Operating Instructions and Parts Manual Miter Band Saw

Model YCM-300 CNC Metal Cutting Band Saw 2025.02

CE

CE-Konformität / Conformité CE

Durch CEPROM S.A. gemäss folgenden Richtlinien geprüft und zertifiziert

-Maschinenrichtlinien 2006/42/EC

-elektromagnetische Verträglichkeit 2014/30/EU

- Niedervolt Direktiven 2014/35/EU

Erklärt hiermit, dass die folgende Maschine: YCM – 300 CNC

sofern diese gemäss der beigelegten Bedienungsanleitung gebraucht und gewartet werden, den Vorschriften betreffend Sicherheit und Gesundheit von Personen, gemäss den oben aufgeführten Richtlinien der EG entsprechen.

La machine ci-dessous a été contrôlée etcertifiée par Durch CEPROM S.A. J selon les normes suivantes

-les directives Européennes 2006/42/EC

-compatibilité électromagnétique 2014/30/EU

- Directives basses tension 2014/35/EU

Déclare que les machines sous-mentionnées: YCM – 300 CNC

sont, sous condition qu'elles soient utilisées et maintenues selon les instructions du manuel d'instruction joint, conformes aux préscription sur la santé et la sécurité des personnes, selon les directives sur la sécurité des machines mentionnées ci-dessus.

** EN ISO 12100, EN 13898, EN 60204-1, EN 61000-6-2, EN 61000-6-4

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Warnings

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. 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.
3. Replace the warning labels if they become obscured or removed.
4. This band 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 band saw, do not use until proper training and knowledge have been obtained.
5. Do not use this band saw for other than its intended use. If used for other purposes, PROMAC, disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this band saw. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
7. Before operating this band saw, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, 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 face or dust masks that are specifically designed to filter out microscopic particles.
10. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
11. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
12. Make certain the machine is properly grounded.
13. Make all machine adjustments or maintenance with the machine unplugged from the power source.
14. 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.
15. 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.
16. 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.

Warnings

17. Provide for adequate space surrounding work area and non-glare, overhead lighting.
18. Keep the floor around the machine clean and free of scrap material, oil and grease.
19. Keep visitors a safe distance from the work area. **Keep children away.**
20. Make your workshop child proof with padlocks, master switches or by removing starter keys.
21. Give your work undivided attention. Looking around, carrying on a conversation and “horse-play” are careless acts that can result in serious injury.
22. Maintain a balanced stance at all times so that you do not fall or lean against the blade or other moving parts. Do not overreach or use excessive force to perform any machine operation.
23. 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.
24. Use recommended accessories; improper accessories may be hazardous.
25. Maintain tools with care. Keep blades sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.
26. Make sure the work piece is securely clamped in the vise. Never use your hand to hold the work piece.
27. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.
28. Do not stand on the machine. Serious injury could occur if the machine tips over.
29. Never leave the machine running unattended. Turn the power off and do not leave the machine until the blade comes to a complete stop.
30. Remove loose items and unnecessary work pieces from the area before starting the machine.

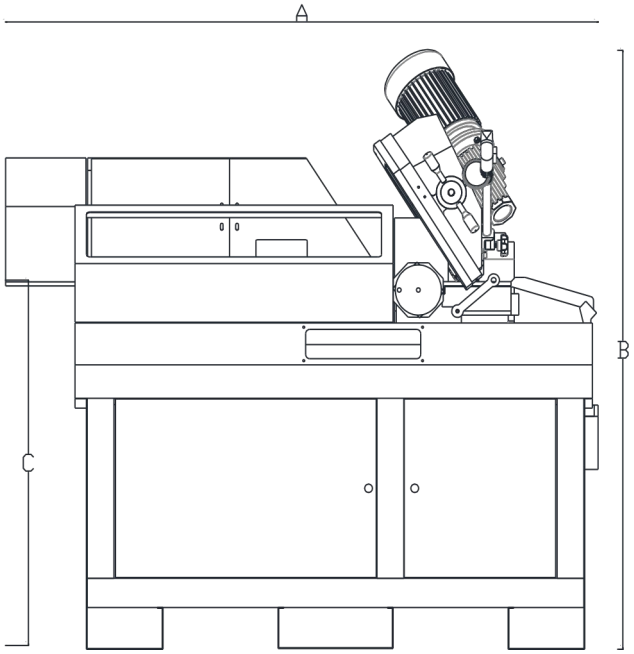
Familiarize yourself with the following safety notices used in this manual:

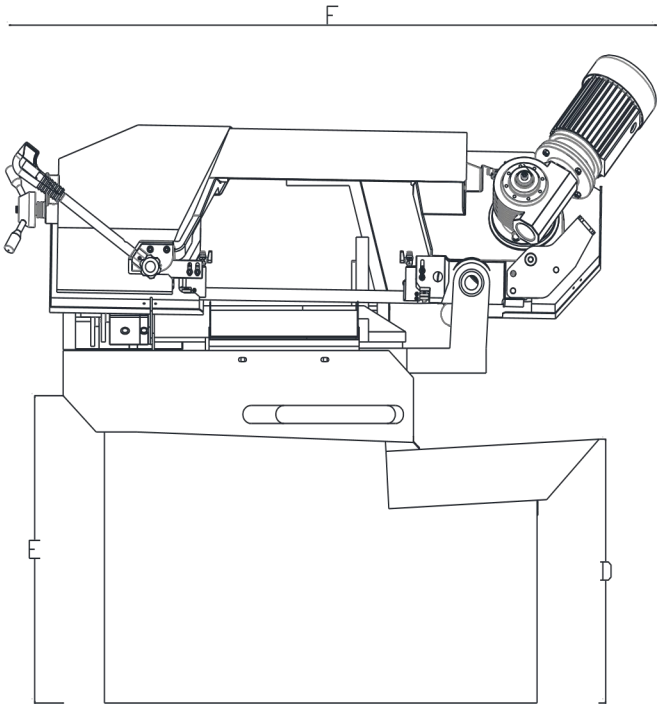
⚠CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

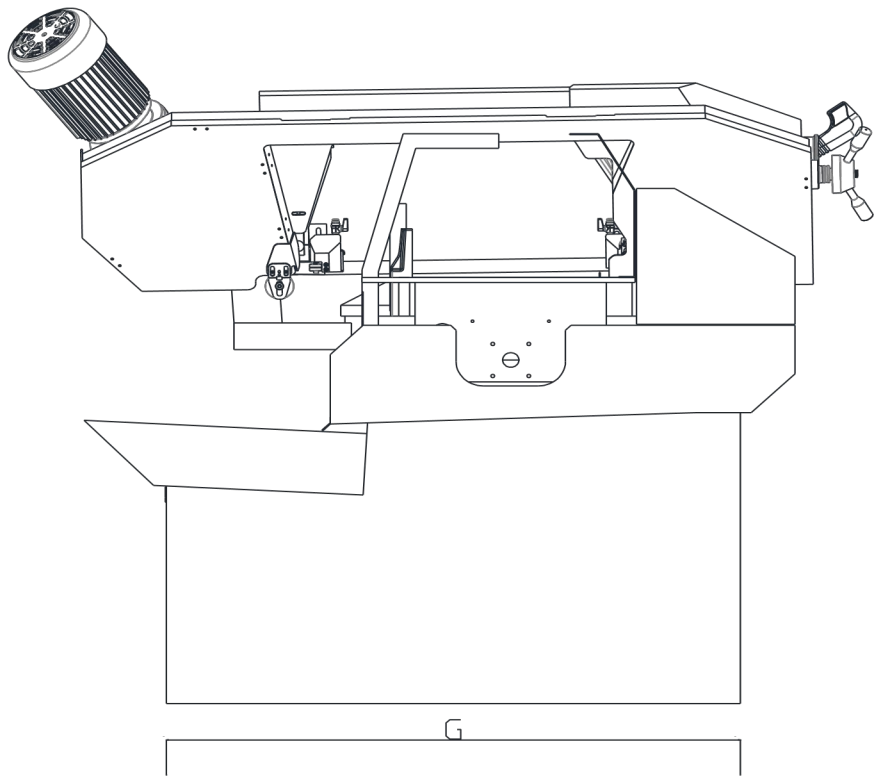
⚠WARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

- - SAVE THESE INSTRUCTIONS - -

Machine Dimension







Model	YCM-300 CNC	YCM-320CNC	YCM-350 CNC	YCM-400CNC
A	1800	1800	2000	2200
B	1800	1800	2000	2100
C	1000	1000	1000	1000
D	700	700	700	700
E	600	600	600	600
F	1800	2000	2200	2400
G	1000	1000	1000	1100

Specifications

Model	YCM-300 CNC
Stock Number	YCM-300 CNC
Cutting Capacity	
Round at 90° (mm)	260
Round at 45° (mm)	240
Round at 60° (mm)	160
Square at 90° (mm)	250
Square at 45° (mm)	215
Square at 60° (mm)	130
Rectangle at 90° (mm)	295 x 220
Rectangle at 45° (mm)	225 x 215
Rectangle at 60° (mm)	160 x 130
Solid Material at 90° (mm)	100
Solid Material at 45° (mm)	80
Solid Material at 60° (mm)	50
Bunch cutting (mm)	290 x 100
Blade Size (mm)	2965 x 27 x 0.9
Blade Speeds (MPM)	25~85
Motor	1.25kW, 400V, 3Ph
Machine Dimension (mm)	2800 x 1800 x 1800
Machine Package (mm)	1610 x1700 x 1720
Net Weight (kgs.)	680

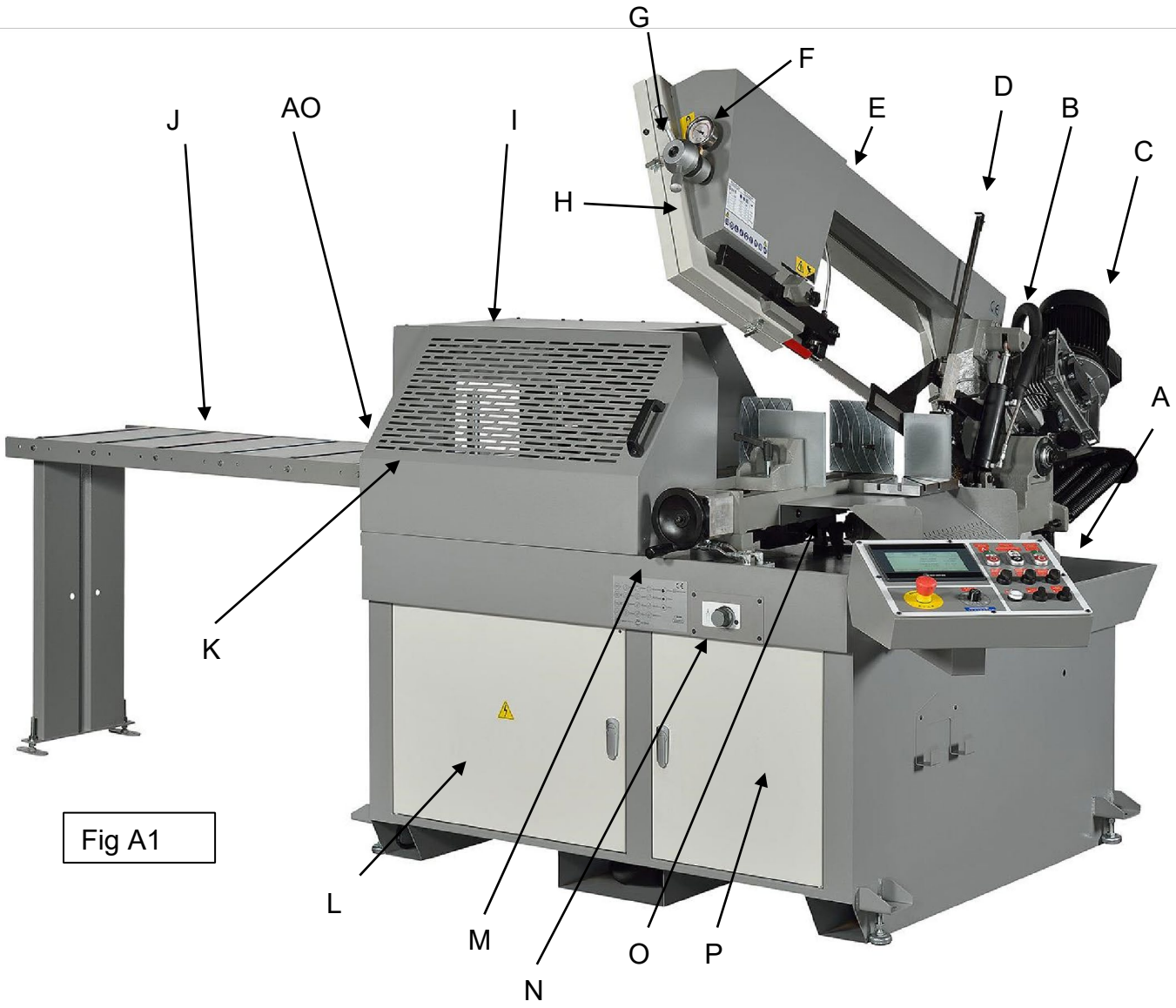


Fig A1

A	Control Box	I	Protect Cover
B	Cylinder	J	1 Meter Roller Table
C	Motor	K	Cover
D	Material high control	L	Electrical Parts Door
E	Saw Arm	M	Vise For Cutting
F	Tension Gauge	N	Adjustment Value For Down Feed Of Saw Arm
G	Tension Adjustment Handle	O	Material Moving Support
H	Saw Blade Protect Cover	P	Hydraulic System Door
		AO	Position for Material in

Fig A2

Q	Hydraulic Switch	Y	Up/Down Switch For Saw Arm
R	Vise Feeding Switch	Z	Main Switch
S	Cutting ON/ OFF Switch	AA	Tough Panel
T	Close /Open Switch for Feeding Vise	AB	E-Stop
U	Close /Open Switch for Cutting Vise	AC	Selector Switch For Cutting Speed
V	Manual/Auto Select Switch		
W	Light for power		
X	Cooling		

Control Tough Panel

Chose the Langue

Turn on the Main Switch Z (Fig A2)

Release the E-Stop AB (Fig A2)

The system will open in few seconds

Tough the position “ Main” (Fig B1)

Tough the position AD(Fig B1)

Enter the code : 1111

Choice the Langue you need

Return to the main page

Fig B1

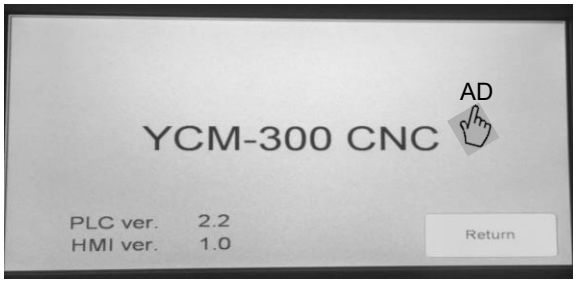


Fig B2

Fig B3

Fig B4

Fig B5

Set Up the system and check the I/O

Turn on the Main Switch Z (Fig A2)
Release the E-Stop AB (Fig A2)
The system will open in few seconds
Tough the position " Main" (Fig B1)
Tough the position AE (Fig B6)
Enter the code : 2222

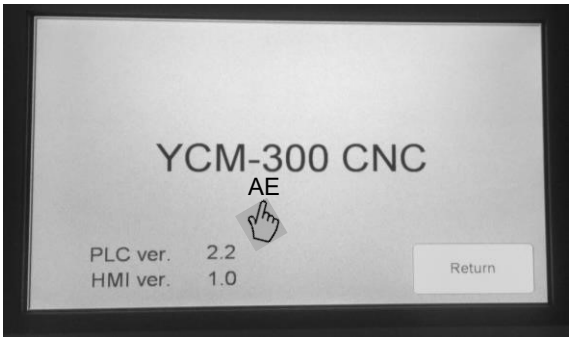


Fig B6

Tough the PLC I/O
Then You can check the Input / Output
Return to the main page

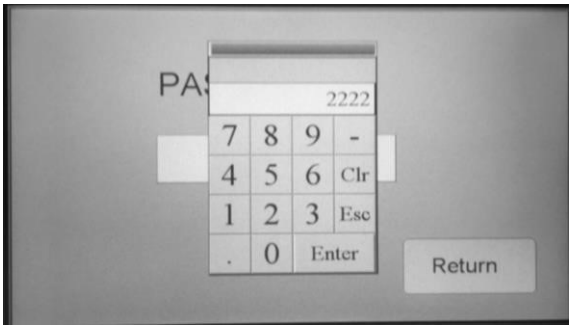


Fig B7

Attention :
The machine have set up for standard Operation , but it could be modify at this page

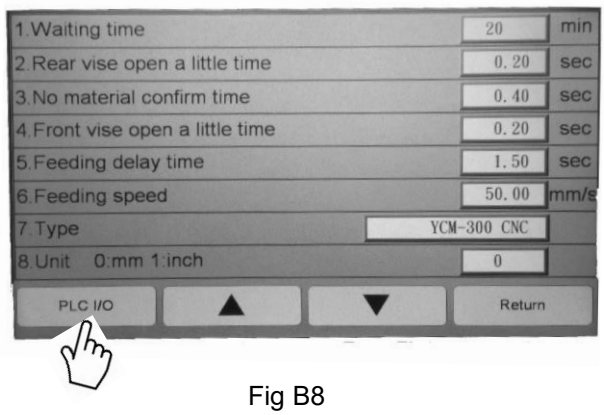
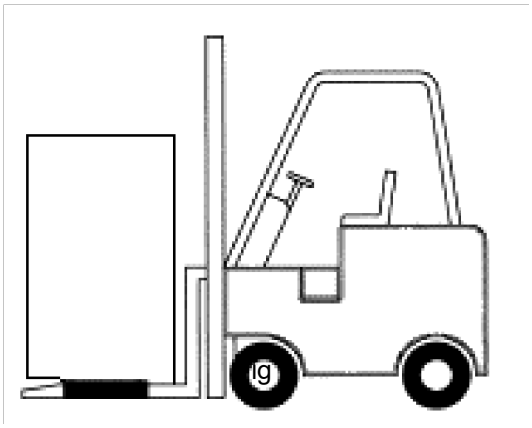


Fig B8

Fig B9 **Shipping Contents** **TRANSPORTATATION & INSTALLATION: .**



Unpacking
Transportation to desired location before unpacking, please use-lifting jack. (Fig. B)
Transportation after unpacking, please use heavy duty fiber belt to lift up the machine.

