OPERATION MANUAL AND PARTS LIST

VBR-300 VERTICAL BAND SAW





WARNING: 1.Read this operation manual carefully before operation

2. Keep this manual for future reference



GENERAL SAFETY RULES FOR WOODWORKING MACHINERY

- 1. Know your machine. Read this operation manual carefully. Learn the machine applications and limitations, as well as the specific potential hazard peculiar to it.
- 2. Keep the guards in place and in working order.
- 3. The machine must be properly grounded to prevent electrical shocks.
- 4. Keep the work area clean. Cluttered areas invite accidents.
- 5. Don't use in a dangerous environment. Don't use the machine in a damp or wet locations, or expose it to rain. Keep the work area well-lit.
- 6. Keep children and visitors away. All children and visitors should be kept a safe distance from the work area.
- 7. Wear proper apparel. No loose clothing, gloves, neckties, rings, bracelets or other jewelry to get caught in moving parts. Non-slip wear is recommended. Wear protective hair covering to contain long hair.
- 8. Use safety glasses. Everyday eyeglasses only have impact-resistant lenses. They are not safety glasses.
- 9. Hold work securely.
- 10.Do not overreach.
- 11.Disconnect the machine from before servicing and when changing accessories such as the blade, etc.
- 12. Avoid accidental starting. Make sure the switch is at the OFF position before plugging in power wires.
- 13. Never leave the machine running unattended. Turn off the power.
- 14. Never have any part of your body in line with the path of blade.



ADDITIONAL SAFETY RULES FOR BAND RESAW

- 1. Make sure all guards are in place before starting the machine.
- 2. The band saw is designed for cutting wood material only. Do not apply this machine for cutting metal.
- 3. Always keep blade teeth sharp.
- 4. Disconnect the machine from power source before servicing.
- 5. Check the wood material to be sure that it is free of defect.
- 6. Never try to remove small pieces of material from the conveyor belt when the machine is operating.
- 7. Make sure blade has proper tension. Too much tension may cause blade to break.
- 8. Do not back out of a cut during cutting as this will pull the blade off the wheels.
- 9. Wear gloves when handling the blade.



MACHINE SPECIFCATIONS

MODEL	VBR-300
MAXIMUM MATERIAL SIZE (W x H)	500x350mm
FENCE MOVEMENT	200mm
FEED ROLLER OPEN	300mm
MINIMUM CUT PIECE	3mm
SAW WHEEL DIAMETER	31.5" (800mm)
SAW BLADE LENGTH	4980mm
SAW BLADE WIDTH	2 inch
FEED SPEED (VERIABLE)	0-45 m/min
TABLE HEIGHT FROM FLOOR	890mm
SAW WHEEL MOTOR	30HP
FEED MOTOR	1 HP WITH INVERTER
FEED ROLLER MOVEMENT MOTOR	0.25HP
FENCE MOTOR	0.25HP
DUST HOOD OUTLET DIAMETER	Ф4" х 2
PACKING DIMENSIONS (LxWxH)	131 x 227 x 239 cm
NET WEIGHT	1906 KGS
GROSS WEIGHT	2110 KGS



STANDARD EQUIPMENT

- 30HP SAW WHEEL MOTOR
- FREQUENCY INVERTER CONTROLLED FEED SPEED
- PLC CONTROL WITH TOUCH SCREEN
- 2 INCH SAWBLADE
- OIL MIST BLADE COOLING SYSTEM
- OIL MIST SAW WHEELS SYSTEM
- HIGH ACCURACY HYDRALIC BLADE TENSION WITH GREMAN ELECTRIC CONTROL
- TOOL BOX WITH SERVICE TOOLS

OPTIONAL EQUIPMENT

- 30HP SAW WHEEL INVERTER
- T.C.T. SAWBLADE
- STELLITE SAWBLADE

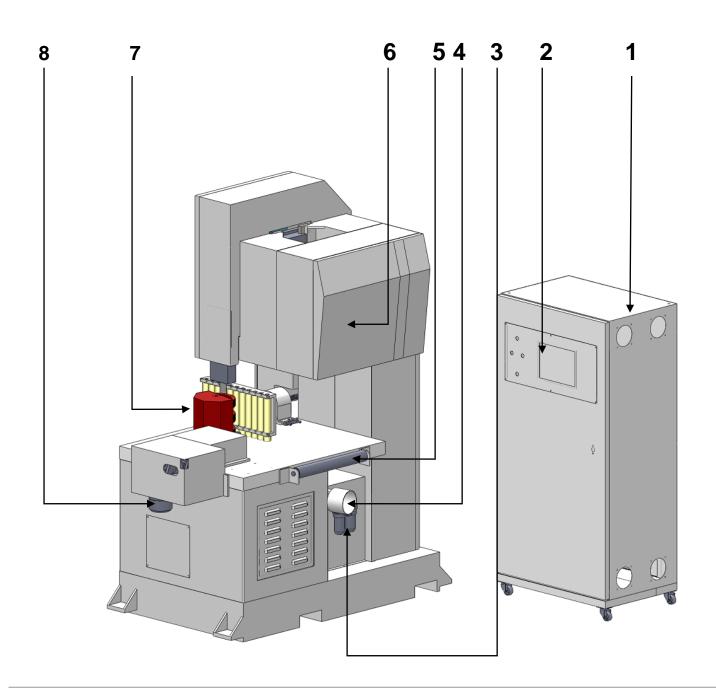


LEGND OF THE MACHINE

- 1. ELECTRIC CONTROL BOX
- 2. ELECTRIC CONTROL PANEL
- 3. MAIN AIR PRESSURE UNIT
- 4. DUST HOOD OUTLET DIAMETER
- 5. IN FEED ROLLER
- 6. BLADE TENSION HYDRAULIC PUMP
- 7. FEED ROLLER
- 8. FEED ROLLER MOVEMENT MOTOR
- 9. SAW WHEEL MOTOR
- 10. FEED ROLLER MOTOR
- 11. DUST HOOD OUTLET DIAMETER
- 12. FENCE ROLLERS
- 13. FENCE MOTOR

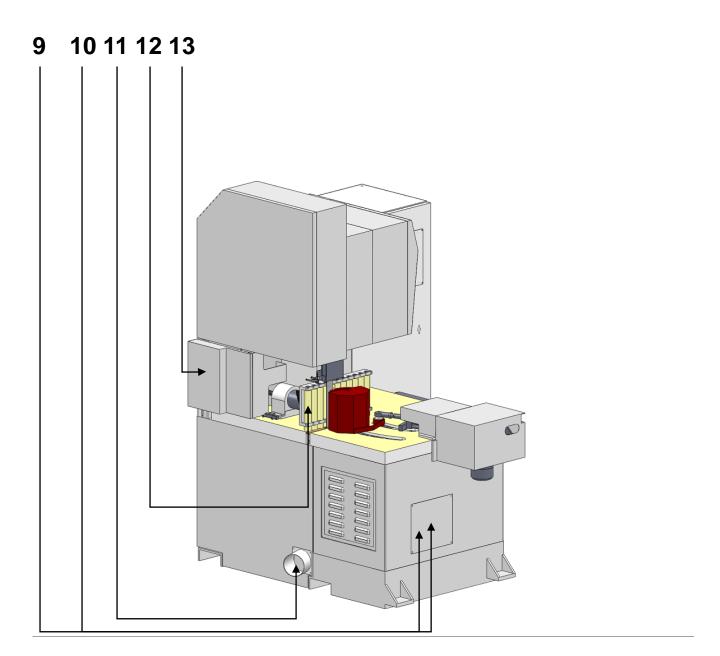


LEGND OF THE MACHINE





LEGND OF THE MACHINE





UNPACKING THE MACHINE

Remove the machine from the wooden crate carefully, and ensure that all parts are present and free from damage. If any parts are missing or damaged, contact your local distributor or the machine manufacturer immediately. Do not attempt to assemble or operate the machine without all parts present ant in working.

CLEANING THE MACHINE

Once the machine has been unpacked, then remove the rust preventative oil that coats the machine with a cloth soaked in kerosene. Do not use gasoline or lacquer thinner to remove the rust preventative oil, as this can damage the painted parts of the machine.

INSTALLING THE MACHINE

Once the machine has been well placed at a proper work site, it is requested to make the machine leveling adjustment.

The four leveling screws located at the 4 corners are used for adjusting the machine leveling. Turn these 4 leveling screws until the proper machine leveling.



LUBRICANTION

Please replacement lubricant after first 300 hours operation and do the same for every 2500 hrs.

Proper lubricant can sufficient support worm set contact surface lubrication. Ensure long life running and better efficiency for heavy duty and impact application.

Type of oil:

SPINDLE OIL K5035 (ISO VG5)

Oil for gear reducer:

LOAD	AMBIENT	CDC HD	SHELL OIL	MOBLE OIL	ESSO OIL
	TEMP	CPC-HD	- Omala oil	-Mobil gear	-Spartan EP
	-20°C~10°C	HD-150	R150	629	150
NORMAL	-0°C~25°C	HD-220	R220	630	220
LOAD	10°C~40°C	HD-320	R320	632	320
	40°C~65°C	HD-460	R460	634	460
TIE VANA	-0°C~25°C	HD-320	R320	632	320
HEAVY LOAD	10°C~40°C	HD-460	R460	634	460
LOAD	40°C~65°C	HD-680	R680	636	680



CONNECT POWER WIRES

Before connecting this machine to your factory power source, be sure that your power source voltage, hertz, and phase are all the same characteristics as that of the machine.

For personal safety, this machine must be properly grounded.

Connect the power wires to the "R.S.T." terminals, located in the electric control box.

After the power wires are connected, you must check the running direction of the conveyor belt to determine if the wiring is correct or not.

If the conveyor belt runs to the opposite direction, then you need to change any two of the three input power.



WARNING

Disconnect the machine from the power source before making wire connection.



