

Vayusrot CFM

VAYUSROT continuous Fermenting Machine is specially designed to achieve even and complete fermentation of CTC dhool.

Salient

Features:

Feed Unit	<ul style="list-style-type: none"> ● Inclined feed conveyor assembly with independent drive. Heavy sectional steel structure. ● All stainless steel back and side spillage guard. ● Stainless Steel made Helical Spreader with independent drive. ● Each module structure fabricated with heavy steel section.
Module: Plenum Chamber:	<ul style="list-style-type: none"> ● Each module fitted with Aero Dynamically designed, Stainless Steel made plenum chamber. Each chamber has a damper to control desired air pressure. Each module has large inclined outlet box, designed specially to help in non-accumulation of water or dhool during cleaning. All plenum chamber is connected with a common S S duct. ● Properly hinged and sealed inspection window in each plenum chamber. ● A presume plate is fitted in plenum chamber for proper air distribution to bed. ● High volume discharge centrifugal blower with centralized air control damper.
Humidification Chamber & Blower:	<ul style="list-style-type: none"> ● Mist chamber with humidifiers having one S S air washer, which allows only humid air. Arrests water partials. ● Imported nylon mesh belt with opening area 46%, which ensures even fermentation throughout the bed area.
Mesh Belt: Cleaning Brush:	<ul style="list-style-type: none"> ● At the discharge end , in bottom, a rotary cleaning brush is fified with independent drive. ● At the middle of bed, one upturned is fitted with independent drive.
Upturner: Leveller:	<ul style="list-style-type: none"> ● At the dropping point, from feed conveyor belt to main mesh belt, one spreader cum leveler is fitted to spread and level of dhool height in bed. This is optional.
Main Drive:	<ul style="list-style-type: none"> ● Main mesh belt drive equipped with own make heavy duty 2500:1 ratio gear box, with three different stage step pulley for various Speed. Drive also fitted with VFD to control belt speed or fermentation time instantly at any time.
Discharge Conveyor Safety Guard: Control	<ul style="list-style-type: none"> ● A discharge conveyor with center or side discharge of dhool, can be provide on request. ● All chain, sprocket and rotary parts are covered with safety guard. ● Steel fabricated powder coated , dust

Panel:

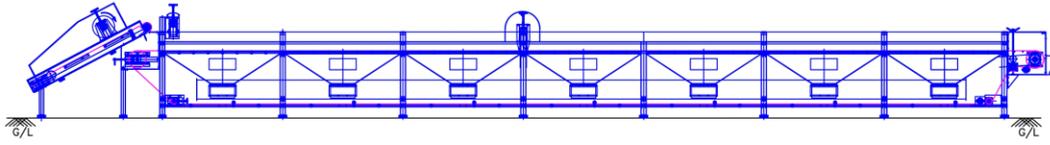
proof enclosed control panel.

- Main drive is fitted with VFD, to control belt speed, instantly at any time.
- Control panel inclusive of isolator, digital voltmeter, amp meter, temperature indicator.
- Standard power supply
415 V AC, 3 Ph, 50 Hz.