Contents of the wood pallet

Machine body (FIG 2) x 1
Electrical Control Box x 1
1 meter roller table x1
Leg for roller table X2
Operating Instructions/Parts List x1Chip Tray x 1
Rubber Pad x 4

Fig 2

Assembly

You will assemble the control box , roller Table , chips Tray ,Rubber Pad

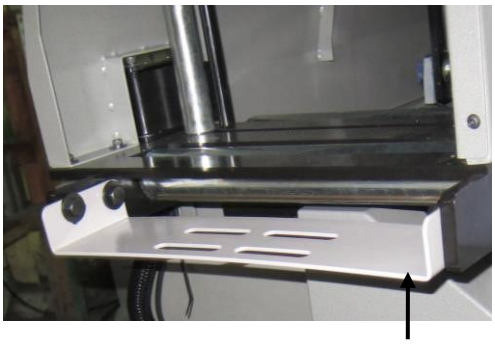


Fig 3

Roller Table :

Assemble the roller table and one leg on the position AF (Fig 3)

Assemble other leg on left side AG (Fig4)

Chip Tray

Assemble the Chip Tray on the Position AH (Fig 5)

Rubber Pad

Assemble the rubber pad on the position AI (Fig 6)

Control Box :

Assemble the control box on the position AJ (Fig 7) by 2 pcs connector plug .

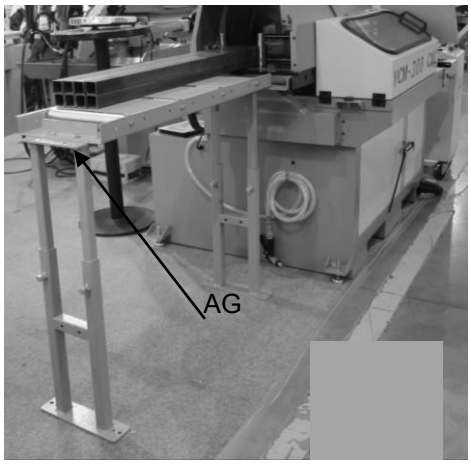


Fig 4

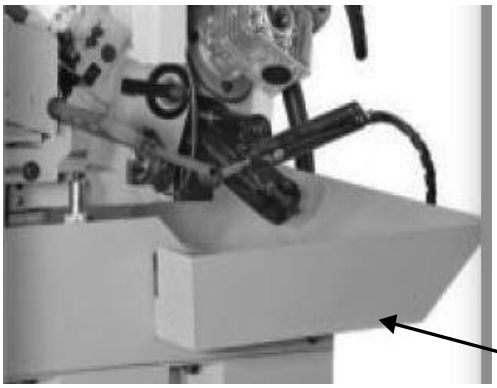


Fig 5

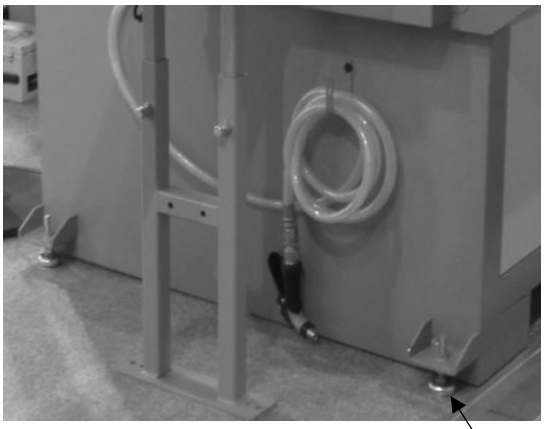


Fig 6

Controls and Indicators

Keep this manual in a good state and available at a close distance from the machine.

Foreword

For the preparation of this manual, we have considered all operations referring to normal use and regular maintenance of the machine. Therefore, for correct and optimal use of the machine, it is necessary to carefully follow the instructions described herein. The use of the machine should be entrusted only to authorized and skilled personnel.

Attention: It is recommended not to carry out any repair or intervention unless not indicated. All operations requiring the disassembly of machine parts should be entrusted to specialized technical personnel.

Warranty

The machine is guaranteed for a period of 12 months starting from the date of the purchase invoice. It consists of a free of charge replacement of all mechanical parts showing material or manufacturing defects.

All electric and electronic components are excluded from this warranty. The warranty does not cover breakages or defects arising out of external factors, maintenance mistakes or other causes, improper use of the machine, use of the machine overloaded, normal wear, assembly mistakes which we may not be held responsible for. Replacements are shipped ex our factory. The machine must be returned on a free port basis, even when covered by the warranty.

Communication

For any written or verbal communication with the Dealer or with the Firm about the machine, it is necessary to supply the following information:

Machine model

Serial number

Voltage and frequency of the machine

Name of the dealer from which the machine was purchased.

Description of the defect found, if any description of the type of operation carried out working hours per day.

Machine identification

The machine model is identified by a plate situated at the front of the base, showing the following data:

Serial number

Year of manufacture

Manufacturer’s name

Use and limitations to use

The machine is for professional use and has been designed and conceived for cutting wooden semi-finished materials and their sub-products and, with suitable adaptations (a suitable blade and a “vise” accessory plastic materials (PVC) or light alloys (aluminum).The protection rating of the electrical installation is IP 54. Only the user may be held responsible for any damage arising out of a different use of the machine other than that indicates.

Attention:

1.The machine cannot be used in explosive environments.

Expected machine life

The expected life of the machine under conditions of normal use and regular maintenance is to be considered of at least 5 years.

Machine disposal

When the machine is no longer operative, it can be disposed of by means of a standard disposal center for industrial wastes, as it is classified as standard solid waste material.

Cutting operation

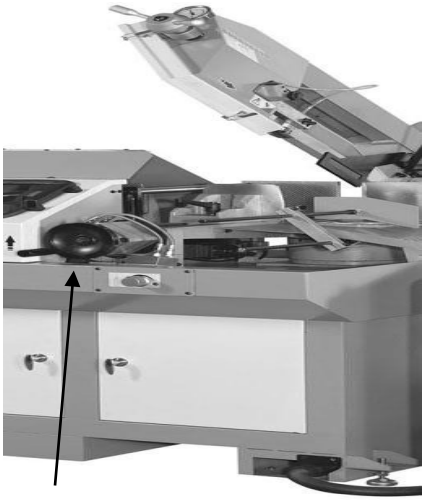


Fig 8

Manual Cutting(Semi-automatic cycle)

1. Turn on the Main Switch Z (Fig A2)

   Then the indicator light W (Fig A2) must be on

2. Start the hydraulic pump**(Fig A2)** by switch Q
3. Selector Manual mold by switch V (Fig A2)
4. Turn up the saw arm by switch Y (Fig A2)
5. Turn clockwise to open the vise AK (Fig A8).
6. Put on the material .
7. Turn anticlockwise to clamp the vise AL
8. Make sure the work piece is actually clamped between the Jaws .


Fig 9

9. Turn clockwise half circle to make about 7 mm space between the back AM jaw and material .
10. Chose the cutting speed by switch

AC (Fig A2),S (Fig A2) Press the cutting switch

11. If the average initial AL (fig 9) probe has touched the work piece surface, the Set lowering the feed regulator.
12. The saw frame always goes in the "Rapid traverse" down until the

    cutting start button**.** AL (Fig 9) triggers
13. Selector the down feed speed by the value set AN (Fig 10)
14. It will tough the switch AM (Fig 9) by end cutting
15. The saw arm will up until the space have 20 mm from saw blade to the material .

Attention : when the machine is not used 20 minutes, turns the Hydraulic automatically

Fig 10

Auto Cutting
(Fully-automatic cycle)

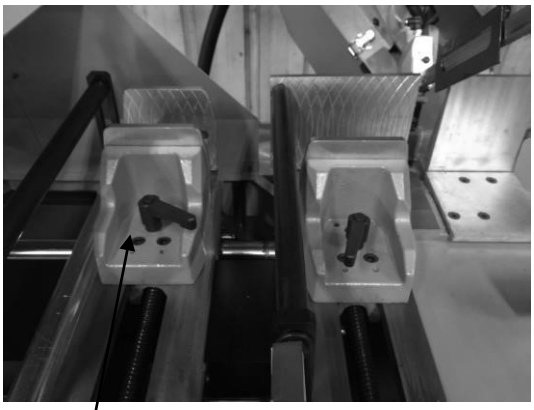


Fig 11

16. Turn on the Main Switch Z (Fig A2)
17. Then the indicator light W (Fig A2) must be on Start the hydraulic pump by switch Q **(Fig A2)**
18. Selector Auto mold by switch V (Fig A2)
19. Start the hydraulic pump by switch Q (Fig A2)
20. Turn up the saw arm by switch Y (Fig A2)
21. Open the cover K (Fig A1) .
22. Turn clockwise to open the feeding vise AP (Fig 11)
23. Turn clockwise to open the cutting vise AK (Fig 8)
24. Put the cutting material form the position AO (Fig A1)

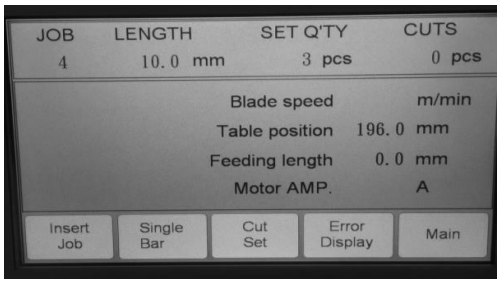


Fig 12

25. Turn anticlockwise to clamp the vise
26. Make sure the work piece is actually clamped between the Jaws .
27. Turn clockwise half circle to make about 7 mm space between the back jaw and material.

Close the cover K (Fig A1)

Set Up The Cutting Program

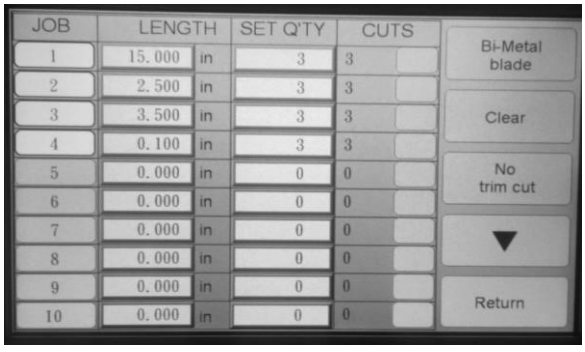


Fig 13

29. Tough the " Cut Set " on the control panel (Fig 12)
30. This machine allow to set up 20 stations for cutting program .
31. set up the length , Q'ty when the JOB in green color (Fig 13)
32. Chose the Job that you want to operate. then the job became yellow

33. Selector the saw blade
34. Selector the material in single bar or bunch .
35. Tough the " Main " back to main page
36. Close hydric feed vise by turn on the switch T (Fig A2)
37. Close hydric cutting vise by turn on the switch U (Fig A2)
38. Chose the cutting speed by switch AC (Fig A2)
39. Press the Start switch S (Fig A2)
40. The machine will follow the program that you have set up and chose
41. This machine have show the information with Blade Speed , "Feeding table position , Feeding length, Motor AMP on the panel
42. Selector the down feed speed by the value set AN (Fig 10)
43. It will tough the switch AM (Fig 9) by end cutting
44. The saw arm will up until the space have 20 mm from saw blade to the material when the program finished .

Attention : when the machine is not used 20 minutes, turns the Hydraulic automatically

Insert Job

45. This program into the job that you are machine could insert one doing (Fig 12)

Error Display

46. When the machine shown some error , please tough the Error Display to check the mistake . (Fig 12)

Trim Cut

47. When we set up at " NO " trim cut means that will calculate the first cut into the program . (Fig 12)

Feeding Vise

48. The feeding vise of the machine could move left and right . Press the switch R (Fig A2). The short press for slow moving . Faster moving by press more than 2 seconds . AP (fig 11)

49. The vise also provide a system that could move forwarder and back (fig 26) .It will help against to the bend material

50.

51. The machine service with two upper roller AQ (Fig 14) , you need to move it up & down to reach the cutting material when you want to cut the " bunch " mold .

52. It need to take out the roller when you want cut at capacity more than 100 mm . Loosen the two screw AR

(Fig14) for take out the upper roller

Vertical Roller

53. This machine service 2 vertical roller on the side of material entrance .

54. Loosen the screw on the down side of roller .

55. Move the Right side roller close to the cutting material

56. But the right side roller always stay in same place

Cooling and clean system

57. Turn the switch X (Fig A2) to "auto" mold , the cooling liquid will come out when cutting function is working .

58. Turn the switch X (Fig A2) to  mold , The cooling will come out form the spray gun AS (Fig 16) for clean the machine

Material Fence

59. Move the system forwarder and back to make the material follow the

Upper Roller System

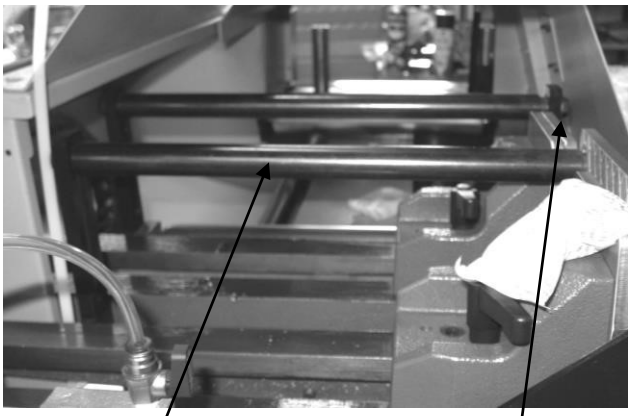


Fig 14

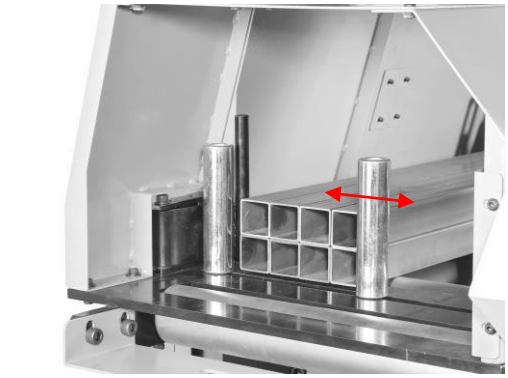


Fig 15

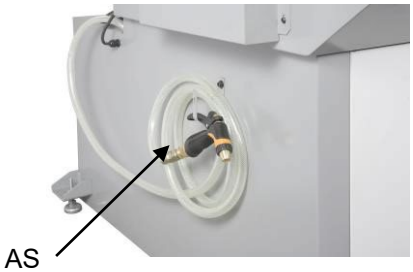


Fig 16

rail .The fence need full back and down when cut at 45 degree .

Left/right limit for feeding vise

60. The feeding vise with two limit switch ?? (Fig ?) will tough the points to give final position for left & right

Angle Cutting

Cutting 0 to 60 degree

61. The machine service at Fully – Automatic Function from 0 degree to 45 degree.
62. The machine service at semi – Automatic Function from 45 degree to 60 degree
63. Pull the handle AU (Fig 18) to release the saw arm , and turn the saw arm to 45 degree by tough the point AV (Fig 19) for fast angel stop .
64. Take out the protect steel cover AW (Fig 20) , turn the saw arm to 60 degree by tough the point ?? (Fig ?) for fast angel stop .
65. Push the handle AU (Fig 18) to luck the saw arm .

.

Fig 17

Fig 18

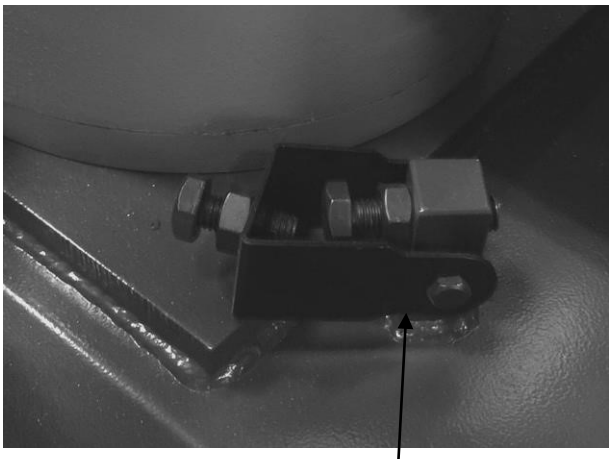


Fig 19

Blade Change

66. Turn the power off by turn the switch Z (Fig A2)
67. Open the blade cover AX (Fig 21)
68. Luck the cover at up position by luck Ouch AY (Fig 22-1)
69. Release the handle G (Fig A1) to release the pressure of the saw

70. Take out the saw blade ,
71. Put a new saw blade by lock into the blade guide AZ (Fig 21) first
72. Press the saw blade into the drive wheel BA (Fig 21)
73. Press the saw blade into the fly wheel BB (Fig 21)
74. Turn the handle G (Fig A1) clockwise to lock the saw blade until the tension gauge to reach in the middle of green color .
75. Put the saw blade cove back , make sure the switch BC (Fig21) have been lock in.

