## AIDA GREATER ASIA

AIDA

# After Lock Down Presses Check List



After Lock Down Presses Check List

We understood that due to COVID-19 Pandemic, businesses around the world are forced to shutdown temporarily.

Considering that after a long period of shutdown, re-operating the machine under unknown conditions may cause unexpected failures, we hereby refer to the following precautions:

- 1. Carefully check the surrounding environment to ensure that the machine is in a normal and safe condition.
- 2. Allow sufficient circulation lubrication time
- 3. Visually inspect whether the oil and grease are hardened
- 4. Is there any rust caused by no oil issue?
- Check the battery condition of each power supply device (battery depletion could be expected)
- 6. To back up Important programs/data in USB in advance
- Carefully check the position of the machine body, feeder,
   TF device and other equipment before the action.

A list of potential Malfunction issues and its appropriate solution is enclosed. In case you have encountered any other issues, please contact us immediately at <u>enquiry@aida.com.sg</u>.

AIDA is always here for you.



#### After Lock Down Presses Check List - ISSUE

NI		SUGGESTED ACTIVITY TO	
No.	ISSUE	AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
1	AIR LEAKAGE FROM AIR DRIVEN CYLINDERS DUE TO HARDENING OF SEAL / O-RINGS	For automatic lubrication supply cylinders: After initial power ON, allow press machine lub. system to lubricate air cylinder seals by leaving it idle (At lubrication ON) for 30 Minutes.	In case of any abnormal air leakage, Contact AIDA service.
		For Manual lubrication supply Cylinders (Hand pump type lubrication): Do proper lubrication of cylinder seals by pumping manual pump prior of initial power ON / air supply ON.	In case of any abnormal air leakage, Contact AIDA service.
		For NC1 Model press: Pour 30-40 ML of Lubrication oil (VG 32) in the oil inlet provided at top of the Balancer cylinders prior of machine air / power ON.	In case of any abnormal air leakage, Contact AIDA service.
2	MOISTURE / RUST CONTAMINATION IN MAIN AIR SUPPLY	ON machine main air supply, remove main air supply hose from the inlet port and drain out the incoming air for few minutes until getting clean & dry air. Then connect back the air inlet	In case of Dirty / Contaminated / Too moist air, Do not connect air supply hose to the press machine inlet. Correct the air supply quality prior of air hose connection. Contaminated air supply may damage to the internal operating components of press machine.
3	DRYING OF SLIDE GIBS	For Grease Lubrication type press machines: After initial power ON, turn ON & OFF the machine control power at least 15 times after a regular interval of 30 seconds. This will make run the grease pump several times and will provide sufficient grease to the Slide Gibs . Then free run testing of press machine for 1 Hour and monitor for any rise in slide gib temperature.	In case of any temperature rise at GIB area, stop the press operation and contact AIDA service.



### After Lock Down Presses Check List - ISSUE

No.	ISSUE	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
	DRYING OF BUSH AND BEARINGS	machine idle (At lubrication	In case of any temperature rise or any abnormal noise at Bushing / Bearings area, stop the press operation and contact AIDA service.
4		I his will make run the grease	In case of any temperature rise or any abnormal noise at Bushing / Bearings area, stop the press operation and contact AIDA service.
5	BEARINGS / SLIDING SURFACE/ LM GUIDE /	Prior to taking press machine into operation, make sure to do grease top up at all	In case of any abnormal temperature rise / abnormal noise from any area, stop the press machine operation and contact AIDA service.



After Lock Down Presses Check List - ISSUE

No.	ISSUE	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST	
	DROPPED HOLP HYDRAULIC OIL PRESSURE	After turning ON the main air supply, the HOLP should get charge up automatically.	If problem persisted, contact AIDA service.	
6		* In case the HOLP doesn't charge up to the specified pressure and pump doesn't stops and keeps pumping continuously, follow the procedure for Oil top up & Air bleeding as described in the instruction manual.		
7	LUBRICATION OIL LEVEL	Prior to machine power ON, check the oil level for all oil tanks / reservoirs. In case of low oil level, top up the required oil amount, then power ON the machine and check if there is any oil leakage in the circuit.	In case of any oil leakage or further oil level drop at oil tank, contact AIDA service.	
8	STRUCKING OF FLYWHEEL BRAKES	After prolonged non-operation of the press machine, the flywheel brake of the press machine flywheel may get stucked /engaged at one point.	In case of stucked flywheel brake, disengage it manually and lubricate its plunger by applying little amount of oil.	
		*Before starting main motor, ensure that flywheel brake is operating properly and is in disengaged position.	If problem persisted, contact AIDA service	

• CONDUCT OPEN CHECK ON THE CONTROL PANELS AND DO A PHYSICAL CHECK OF MACHINES AGAINST RODENTS.