CONNECT POWER WIRES



TO POWER SOURCE



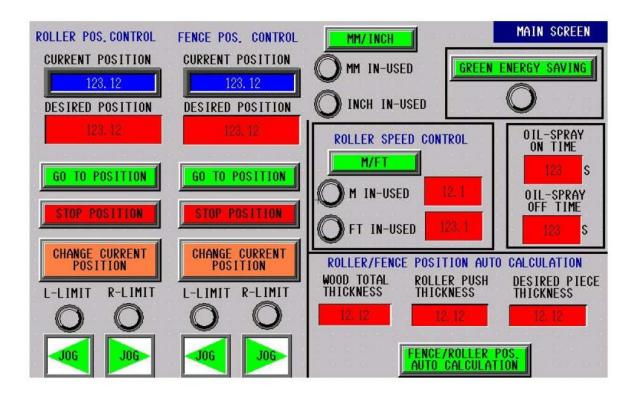
VBR-300

Operator's manual/Circuit Diagram

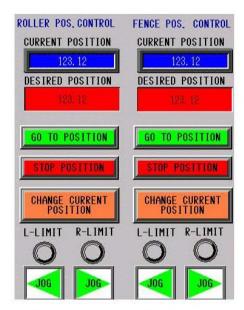
Schneider Series



1. Main Screen:



Feeding roller & Fence position control:





This box shows current position of feeding roller or fence.



Users can input position of feeding roller or fence they requires



* After inputting desired position, press this button or fence will go to desired position



* After setting desired position, press this button



for 3 seconds. Current



* Pressing this button * Pressing this button , feeding roller or fence will stop moving.



When feeding roller or fence goes to too left side or too right

side position these lights will flash.



*When pressing , user can choose mm or inch for feeding roller or fence position.





When users press GREEN ENERGY SAVING, the light will on. It means if users forget to loosen blade tension when saw wheel is off. 20 minutes later saw blade tension will lose itself. Please retighten the blade tension if user want to use the machine.

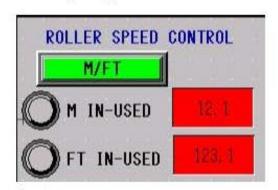
Note: If not to use the band saw, please loosen the tension for blade, so blade's lifetime will be longer.



If user sets 5 into "ON TIME" and sets 2 into "OFF TIME", after each saw

wheel on, oil spray system will spray oil for 5 seconds and rest for 2 seconds

Conveyor Speed control:





Users can choose Meter/Minute or Ft/Minute by





Operator's panel:





When power is on, this light on



When press Emergency stop button, machine stop







Conveyor CW/STOP/CCW





Feeding Roller on total on time.



Saw blade on/ off



Saw blade total on time.



2. Alarm Screen:

These alarms will make machine not work. Please clear all alarms first



Press to release alarm. If trouble shooting is not finished, alarm

can not be released

Description of alarms:

- *Hydraulic Motor or Positioning Motor Overload: Please check Motors. Then, Reset the overload relay inside the electric box.
- *Emergency stop button on or Door open: Please release all emergency stop buttons and close doors.
- *Inverter Error: Please refer to invertor manual for trouble shooting.
- *Saw Wheel Motor Overload: Please check Motors. Then, Reset the overload relay inside the electric box.
- *3 phase power should change 2 phases: Please change 2 phases of main power because motors running direction is incorrect.
- *Saw Blade Tension not Enough: If saw blade is not tight or saw blade is tighten but oil is leaking. Tension is lower than 48 bars. This alarm occurs.
- *Please run saw first: If users run conveyor before running saw wheel, the alarm will appear.



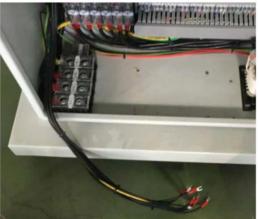
3. Change voltage from 480V to 230V:

Take out transformer

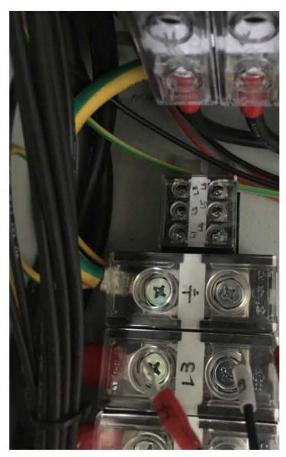




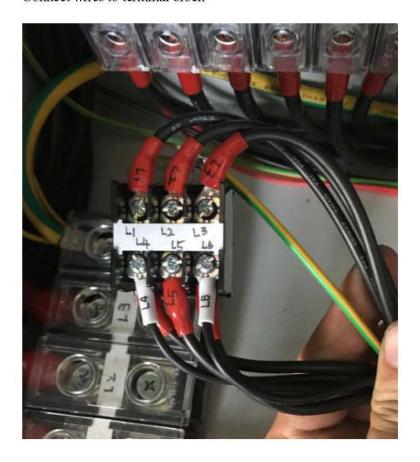








Connect wires to terminal block



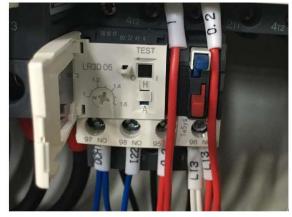


Change overload relay for saw wheel motor



Adjust the value from 1A to 1.3A for 3 pieces of overload relay









Change wires (saw wheel motor, fence motor, roller positioning motor, hydraulic motor) from high voltage to low voltage

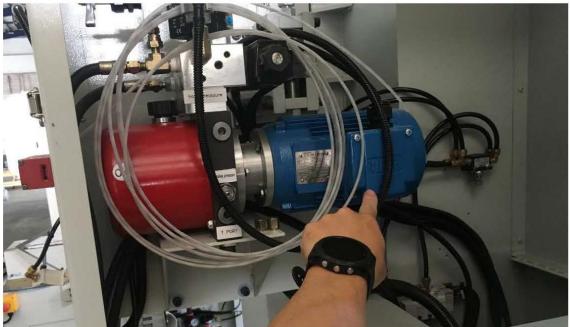




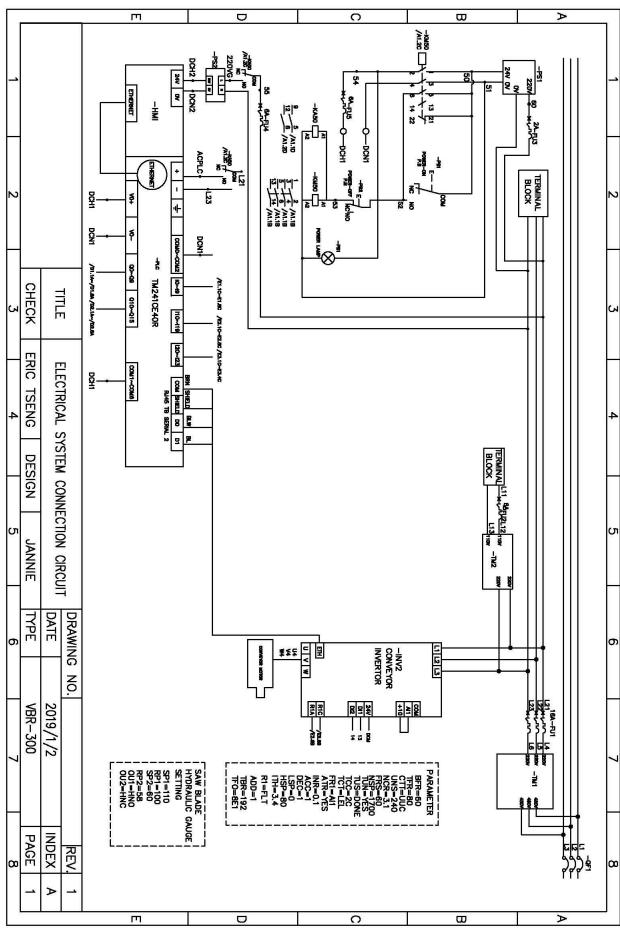
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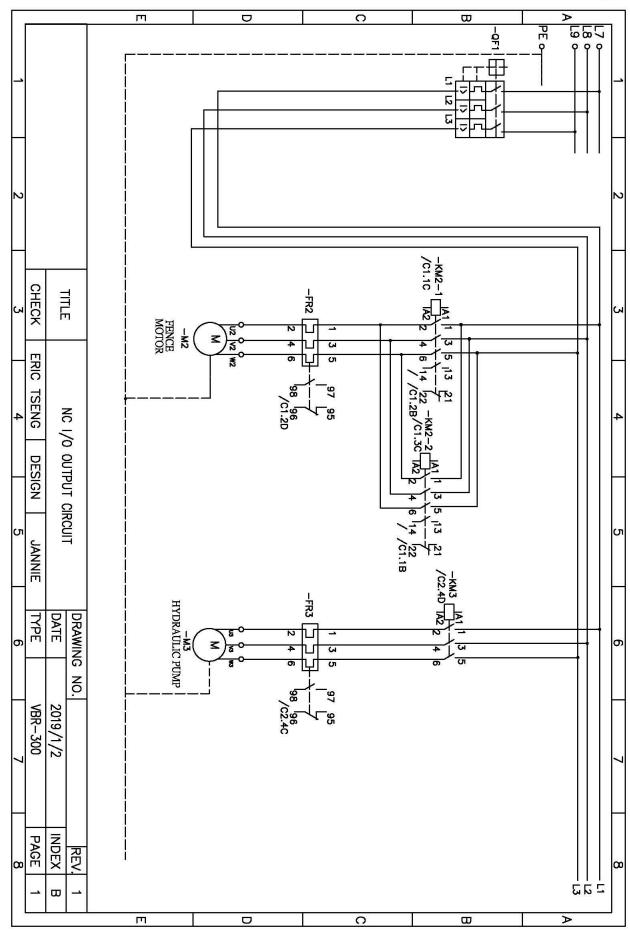