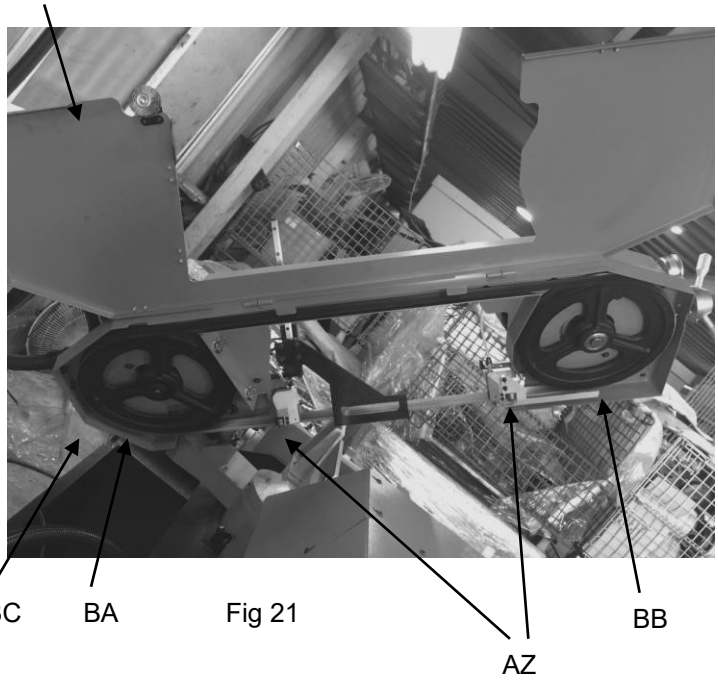


Fig 21

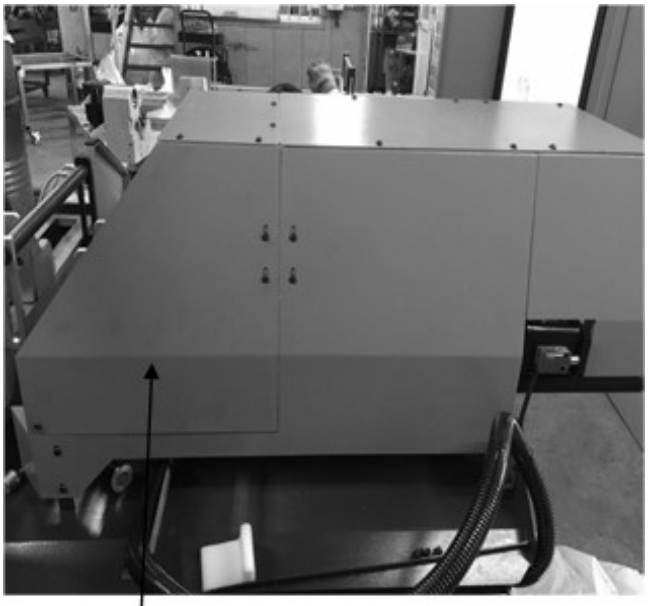


Fig 20

Fig 22-1

Blade guide sliding

76. Release the sliding bar by loosen the plastic screw BD (Fig 23)
77. To move the bar BE (Fig 24) close to the cutting material as possible . 78. Lock the screw BD (Fig 23)

Fig 22

Vise thread screw lock

79. When the vise reach the 7 mm to the cutting material , lock the screw thread by the handle BF (Fig 23)

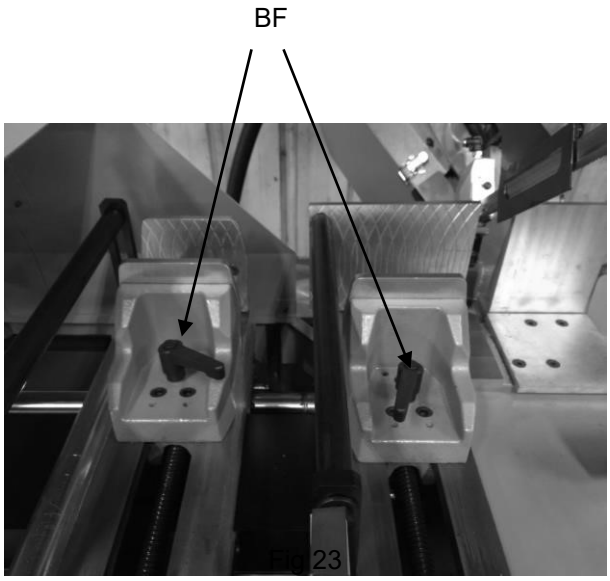


Fig 23

Oddments Material

80. The machine provide a sensor BG (Fig 24) to check the Oddments. material. The sensor will give the information for 520 mm of rest material to the control. It will help to keep material Always on the feeding vise

Fig 24

Without material

The feeding vise BI (fig 25) provide a sensor to check The material .The sensor will give the information to control system ,if without material.

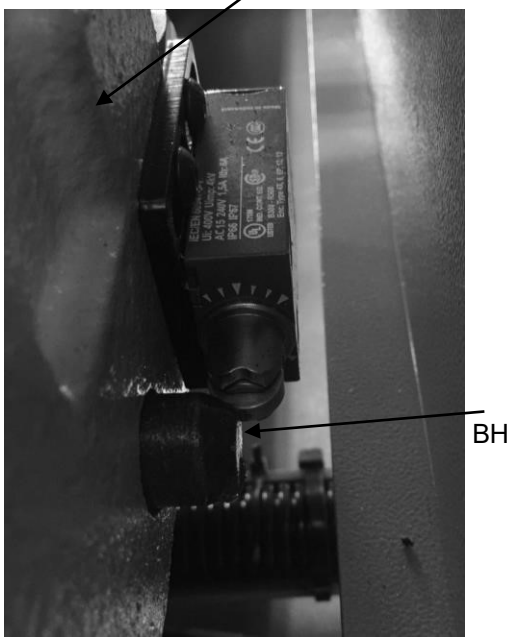


Fig 25

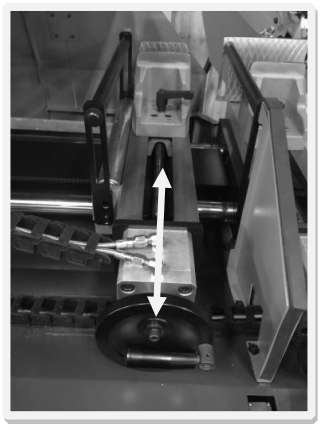


Fig 26

Cutting Capacity Limit

When you want to the capacity more than 200 mm square material , need to pull up the cutting sensor BK (Fig 27) by hand for the first cut .

BK Fig 27

Maintenance

Maintenance must be carried out by qualified staff. The various operations for the ordinary and extra ordinary maintenance are indicated in the last pages of this manual.

It is compulsory to switch off the general electrical equipment, when it is necessary to adjust the machine or to disassemble any protection, by pointing out such operation through a clearly visible placard.

An important security factor is the cleaning of the machine, of the working tables, of the floor and the surrounding places.

It is very useful to read carefully through this manual before starting the machine:

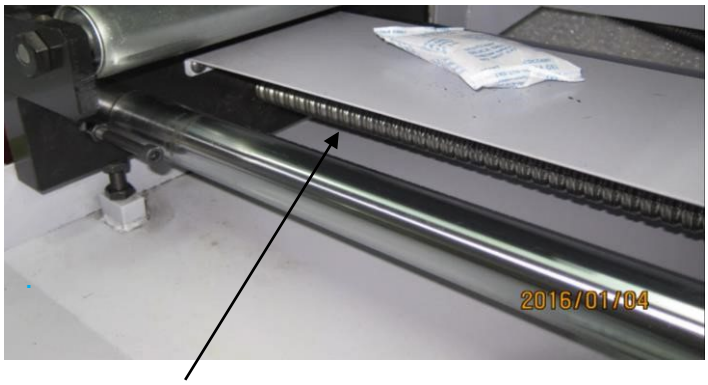
In this way you will realize that the machine has been concerned to offer the best performances together with the highest security.

Encumbering and mobile objects, which could come into contact with the moving organs, are very dangerous.

A certain risk factor, which is eliminable with a good technique and with a constant attention by your side, exists in every work.

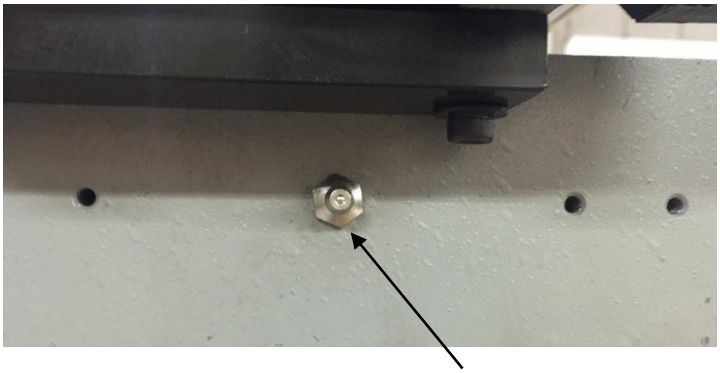
Before starting the machine, make sure that there are no other people carrying at maintenance operations.
For the Ball screw BI (Fig 28) , put the grease on it for every 200 hours operation .

For the feeding vise support BJ (Fig 29), inject the oil for every 200 hours operation .



BI

Fig 28



BJ

Fig29

Other risks

In spite of the adopted security directions, some other risks could remain.

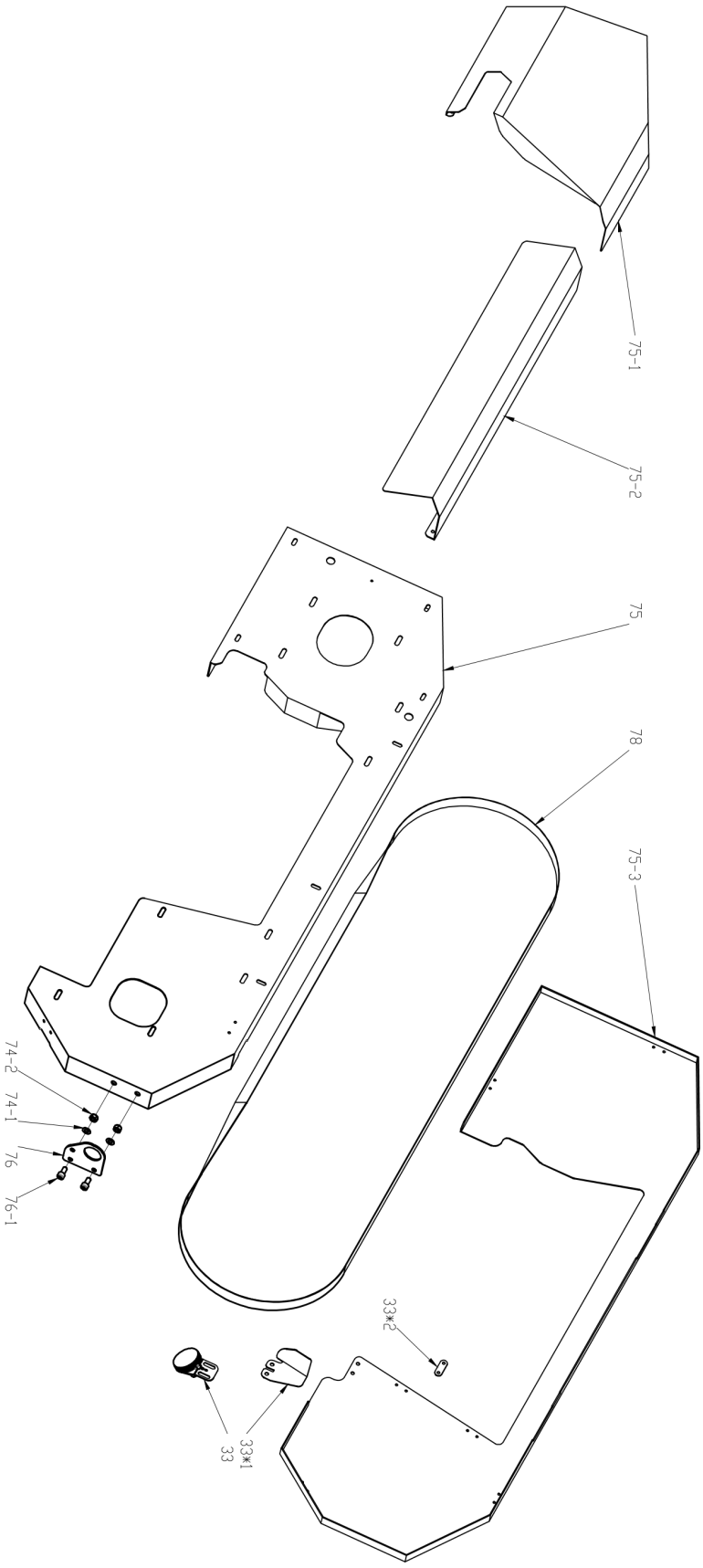
A protracted sonorous exposition could provoke health troubles

Troubleshooting

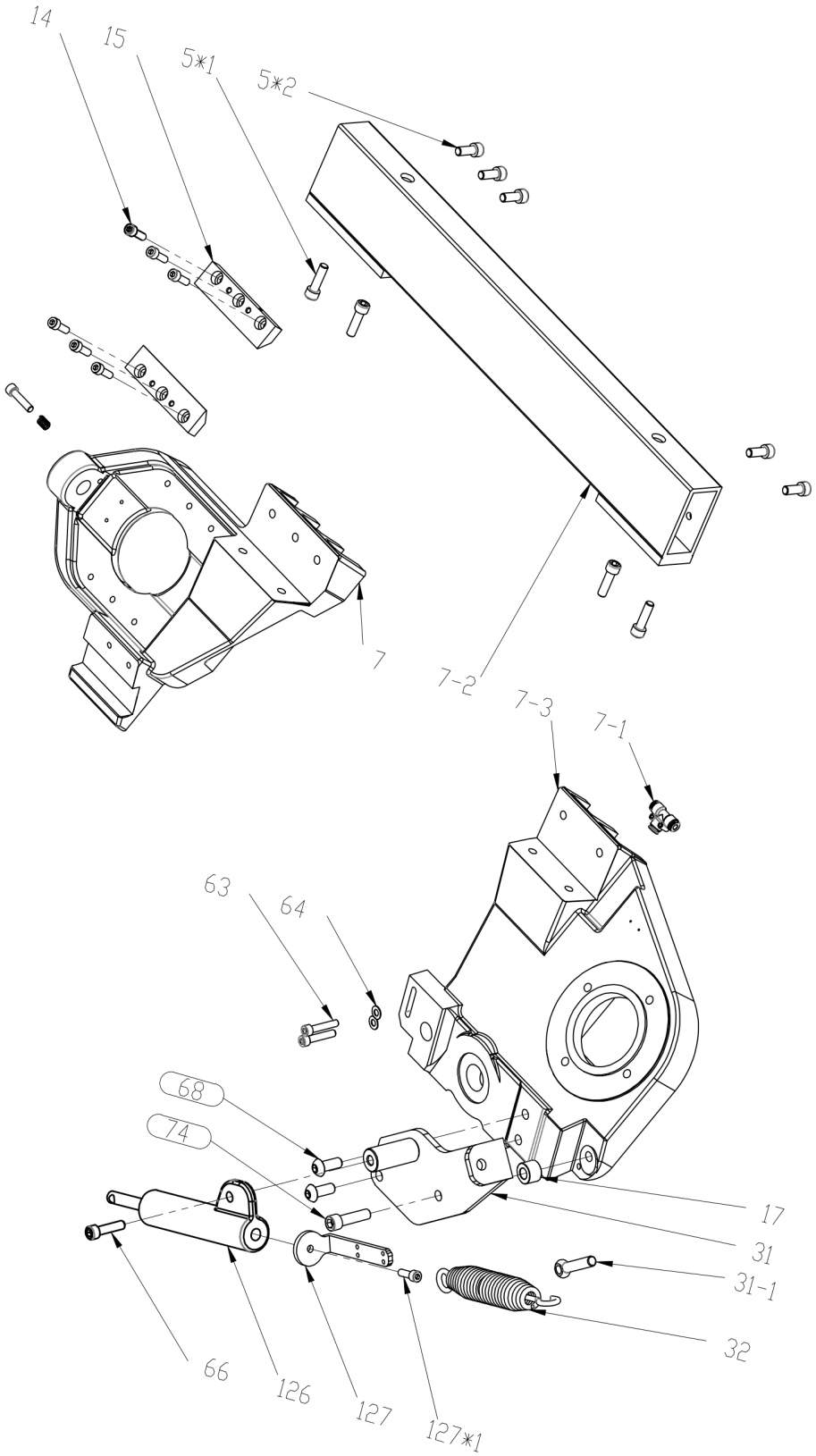
Problem	Probable Cause	Solution
Teeth breaking	Incorrect lubricant/coolant fluid	Ensure proper coolant flow.
	Material too hard	Check the cutting speed, feed speed and air pressure parameters and the type of blade you are using.
	Disc not worn--in correctly	With a new blade it is necessary to start cutting at half feeding speed. After the wearing--in 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
	Disc with excessively fine tooth pitch	The dwarf 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.
Rapid tooth wear	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.
	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.
Broken blade	Feed speed too high	Reduce blade speed.
	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.