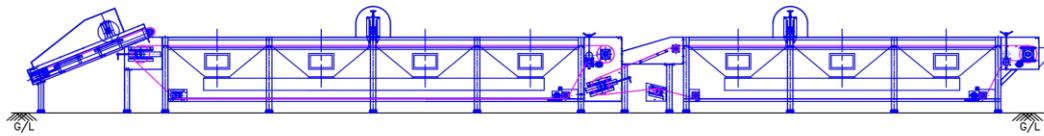
TECHNICAL SPECIFICATIONS OF MARTIN'S VAYUSROT CFM														
MODEL	5M		6M		7M		8M		9M		10M			
	6 FT	8FT	6 FT	8FT	6 FT	8FT	6 FT	8FT	6 FT	8FT	6 FT	8FT		
Overall Machine Length with Feed Conv (Mt)	12.95	14.85	14.855	17.14	16.76	19.43	18.665	21.72	20.57	24.01	22.475	26.3		
Effective Bed Length (Mt)	10.525	12.45	12.43	14.74	14.335	17.03	16.24	19.32	18.145	21.61	20.05	23.9		
Effective Bed Width	6 FT Wide		1.84											
	8 FT Wide		2.34											
Effective Holding Area	6 FT Wide		19.37	22.9	22.87	27.12	26.38	31.34	29.88	35.55	33.39	39.76	36.89	43.98
	8 FT Wide		24.63	29.13	29.08	34.49	33.54	39.85	38	45.2	42.46	50.56	46.92	55.93
Feeding Point Height at Feed Conveyor	885													
Discharge Point Height	875													
Throughput Time Range	Variable													
Power Consumption (HP)														
Humidification Blower HP	5	5	5	5	7.5	7.5	7.5	7.5	10	10	10	10		
Humidifier x 2 Nos	1	1	1	1	1	1	1	1	1	1	1	1		
Main Drive with VFD HP	2	2	3	3	5	5	5	5	5	5	5	5		
Cleaning Brush Drive HP	1	1	1	1	1	1	1	1	1	1	1	1		
Upturner HP	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5		
Spiral Spreader at Feed Conveyor HP	1	1	1	1	1	1	1	1	1	1	1	1		
Ball Breaker HP (Optional)	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2		
Spreader Cum Leveller (Optional)	1	1	1	1	1	1	1	1	1	1	1	1		
Belt Cleaning Pump (Optional)	2	2	2	2	2	2	2	2	2	2	2	2		
MODELS ARE ALSO AVAILABLE IN TWO DIFFERENT STAGE, HORIZONTAL AND INCLINED														
FEED CONVEYOR LENGTH AND DIRECTION OF DISCHARGE CONVEYOR CAN BE CHANGE AS PER LAYOUT OR CLIENT REQUIREMENT														

DIFFERENT GENERAL ARRANGEMENT OF CFM

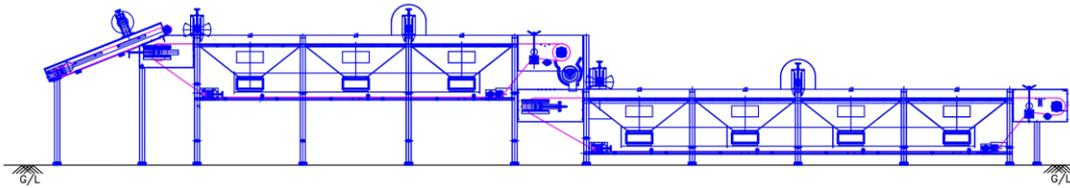
Mesco



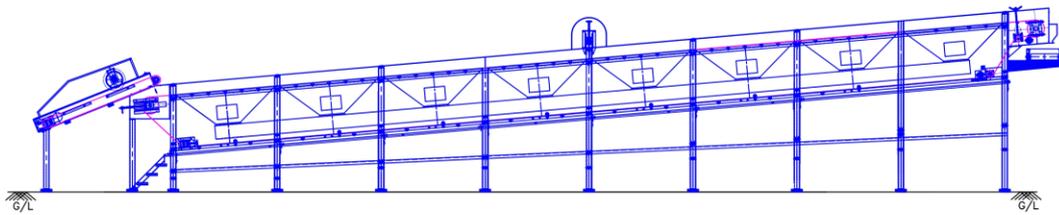
SINGLE STAGE CFM



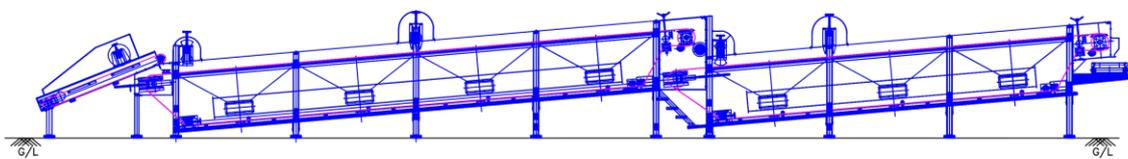
TWO STAGE CFM



TWO STAGE CFM



INCLINED SINGLE STAGE CFM



INCLINED TWO STAGE CFM

(Due to continuous process of product development, the design is subject to change without prior notice.)