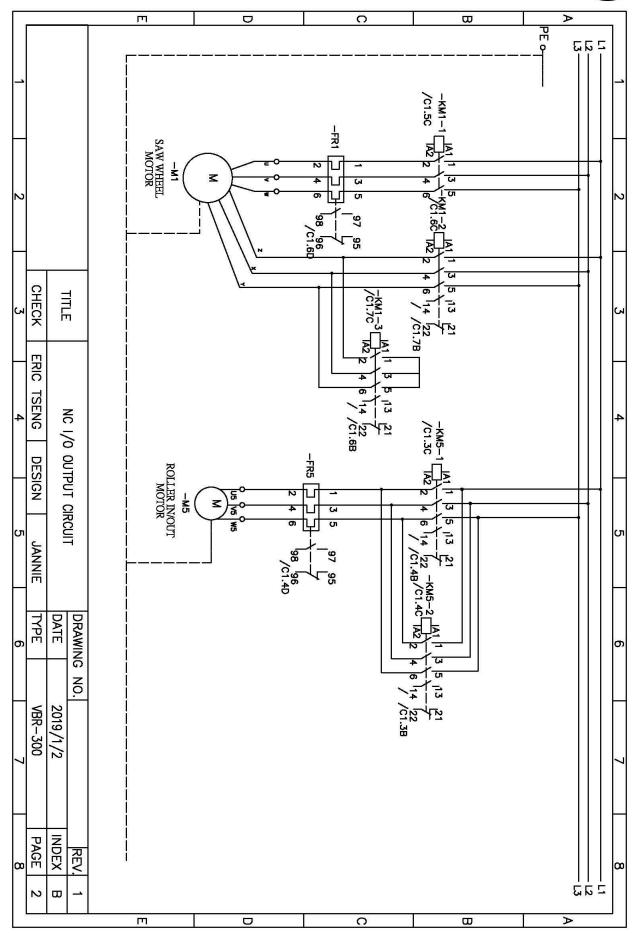




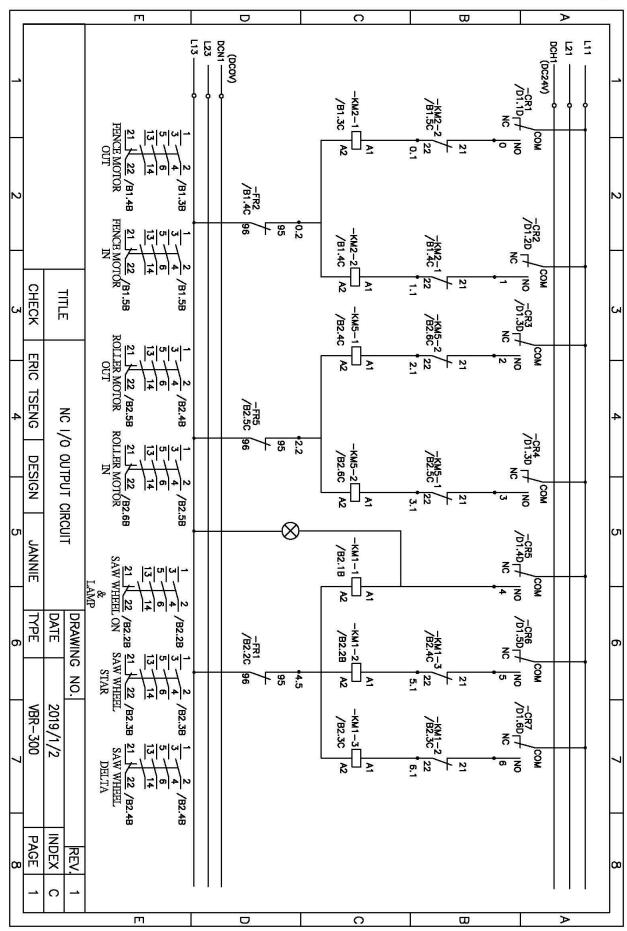




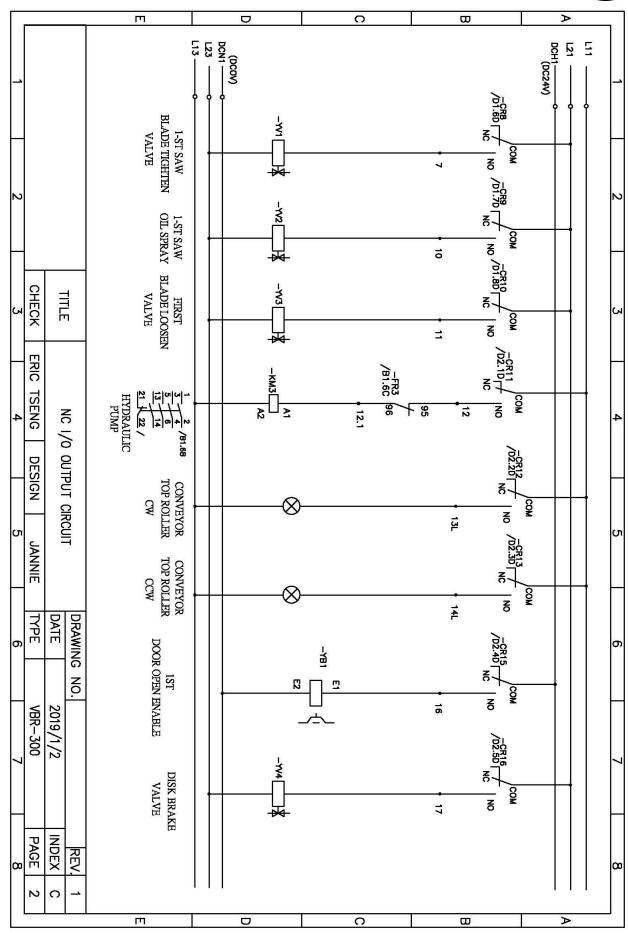




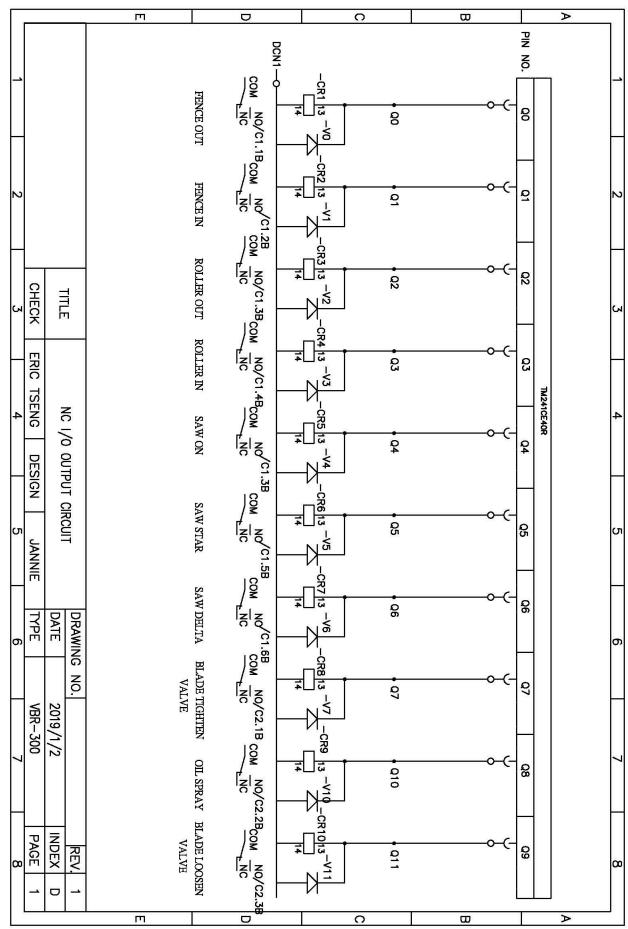




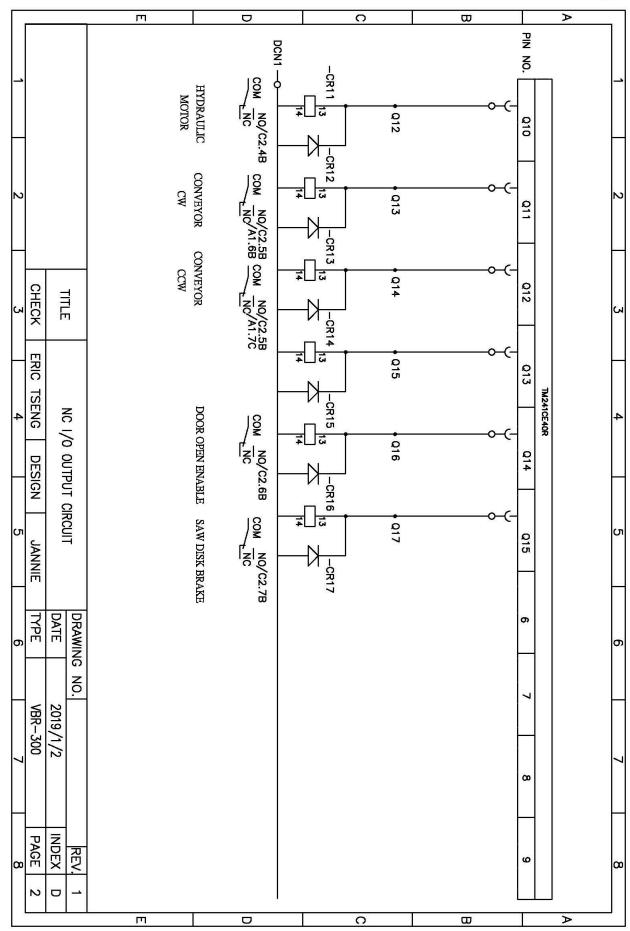




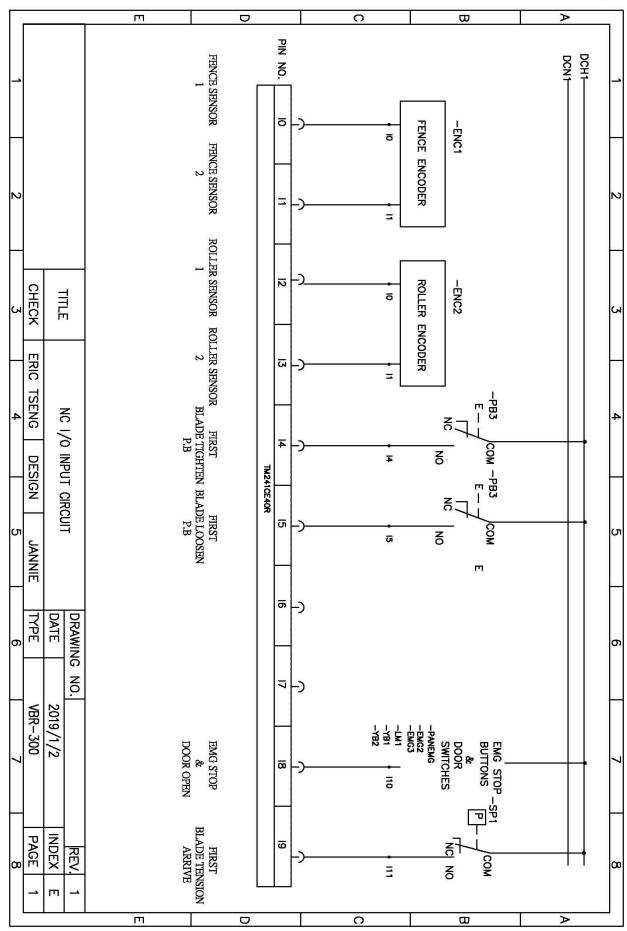




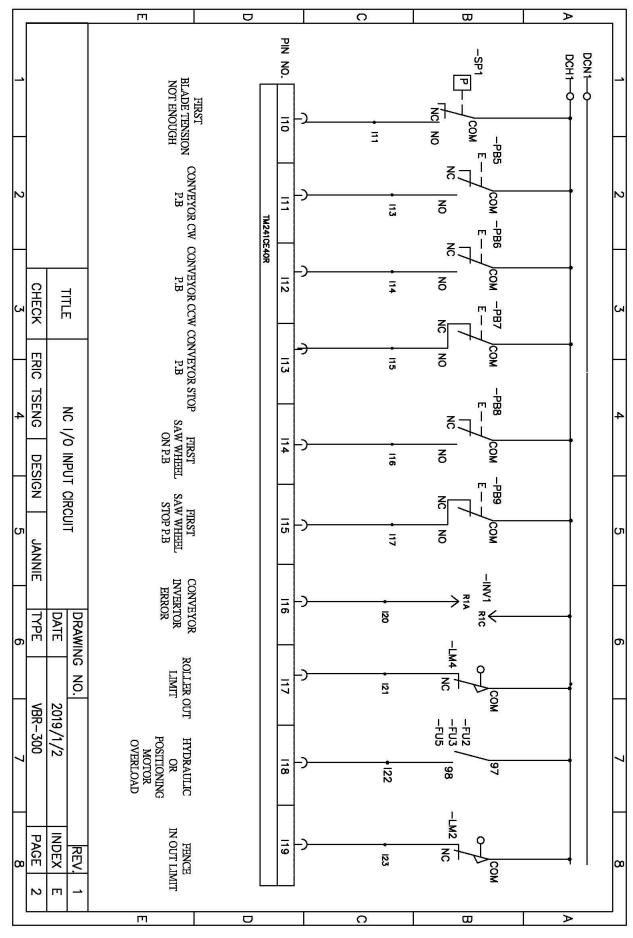


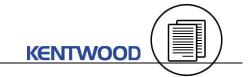


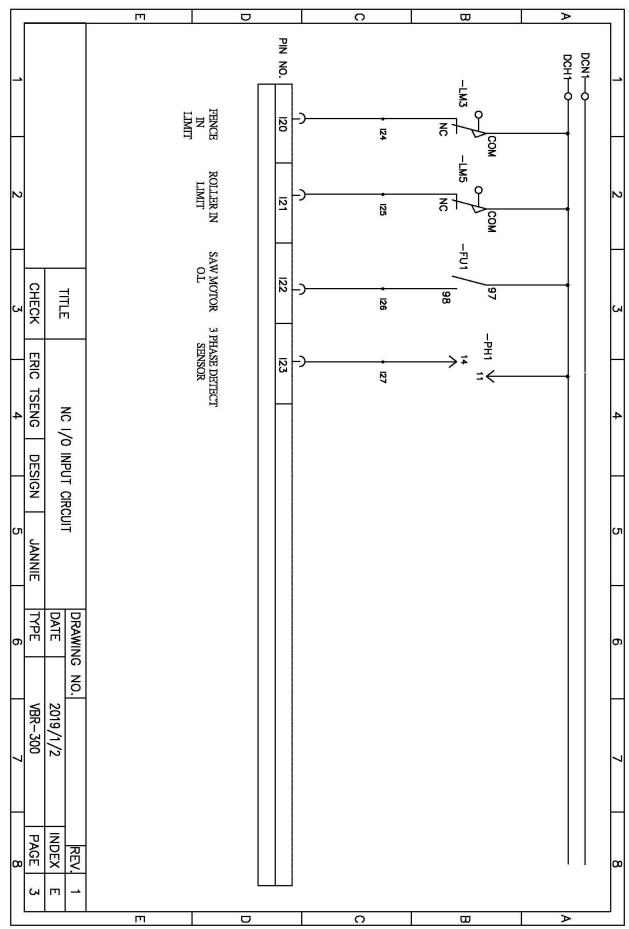














C	A) The supplied of	Amin Industry	J ICIOIGE
Main Control Panel			
FUII-push button-1a/lamp(dc24)	AR22FOL-10E4G	40412122201	1 PB1
ETN-push button-1b	M22-D-R/K01	40412101001	3 PB2/PB7/PB9
TE-HM1-7 inch	HMIGXU3512	40490107003	1 HMI
ETN-push button-1a/lamp(ac220)	M22-DL-G/K10/LED230-G	40412101002	3 PB5/PB6/PB8
ETN-lamp-ac220	M22-L-W/LED230-W	40500500009	1
IDEC-EMG stop-2b	XN4E-BL402MFRH	40411600003	1 PANEMG
HOURS-timmer	H57/GRAY 100-130VAC	40210712007	2
Electric Cabinet			
LCE-transformal	2KVA-P-0/460/480 S1-0/220		1 TM1
LCE-transformal	220VA-P-0/220 S1-0/110		1 TM2
TE-main power-switch(125a)	NSX160N 3P125A	41410102001	1 QF1
TE-main power-switch handle	Iv429338	40501725002	1 QF1
TE-top feeding roller inveter	ATV320U07M3C-1HP/2200V	40370700102	1 INV1
TE-PLC	TE PLC TM241 CE40R	40480105004	1 PLC
MW-dc power supply	LRS-50-24	40501305001	1 PS2
MW-dc power supply	LRS-100-24	40501310001	1 PS1
TE-FUSE base	DF103 3P	40502100002	1 FU1
ETN-fuse	FWC-16A10F	40502000003	3 FU1
TE-FUSE base	DF101	40502100001	4 FU2~FU5
ETN-fuse	FWC-6A10F	40502000001	4 FU2~FU5
OMRON-3 phase detector	K8DS-PH1	40413200001	1 PH1