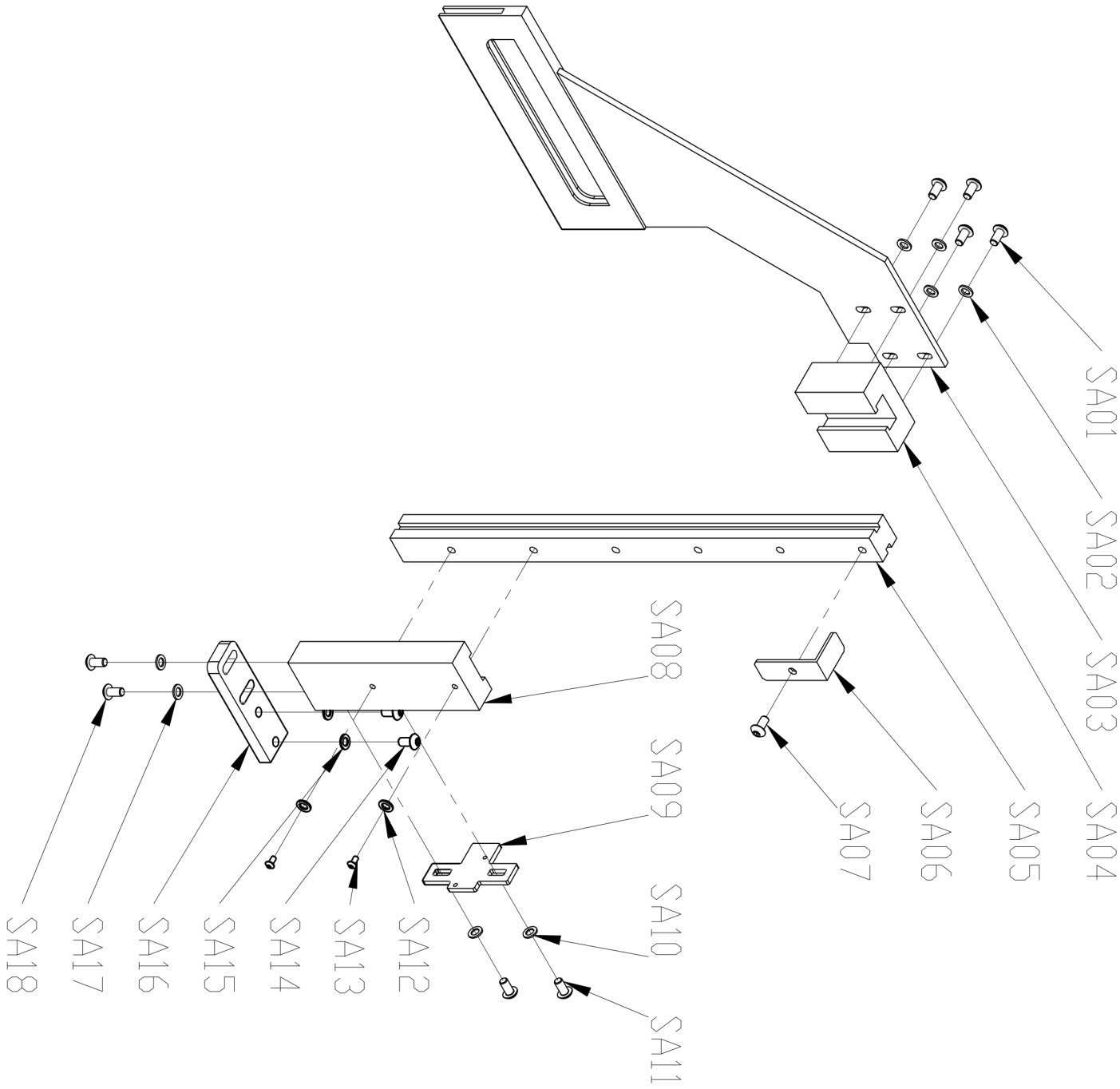
Troubleshooting

Spindle motor will not turn	Electrical power supply	Check: the cables, plug and 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.
	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 burnt out, that it turns freely and that there is no moisture in the connection terminal board box. The winding can be rewound or replaced.


75-1
75-2
75
78
75-3
74-2
74-1
76
76-1
33*2
33
33*1

Saw Bow Assembly Drawing -2

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SA02
SA03
SA04
SA05
SA06
SA07
SA08
SA09
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SA11
SA12
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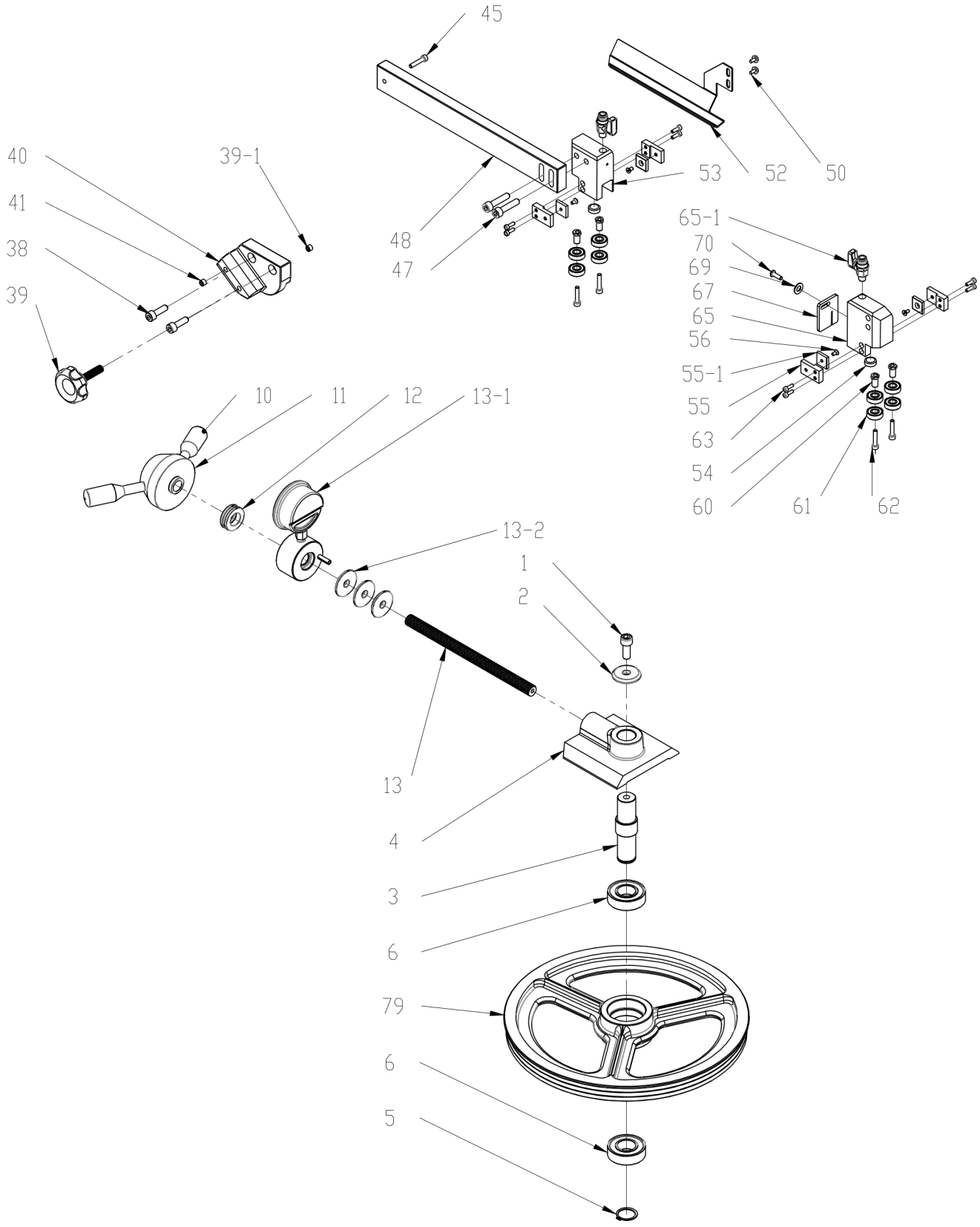
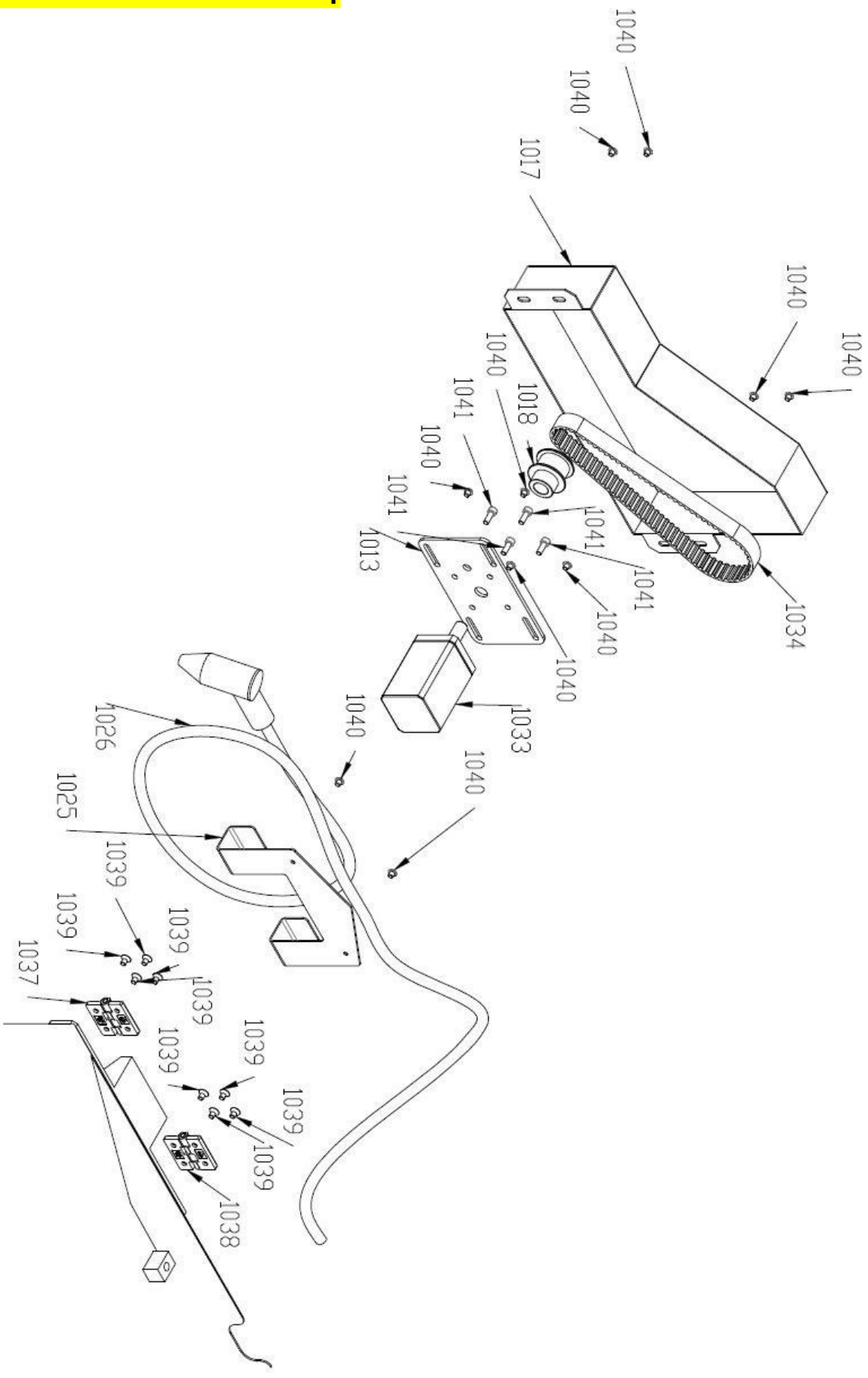
SA15
SA16
SA17
SA18

