



# Amit

## *engineers*



**Specialized in  
Pulp & Paper Mill Machinery Manufacturing,  
Spares, Engineering, Fabrication,  
Erection & Dynamic Balancing.**





## Company Profile

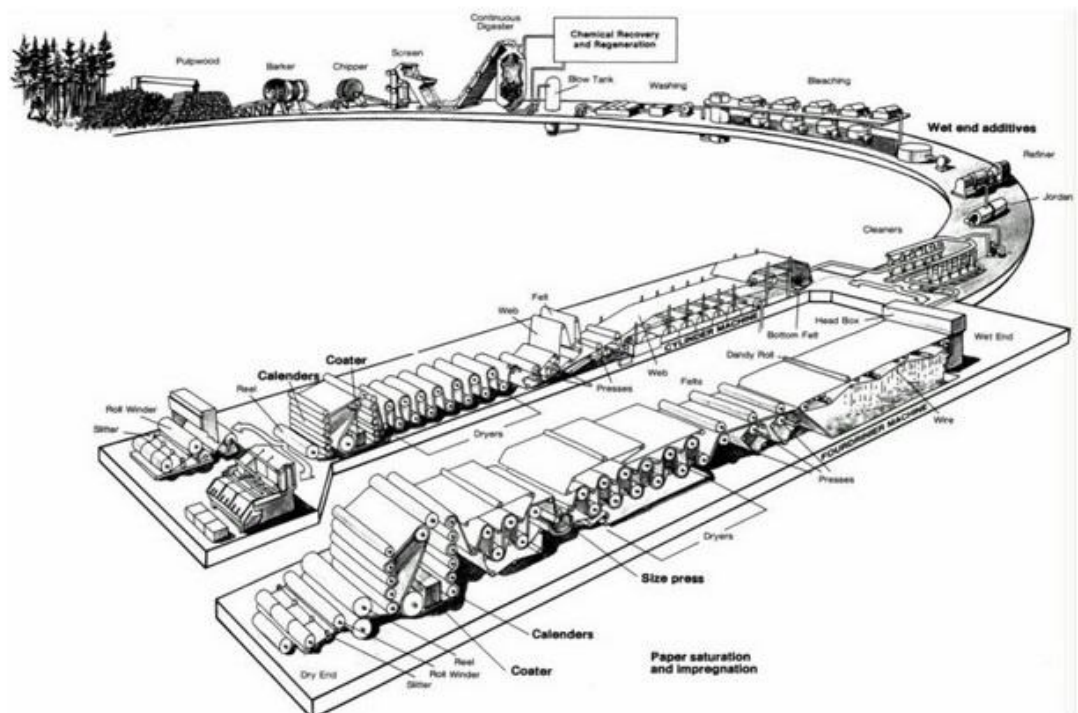
**Amit Engineers** is a full service engineering and consulting firm that first opened its doors in 1989, in Vapi – Gujarat. Since then, we have expanded our Capabilities, our Technologies & our Technical Staff for rendering quality services and develop a new era of production to Paper Industry, in which we have always been successful.

**Amit Engineers** is now comprised of more than 25 technically expert Technicians & staff of 5 certified Engineers, all of who own an experience & technical know-how of Paper Machineries of years more than our Company's establishment and who are working with us since more than 25 years.

We have provided complete design with layout drawing for entire project of various Duplex Board, Kraft Board, Kraft Paper, Tissue Paper & Newsprint Mills. We are well expertised in modification of any of the existing plant, for all capacity of the machine - for increasing the production yield & decreasing power consumption with engineering perfection. Not only these much, we also provide new and advance designed machinery with very low maintenance & power consumption with perfect solution. Under the guidance of successful Paper Tech Engineers, Process Engineers as well as Mechanical & Production Engineers, we manufacture all sorts of spare parts of Pulp & Paper Mill from ground level to finished product and from Pulping section to Rewinder / Slitting section.

We are proud to serve the industry with our specialties in various machineries like Recycle Pulp Mill, Extractor Press, Cylinder Mould, Head Box, Wire Part, Entire Press Section like Press, Jumbo Press & Baby Press & Size Press, Dryer Section, Pope Reel, Rewinder & **Online Web Cleaning System on Sheet Cutter** and we even dare to challenge the industry for the quality of our expertised products. We do even modify, maintain and replace the existing machinery without damaging or loosing the original look & attire of the particular machine ; at an expert engineering level with 100% perfection & self-confidence.