OMRON-relay base	PYF14A-E	40500200102	2
OMRON-relay	MY4N-J-DC24	40500200002	2 KM50/CR13
OMRON-relay base	PYF08A-E	40500200101	15
OMRON-relay	MY2N-GS-DC24	40500200008	15 KA50/CR1~CR12/CR15/CR16
TE-magnetic contactor-ac110-9a	LC1D40F7	40501100014	3 KM1-1/KM1-2/KM1-3
TE-magnetic contactor-ac110-9a	LC1D09F7	40501100012	5 KM2-1/KM2-2/KM3/KM5-1/KM5-2
TE-motor protector-1-1.6a	LR3D06	40412700011	3 FR2/FR3/FR5
TE-motor protector-37~50a	LR3D350	40412700010	1 FR1/240V
TE-motor protector-23-32a	LR3D32	40412700009	1 FR1/480V



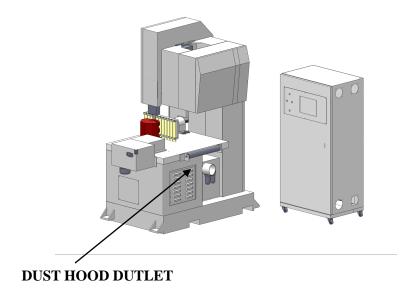
2 YB1	40412900003	D4SL-NK1	Omron-door interlock switch ping
2 YB1	40412900002	D4SL-N4QDA-D	Omron-door interlock switch
1 LM1			TE-door switch
4 LM1	40410402115	XCMN2115L1	TE-limit switch
1 PB3	40410900192	ZB5 AZ103	TE-blade tighten/loosen switch body
1 PB3	40410900101	ZB5 AD3	TE-blade tighten/loosen switch head
2 EMG2	40411600101	M22-PVT/K01	ETN-EMG stop-1b
4 ENC1/ENC2			Encoder-lifter motor
			External
2 KM2/KM5	40413100001	LAD9V6	TE-contactor interlock-2
2 KM2/KM5	40413100002	LAD9V2	TE-contactor interlock-1

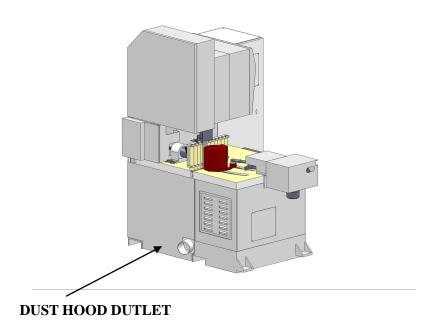


CONNECT DUST COLLECTION SYSTEM

This machine is equipped with a dust hood outlet. Located at right side of the machine. Apply an appropriate size of flexible hose to connect the dust hood outlet to a dust collection system. This outlet is 5" in diameter.

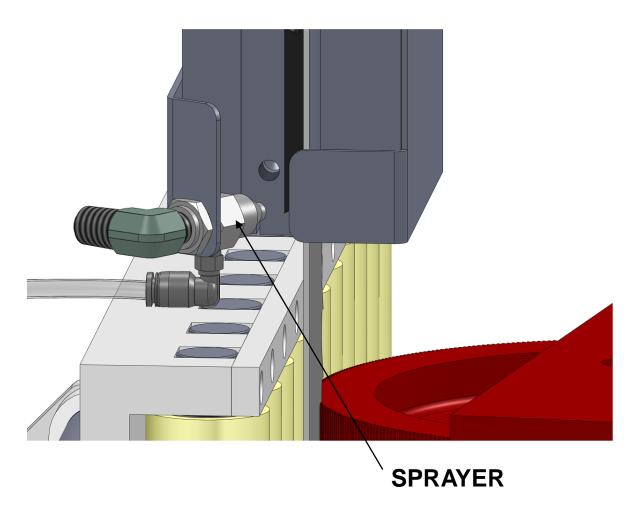
Be sure to start running the dust collection system before operating the band resaw.