Saw Bow Assembly Drawing 4

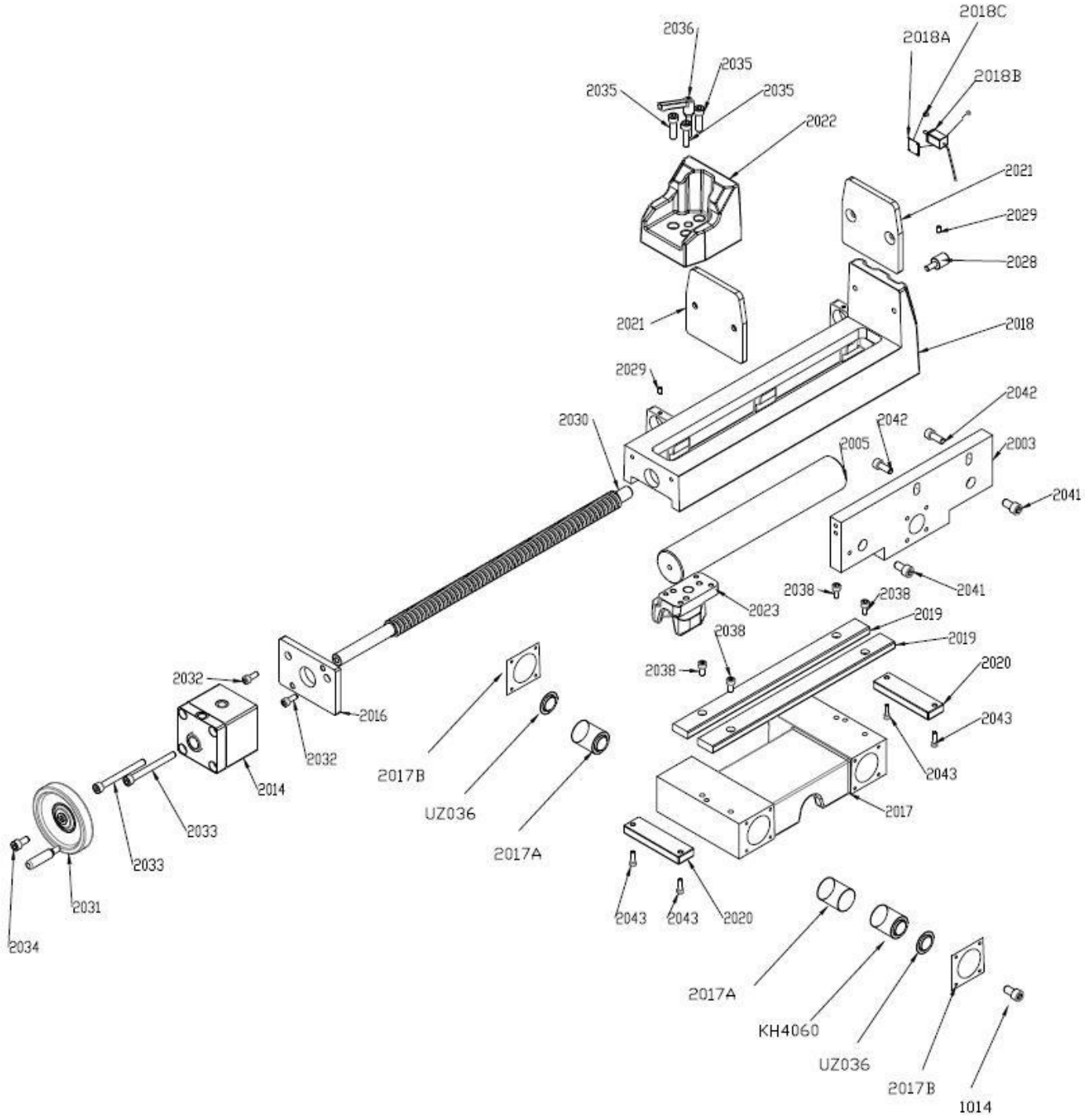


Base Assembly Drawing

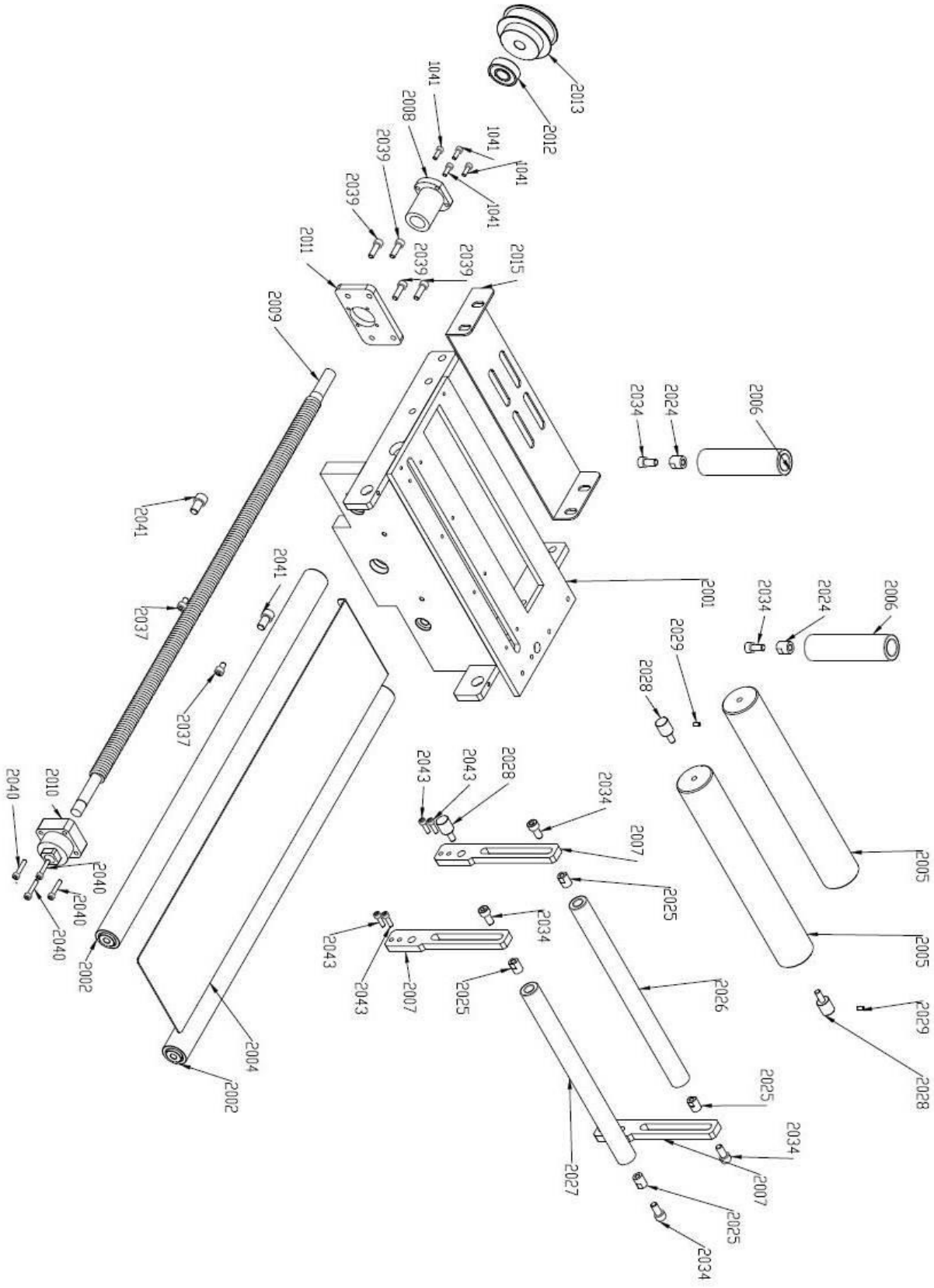
-1



Base Assembly Drawing

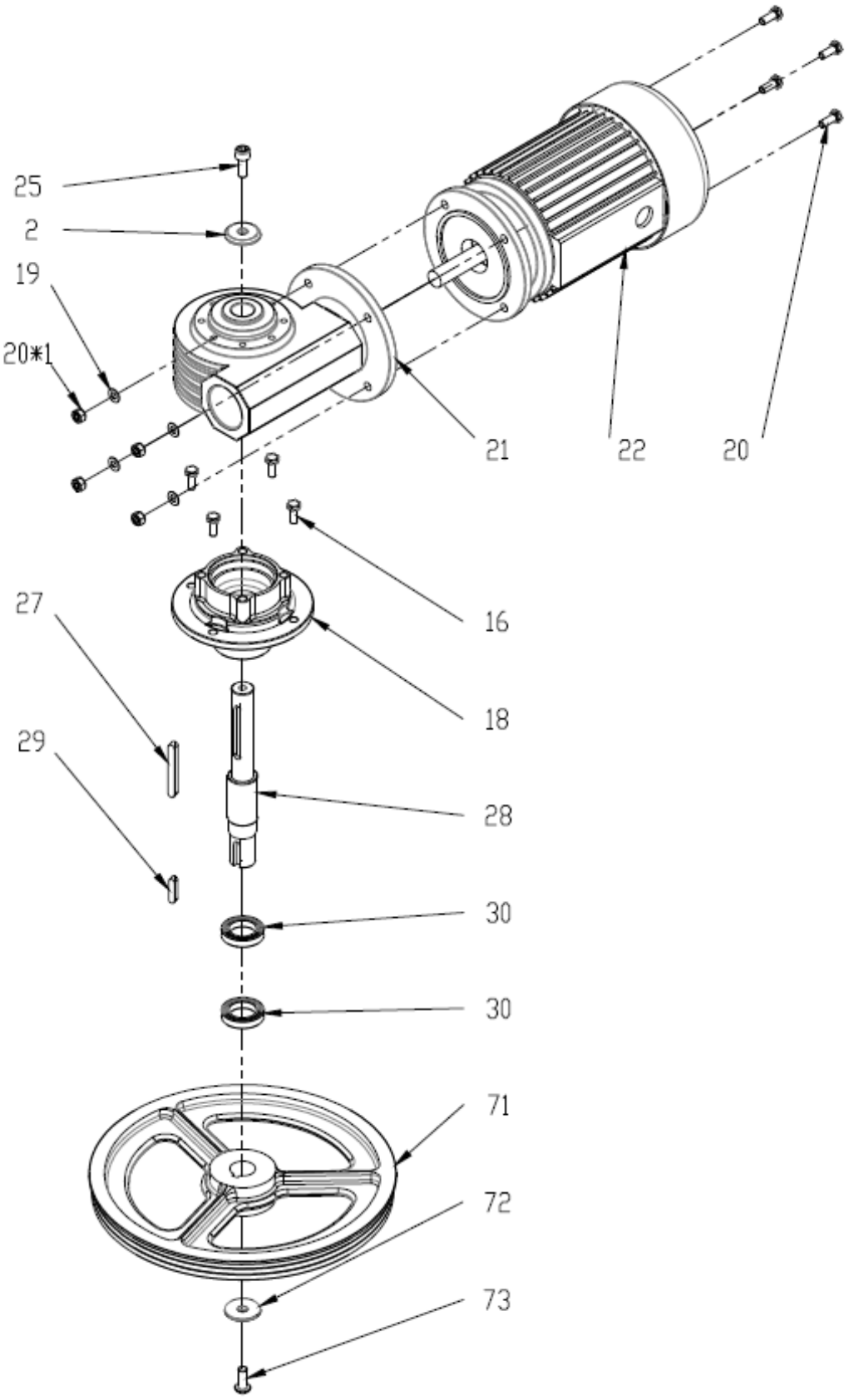


Base Assembly Drawing



Base Assembly Drawing

Base Assembly Drawing



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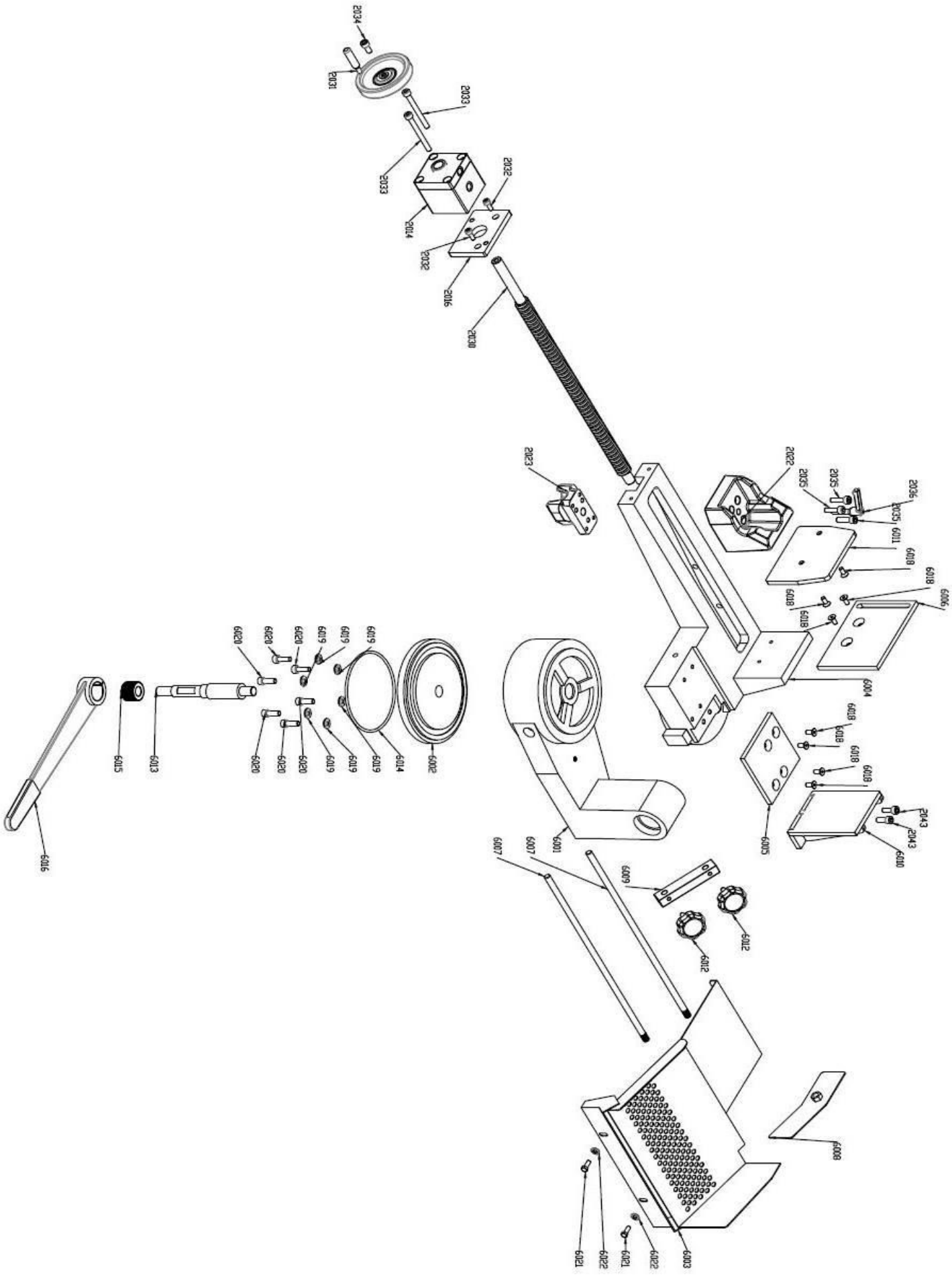

Base Assembl

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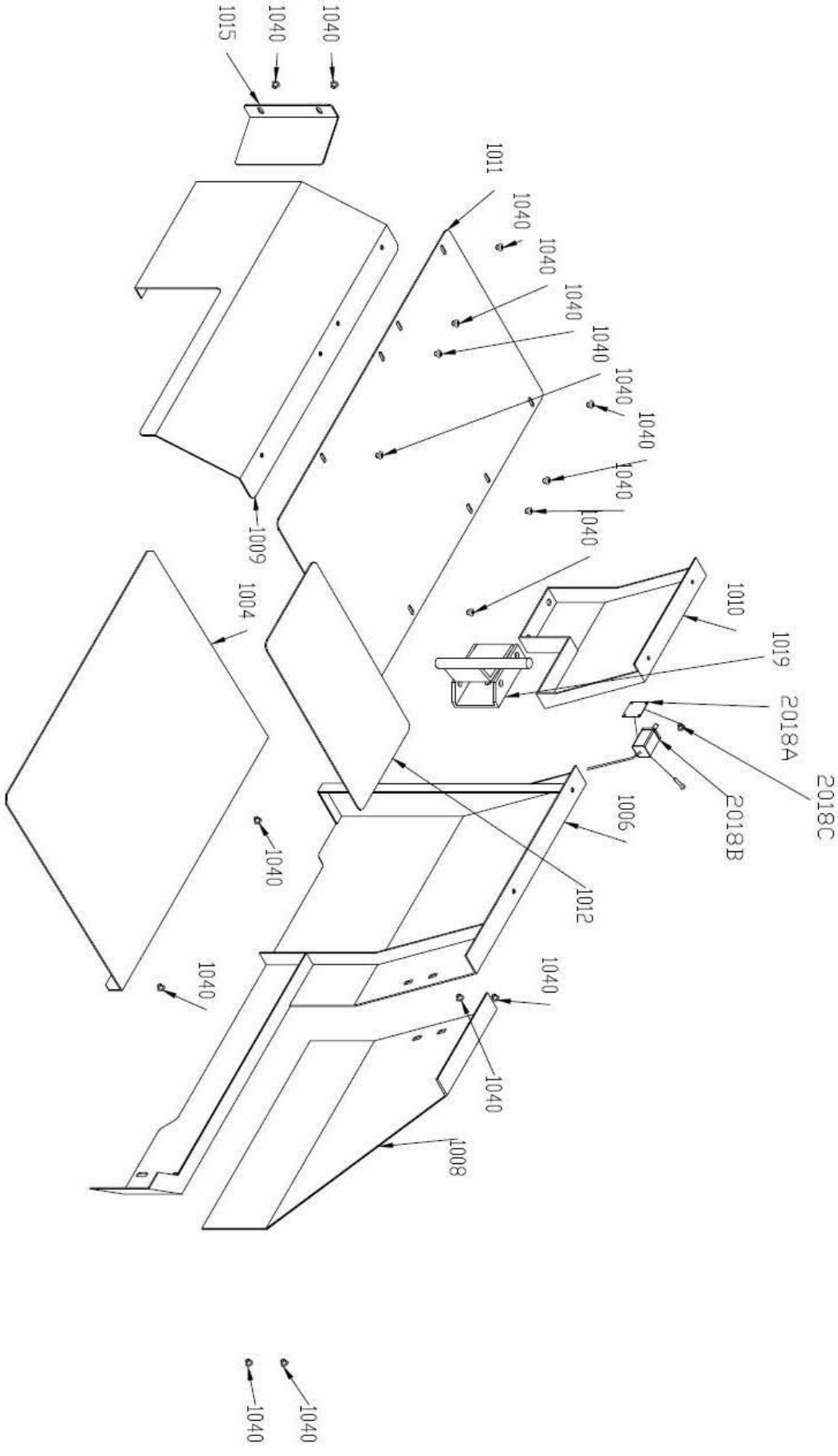

Base Assembl
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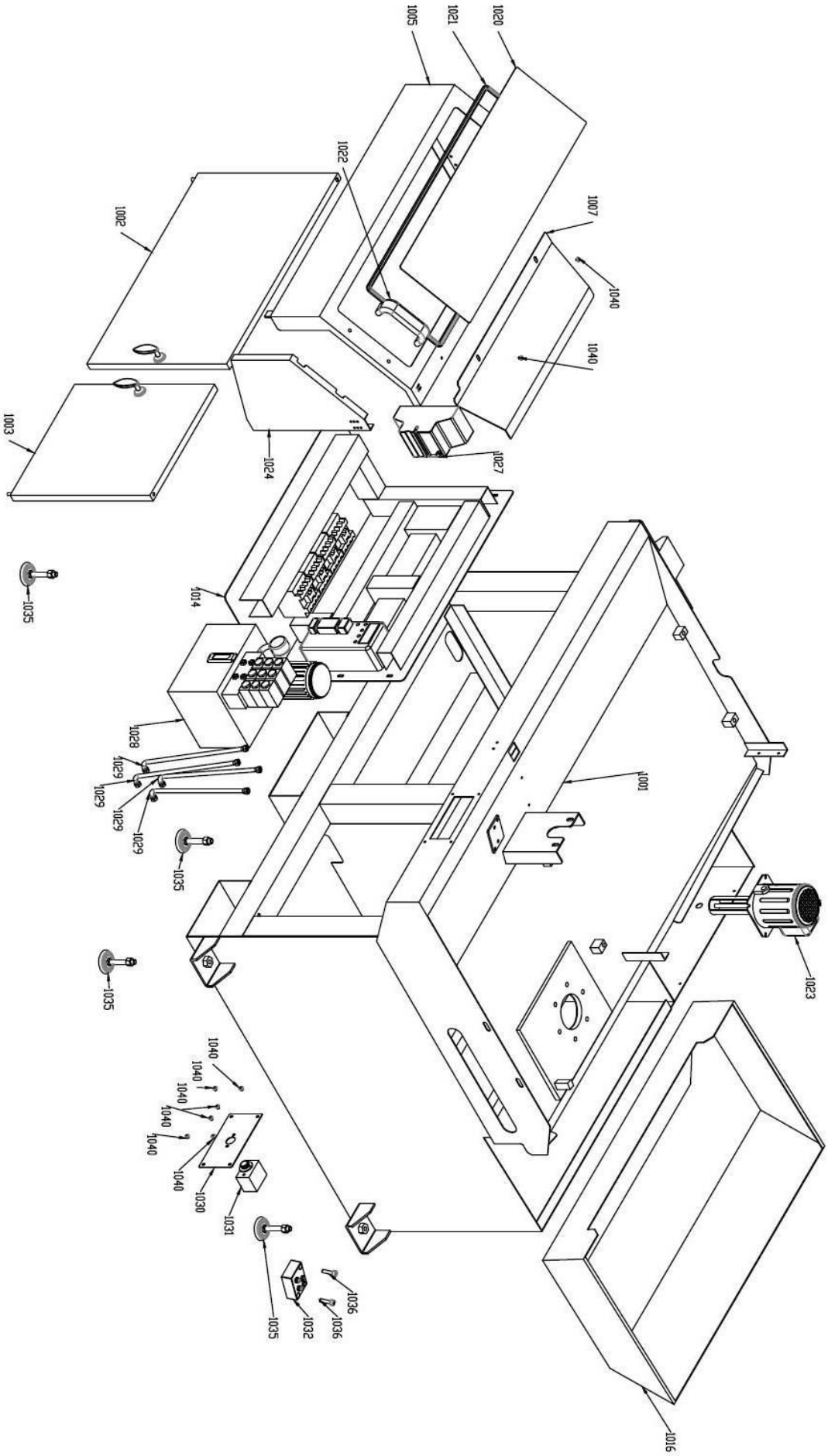

