CLEANING AND PREVENTIVE MAINTENANCE

CLEANING THE MACHINE

To achieve the best performance from your machine, it should always be kept clean and well maintained.



Electrical Hazard!

Before cleaning, turn off and disconnect the power.

The cleaning methods, detergents used, and frequency of cleaning must be defined by the machine owner and depends on the type of product being processed. In those cases where the product being packaged deteriorates quickly, effective disinfection methods must be used.

If unsure about the cleaning frequency to use, start by thoroughly cleaning the machine once a shift.

Evaluate the effectiveness of this cleaning cycle and then adjust accordingly.

Use an air nozzle with low pressure to blow off any loose product which has accumulated on the machine during production. Protect your eyes by using a pair of safety glasses.

Remove the forming tube; it is always best to clean it when it is taken off rather than leaving it on the machine.

When running laminate film that uses the horizontal crimp sealing jaws, look to see if the sealing jaws are dirty. If they are, remove the knife first and then clean the front faces of the sealing jaws with a light cloth and water. It is best to use a pair of heat resistant gloves when removing the knife and cleaning the jaws.



Sealing jaws and knife are hot. Wear heat resistant gloves and proper Personal Protective Equipment (PPE).

All stainless steel guards can be cleaned with hot soapy water and then wiped dry.

Wipe down all of the film rollers and dry off.

Wipe down all guide bars, connecting rods, air cylinder rods, etc. Refit the forming tube (if removed) and install the film roll.

Re-thread the film through the machine so it is ready to run. Refer to the threading diagram.

Wipe down all guides and slides with mineral oil. Wipe down all guide bars, connecting rods, slides, air cylinder rods, etc.

Carrying out regular machine maintenance is the key to optimal machine performance!

Use only FDA approved lubricants! (See page 3)

During normal operation, the machine is subject to vibrations and temperature variations which may cause screws, bolts, nuts, or clamps to loosen. These must be checked and tightened at least every six months.

NOTE: When the knife fails to make a clean cut, it is time to clean or change the knife.



Prior to starting any maintenance activity, the energy sources to the machine must be isolated and locked-out.

If unsure about the frequency interval needed for machine maintenance within your facility and the effect of your typical ambient conditions (temperature, humidity, dust levels, vibrations, etc.), begin by performing the following actions biweekly (except where noted as daily, weekly, or monthly). Monitor conditions of machine and adjust maintenance frequency as needed.



Check the safety devices every shift!

Check safety switches/magnets for condition/security and function. Same for E-stop. With the main power on and faults reset, open and close the doors and verify the air is dumped when the guards open



DEFINITIONS

Term	Expanded Term	Description								
HMI	Human Machine Interface	Main or primary operator station								
PLC	Programmable Logic Controller	The heart of the machine control system containing a the logic, parameters, recipes, and set points needed for the machine to function.								
Registered Film	Registered Film	Pre-printed film which must be sealed and cut at the correct point to make a good package (see Registration Mark).								
Registration Mark	Registration Mark	Markings on the film defining the beginning or ending of each product pitch usually associated with preprinted graphics or images on the film (see Registered Film).								
Registration PE	Registration Photo Eye	Photoelectric sensor that detects registration marks on the film. (see Registered Film) (see Registration Mark)								
Resistance	Resistance, units: Ohms - Ω Kilo-Ohms - $K\Omega$ Mega-Ohms - $M\Omega$	A measurable property of material representing the conductivity of the material. A good conductor of electricity has a low resistance; a bad conductor (insulator) has a high resistance.								
RTD	Resistive Temperature Detector	A temperature sensing device: the resistance of the sensing element changes as its temperature changes. This resistance value is converted to an accurate temperature reading.								





VFFS Packaging Equipment Maintenance Worksheet

COMPANY NAME:

DATE

RESPONSIBLE PERSON:

PREVENTIVE MAIN	TENANCE SCHEDULE																												
	DAY	1	2	3	4 8	5	6 7	8	9	10	11	12	13 1	4 1	5 1	6 17	18	19	20	21	22	23 2	24 2	25 2	26 2	27 28	29	30	31
WEEK					•	•	-								•							•			•	•		•	
	MONTH																												
DAILY	Checkcleanliness of the sealing bars																												
	Check the cleanliness of the cutting																												
	knives and anvils																												
	Check and discharge the sludge																												
	container of the pressure regulator					_																							
	Checkcleanliness of the space inside																												
	packaging machine and filler					_									_									_					
	Checkcleanliness of the optical probes																												
WEEKLY	Grease and lubricate all sliding surfaces																												
	inside the machine																												
	Check rotation of the film rollers																												
MONTHLY	Inspectall moving parts, tighten all bolts																												
	and nuts and check cutting and slitter knives																												
EVERY 3 MONTHS	Lubricate all rollers bearings (LV2-3	last check date:												next check date:															
	grease orbearing oil)																												
	Lubricate all sliding surfaces	last checkdate:									next checkdate:																		
	Check tension and lubricate all rollers	la st c he c k d a te:										next checkdate:																	
EVEDV & MONTHS	Checkoil fillings in transmissions (in	last check date:									next check date:																		
	case they do not have lifelong fillings)																												
	Checkcondition of sealing jaws	last checkdate:									next c he c k d a te :																		
	Clean the entire line from dust and	la st	last check date:								next check date:												_						
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PREVENTIVE MAIN	PREVENTIVE MAINTENANCE CHECKLIST									
IIEM	TASK	COMPLETE	REMARKS							
Squeegee System (if equipped)	Checkcondition/security and clean/wipe with oily cloth									
Drive Units	Check security and movement									
Sha fts	Check security and clean/wipe with oily cloth									
Be lts	Checkcondition and tension – replace if signs of excessive wear									
Be lt guides	Checkcondition/security and checksprings									
Drive pulleys	Checkcondition/security									
Air c ylinde rs	Checkcondition/security and for any airleaks									
Va c uum	Vacuum belts are easily contaminated. Check and clean often.									
Knife	Remove the knife before cleaning jaw faces. Check for wear and build-up and clean/replace if necessary. Clean knife thoroughly.									
Servo motors	Checkcondition/security									
Couplings	Check screws for security									
Link arms	Checkcondition/security									
Grease zerk fittings	Clean before and after lubricating									
Heatercables and plugs	Checkcondition/security									
RID cables and plugs	Checkcondition/security									
Rollers, all	Check that all rollers turn freely and are clean									
Rack and pinon	Wipe clean and lightly oil									
Film roll brake	Checkcondition/security									
Safety Checks	Check safety switches/magnets for condition/security and function. Same for Estop. With the main power on and faults reset, open and close the doors and verify the air is dumped when the guards open.									

CONTACT

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Preventive Maintenance & Service Plans:	



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This information is for planning purposes only. Consult your owner's manual formachine-specific instructions and safety warnings.