AT our workshop, we own all the engineering facility; to maintain dignity & **'One Stop Shop' motto** & serve all our customer's with full fledge facilities including Foundry, Fabrication & Machine Shop unit.





# Types Of Operations & Activities



## Pulp Mill Section

All types of **Pulpers** -

Hydro Pulper, 'D' type Pulper, ATS Pulpers, High/Medium Consistency Pulpers including its rotating assembly, impellers & screen plates.



## Centri Cleaners Group

High Density Cleaners

Medium Density Cleaners

or Individual Bottles From 500 LPM to 2000 LPM



## Turbo Separators of all sizes



**Turbo Feed Pump**

**Thickener Drum with VAT**  
(Perforated Type & Mould Type)  
up to various capacities



**Vibrating screens with VAT**

**Chest Agitator**  
for Horizontal & Vertical Chest



⚙ Stock Pumps for various destinations    ⚙ Regulating boxes for stock

⚙ CH series screens (Perforated Basket type) alongwith their consequent rotors.

⚙ All spares of Pulp Mills like rotors, various strainer plates, etc.





## High Density Cleaner

### Principle :

High Density (or HD) Cleaners are large diameter forward cleaners capable of processing several hundred tons of fiber per day. The main purpose of high density cleaners is to separate heavy contaminants from fibers in suspensions of fibers in water (often referred to as "stock"). This protects downstream equipment from excessive wear and damage. They may also be used for fiber recovery.

### Features :

For efficient removal of contaminants like sand, glass, chips, pins, etc. from pulp stock. We can also supply suitable pump for particular size of HDC & as per capacity of machine.

**Centri-Cleaner Groups** : We can supply any capacity of Centri-Cleaners from 500-1500 LPM.



## Extractor Press

One of the basic principle of the extractor press says : is to squeeze out as much water as possible, where the wet fiber web passes between large rolls loaded under high pressure.

### Features :

In mould plant, removal of water, from the wet web through Press section is very important.

Extractor Press is the only press which works at 8% ( $\pm 1\%$ ) consistency & that is the only reason Extractor Press is selected as the 1<sup>st</sup> De-watering equipment in Mould plant. In this process, bottom mould having a wire mesh of 40 & Top Roll is of BD. So both will have a technically self-explanatory easy water removal, without having a problem of web crushing.

### Compactness of Sheet :

If any Press works at a low consistency, sheet compactness will increase, which will also help in B.F. & R.C.T.

As a Maximum De-watering unit, which decreases load on Vacuum Pump, Baby Press, 1<sup>st</sup> Press, 2<sup>nd</sup> Press & so on...and also works efficiently, So solid content after Press Section can be achieved upto 50%.



*In brief, machine speed can be increased without deterioration of paper board quality.*



## Cylinder Mould

### Working Principle :

The principle of the cylinder mould is to provide the forming surface through which water drains to leave the fibers matted in a sheet. The cylinder is designed to allow drainage uniformly across its width with no turbulence to disturb the fibers during formation. Sheet formation cannot be improved later in the papermaking process; it is produced once and for all on the cylinder mould.

### Features :

We make Cylinder Moulds of circular strip type, very precisely assembled and machined for giving maximum durability, maximum life of wire mesh & best possible formation of paper web as open area is resulting into more & more de-watering.

We produce regular Dia 1250 mm mould with face-length upto 4000 mm (as per customer's need & requirement) Machines with cylinder mould supplied by Amit Engineers are running beyond 300 mpm speed. Cylinder Mould VAT in S.S. fabrication with uniflow, dry-wet flow counter flow & any other modified version as per party's technical needs & requirement.