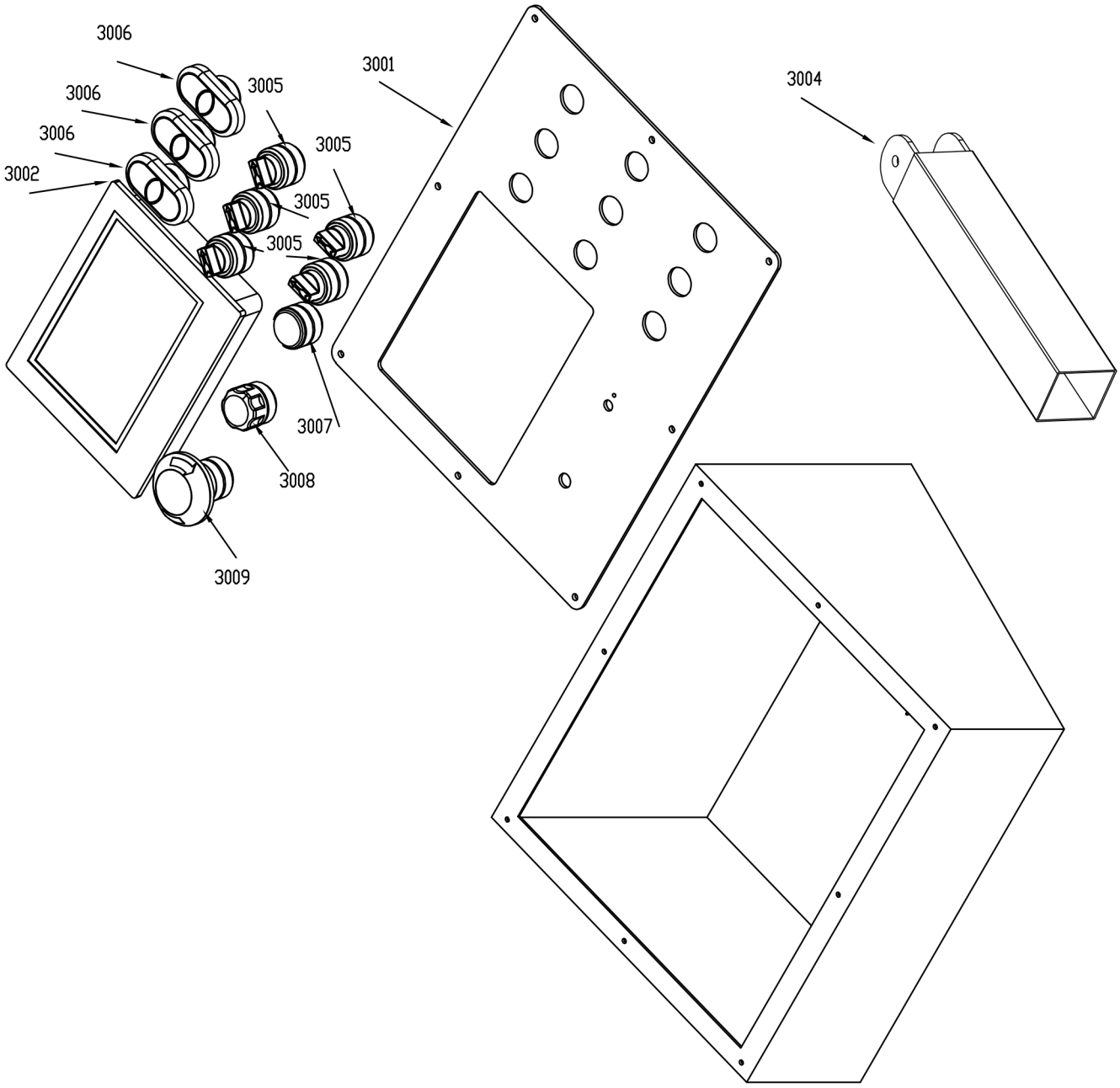
3006
3006
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3002
3005
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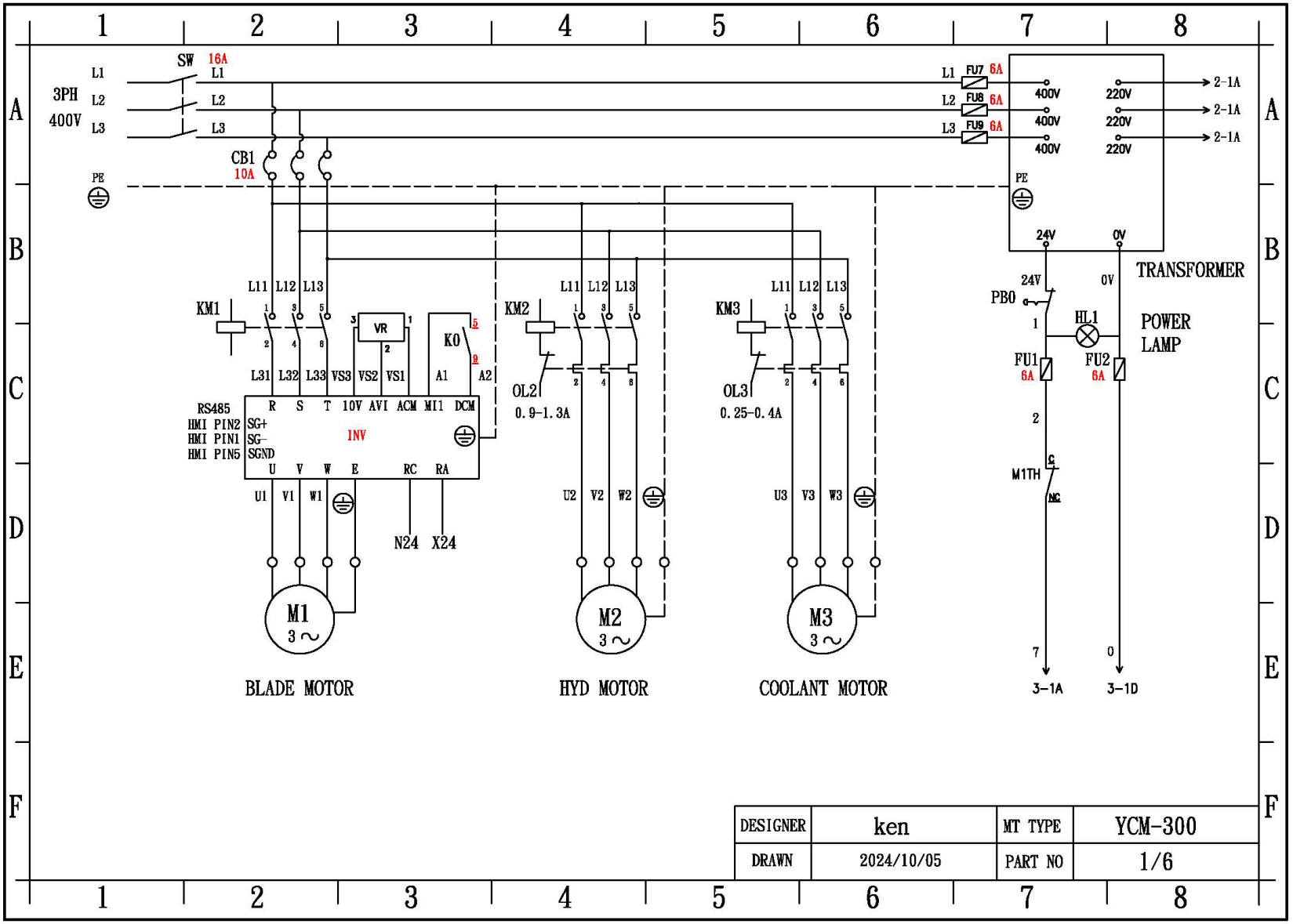
3005
3007
3008
3009
3001
3004

Wiring Diagram and Parts

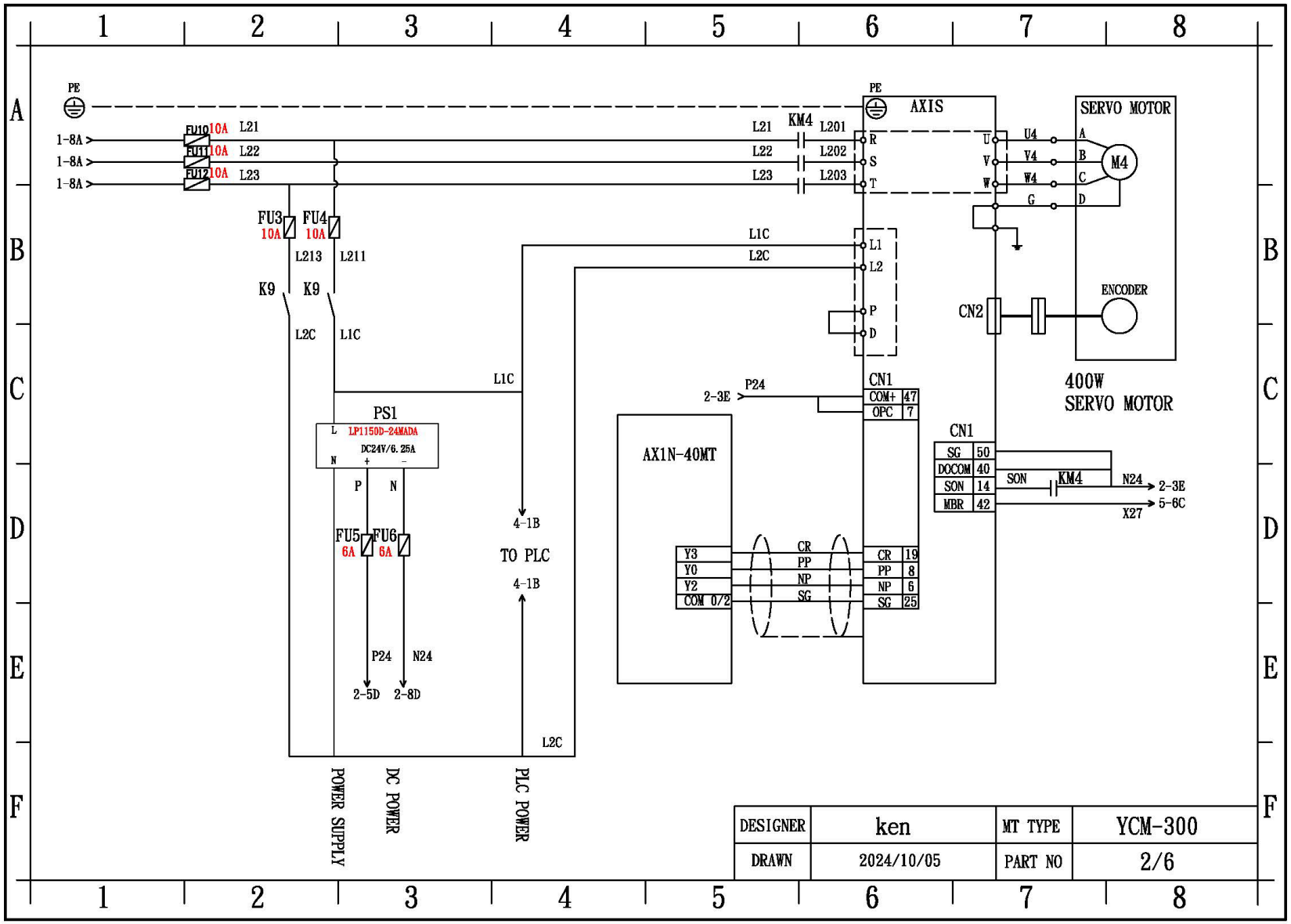
Reference	MODEL NO	DESCRIPTION
KM1	TECO CU-11-AC24V	ith-25A U690V 400V5.5KW CE Electromagnetic contactors
KM2	TECO CU-11-AC24V	ith-25A U690V 400V5.5KW CE Electromagnetic contactors
OL2	TECO RHU-10K 1.3A	SETTING RANGE1.3A CE Overload electric post
KM3	TECO CU-11-AC24V	ith-25A U690V 400V5.5KW CE Electromagnetic contactors
OL3	TECO RHU-10K 0.4A	SETTING RANGE 0.4A CE Overload electric post
KM4	TECO CU-11-AC24V	ith-25A U690V 400V5.5KW CE Electromagnetic contactors
K9	MY2NJ-08A	50/60Hz 5A240VAC 30VDC CE Relays
K0	MY4NJ-14A	50/60Hz 5A240VAC 30VDC CE Relays
SVO	Shihlin SDE-040A2	AC230V3PH 50/60Hz 1.9A CE Servo drives
M4	Shihlin SME-L04030SCB	AC230V3PH 50/60Hz CE Servo motor
INV	DELTD VFD4A2MS43ANSAA	3PH 380-480V 50/60Hz4.2A CE Inverter
PS1	REIGNPOWER LP1150D-24MADA	100/240VAC 3.0AMAX 50/60Hz CE Power supply
TRANSFORMER	LCE BSK-010 2.1KVA	400V/230V 5A /24V 4A CE transformer
LS1	Micro Switch Zippy	20.5A 125/250 V Microswitches
LS2	C.T CT-CLS-101	10(4) A125V-6(2)A250V IP64 CE Limit switches
LS3	LIMIT SWITCH XCMD2502L3	UI(V)AC400 In(A)6 IP66 CE Limit switches
LS4	LIMIT SWITCH XCMD2502L3	UI(V)AC400 In(A)6 IP66 CE Limit switches
LS5	LIMIT SWITCH XCMD2502L3	UI(V)AC400 In(A)6 IP66 CE Limit switches
LS6	OMRON D2VW-5LIB-1M	5A 125 250V AC CE Microswitches
PB1	MOUJE M22DP-SF11E30GR	10A 300VAC 1A 250VDC CE Two-position switch (ON)
PB5	MOUJE M22DP-SF11E30GR	10A 300VAC 1A 250VDC CE Two-position switch(OFF)

Reference	MODEL NO	DESCRIPTION
HL2	MOUJE M22DP-SF11E30GR	12-30V 5-14mA 50-60Hz CE Two-position switch (white light)
PB2	MOUJE M22DP-SF11E30GR	10A 300VAC 1A 250VDC CE Two-position switch (ON)
PB6	MOUJE M22DP-SF11E30GR	10A 300VAC 1A 250VDC CE Two-position switch (OFF)
HL3	MOUJE M22DP-SF11E30GR	12-30V 5-14mA 50-60Hz CE Two-position switch (white light)
PBO	AB-800FPMT44+ALP+X01	AC-15 DC-13 A600 CE Emergency stop switch
PB3	MOUJE M22DP-SF11EWB	10A 300VAC 1A 250VDC CE Two-position switch (move front)
PB4	MOUJE M22DP-SF11EWB	10A 300VAC 1A 250VDC CE Two-position switch (move back)
HL4	MOUJE M22DP-SF11EWB	12-30V 5-14mA 50-60Hz CE Two-position switch (white light)
CS2A	AB-800FPSB32+ALP+X012	AC-15 DC-13 A 600 CE Three-stage toggle return switch (left)
CS2B	AB-800FPSB32+ALP+X012	AC-15 DC-13 A600 CE Three-stage toggle return switch (right)
CS3	AB-800FPSM22+ALP+X01	AC-15 DC-13 A600 CE Two-stage toggle switch
CS4	AB-800FPSM22+ALP+X01	AC-15 DC-13 A600 CE Two-stage toggle switch
CS5	AB-800FPSM22+ALP+X01	AC-15 DC-13 A600 CE Two-stage toggle switch
CS1A	AB-800FPSM32+ALP+X012	AC-15 DC-13 A600 CE Three-stage toggle return switch (left)
CS1B	AB-800FPSM32+ALP+X012	AC-15 DC-13 A600 CE Three-stage toggle return switch (right)
LS7	KEDU QKS8	AC-15 8-14A 250V-400V CE Safety Switch
LS9	KEDU QKS8	AC-15 8-14A 250V-400V CE Safety Switch
LS8	LIMIT SWITCH XCMD2502L3	UI(V)AC400 In(A)6 IP66 CE Limit switches
SV1	SB256	24V AC 22VA Class H CE Magnetic valve
SV2/SV3	pu yuan	DFB-02-3C4-DC24-35C CE Magnetic valve
SV4	pu yuan	DFB-02-2B3-DC24-35C CE Magnetic valve
Reference	MODEL NO	DESCRIPTION

SV5	pu yuan	DFB-02-2B3-DC24-35C CE Magnetic valve
M2	pu yuan	M1/2H4-500-1A-SP-400V 50Hz CE HYD pump
HLO	KEYON KE-220DS	Power light
CB1	Shihlin Electric BHA 33 C10	Ui(V)AC690 In(A)10 Loop protection switch
SW	KEMA KEUR A105/6(1615)	16A 600V AC 3PH CE Power switch
PLC	Shihlin AX3GA-40MT	AC85-264V 50/60Hz 32WMAX CE PLC
HMI	EV-MT8072iP	350mA 24VDC CE Human machine interface
K1	PLC08 G2R-1-E24VDC	16A AC250V/DC30V 50/60Hz Relays
K2	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K3	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K4	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K5	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K6	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K7	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays
K8	PLC08 G2R-1-E 24VDC	16A AC250V/DC30V 50/60Hz Relays