BLADE COOLING SYSTEM

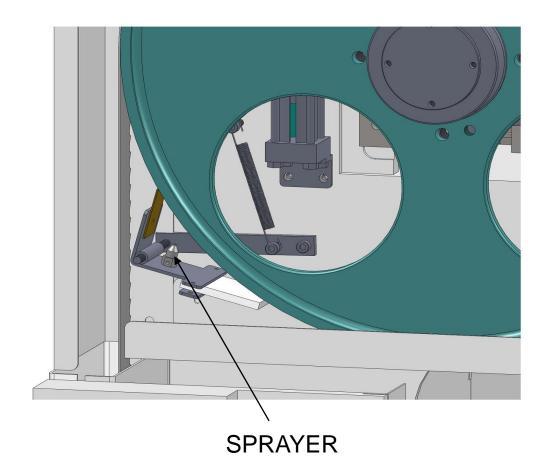


OIL TANK FOR BLADE COOLING SYSTEM





SAW WHEEL COOLING SYSTEM



OIL TANK FOR SAW WHEEL COOLING SYSTEM





OPENING WHEEL FRONT GUARD



WARNING!!

Don't open the wheel guard immediately after the blade stop switch or the emergency stop switch is pressed. Wait about 2-3 minutes until the sawblade has come to a complete stop before opening the guard.

- 1. Unlock the lock on both side of front guard.
- 2. Please open the guard with two hands.





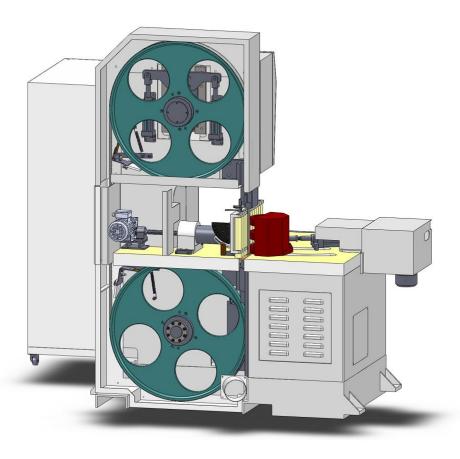
INSTALLING THE BLADE

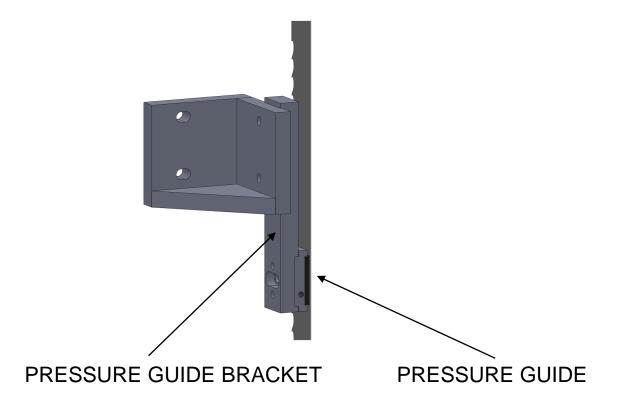
- 1. Open the wheel front guard.
- 2. Uncoil the blade.
- 3. Place the blade over the wheel and insert it into the gap of the blade guides.
- 4. When installing the blade, be sure the teeth pointing toward the running direction of the wheels.
- 5. Make sure the blade is between the blade guides and is in the center of wheel rim.
- 6. It is necessary to make blade tension adjustment before installing the blade





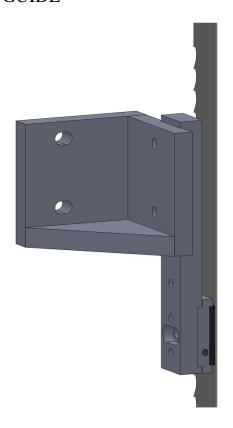
BLADE GUIDES







UPPER BLADE GUIDE



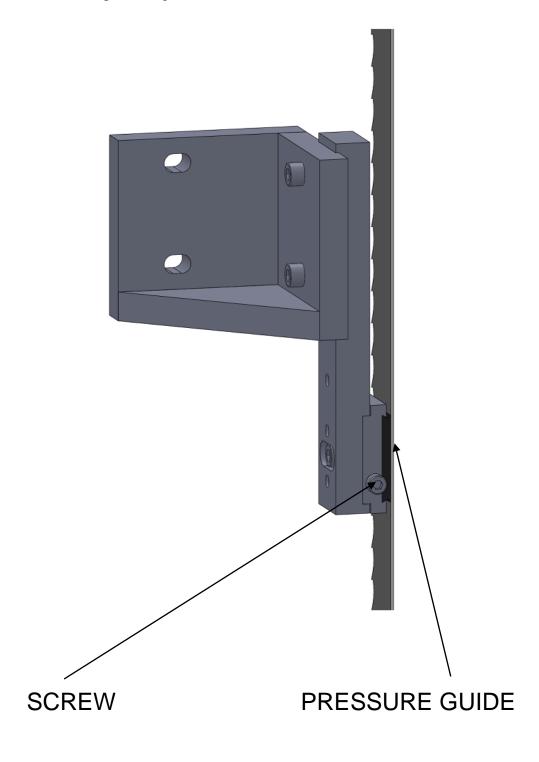
DOWN BLADE GUIDE





CHANGING THE PRESSURE GUIDE

- 1. Loosen the screw, than you could take the pressure guide out.
- 2. If pressure guide not really fit the pressure guide bracket, please use mill file or sanding paper to fit the pressure guide bracket.
- 3. Do not use the hammer to fit the pressure guide.



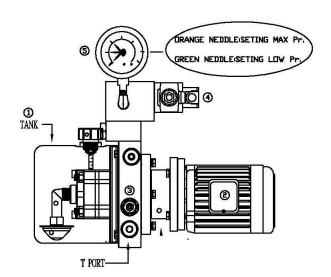


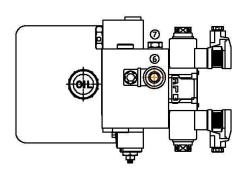
HYDRAULIC PUMP



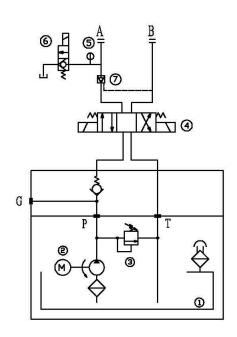








1	TANK	1,0 Litter
@	MOTOR	1/2HP4PB14 220/380V
3	RELIEF VALVE	RD-08E-20 (Relief Setting: 150 bar)
4	SOLENOID VALVE	DSG-01-3C5-A220-N1-50
(5)	PRESSURE GAUGE	3"-250-AB
6	SOLENOID VALVE	EP-08W-2A-01N-04-220RAC
7	CHECK VALVE	CK2B-T11-XCN





Pre-check Item:

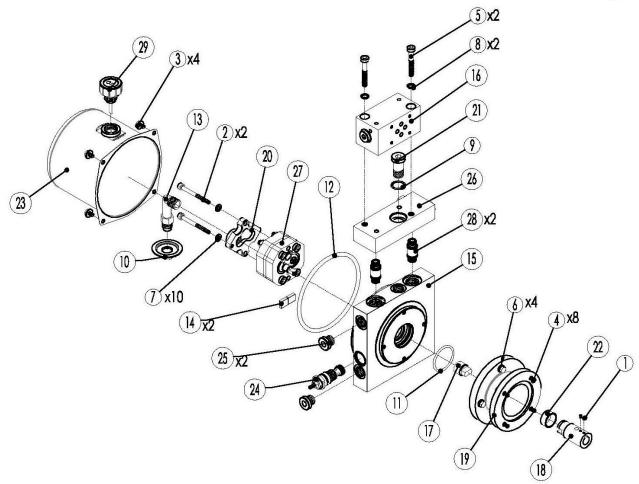
- 1. Please check oil level from the scale of the tank. For the oil type, we suggest ISO-va-32.
- 2. Please check the wiring to avoid damage of motor.

Check Item While Operating:

- 1. Please check the direction of motor rotation. If direction is wrong, the hydraulic pressure cannot establish.
- 2. After hydraulic pressure establish, Please check if every parts are not leaked.
- 3. The value of pressure should be 150kg/cm2. If users want to change the pressure, please adjust the valve (3)
- 4. For the saw wheel pressure, please adjust the orange cursor in the pressure gauge(5). If the pressure less than green cursor, hydraulic pump will rotate the pressure to the value of orange cursor.

Alarm	Description	Solution
No movement in hydraulic	The 3-phase of hydraulic motor is	Please change 2 phase of
pipe	incorrect.	main power.
	Motor broken	Please check motor.
	Oil level is low.	Please add some hydraulic
		oil.
Pump is too noisy	The filter is blocked or the level of	Clean the filter or add some more
	hydraulic tank is too low.	oil.
	The noise from the shaft.	Check if installation is good.
Pump keep rotating and	a) Check valve	Change a new parts.
cannot stop	b) Check valve	
	c) Check contact of hydraulic	
	gauge.	
Hydraulic cylinder cannot	No pressure in hydraulic system.	Check if motor is ok.
be clamped	Check if hydraulic valve (4) is	Change a new hydraulic valve.
	broken.	
Hydraulic cylinder cannot	Air in hydraulic cylinder.	
go forward and backward.	(a) Problem in valve (6)	
	(b) Problem in valve (4) or	
	cylinder is broken.	