## Planetary Gear Box

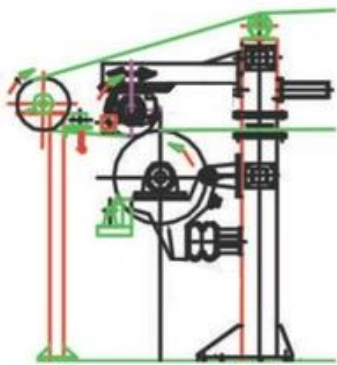
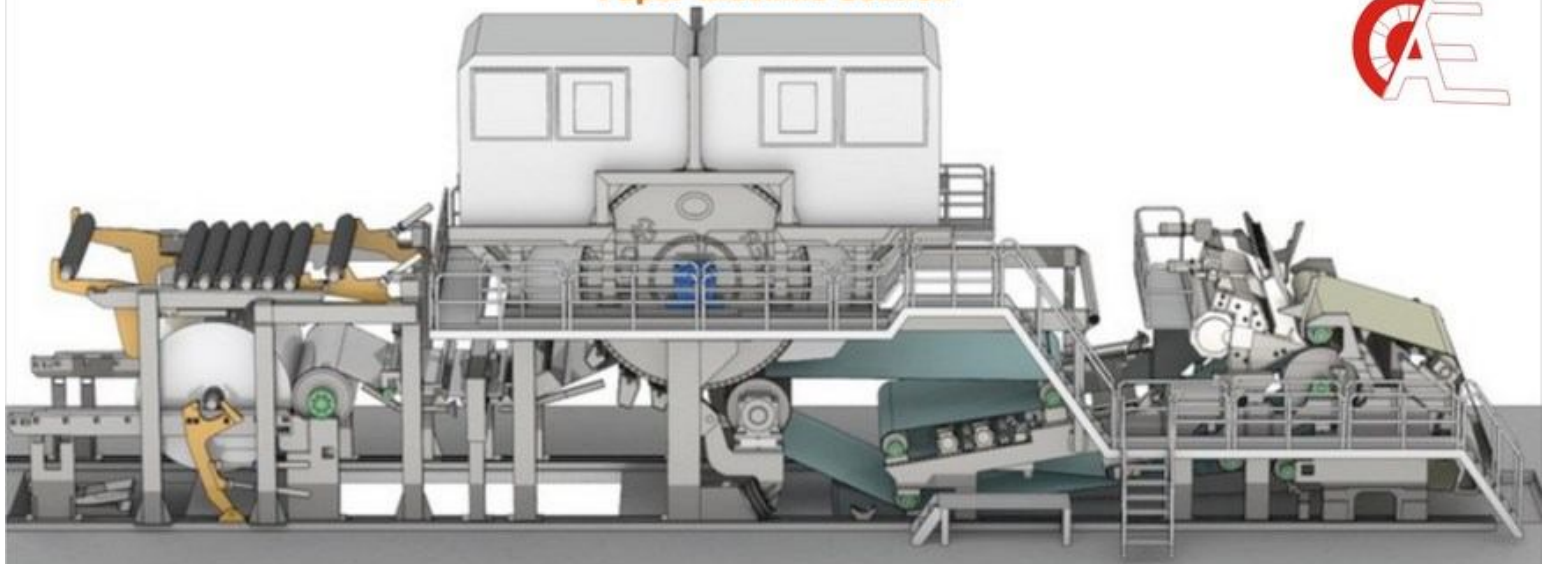
Any kind & type of Gear Box : heavy-duty, imported, second hand, like Planetary, Bevel, Helical, etc. suitable for suitable applications

Leave the tension on Amit Engineers - have a full proof solution of Gear Box, Power efficient Gear Box, etc.

Leave all the calculations including size requirement & size selection on Amit Engineers...







### Extractor Press

with Couch Roll & its framing including all its required attachments.



### S.S. Cylinder Mould

(Circular Strip type) with VAT, Couch Roll, framing etc. & with all its required accessories.



**Head Box (Open type)**  
**Wire Part With Latest**  
**Drainage Elements**



### Auto Guide

Bellow type  
Cylinder type  
with  
Manual Guide





## Regarding Your Requirement :

We make suitable Mould Machine for Paper Board production upto 500 GSM.  
We have already made and rebuilt the plants of 250 GSM to 500 GSM Capacity,  
which are running successfully in below mentioned Paper Mills :

**Daman Ganga Board Mills Pvt. Ltd., Vapi**

**Remco Paper & Board (I) Pvt. Ltd., Vapi**

**Revival Papers Mill Pvt. Ltd., Vapi.**

**K.B. Board Mills Ltd., Nagpur**

As per your requirement, we can provide Layout Drawing of Paper Mill machinery in which mentioned parts are very important like Extractor Press , Baby Press , New designed Press Sections, Design of Mould VAT which help us to acquire 500 GSM in Wet-end section etc. and many more....

from Pulp Mill to Rewinder Section,

from Ground level to Machine level.



