

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE			
Department: Production	SOP No.:		
Title: Cleaning of 45 station Compression Machine (Cadpress D Tooling)	Effective Date:		
Supersedes: Nil	Review Date:		
Issue Date:	Page No.:		

1.0 OBJECTIVE:

To lay down a procedure for Cleaning of 45 station Compression Machine (Cadpress D Tooling).

2.0 SCOPE:

This procedure is applicable for cleaning of 45 station Compression Machine (Cadpress D Tooling) located in compression area in

3.0 RESPONSIBILITY:

Production: Technical Associate/Officer /Executive/Assistant Manager.

Head Production: To ensure execution & compliance.

Head QA: To ensure the compliance.

4.0 PROCEDURE:

4.1 Cleaning TYPE A:

Change over from one batch to next batch of the same product, same Potency and of similar product with ascending potency.

- 4.1.1 Release the hydraulic pressure and remove the tablets from the bottom parts of the machine and clean it with the help of lint free cloth.
- 4.1.2 First check the hopper emptiness and filling chute.
- 4.1.3 Switch OFF the main electric supply to the machine.
- 4.1.4 Ensure that no compressed tablet remains in de-duster unit.
- 4.1.5 Remove "TO BE CLEANED" label and affix "UNDER CLEANING" label to the machine as per SOP.
- 4.1.6 Dismantle carefully the following parts: Powder level sensor, Hopper,
 - Force feeder, Turret guard, Tablet collecting chutes.

 Remove the powder from the above parts and machine
- 4.1.7 Remove the powder from the above parts and machine with the help of dust collector hose or vacuum cleaner and clean the all above thoroughly with dry lint free cloth.



PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE			
Department: Production SOP No.:			
Title: Cleaning of 45 station Compression Machine (Cadpress D Tooling)	Effective Date:		
Supersedes: Nil	Review Date:		
Issue Date:	Page No.:		

- 4.1.8 Clean upper punches one by one along with dust cap with dry lint free cloth.
- 4.1.9 After completion of cleaning process, get it checked by production officer.

 Remove the "UNDER CLEANING" label and affix "CLEANED" label to the

 Machine and Enter the cleaning time in equipment sequential log as per SOP.

4.2 TYPE B:

This is a cleaning procedure for Change over of product with different actives / color / descending potency or after maintenance of contact parts.

- 4.2.1 First check the hopper emptiness and filling chute.
- 4.2.2 Release the hydraulic pressure from the pressure rollers.
- 4.2.3 Replace the "TO BE CLEANED" status label with "UNDER CLEANING" status label with date and Signature of the production officer.
- 4.2.4 Switch OFF the main electric supply to the machine.
- 4.2.5 Unscrew the panel covering on the front side and the side covers and clean with IPA soaked cloth and dry it with dry lint free cloth.
- 4.2.6 Dry clean the machine control panel from outside and inside using dust collector hose or vacuum cleaner and with dry lint free cloth. Clean beneath the compression machine and fit the panel covering back in place.
- 4.2.7 Dismantle the powder level sensors from hopper view glasses. butter fly valve, acrylic guard, upper punch guards, remove the Y-chute, hopper, hopper to feeder connector, force feeder, discharge chute, weight adjustment assembly, suction nozzles, the scrapper blade, ejection plate, re-circulating blade, feeder gaskets & feeder cover.
- 4.2.8 Transfer all the change parts like Y-chute, hopper, feeder connector, force feeder ,discharge chute, suction nozzle, scrapper blade ,ejection plate, re-circulating blade, acrylic guards, punch guards, lower cam guards etc to the washing area with the change parts trolley, affix "TO BE CLEANED" Label properly.
- 4.2.9 Clean all the change parts with a jet of approximate 20-30 Kg of purified water then clean by using nylon scrubber and wash with approximate 10-20 Kg of purified water. Finally rinse with approximate 5-10 Kg of purified water.