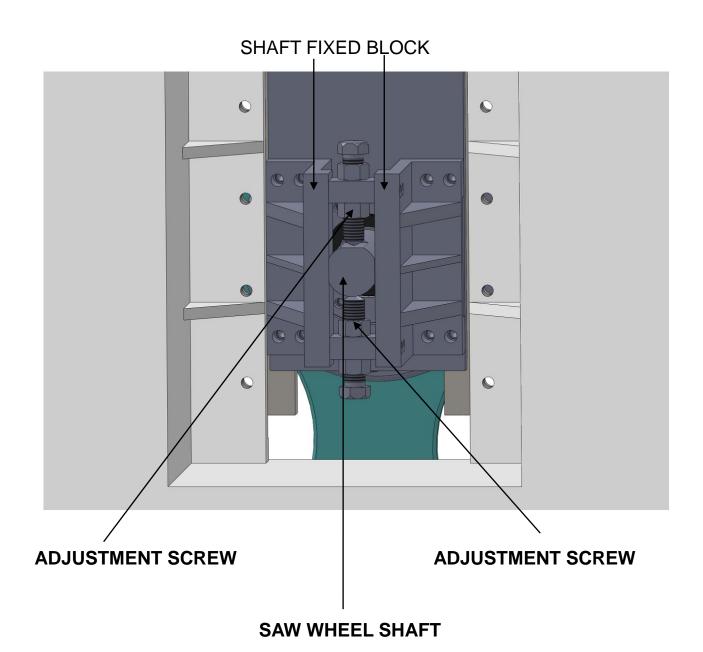


頁次[ITEMS]	品號(CODE NO.)	品名(DRAWING NAME)	PRODUCT DENOMINATION	數量(QTY)	備註(REMARK)
1	4DCM04E003	M4無頭內六角螺絲	SCREW	2	
2	4DCM06A001	有頭內六角螺絲	SOCKET HEAD CAP SCREW	2	
3	4DCM06B001	油箱固定螺絲	M6 SCREW	4	
4	4DCM06B005	轉接板專用外六角螺絲	M6 SCREWS	8	
5	4DCM08A003	內六角螺絲	M8 SCREW	2	
6	4DGA061215001	M6平華司	WASHER	4	
7	4DGB061115001	固定M6彈簧華司	SPRING WASHER	10	
8	4DGC081207001	M8安全華司	WASHER	2	
9	4DGC172413001	M16安全華司	WASHER	1	
10	4DHA001	3/8'錐形吸油濾網	SUCTION FILTER	1	
11	4KAG040BA001	NBR材質O型環	O-RING	1	
12	4KAP128BA001	NBR材質O型環	O-RING	1	
13	5JAA040	短型90度幫浦尼龍吸油管	SUCTION TUBE	1	
14	5MA001	磁鐵	MAGNET	2	
15	6EALAN002	Y形標準油路板	MANIFOLD	1	
16	6EHA1AAB015	組合件-積層式並聯油路板	MANIFOLD	1	
17	6GBA001	歐姆聯軸器	OLDHAM COUPLING	1	
18	6GBG001	交流馬達聯軸器B14-71	MUFF COUPLING	1	
19	6GCD001	AC交流馬達長嘴B14-71	BELL HOUSING	1	
20	6GDLAB001	PT3/8"反轉吸油蓋板	SUCTION COVER	1	
21	6GX22A38001	G 3/8"長塞頭	PLUG	1	
22	6GX24A11002	軸端套環内孔φ22.0	SHAFT SHEATH	1	
23	6KAM120RD001	油箱容量1.0公升	TANK	1	
24	7BZRD20002	特殊外型調壓閥	RELIEF VALVE	1	
25	7DBG03A001	組合件-G3/8"內六角塞頭	PLUG	2	
26	7EHZ2ZZC001	A TYPE 轉接板組合件	A-TYPE ADAPTER PLATE	1	
27	7GA05A01L001	P型泵浦0.5cc/rev一體齒輪	GEAR PUMP	1	
28	7GX16A39001	組合件-A型轉接板閱套	SLEEVE	2	
29	7JAA002	1/2"注油口濾清器附油尺25mm	FILLER BREATHER WITH DIPSTICK	1	



ADJUSTING BLADE TRACK

1.Please make sure the saw wheel shaft at the center of shaft fixed seat.

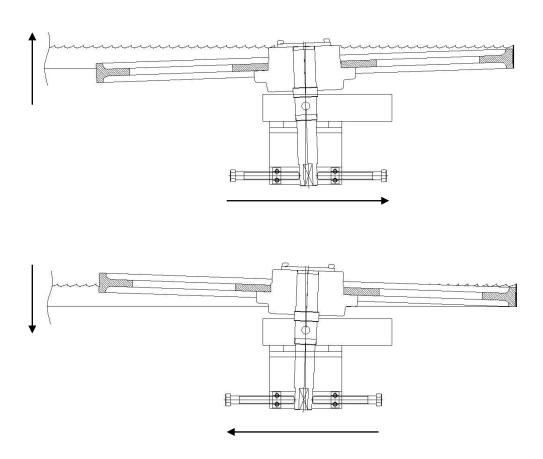


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ADJUSTING BLADE TRACK

If saw wheel shaft goes on right side, saw blade would go out of the saw wheel, as you could check below picture.



If saw wheel shaft goes on left side, saw blade would go in of the saw wheel, as you could check above picture.



MAINTENACE



CAUTION

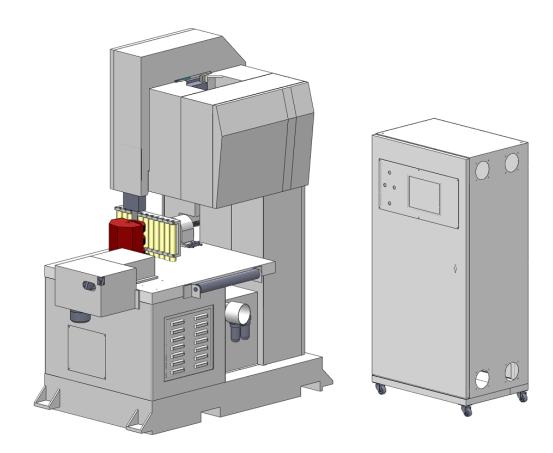
Before starting maintenance, disconnect the machine from power source.

- 1. Remove all chips and clean the machine everyday when job finished.
- 2. Keep blade sharp at all times.
- 3. Check if wheel brush works normally occasionally
- 4.Keep proper blade tension and tracking at all times.



LUBRICATIION

- 1. Apply a grease gun to shot grease to all grease nipples provided on the machine at a proper time.
- 2.All feed screws should be coated with grease at a proper time.



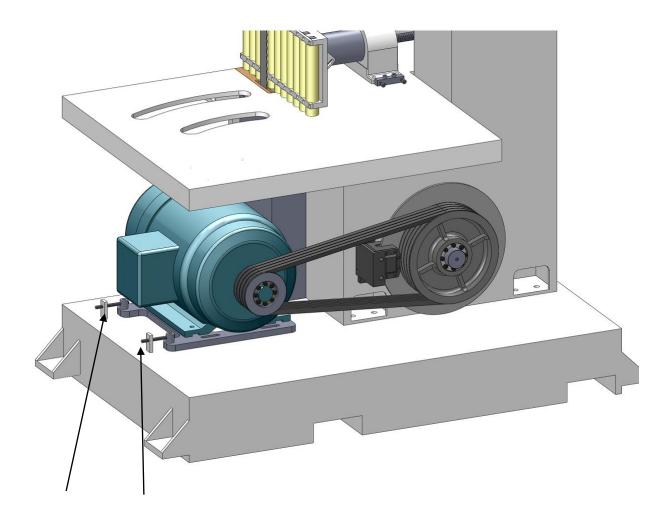


ADJUSTING SAW WHEEL BELT TENSION

After the machine has been operated for long period, the belt tension may Loosen gradualy. At this time you need to adjust the belt tension.

To do this, slightly loosen the 4 lock screws, then tighten the 2 belt tension adjustment screws until a proper belt tension is obtained.

Tighten the 4 lock screws after belt tension has been properly adjusted.



BELT TENSION ADJUSTMETN SCREW



TROUBLE SHOOTING (FOR MACHINE)



WARNING

To avoid in injury,tum power off and remove plug from power Source before making trouble shooting

PROBLEM	PROBABLE CAUSE	CORRECTION
Blade dose not tun in correct track	Blade tracking is not properly adjusted.	Adjust blade tracking
Blade slow down during cutting	 Belt tension is too loose Blade dulled Motor overload 	 Adjust belt tension Sharpen or replace blade Reduce cutting load
Blade breaking	 Too much tension on blade Too much friction on blade Wheel surface is not clean 	 Adjust blade tension Adjust blade guide Clean wheel surface



TROUBLE SHOOTING(FOR ELECTRIC)

PROBLEM	PROBABLE CAUSE	CORRECTION
Motor Overheat	Motor overload	Reduce feed speed
Motor can not reach full speed	 Low voltage Motor damaged 	1.Check power source voltage 2.Repair or replace motor
Motor can not develop full power	 Circuit overload Wire size too small or circuit too long 	 Use an independent circuit Increase wire size or reduce wire length.

