1 | 20121B | handle rod | | | | |
| 92 | 1 | 20301B | handle ball | | | | |
| 93 | 1 | 20306B | handle wheel | | 2 | | |
| 94 | 1 | 20305-1B | turn handle | | | | |
| 95 | 1 | 20305-2B | screw | a chan | | | |
| 96 | 1 | | screw | | | | |
| 97 | 1 | 20102 | washer | | | | |
| 98 | 1 | | bolt | | | | |
| 99 | 1 | | screw | | | | e dell' |
| 100 | 1 | | screw | | | | |
| 101 | 2 | | pin | | | | |
| 102 | 1 | | key | | | | |
| 104 | 2 | | screw | | | | |
| 105 | 1 | 20124B | fixed bolt | | | | |
| 106 | 1 | 20203B | fixed tight block | | | | |
| 107 | 1 | 20202B | fixed tight block | | | | |
| 108 | 1 | | adjust handle | | | | |
| 109 | 4 | 20125B | lever shaft | | | | |
| 110 | 1 | 20022-1R | lever | | | | |

BASE PARTS

| No. | Qty. | Code | Name | No. | Qty. | Code | Name |
|-----|------|----------|---------------------|-----|------|-------|----------------|
| 1 | 1 | 10010 | base | 53 | 2 | | screw M6X16 |
| 2 | 1 | 10013 | column | 54 | 1 | 10101 | up rack |
| 3 | 1 | 10021 | square flange | 55 | 1 | 10015 | column ring |
| 7 | 4 | | bearing | 56 | 1 | 10016 | elevating body |
| 8 | 1 | 10104 | table screw | 57 | 2 | | nut M16 |
| 9 | 2 | 10102 | dial clutch | 58 | 2 | | washer 16 |
| 10 | 2 | 10111 | graduated plate | 59 | 1 | 10014 | column lid |
| 11 | 3 | 10301 | wheel | 60 | 1 | | screw M8×12 |
| 12 | 3 | 20305-1B | turn handle | 61 | 2 | | bolt M16×190 |
| 13 | 3 | 20305-2B | screw | 62 | 4 | | screw M6×25 |
| 18 | 4 | | screw | 63 | 1 | 10112 | worm shaft |
| 19 | 3 | | pin | 64 | 1 | 10201 | washer |
| 20 | 2 | 10107 | screw | 65 | 1 | | screw M10×20 |
| 21 | 3 | 8 | oil cup | 66 | 1 | 10018 | rock handle |
| 24 | 4 | | washer | 67 | 1 | | turn handle |
| 25 | 4 | | bolt | 68 | 2 | | retaining ring |
| 31. | 6 | | pin | 69 | 1 | 10113 | small shaft |
| 35 | 1 | 10011 | center base | 70 | 1 | 10024 | helical gear |
| 36 | 1 | 10012 | table | 71 | 1 | 10017 | bracket |
| 37 | 1 | 10202 | table nut | | | | |
| 38 | 1 | 10203 | table base nut | | | | |
| 39 | 1 | 10020 | right flange | | | | |
| 40 | 1 | 10019 | left flange | | | | |
| 41 | 1 | 10103 | table screw | | | | |
| 42 | 1 | 10105 | dial clutch | | | | |
| 43 | 1 | | fixed block | | | | 것같은 물건이라. |
| 44 | 2 | | washer | | | | |
| 45 | 2 | 것 같은 것 | screw | | | | |
| 46 | 1 | | screw | | | | |
| 47 | 2 | | screw | | | | |
| 48 | 1 | 10022 | gib strip | | | | |
| 49 | 4 | | screw | | | | |
| 50 | 2 | 10108 | movable fixed block | | | | |
| 51 | 2 | 10109 | fixed block support | | | | |
| 52 | 1 | 10023 | gib strip | | | | |

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WIRING DIAGRAM

Certificate of Inspection

for

Geared Head Milling and Drilling Machine

Model ZX40

Dispatch No .:

The machine has been qualified and may be permitted to dispatch

| Head | of | Inspection | Depart | Date | |
|------|----|------------|--------|------|--|
| | | | | | |

Director____ Date____

| | ACCURACY TEST FOR | | | Fotal 2 |
|-----|--|---|----------------------------|--------------|
| | MILLING & DRILLING MACHINE | | | P1 |
| No. | Checking items | Tol | erance | Error tested |
| G1 | The flatness of worktable surface | 0.025 for any tested length 200 Max 0.8 | | 0.01 |
| G2 | Squareness of worktable longitudinal movement to cross movement $-a - a - a - a - a - a - a - a - a - a$ | 0.0 | 4/300 | 0-63 |
| G3 | Parallelism of worktable longitudinal movement to the base T-slot | 0.05 | ; | 0.04 |
| G4 | Ran-out of spindle hole center line $ \begin{array}{c} \hline $ | a) No spindl 0.015 b) At distan 100 fr spindl 0.02 | a ce of om e nose | 0-0) |



PACKING LIST FOR

GEARED HEAD DRILLING & MILLING MACHINE ZX40

| | Series No : | | Dime | ension : | |
|-----|---------------------------------|---------------------------|-------|----------|--|
| | G/W : | | | N/W : | |
| No. | Name | Spec | Model | Quantity | Remark |
| 1 | Milling & drilling machine | 40 | ZX-40 | 1 | 8 |
| 2 | Draw bar | 7/16″-20 | | 1 | |
| 3 | Adapter | 2/3 | | 1 | |
| 4 | Taper shank for drilling chunck | MT3 | | 1 | |
| 5 | Drilling chuck | $\Phi_{1} \sim \Phi_{13}$ | - | 1 | |
| 6 | Arbor | | | 1 | n i n i n i n N i n i n i n i n i n i n i n i n i n i |
| 7 | T slot bolt | M12×55 | | 2 | |
| 8 | Washer | 12 | | 2 | |
| 9 | Nut | M12 | | 2 | |
| 10 | Tikted wedge | 1. | 1 | 1 . | |
| 11 | Spanner | 22-24 | | 1 | |
| 12 | Oil gun | | | 1 | |
| 13 | Instruction Manual | | | 1 | |
| 14 | Certificate of inspection | | | 1 | |
| 15 | Packing list | | | 1 | |

Packing inspector ZEZ

Date 2010.8