*In our 25 years of working, we have successfully completed a number of jobs and have a long list of satisfied customers nationwide and a detailed list can be available on request.  
also one can visit our website for the same.*





## **ENTIRE PRESS SECTION**

**(heavy duty and light duty plants) with easy & perfectly designed felt-circuits for single & double felting, including Baby Press, Jumbo Press & Size Press  
With its corresponding accessories.**



**Entire Dryer Section** with framings, screen circuits & complete felt circuits, doctors, etc.



**Manual Shifters  
Motorised Shifters  
for Belts**







## Size Press

### Principle

The main purpose of a Size Press on a Paper Machine is to apply a solution of starch or other material onto the surface of the dry paper, to boost up B.F. in kraft paper & to provide glaze in white mapilite.

### Features

Usually the main role for applying the material is used to increase the surface strength of the paper web. Other benefits also includes reduced dusting tendency, increased stiffness and reduced air-permeability.

## Web Cleaning System

### Principle :

It is a custom engineered vacuum system that is specifically designed to efficiently remove dirt, dust, lint, spray powder, loose paper particles and other contaminants from paper web on paperboard machine after slitting station.

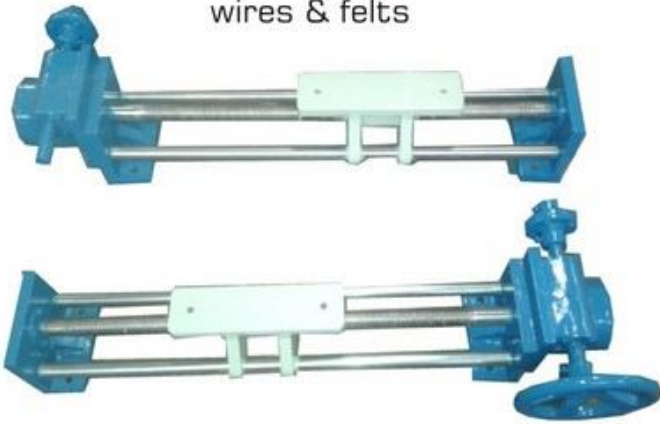
### Features :

These is a sophisticated system purposefully used for removal of dust that is generated on the sheet cutter due to slitting, coating, etc. after slitting station. The whole system is installed online on the sheet cutter after the slitting station. The whole system consists of motorized blower, dust collection box with imported woven bag & an aluminum suction unit that sucks the dust from above the dry web set along the deckle.