C035 PART LIST M016 **VBR-300** 40183 (H141) 40183 M017 (H140) SPECIFICATION Q'ty Part NO. DESCRIPTION C034 MACHINE BASE HTV-800-046 1 C035 TABLE HTV-800-088 1 H140 INFEED ROLLER SHAFT BH-900-126 1 H141 INFEED ROLLER HB-900-121 1 M013 MACHINE COVER HTV-800-084 1 M014 MACHINE COVER HTV-800-085 2 M015 MACHINE COVER HTV-800-086 1 M016 INFEED ROLLER BRACKET(RIGHT) HTV-800-186 1 M017 INFEED ROLLER BRACKET(LEFT) HTV-800-187 1 40183 BEARING 6205 2

C034

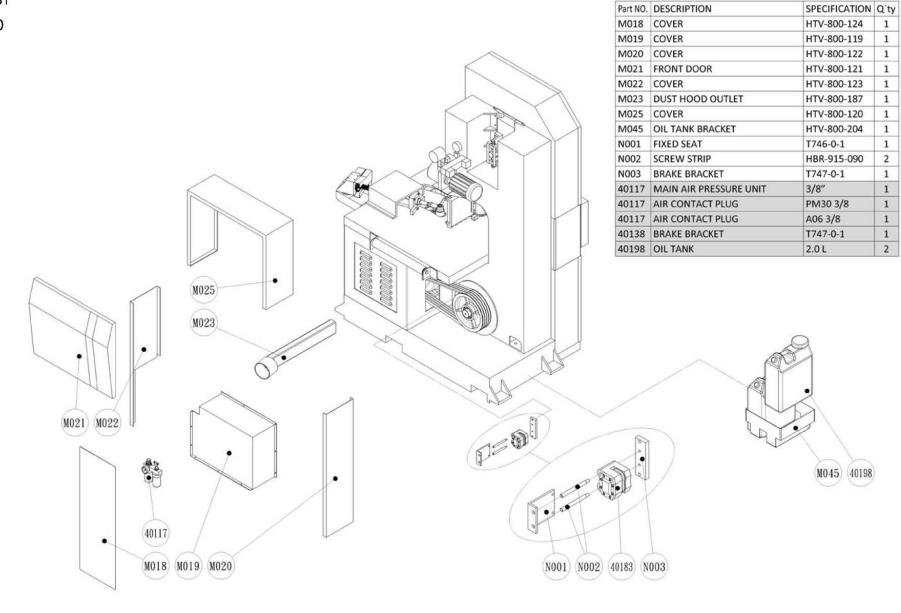
(M013)

Spare Parts

KENTWOOD VERTICAL BAND SAW

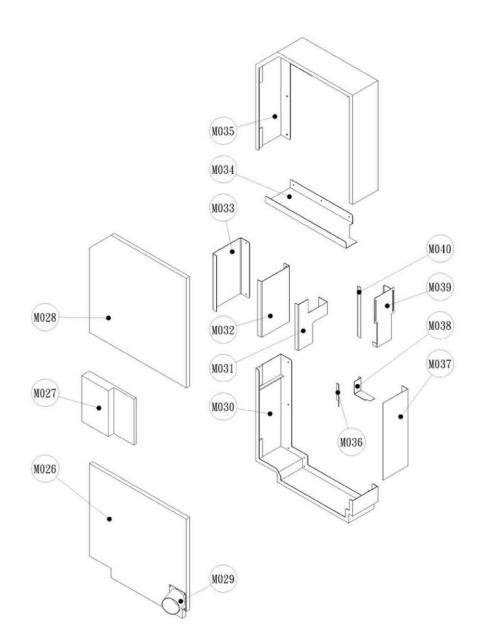
PART LIST

VBR-300

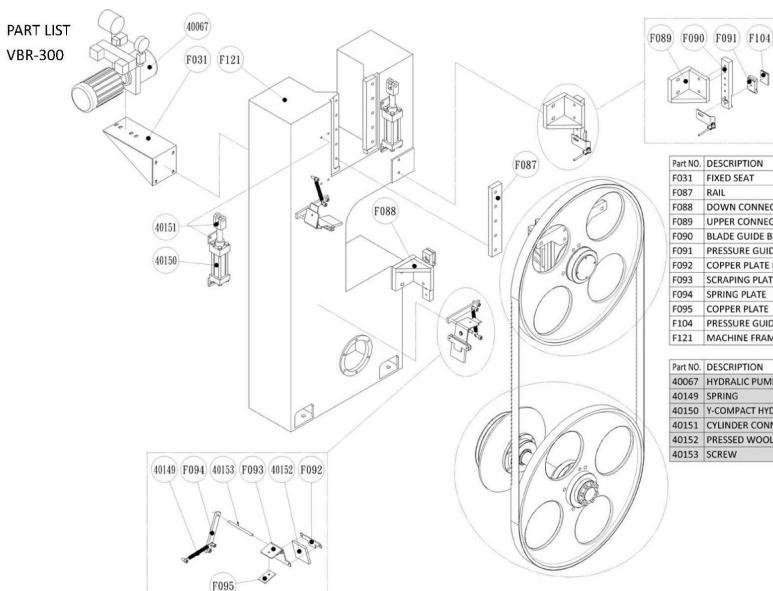


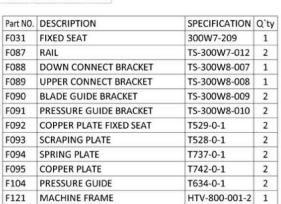
PART LIST





Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
M026	DOWN WHEEL DOOR	HTV-800-095	1
M027	MIDDLE DOOR	HTV-800-157	1
M028	UPPER WHEEL DOOR	HTV-800-096	1
M029	DUST HOOD OUTLET	300W7-048-1	1
M030	DOWN WHEEL COVER	HTV-800-091	1
M031	POSITION MOROT COVER	HTV-800-156	1
M032	COVER	HTV-800-094	1
M033	COVER	HTV-800-093	1
M034	UPPER WHEEL COVER	HTV-800-092	1
M035	UPPER WHEEL COVER	HTV-800-090	1
M036	DUST HOOD COVER	HTV-800-159	1
M037	UPPER WHEEL COVER	HTV-800-163	1
M038	DUST HOOD COVER	HTV-800-158	1
M039	SAW BLADE SAFETY COVER	HTV-800-161	1
M040	SAW BLAPE SAFETY COVER	HTV-800-162	1

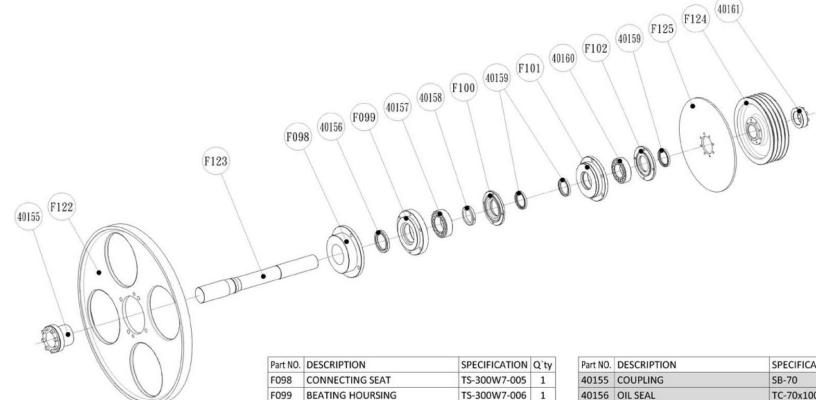




Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
40067	HYDRALIC PUMP	1/2HP	1
40149	SPRING		1
40150	Y-COMPACT HYDRAULIC CYLINDERS	40x80L	2
40151	CYLINDER CONNECTOR	M20-Y	2
40152	PRESSED WOOL PAD		1
40153	SCREW	M10x150L	1

PART LIST

VBR-300



TS-300W7-007

TS-300W7-008

TS-300W7-009

HBR-400X3W8-072-2

HTV-800-008

HTV-800-018

HTV-800-135

1

1

1

1

1

1

Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
40155	COUPLING	SB-70	1
40156	OIL SEAL	TC-70x100x10	1
40157	BEARING	22213 K	1
40158	BEARINGN NUT	AN-13 M65	1
40159	OIL SEAL	TC-60x80x8	3
40160	BEARING	22212	1
40161	COUPLING	SA-60	1