ELECTRICAL RELATED POINTS TO BE CHECKED AFTER LOCKDOWN



NO.	ISSUE	POSSIBLE FAULT OCCUR AT DISPLAY	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
1	PLC BATTERY FAILURE	PLC Normal Output	A wrench symbol is displayed on the operator interface terminal and the message PLC BATTERY FAILURE is displayed on the DIAGNOSIS screen. It indicates that the (PLC) data back-up battery is almost depleted. OLD battery need to be replaced by new one. Energize the PLC control power source for at least 5 minutes before replacing the battery with a new one. This supplies power to the capacitor that	In case of PLC abnormal behaviour Or Output not getting on,
		PLC Battery Failure	maintains the existing data while the battery is being changed.	
2	( HIVII ) DATTEDV	*	The "RUN" LED located on the left side of the operator interface terminal has turned red or orange (normally green), it indicates that the Display memory backup battery has died. In this case, replace the battery with a new	
		Display Not Able To Power On Or Get Energized	one. Energize the control power source for at least 5 minutes before replacing the battery with a new one.	In case of not getting on after battery change or data lost, Contact AIDA
			Then remove the used battery and load a new battery within 5 minutes after removing the used one. If the operator interface terminal is left without a battery for longer than 5 minutes, the data stored in the memory will be lost.	service.



NO.	ISSUE	POSSIBLE FAULT OCCUR AT DISPLAY	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
3	OR POWER SUPPLY	Function Monitor Anti- repeat Timing Switch Timing Switch Brake Monitor Timing Switch Motion Monitor PC Relay Clutch & Brake Fault Timing Switch Normal Signal Function Monitor Anti- repeat Relay Function Monitor Input Timing Function Monitor Anti-	<ul> <li>Because of the lock down period, it is possible the power supply capacity goes week, please check:</li> <li>Power supply (both 5VDC&amp;24VDC) of the TSW .</li> <li>Double check the locking of all connectors &amp; all relays of PSU relay card.</li> <li>Otherwise Output signals from the proximity switch, relays and timing switch of the function monitor are faulty.</li> </ul>	Higher chances of power supply failure or week memory of TWS controller for saving the encoder dats (tends to change in the crank angle) In this case, need to change the TSW power supply or TSW itself. Contact AIDA service.
	CLUTCH &	repeat Relay Clutch & Brake		
4	SOLENOID VALVE NOT	Sol.V.Monitor CL&BR Control Fault CL&BR Output Fault	Perform the <b>"Clutch brake solenoid valve function test "</b> as per of the procedure mention in the manual book .	If problem persisted, contact AIDA service.
5	INVERTER OR MAIN MOTOR	Inverter	It is possible the capacitor (regenerative system) of the inverter or drive unit may get discharge completely .	ġ.
		Main Motor Thermal Trip	After initial power On and after confirming the lubrication & other mechanical check up, turn on the main motor at lowest SPM for about min 15 minutes. Then at full SPM for another 10 minutes. To confirm the flywheel brake is working OK.	If problem persisted, Contact AIDA service.



NO.	ISSUE	POSSIBLE FAULT OCCUR AT DISPLAY	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
6	U.P.S. ALARM (CHECK THE UPS IN THE CONTROL ENCLOSURE)	UPS Battery Fault Converter Under Voltage Has Been Detected	U.P.S. fault signal may be detected. Because of the Drop in the UPS output voltage or may be reduction in battery power.	If the error cannot be reset, change the battery with a new one or re- charge it.
		Magnetic Fuse Blown Out	After Initial power on, keep the machine in idle condition for about 30 minutes. Check the LED on the front panel of the UPS and reset the error.	Or replace the UPS unit with a new one referring to the Instruction Manual for the UPS.
7	TRANSFER / DESTACK FEEDER: FAILURE ( VOLTAGE DROPS ) OF SERVO DRIVES / MP2200 PLC / DISPLAY / DC BATTERIES OR POWER SUPPLY.	Servo Motor Encoder Battery Alarm	After prolonged non operation of the press machine, it's highly possible the battery voltage goes down.	If battery to be replaced, encoder values
		MP2200 Controller Battery Alarm	After initial the control power ON, don't operate the machine immediately Keen machine idle for min_30	may be disturbed. Reattaching or
		PLC Battery Voltage Has Dropped (Fault)	minutes. Check the voltages of the battery after 30 minutes with an multimeter, only start the operation if up to their ratings. Otherwise need to change the battery with new one .	home position setting required. In this case, Contact AIDA service.
8	TRANSFER FEEDER : SYNCHRONIZATION LAG	Bring The Feed Bars On The Locus	operation of the press machine. Required physical measurement & confirmation of the feedbars with the values displayed on the TSS/TCS display. If any variation found, correction	If problem
		Bring The Feed Bars To The Outside Of Press Slide Interference		persisted, the recalibration of the feedbars required. Contact AIDA
		Bring The Feed Bars At The Take Out Position		service immediately.



	ISSUE	POSSIBLE FAULT OCCUR AT DISPLAY	SUGGESTED ACTIVITY TO AVOID / RECTIFY PROBLEM	ACTION PLAN IF PROBLEM PERSIST
9	MPC MALFUNCTION OR FAILURE	Initial / E-stop Button Release CPU 5VDC Fault CPU 24VDC Failure MPC Controller Normal Output Encoder Converter Breakdown MPC-PLC Communication Failure MPC CPU Stop MPC Dual CPU	Inconsistency has been detected in the press controller's internal dual processing. Activation of the controller has not been confirmed. Check the communication cable connection, or check the controller power supply. Check the BDC angle of the machine. If OK, check all the emergency switches of the machines. If still the problem persisted, take off the machine main power & takeout all the MPC connectors. Insert back again, turn ON the	PERSIST If the problem persisted, need to change the MPC unit. Contact AIDA service.
		companioon	machine power.	