DESIGNER	ken	MT TYPE	YCM-300
DRAWN	2024/10/05	PART NO	1/6


PE
1-8A
FU10 10A L21
FU11 10A L22
FU12 10A L23
FU3 10A
FU4 10A
L213
L211
K9
K9
L2C
L1C
PS1
L LP150D-24MADA
DC24V/6.25A
N +
P N
FU5 6A
FU6 6A
P24
N24
2-5D
2-8D
L1C
4-1B
TO PLC
4-1B
L2C
POWER SUPPLY
DC POWER
PLC POWER
L21
L22
L23
KM4
L201
L202
L203
PE
AXIS
R
S
T
U
V
W
L1C
L2C
L1
L2
P
D
U4
V4
W4
G
A
B
C
D
M4
SERVO MOTOR
ENCODER
CN2
400W
SERVO MOTOR
P24
2-3E
CN1
COM+ 47
OPC 7
AX1N-40MT
Y3
Y0
Y2
COM 0/2
CR
PP
NP
SG
CR 19
PP 8
NP 6
SG 25
CN1
SG 50
DOCOM 40
SON 14
MBR 42
SON
KM4
N24
2-3E
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X27
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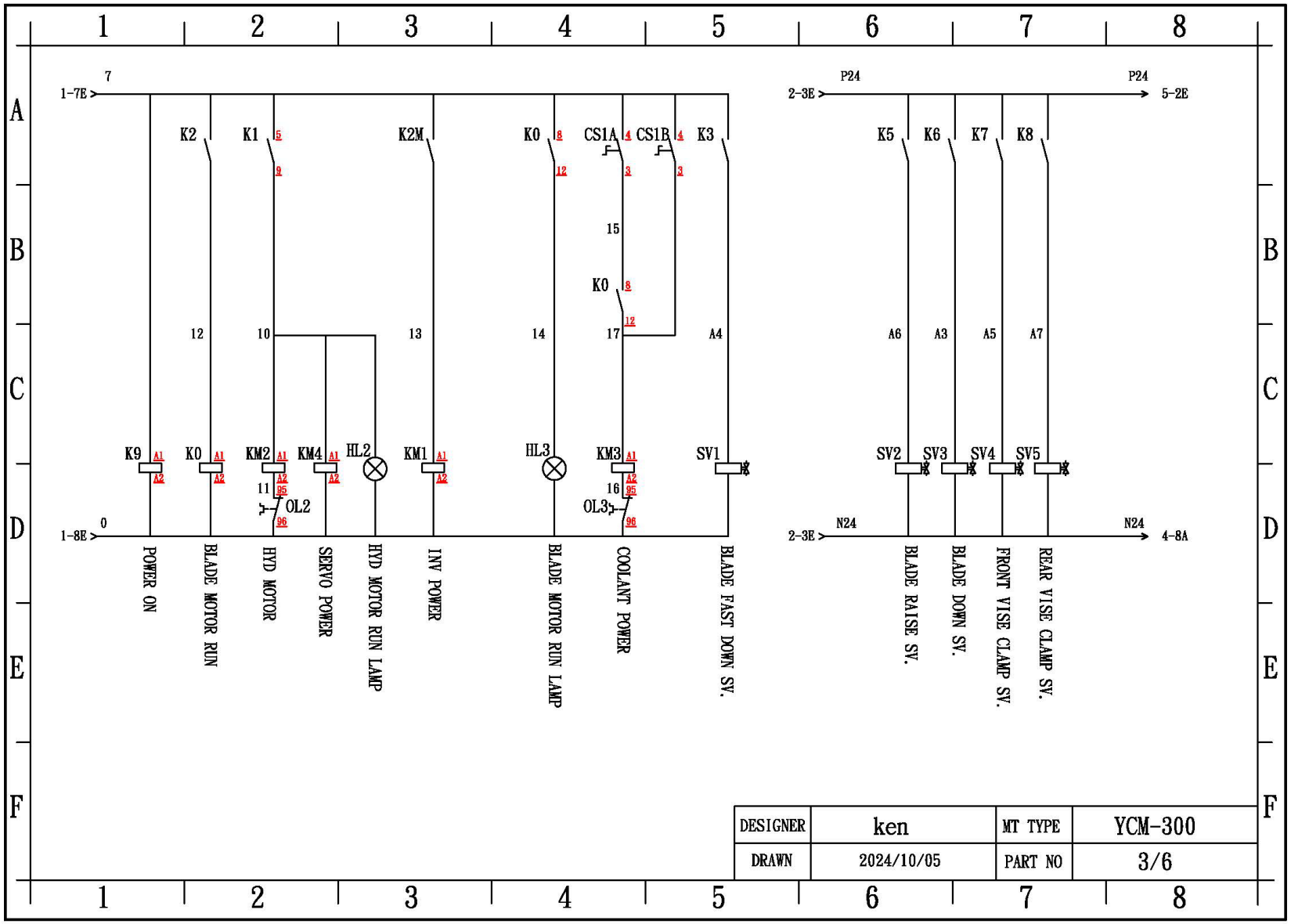
MT TYPE YCM-300
DRAWN 2024/10/05
PART NO 2/6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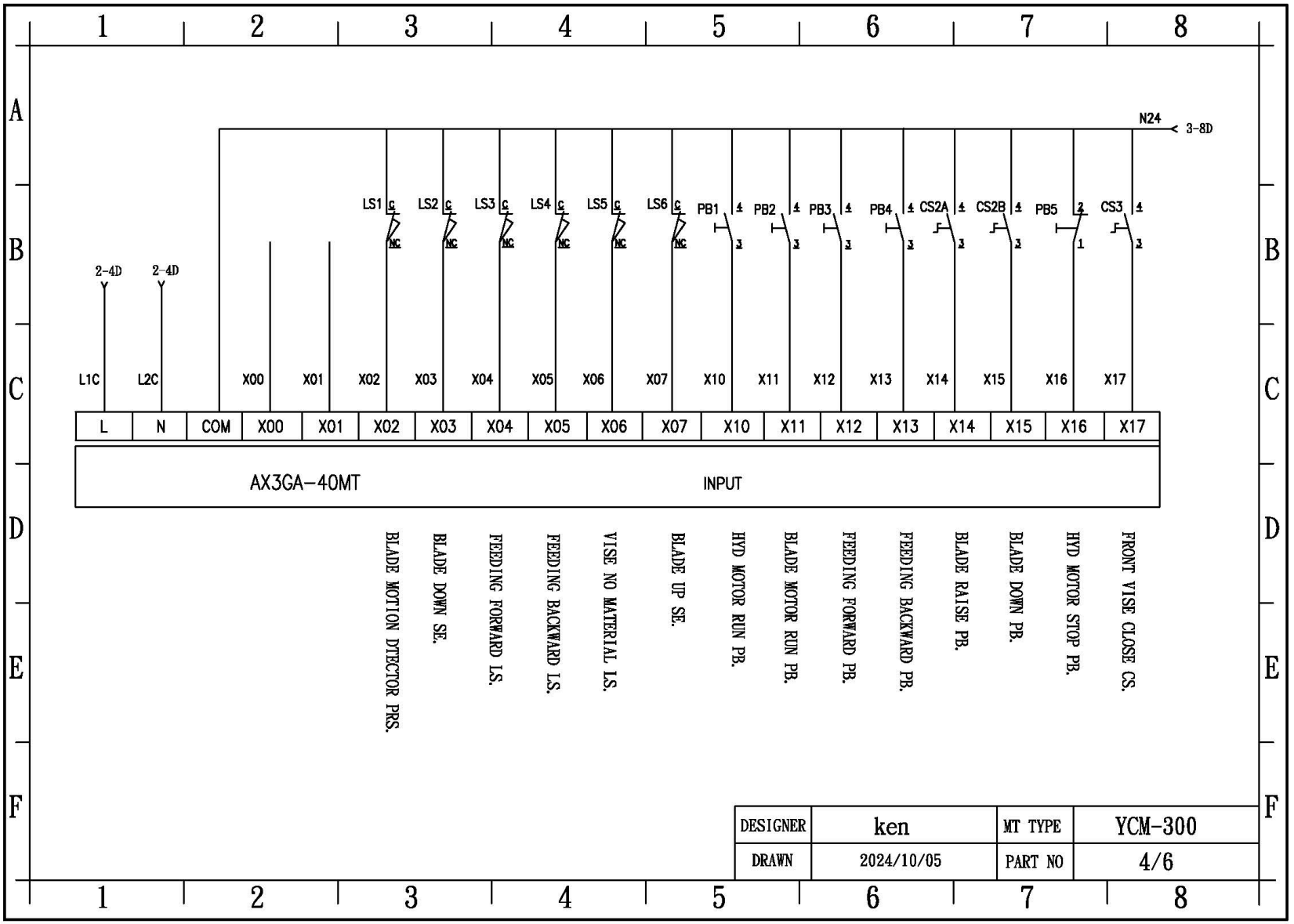
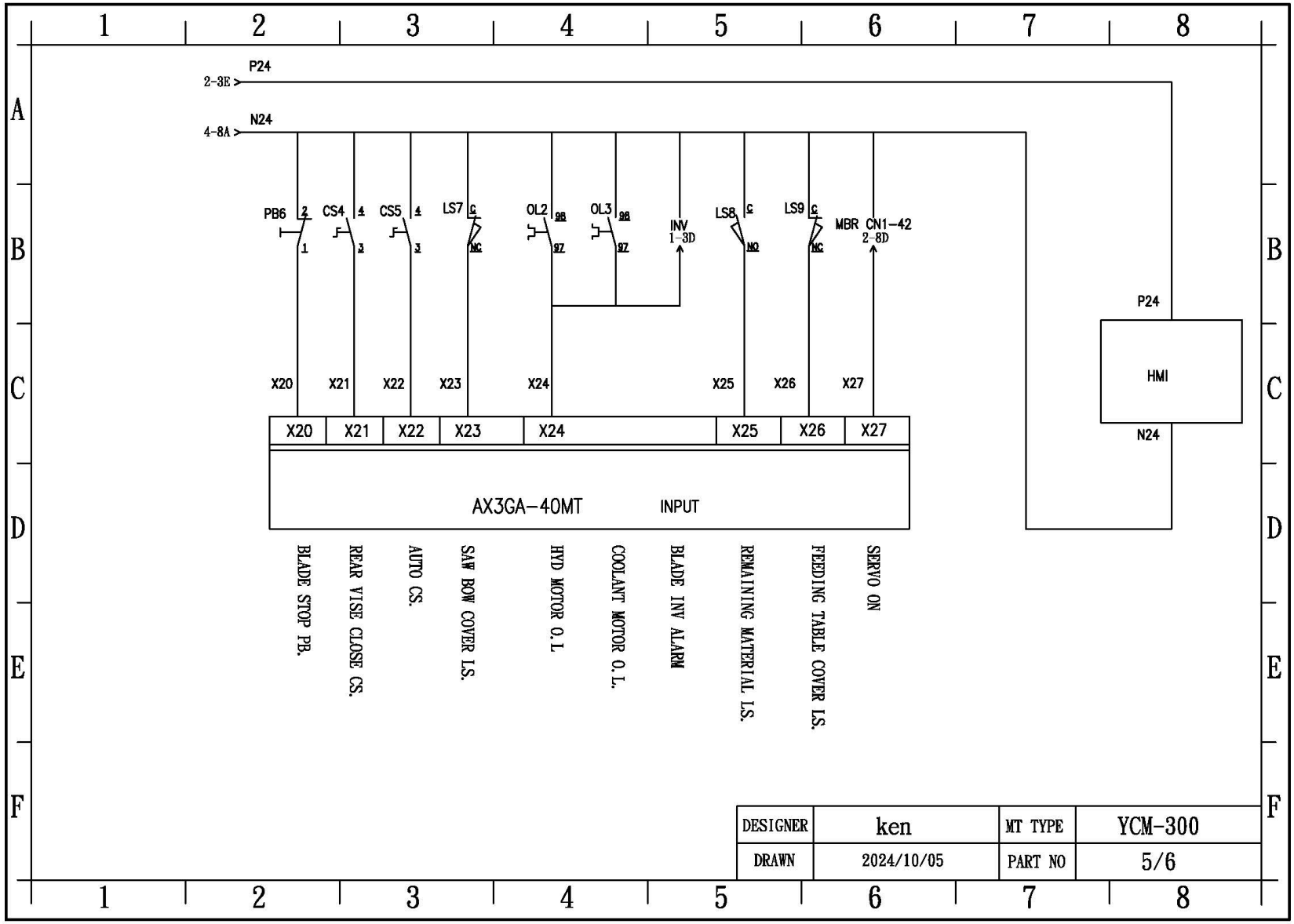
K2
K1
5
9
K2M
K0
8
12
CS1A
4
3
CS1B
4
3
K3
15
K0
8
12
12
10
13
14
17
A4
K9
A1
A2
K0
A1
A2
KM2
A1
A2
11
95
OL2
96
KM4
A1
A2
HL2
KM1
A1
A2
HL3
KM3
A1
A2
16
95
OL3
96
SV1
0
1-8E
POWER ON
BLADE MOTOR RUN
HYD MOTOR
SERVO POWER
HYD MOTOR RUN LAMP
INV POWER
BLADE MOTOR RUN LAMP
COOLANT POWER
BLADE FAST DOWN SV.
P24
2-3E
P24
5-2E
K5
K6
K7
K8
A6
A3
A5
A7
SV2
SV3
SV4
SV5
N24
2-3E
N24
4-8A
BLADE RAISE SV.
BLADE DOWN SV.
FRONT VISE CLAMP SV.
REAR VISE CLAMP SV.
DESIGNER
ken
MT TYPE
YCM-300
DRAWN
2024/10/05
PART NO
3/6


1 2 3 4 5 6 7 8
A B C D E F
N24
3-8D
LS1 LS2 LS3 LS4 LS5 LS6 PB1 PB2 PB3 PB4 CS2A CS2B PB5 CS3
NC
2-4D
2-4D
L1C
L2C
L N COM X00 X01 X02 X03 X04 X05 X06 X07 X10 X11 X12 X13 X14 X15 X16 X17
AX3GA-40MT
INPUT
BLADE MOTION DTECTOR PRS.
BLADE DOWN SE.
FEEDING FORWARD LS.
FEEDING BACKWARD LS.
VISE NO MATERIAL LS.
BLADE UP SE.
HYD MOTOR RUN PB.
BLADE MOTOR RUN PB.
FEEDING FORWARD PB.
FEEDING BACKWARD PB.
BLADE RAISE PB.
BLADE DOWN PB.
HYD MOTOR STOP PB.
FRONT VISE CLOSE CS.
DESIGNER ken MT TYPE YCM-300
DRAWN 2024/10/05 PART NO 4/6


P24
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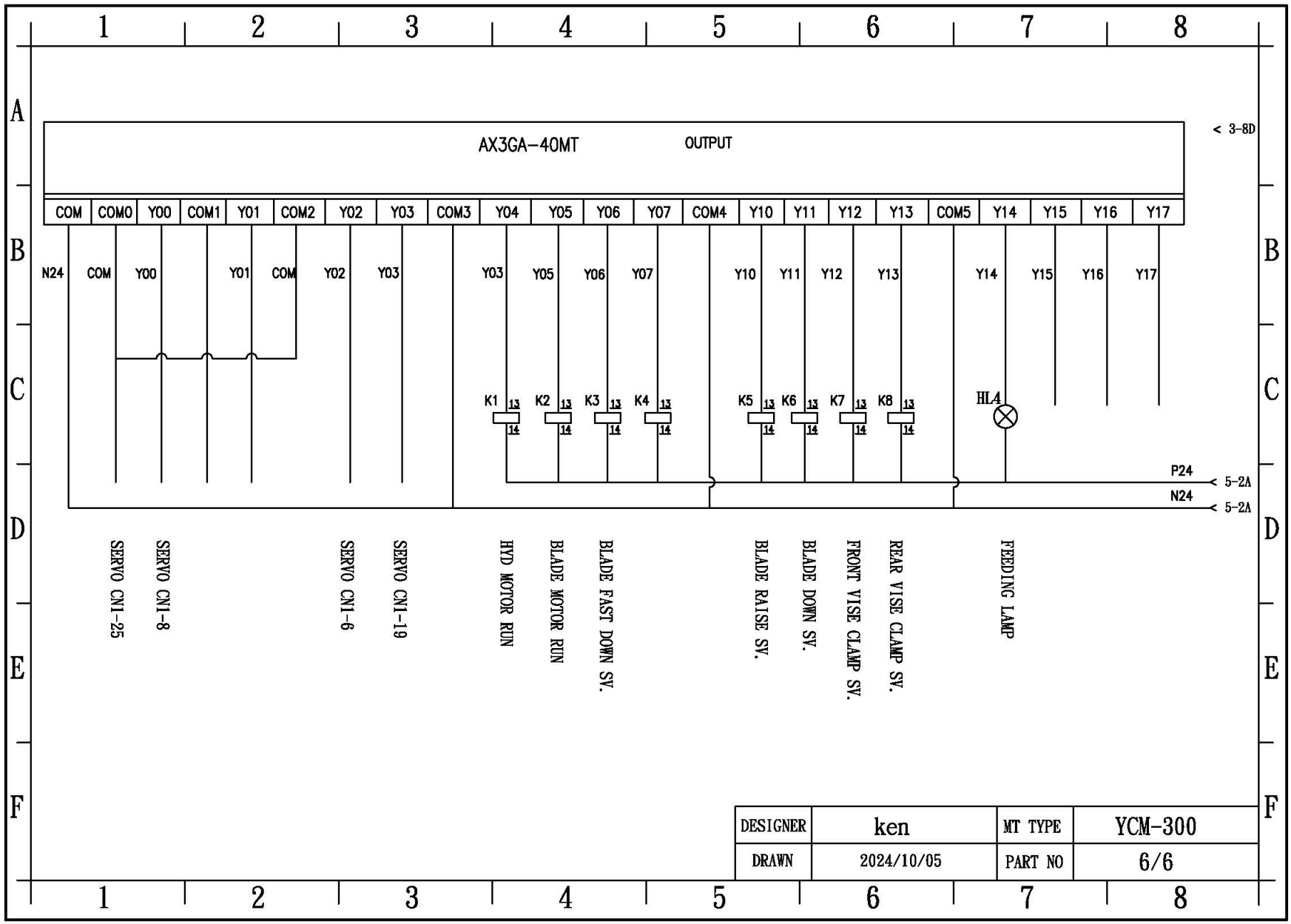
N24
4-8A
PB6
CS4
CS5
LS7
OL2
OL3
INV
1-3D
LS8
LS9
MBR
CN1-42
2-8D
P24
HMI
N24
X20
X21
X22
X23
X24
X25
X26
X27
AX3GA-40MT
INPUT
BLADE STOP PB.
REAR VISE CLOSE CS.
AUTO CS.
SAW BOW COVER LS.
HYD MOTOR O.L
COOLANT MOTOR O.L.
BLADE INV ALARM
REMAINING MATERIAL LS.
FEEDING TABLE COVER LS.
SERVO ON
DESIGNER
ken
MT TYPE
YCM-300
DRAWN
2024/10/05
PART NO
5/6


AX3GA-40MT
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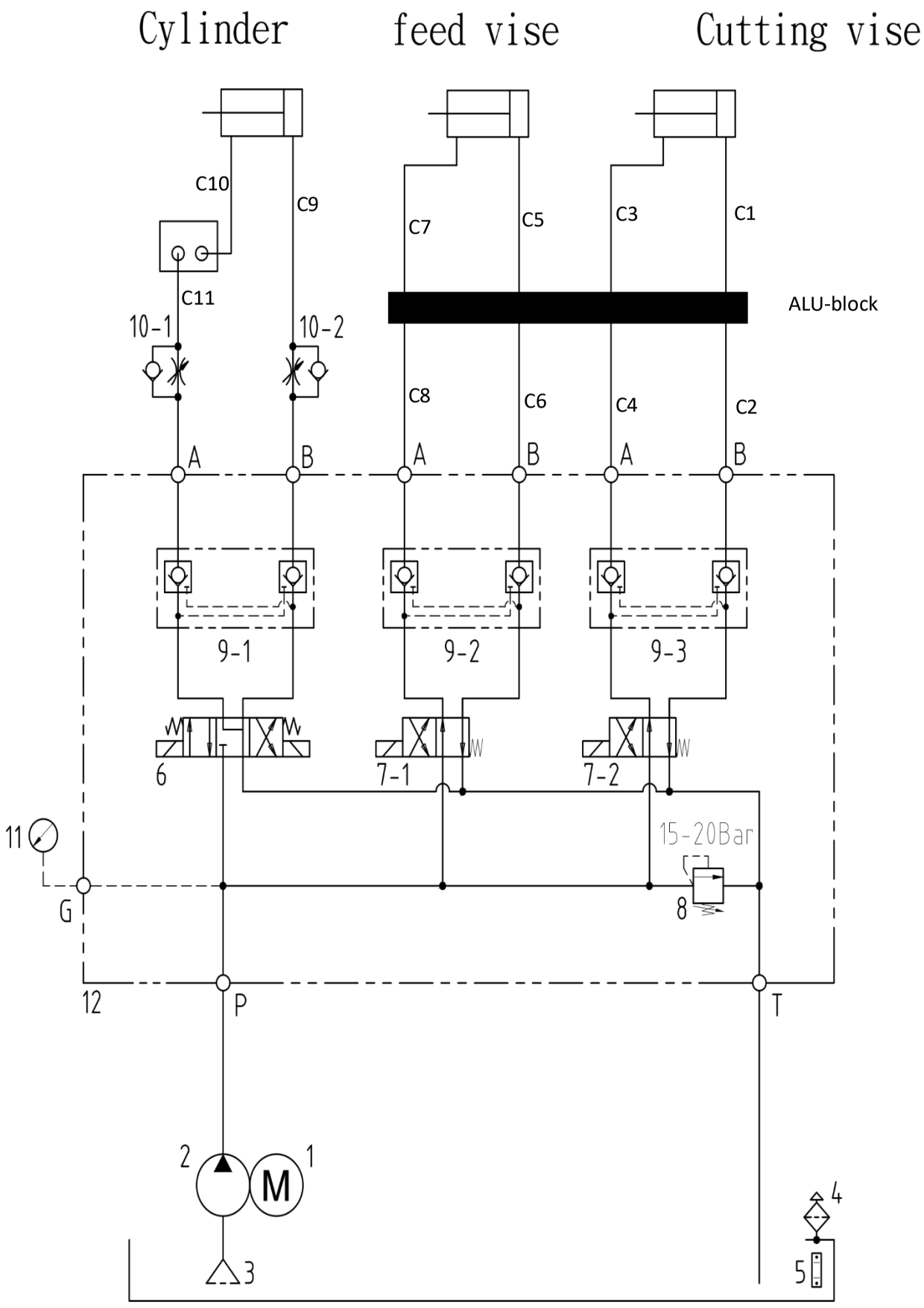
COM
COM0
Y00
COM1
Y01
COM2
Y02
Y03
COM3
Y04
Y05
Y06
Y07
COM4
Y10
Y11
Y12
Y13
COM5
Y14
Y15
Y16
Y17
N24
K1
K2
K3
K4
K5
K6
K7
K8
HL4
P24
< 5-2A
N24
< 5-2A
SERVO CN1-25
SERVO CN1-8
SERVO CN1-6
SERVO CN1-19
HYD MOTOR RUN
BLADE MOTOR RUN
BLADE FAST DOWN SV.
BLADE RAISE SV.
BLADE DOWN SV.
FRONT VISE CLAMP SV.
REAR VISE CLAMP SV.
FEEDING LAMP
DESIGNER
ken
MT TYPE
YCM-300
DRAWN
2024/10/05
PART NO
6/6