PRODUCTION DEPARTMENT

	STANDARD OPERATING PROCI				
Department: Production Title: Cleaning of 45 station Compression Machine (Cadpress D Tooling)		SOP No.:			
		Effective Date:			
Supersed		Review Date:			
Issue Date	e :	Page No.:			
4.2.10	Wipe all the cleaned parts with lint free cloth dipped in 70 s	% IPA and Dry all the parts using			
	compressed air followed by dry lint free cloth.				
4.2.11	Change Part Trolley Cleaning Procedure-				
	After cleaning of all dismantled parts, clean the change part trolley with a jet of approximate				
	10-20 Kg of purified water and finally rinse it with approximation	mate 5-10 Kg of purified water.			
4.2.12	Dry the change part trolley with dry lint free cloth or with compressed air.				
	Then transfer the cleaned part to it and close the doors and transfer it to compression cubicle.				
4.2.13 Remove dust cap of respective upper punch one by one and clean each with pu					
	then IPA soaked cloth and dry with dry lint free cloth.				
4.2.14	Remove upper punch one by one punch and clean each with IPA soaked cloth followed by dr				
	lint free cloth and put them horizontally on die-punch handling tray duly labeled with detail				
	of punch specifications and their quantities.				
4.2.15	Remove anti- turning plugs and tension plate and lower p	unches from the punch guiding -			
	hole one by one, wipe to clean and keep in punch trolley.				
4.2.16	Remove the adhered powder in the lower punch barrels as	nd bottom of dies clean with dry			
	lint free cloth.				
4.2.17	Clean the upper punch, lower punch pocket and dies cavity	using a dry nylon brush first then			
	clean with a nylon brush dipped in 70% IPA and dry the p	bunch pocket using a cleaned lint			
	free cloth.				
4.2.18	Remove the upper and lower cam tracks and clean it with	a lint free cloth dipped in 70 %			
	IPA.				
4.2.19	Clean the lower punch barrels using lint free cloth dipped in 70% IPA.				
4.2.20	Clean all the die cavities die plate and inside portion of turn	et with cleaned lint free cloth and			
	then clean with a lint free cloth dipped in 70% IPA.				
4.2.21	Dry the die cavity and turret with a dry lint free cloth.				
4.2.22	Wipe the outside of the pipe of the dust extractor with a	lint free cloth dipped in purified			
	water, transfer the pipe to the washing area in a polythene bag, wash the inside of the pipe				
	water, transfer the pipe to the washing area in a polythene	bag, wash the histor of the pipe			



PRODUCTION DEPARTMENT

	STANDARD OPERATING PROCI	EDURE		
	ent: Production	SOP No.: Effective Date: Review Date: Page No.:		
Title: Cle Tooling)	eaning of 45 station Compression Machine (Cadpress D			
Supersed				
Issue Dat	te:			
4.2.23	Dry the pipe with the help of compressed air.			
4.2.24	Keep all the dried parts in a cleaned stainless steel pallet and cover it with a cleaned			
	polythene bag with a status label as "CLEANED" with dat	e and signature of the production		
	officer keep in respective compression area.			
4.2.25	Fit the side covers of the compression machine back in place.			
4.2.26	Open the acrylic guard and remove the upper punches one by one and clean with a lin			
	cloth and keep it in a tray.			
4.2.27	Inform the engineering department to clean the return air riser filter.			
4.2.28	Replace the "UNDER CLEANING" status label with "CLEANED" status label with da			
	and Signature of the production officer.			
4.2.29	Record the cleaning activity in equipment sequential log as per SOP.			
4.2.30	Fill the cleaning checklist duly sign by the technician and of	concerned officer as per annexure		
	–I.			
4.2.31	Note: During cleaning of punches and dies, visual check	for any damage of punches and		
	dies.			
4.2.32	Clean the area as per SOP.			
5.0	ANNEXURE (S):			
	Annexure –I: Cleaning checklist of Compression Machine (45 station D-Tooling).		
6.0	REFERENCE (S):			
	SOP: Preparation, approval, Distribution control, Revis	sion and destruction of Standa		
	Operating Procedure (SOP).			
	SOP: Procedure for area line clearance.			
	SOP: Status labeling in production department.			
	SOP: Cleaning and Sanitization of Production Area.			

7.0 ABBREVIATION (S) / **DEFINITION** (S):



PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE			
Department: Production SOP No.:			
Title: Cleaning of 45 station Compression Machine (Cadpress D Tooling)	Effective Date:		
Supersedes: Nil	Review Date:		
Issue Date:	Page No.:		

BMR: Batch Manufacturing Record

Q.A. : Quality Assurance

SOP : Standard Operating Procedure

S.S : Stainless Steel

IPA : Isopropyl Alcohol

REVISION CARD

S. No.	REVISION No.	REVISION DATE	DETAILS OF REVISION	REASON (S) FOR REVISION	REFERENCE CHANGE CONTROL No.
1	00			New SOP	