**Manual Stretchers**  
**Motorised Stretchers**  
wires & felts



**Oscillation Showers**



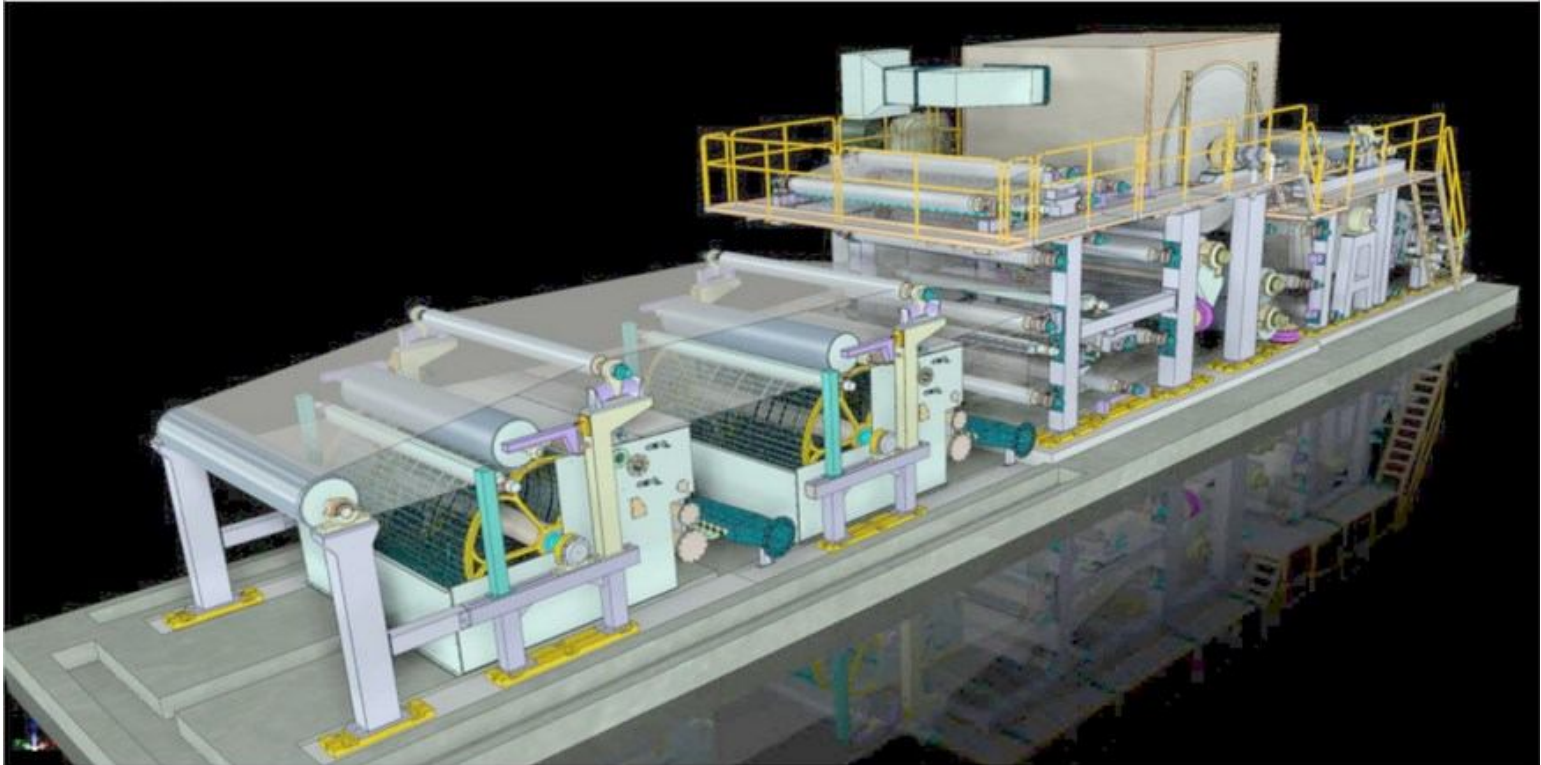
**Pope Reel Section**



**Slitter Rewinder**







## Modification work

We also do the modification and addition of spares and machinery in paper and pulp mills as per company requirement and also provides the consultancy service as per company's production requirement.

We also undertake full turnkey projects to boost up production and for that we have full team of techno-crats for process as well as mechanical side with wide experience.

## Repair work

At our functional area we do all kind of repair work to each and every existing machinery of Paper and Pulp mills. Some of them are mentioned below for your knowledge only.

Any Kind of Damage in Mould can be repaired at our functional area

Shaft replacement without damage in rubber or other coating on roll

Bearing size correction on existing shaft of all kind of Rolls by low heat welding method

Keyway and grove making on shaft or any other part of machinery at site also.

Hardening on working edges of impeller veins for increasing life of various types of pulper impeller, low/medium/high consistency pulper impeller, poier impeller, various types of screw of screw press, heating screw, feeding screw, decanter screw, etc.

Dynamic Balancing (In-house Facility) having 2200 mm rotation diameter over bed, upto 5500 mm facelength & weight capacity upto 5000 kgs.





## Office & Works :

📍 M/s. Amit Engineers  
Plot No. 199/1/A, 2<sup>nd</sup> Phase,  
G.I.D.C., Vapi – 396 195.  
District – Valsad  
State – Gujarat  
Country - India

📞 (0260) 2420232 , 2428388  
📱 (+91) 70960 26248  
✉️ amitengineers89@gmail.com  
🌐 www.amitengg.com