300 CNC HYD PARTS LIST				
NO.	parts	items	Q'ty	note
1	motor	M1/2H4-500-1A-SP(200/400)	1	400V
2	pump	HGP-1A-F5R-Ø12	1	HYDROMAX
3	oil strainer	SFF-04-J	1	JUNWELL
4	oil in	FB-06S-J	1	JUNWELL
5	fluid level gage	LS-3RL-J	1	JUNWELL
6	magematic valve	DFB-02-3C4-DC24-35C	1	DOFLUID
7	magematic valve	DFB-02-2B3-DC24-36C	2	DOFLUID
8	pressure adjust valve	CMR-082-L20N	1	DROTROL
9	Check valve	MPC-02-W	3	TACHENG
10	Throttle	TLC-02	2	JUNWELL
11	pressure gauge	SA2-50K-CN1	1	CNI
12	hydraulic manifold block	MMS-023B-CDP/C28	1	PLI
13	system assemble	TKY1/2H-16A-S	1	PLI


Cylinder
feed vise
Cutting vise
C10
C9
C7
C5
C3
C1
C11
ALU-block
10-1
10-2
C8
C6
C4
C2
A
B
A
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A
B
9-1
9-2
9-3
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7-1
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15-20Bar
G
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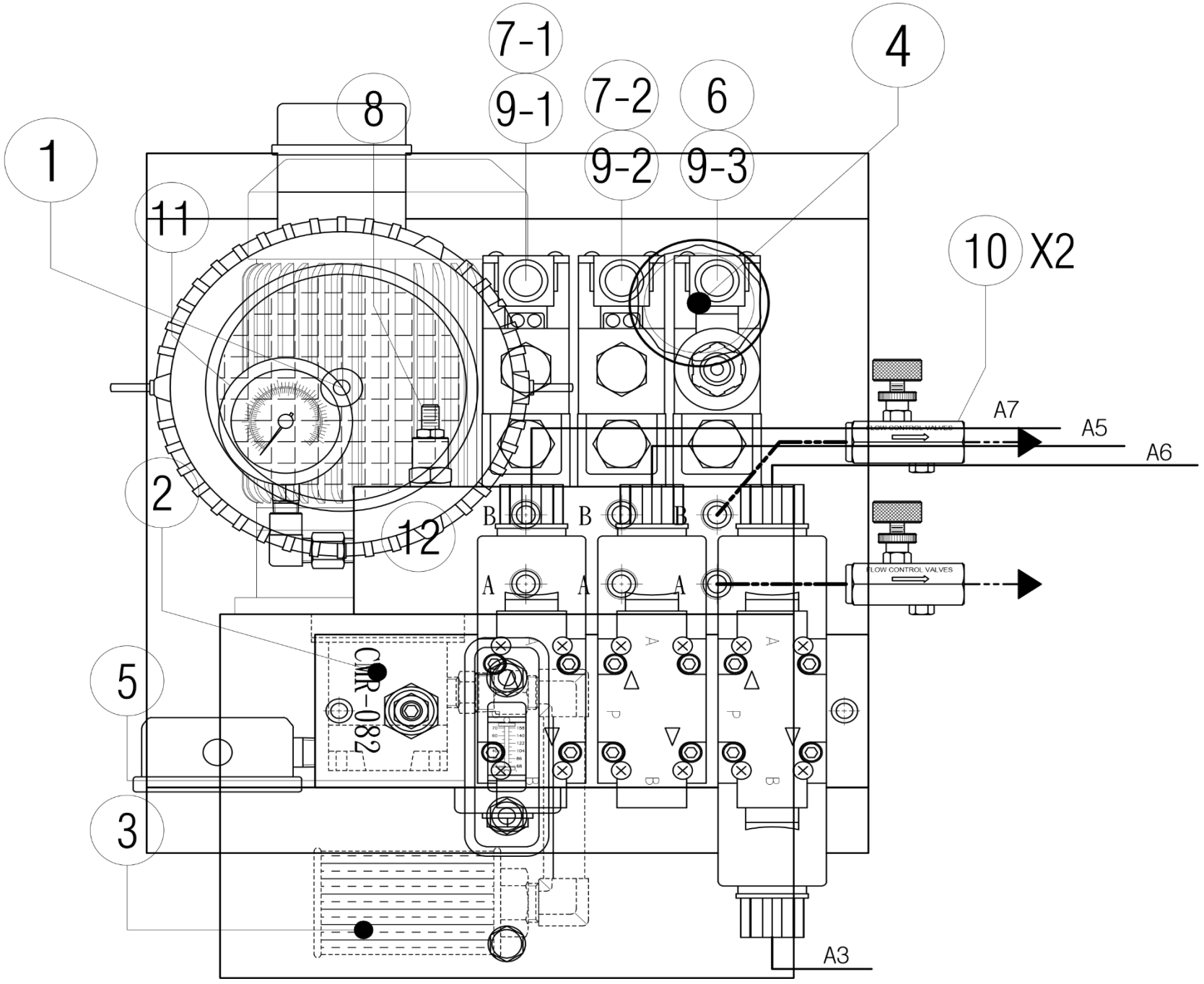
1
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7-1
7-2
8
9-1
9-2
9-3
10 X2
11
12
A7
A5
A6
A3
FLOW CONTROL VALVES
FLOW CONTROL VALVES
CMR-082
A
B
P

PARTS LIST					PARTS LIST				
NO		BOM	SPEC	Q'TY	NO		BOM	SPEC	Q'TY
1001	Base	1001		1	2006	Platen	2006		2
1002	Front door	1002		1	2007	Roller wheel bracket	2007		3
1003	Front door (small)	1003		1	2008	Ball screw sleeve	2008		1
1004	Water tide cover	1004		1	2009	Ball screw	2009		1
1005	Activith cover	1005		1	2010	Screw support seat	2010		1
1006	Cover A	1006		1	2011	Ball screw fixed plate	2011		1
1007	Cover B	1007		1	2012	Bearing	QX6204	6204	1
1008	Cover C	1008		1	2013	Belt	2013		1
1009	Cover D	1009		1	2014	Clamping hydraulic jigs	3SA83,3SA84,3SA85		2
1010	Cover E	1010		1	2015	Material support connect plate	2015		1
1011	Cover F	1011		1	2016	Hydraulic fixed plate	2016		2
1012	Cover G	1012		1	2017	Moving seat	2017		1
1013	Motor connect Plate	1013		1	2017A	Sleeve	2017A	52*60*41	2
1014	Electric Control plate	1014		1	2017B	oil seal fixed plate	2017B	2T*70*70	4
1015	Feed baffle	1015		1	QX KH4060	Bearing	QX KH4060	KH4060	4
1016	Tank	1016		1	UZ036	Dustproof oil seal	UZ036	GA 40*50*5/7	4
1017	Transmisson cover	1017		1	2018	vise down seat	2018		1
1018	Pulley	1018		1	2018A	switch fixed plate	2018A	3T*52*50	4
1019	Feed group of jumpers	1019A+1019B		1	2018B	limit switch	2018B		4
1020	Acrylic	1020	3T*731*246	1	2018C	screw			
1021	Strip	1021		1	2018D	Main wire support frame	2018D		1
1022	Handle	27138*3		1	2019	Clamp block skateboard	2019	16x38x420	2
1023	Pump	1Q014		1	2020	Vise feed block	2020	16x38x128	2
1024	Activities cover side Panel	1024		1	2021	Vise plate	2021		2
1025	Water pipe support	1025		1	2022	Vise up seat	2022		2
1026	Pipe			1	2023	Vise connect seat	2023		2
1027	Inverter	1QF002	460V	1	2024	Slide nut	2024	20*20	2
1028	oil pump set	1028	750W 400V	1	2025	Slide nut	2024	20*20	4
1029	Hydraulic pipe	1029		4	2026	Moving up roller seat	2026	28*370	1
1030	Regulating valve set	1030		1	2027	Fixed up roller seat	2027	28*410	1
1031	Adjustable Aluminum blaock	3SA142		1	2028	Platen bushing	2028		4
1032	Hydraulic block	1032	63.5x38.1x100	1	2029	screw		M6_L10	4
1033	Pulley serve motor			1	2030	vise screws	2030		1
1034	Belt	1034	S8M-584-20	1	2030A	vise screws	3SA89		1
1035	pad	1035	DK-812075C	4	2031	Handle wheel	3SA82		2
1036	screw		M8_L30	2	2031*1	Handle	2031*1	HL-80A 80mm	2
1037	Zinc alloy hinges	1038	AZ-2510B	1	2032	screw		M8_L20	4
1038	Zinc alloy hinges	1038	AZ-2510B	1	2033	screw		M10_L100	4
1039	screw		M6_L6	8	2034	screw		M10_L20	8
1040	screw		M6_L6	34	2035	screw		M10_L35	6
1041	screw		M6_L16	8	2036	Elastic screwdriver		M10_L45	3

2001	Vise moving set - left fixed plate	2001		1	2037	screw		M8_L12	2
2001*1	Feed fixed left board	2001*1		1	2038	screw		M8_L16	4
2002	Axis	2002		2	2039	screw		M8_L25	4
2003	Feed fixed right board	2003		1	2040	screw		M6_L30	4
2004	Feed chip plate	2004		1	2041	screw		M12_L20	4
2005	Roller	EX-5		3	2042	screw		M10_L25	2

PARTS LIST					PARTS LIST				
NO		BOM	SPEC	Q'TY	NO		BOM	SPEC	QTY
2043	Screws		M6_L20	12	7-3	Right Body frame	30007*3		1
3001	Elentronic control panel	3001		1	7-4	Aluminum set	15001*2		1
3002	Touch panel	3002		1	10	Knob	27010		2
3002A	servo system	3002A	SMA-LO4R30	1	11	Blade Tension Handle	27011		1
3002B	PL C Mother board	3002B	AX1N-40MT	1	12	Bearing	QX51203		1
3002C	Relay output board	3002C		1	13	Lead Screw	27013*3		1
3002D	Man machine interface	3002D	MT6070i	1	13-1				1
3004	Elentronic control Box	3002*1		1	13-2	Washer	XCWMWQC16311		3
3005	Switch knob	3005		5	14	Hex. Socket Head Screw	XCCMWS6825	M8X25L	6
3006	Oval switch button	3006		3	15	Fixed Block	27015		2
3007	Power switch button	3007		1	16	CAPScrew	XCCMWS6840	M8x40	4
3008	Adjustment knob	3008		1	17	Bushing	27031B	20x25	1
3009	Stop knob	3009		1	18	Reducer Block	30018		1
3010	Main Power switch button	3010		1	20	Screw	XCM6F825	M8x25	4
3011	Transformer	3011		1	20*1	Nut	XCM6A8	M8	4
6001	Swivel seat	75103		1	21	Reducer	30021		1
6002	Swive plate	75124		1	22	Motor	27022A		1
6003	Guide frame	6003		1	25	CAP Screw	XCCMFS61025	M10x25	1
6004	Clamping seat	6004		1	27	Key	2J037	8x7x70	1
6005	Material support plate	6005	10T*132*140	1	28	Output Shaft	30028		1
6006	Right vise plate	6006		1	29	Key	2J021	7x7x30	1
6007	Fixed rod	27106	(M12) 500L	2	30	Bearing	27030	6906	2
6008	Guide plate	6008		1	31	Spring holder	3SA31		1
6009	Located block	6009	31.8x19.1x112	1	31*1	Spring holder screw	27031A*1		1
6010	Vise Baffle	6010		1	32	Spring	3SA32	615*23	1
6011	Left rear vise plate	6011		1	33	Steel Brush support	30033		1
6012	Screw	12060B		2	33*1	Blade Cover	30033*1		1
6013	Main shaft	75101		1	33*2	Brush holder	30033*2		1
6014	O ring	27124*1	G-165	1	34	Screw		M16x40	1
6015	Nut	27131	50*25mm 24*3.0	1	34*1	Bearing Cover	75081		1
6016	Handle	27132		1	35	Spring Washer	32042(1)		2
6018	Screw		M8_L20	8	36	Frame Pivot Shaft	3C036		1
6019	Screw		M10_D22_d10_T2	6	38	Screw	XCCMWS6825		2

6020	Screw		M10_L30	6	39	Screw	12060B	8*20	1
6021	Screw		M8_L20	2	39-1	copper	30039*1	6*25	1
6022	Washer		M8_D18_d8_T2	2	40	Fixed Block	32091		1
1	CAP Screw	XCCMFS61025	M10x25	1	41	Set Screw	XCCMJS688	M8x8	2
2	Washer	27002	40x40.2x5	2	45	Screw		M8x20	1
3	Shaft	27003		1	47	Screw	XCM6F820	M8x35	2
4	Anchor Block	27004		1	48	Blade adjust stick	30048		1
5	C- ring			1	50	Screw	XCM6F510	M5x10	2
5*1	Screw			4	52	Blade Cover (Front)	27052 #7037		1
5*2	Screw			5	53	Blade Adjust (Front)	30053		1
6	Bearing	QX6205	6205	2	54	Guide	32084		2
7	Left Body frame	28507		1	55	Guide holder	32078		4
7-1	PIPE connect	21007G*1		1	55-1	Guide	32079		4
7-2	PIPE connect for Body frame	30007*2	50x100x730	1	56	Screw			4

PARTS LIST

NO		BOM	SPEC	QTY
57	Valve	21049 *1		2
60	Eccentric Guide	27057		4
61	Bearing	QX608(1)	608	8
62	Screw	XCM6F515	5x15	4
63	CAPScrew	XCCMWS6840	M8x40	10
65	Spring Washer	30065		1
65-1				2
66	Valve	XCCMWS61260	CAP M12*60	1
67	Chip Plate	30067		1
68	Screw		12x30	2
70	Screw	XCM6F510	M5	1
71	Drive Wheel	30071		1
72	Washer	27002	40x10.2x5	1
73	Screw	XCM6F1025	10x25	1
74	CAPScrew			1
74-2	Nut			2
75	Blade Back Cover	30075		1
75-1	Blade Left Cover	30075*1		1
75-2	Blade up cover	30075*2		1
75-3	Blade down cover	30075*3		1
76	Wire fixed Board	30076		1
76-1	CAP Screw		8x16	2
78	Saw Blade	30078	2965x27x0.9	1
79	Idler Wheel	30079		1

PARTS LIST

NO		BOM NO	SPEC	QTY
128	switch board	3SA128		1
128*2	CAPScrew	XCCMFS61030		2
SA01	screw			4
SA02	washer			4
SA03	Rod stop bar	3C003		1
SA04	Liner slide plate	3SA04		1
SA05				1
SA06	Liner slide board	3SA06		1
SA07	Screw			1
SA08	Liner slide suppot	3SA08		1
SA09	Rod stop bar plate	3SA09		1
SA10	Washer			2
SA11	Screw			2
SA12	Screw			2
SA13	Screw			2
SA14	Screw			2
SA15	Screw			2
SA16	Liner slide set board	3SA16		1
SA17	Washer			2
SA18	Screw			2

118	Miter Plate	30118		1					
118*1	Screw		M10x20	2					
118*2	Oil Head	SU005	10x1.0	1					
118*3	Nut			2					
118*4	Nut			1					
118*5	screw		M8*30	1					
119	Breaking Eletronic Board	30119		1					
119*1	CAPScrew	XCCMWS6820		1					
120	Nut	27113		1					
122	Anti-Chip Cover	27037		1					
123	Bushing	27111		1					
124	Bearing 32006	QX32006		2					
125	clylinder support	3SA125		1					
125A	Spring holder	12080		1					
125B	Spring support	3SA125B		1					
125*1	CAP 8*25	XCCMWS6825	CAP 8*25	1					
125*2	CAP 12*70	XCCMWS61270-1	CAP 12*70	1					
125*4	Pin	XCWMWCG630	6*30	2					
125*5	Nut	XCM6A10		1					
125*6	Screw			1					
126	Clinder	3SA126		1					
127	Oil house suppot plate	30127		1					
127*1	screw	XCM6F825		1					