F100

F101

F102

F122

F123

F125

BEARING NUT

FIXED SEAT NUT

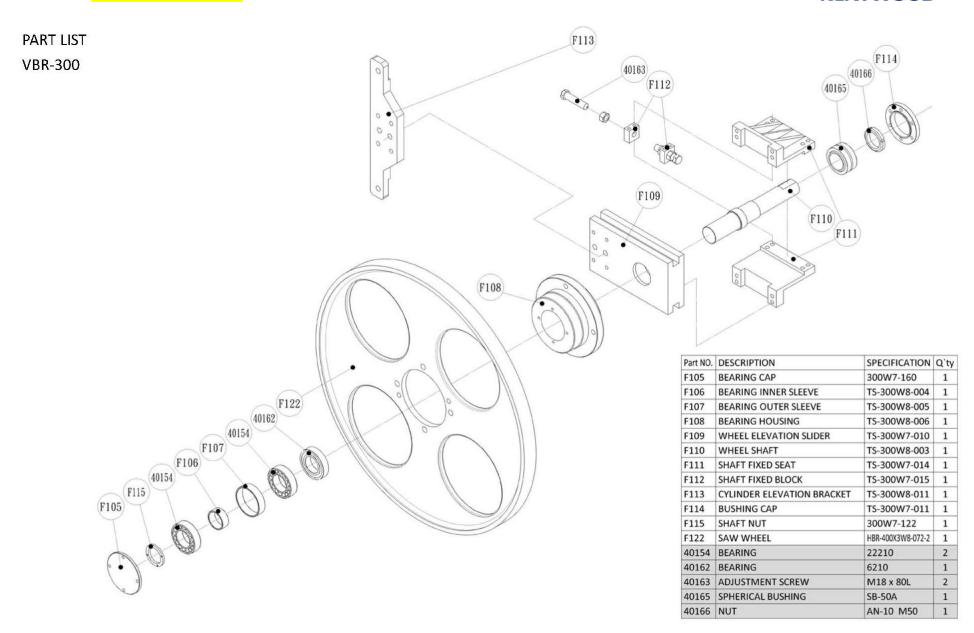
WHEEL SPINDLE

SAW WHEEL

BRAKE DISC

BEATING HOURSING

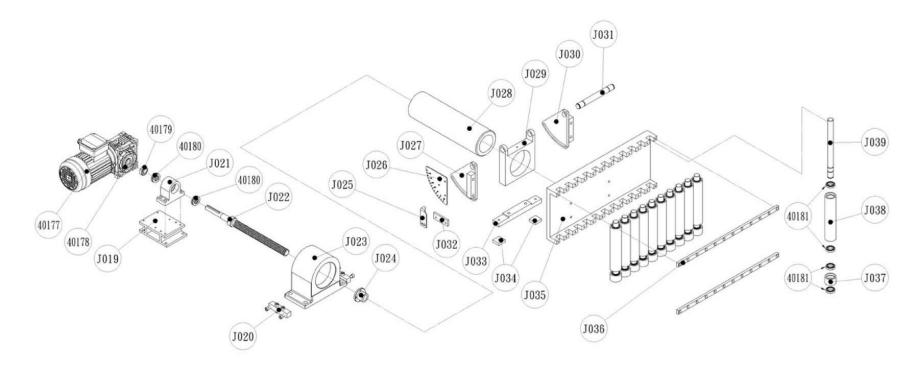
SAW WHEEL PULLEY



PART LIST VBR-300

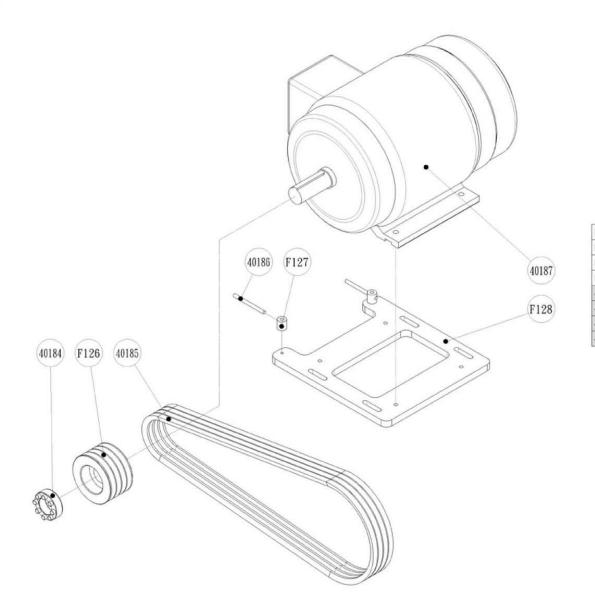
Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
J019	POSITION MOTOR FIXED SEAT	HTV-800-062	1
J020	ADJUSTMENT BLOCK	HTV-800-182	2
J021	POSITION SCREW FIXDE SEAT	HTV-800-063	1
J022	POSITION SCREW	HTV-800-064	1
J023	FENCE MOVEMENT FIXED	HTV-800-048	1
J024	POSITION NUT	HTV-800-065	1
J025	TILTING GUIDE	HTV-800-183	1
J026	ANGLE GAUGE	HTV-800-154	1
J027	TILING BRACLEU	HTV-800-055	1
J028	FENCE MOVEMENT SHAFT	HTV-800-066	1
J029	FLANGE FIXED SEAT	HTV-800-050	1
J030	TILTING BRACKET	HTV-800-055	1
J031	TILTING SHAFT	HTV-800-068	1

Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
J032	TILTING GUIDE	HTV-800-184	1
J033	FENCE FIXED SEAT	HTV-800-053	1
J034	FENCE FIXED BLOCK	HTV-800-054	2
J035	FENCE	HTV-800-057	1
J036	FENCE ROUER BRACKET	HTV-800-067	2
J037	DOWN FENCE ROLLER	HTV-800-060	11
J038	UPPER FENCE ROLLER	HTV-800-059	11
J039	FENCE ROLLER SHAFT	HTV-800-058	11
40177	MOTOR	SW040	1
40178	GEAR REPUCER	0.25HP	1
40179	NUT	YSR-M20xP1.0	1
40180	THRUST BEARING	51104	2
40181	BEARING	6804	44



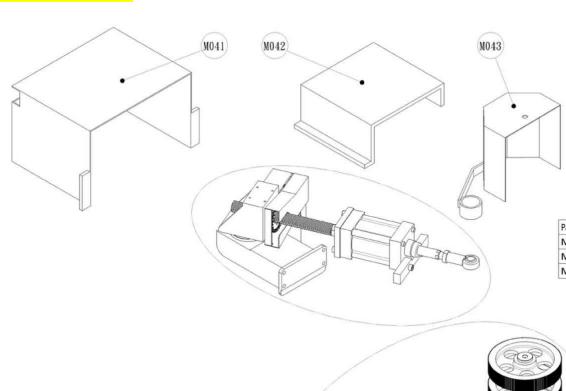
PART LIST



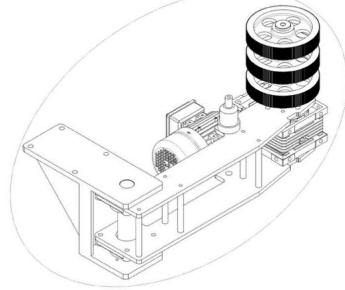


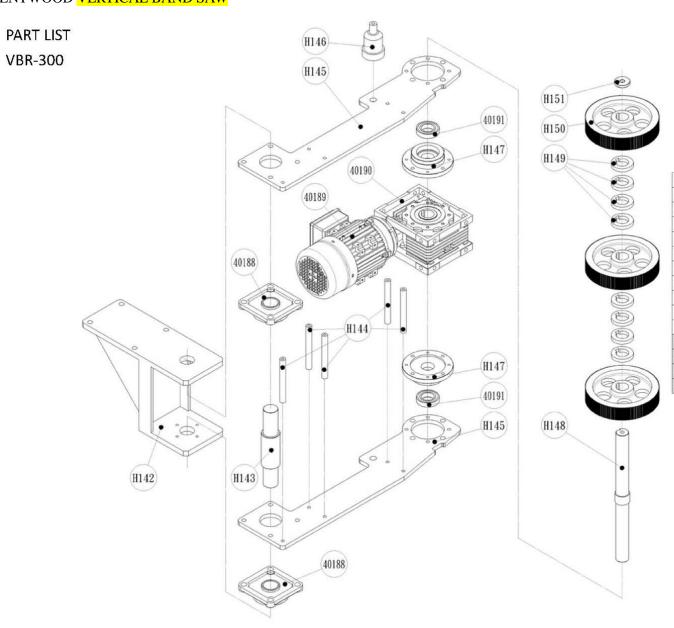
Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
F126	MOTOR PULLEY	HTV-800-019	1
F127	ADJUSTMENT BLOCK	HBR-300W7-190-1	2
F128	MOTOR PLATE	HTV-800-089	1
40184	COUPLING	SA-48	1
40185	MOTOR BLET	B76	4
40186	SCREW STRIP	3/8" 110L	2
40187	SAW WHEEL MOTOR	30HP	1

PART LIST VBR-300

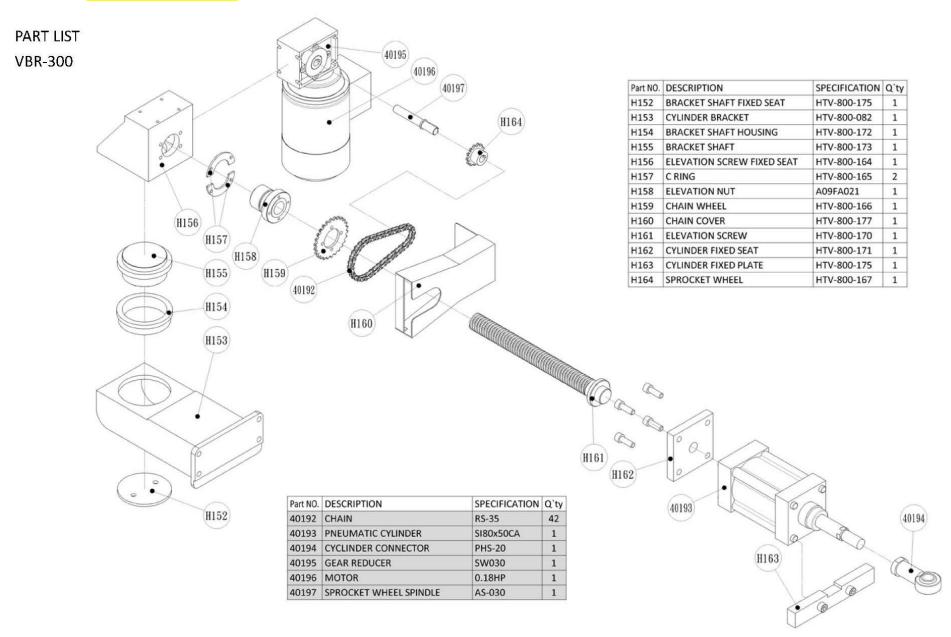


Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
M041	COVER	HTV-800-185	1
M042	RETURN TABLE	HTV-800-144	1
M043	FEEDING ROLLER COVER	HTV-800-133	1





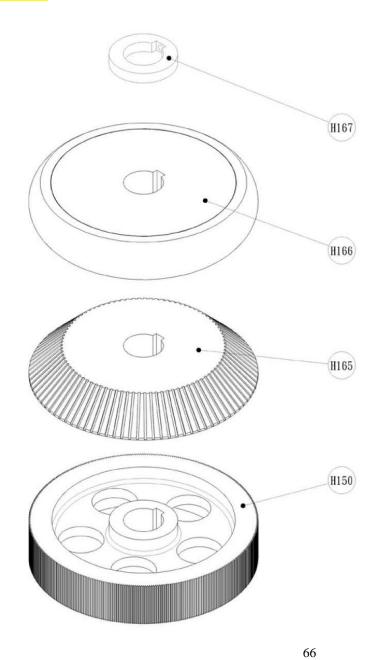
art NO.	DESCRIPTION	SPECIFICATION	Q'ty
H142	FEEDING ROLLER FIXED SEAT	HTV-800-069	1
1143	SHAFT	HTV-800-071	1
1144	BRACKET SPACING SHAFT	HTV-800-072	5
1145	FEEDING ROLLER	HTV-800-070	2
1146	CYLINDER MOVEMENT SHAFT	HTV-800-080	1
1147	BEARING HOUSING	HTV-800-073	2
1148	FEEDING ROLLER SHAFT	HTV-800-077	1
1149	FEEDING ROLLER GASKET	HTV-800-078	8
1150	FEEDING ROLLER	HTV-800-079	3
1151	WASHER	HTV-800-076	1
10188	BEARING	UCF208	2
10189	MOTOR	1HP	1
10190	GEAR REPUCER	SW075	1
10191	BEARING	6007	2





PART LIST

VBR-300



Part NO.	DESCRIPTION	SPECIFICATION	Q'ty
H150	FEEDING ROLLER	HTV-800-079	3
H165	FEEDING ROLLER	HTV-800-152	2
H166	FEEDING ROLLER	HTV-800-152-1	1
H167	FEEDING ROLLER GASKET	HTV-800-078-1	2