

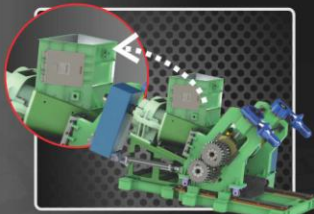
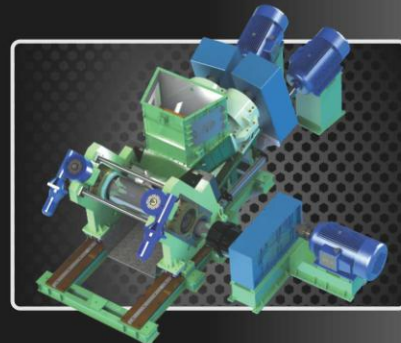
BAINITE

TWIN SCREW SHEETER

Bainite offers TSS completely designed, customised and manufactured inhouse with latest technology. In an automated mixing line "TSS", placed underneath the Internal mixer is today accepted for batch mixing replacing dump mill concept. Apart from the savings in power and labor, the material self-fed in TSS gives high quality of mix consistently, keeps the environment clean and is also a very safe operation.

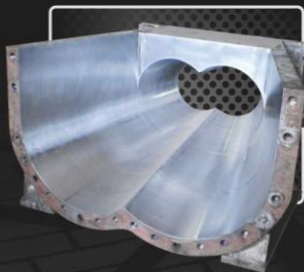
Salient Features & Benefits

- Range suitable for 50L to 440L mixer
- Conversion of Batch to Continuous Sheet
- Replace traditional single or double dump mill setup
- Saves labour, saves space.
- Less maintenance and lower downtime
- Can be used for master as well as final batches.
- Prevents atmospheric contamination (Dust and vapour) due to enclosed operation.
- Automatic synchronized with line speed for maximum productivity.
- Modular design - roller head can be shifted forward for maintenance.



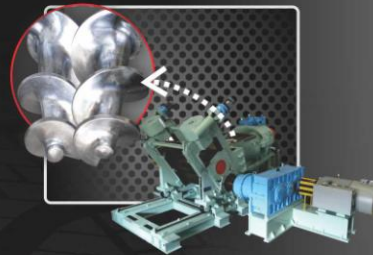
Large Hopper Chute

Fixed with bolts over feed Barrel opening and customised to be connected at the bottom of the Mixer platform. Level sensors are provided to adjust the screw and roll speed according to batch weight from mixer. For visual inspection additional window are provided.



Feed Barrel

Downward Inclined design barrel, duly hard chrome plated, allows faster movement and complete unloading of dump towards rolls. Barrels are drilled for effective cooling or heating.



Twin Screws

Counter Rotating, Intermeshing, Conical & non contact screws are supported by antifirication bearing in the gear housing. They are mounted inclined and hard chrome plated for self cleaning. Shafts are drilled for cooling/heating to match dump temperature.

Roller Die Assembly

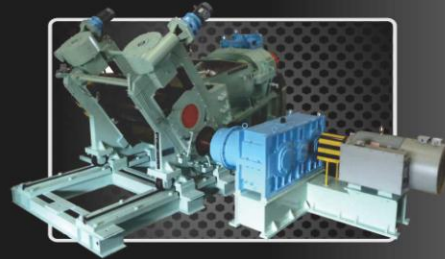
Complete roller assembly with bearing housings can be removed horizontally through frame windows for maintenance purpose. Two hydraulic cylinders each side can be actuated electrically or through accumulator (during power failure) for movement. Load cell at discharge end of extruder is mounted for synchronization of screw speed with roll speed. Sensing excess load, through interconnected with control panel, will speed up Calender and maintain balance of material flow with speeds of extruder/Calender. Optionally a dancer roll can be mounted on discharge side of calender to synchronize cooling line with the sheet output.

Drive and Control Systems

Both screws and rolls are independently driven by variable speed motors and reducing gear arrangement. System start up, line synchronization and optimum performance are achieved by PLC based control systems. Operating variable are automatically adjusted to provide continuous sheet.

Safety Arrangement

- All movable parts covered with guards
- Safety rope for emergency stop
- Replaceable shear pad for roll protection
- Mechanical locking for roller die assembly
- Scrapper plate for preventing sheet accumulation.



MODEL NO.	UNIT	TSRD 3T	TSRD 6T	TSRD 9T	TSRD 12 T
Output	Kg/Hr	3000	6000	9000	12000
Extruder Motor	KW	45	110	150	180
Max. Sheet Width	mm	600	900	900	900
Sheet Thickness	mm	5 to 12	5 to 12	5 to 12	5 to 12
Screw rpm	Const Torque Const Power	2 to 20 25 max	2 to 20 25 max	2 to 20 25 max	2 to 20 25 max
Screw Size	d1 x d2 x l mm	260x540x700	290x640x950	315x740x1200	415x790x1330
Roll Size	Ø x l mm	460 x 700	500 x 1070	500 x 1150	500 x 1150
Calender Motor	KW	45	110	150	150
Roll Speed	m/min	36	40	45	45
Roll Gap	mm	3 to 12	3 to 12	3 to 12	3 to 12
Weight	Ton	18	25	32	50
Suitable for Mixer Capacity	Litre	50 to 90	120 to 180	240 to 305	370 to 440



* All Dimension subject to change



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