



FULLY AUTOMATIC FLOUR MILL PLANT

Your Trusted Partner for Consultancy and Turnkey Project Execution



COMPANY OVERVIEW

Salvin Industries is a leading engineering, technology and consulting conglomerate, working closely with diversified industries spanning across food processing, agriculture, plastics, chemicals, metals healthcare, packaging, Dealer, distributor, super stocks, marketing plan, product analysis and other industries and business sectors offering complete turn-key solutions including advanced engineering, Industry 4.0 solutions, digital transformation and expert technical and management consultancy. With 10+ years of experience and global presence in 8+ countries, Salvin Industries is serving from the most demanding to the most distant customers across the globe. We empower them for rewriting their future with our depths of knowledge, unique ideas, technical expertise, creative solutions and enduring results, all at the most optimal costs, right at their doorsteps.

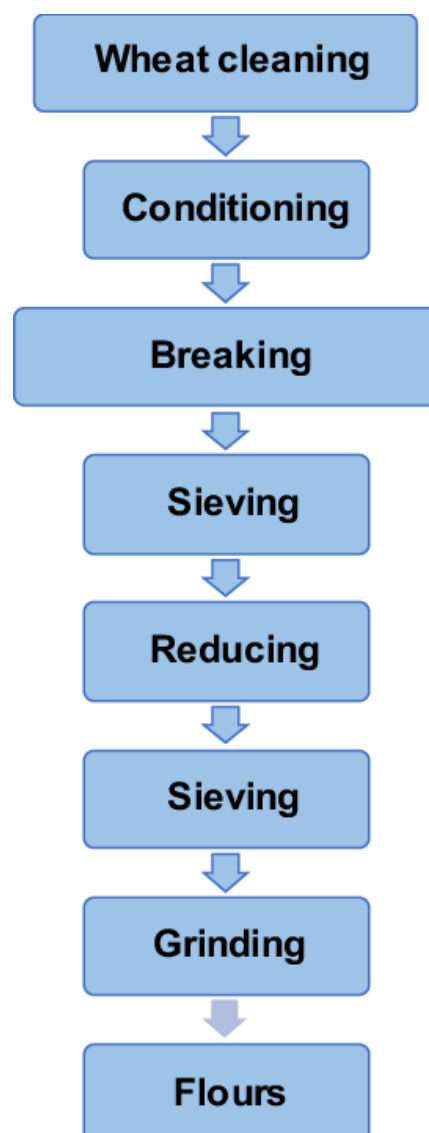
Armed with the eminence in technological expertise, global capabilities and a process driven approach, we have the ability to take on any challenging project. Crossing the geographical borders & cultures and living up to our core values Excellence, Respect, Care & Joy, we propel innovation to engineer solutions that build & foster equality. Working together as one team with all our business partners & associates, we are transforming industries, fueling economies, developing sustainable solutions and thereby elevating societies, globally. We realize the need to respond to the dynamism & speed with which the world is changing all around us and understand the need to anticipate

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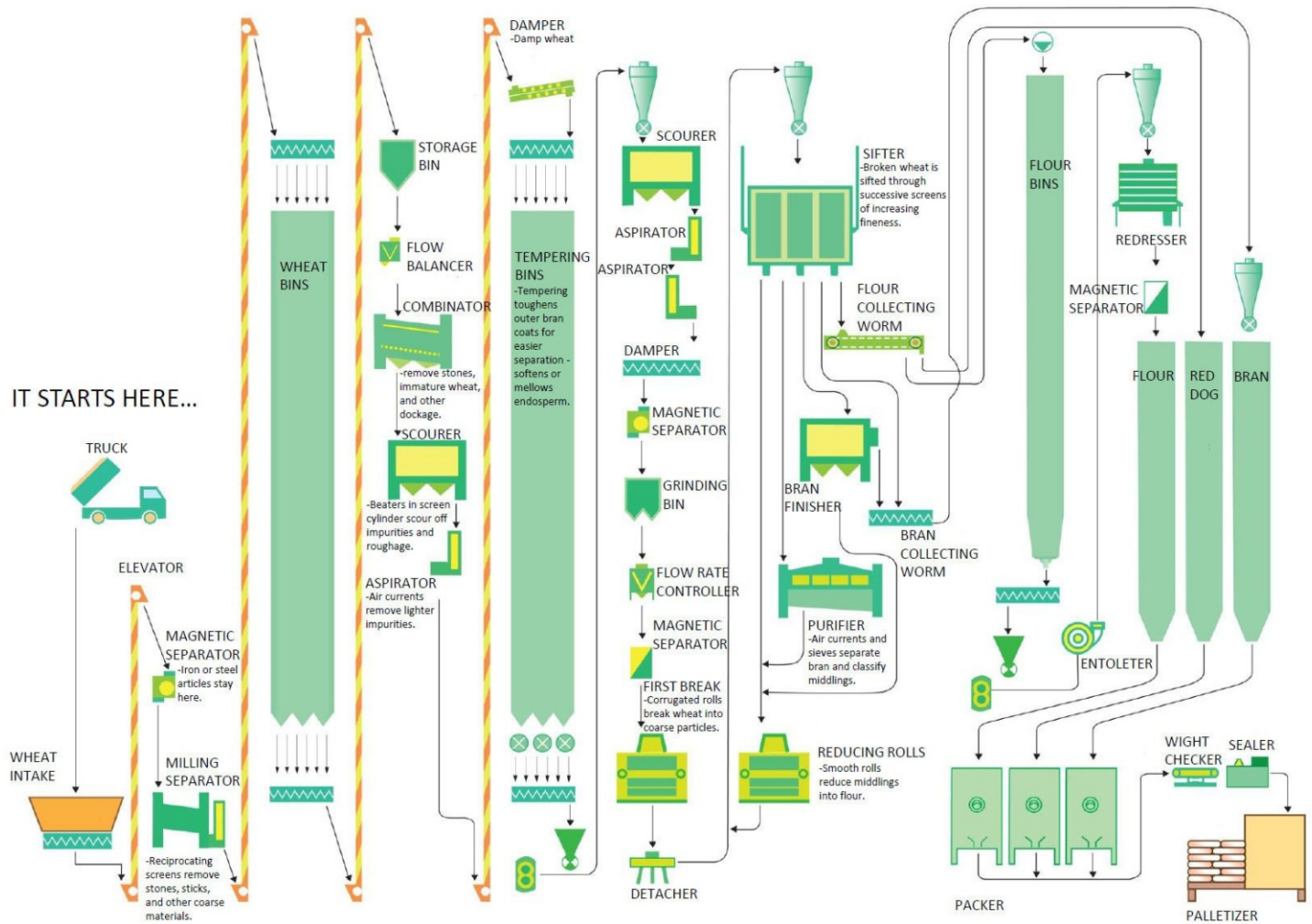
A flour mill production plant transforms raw grains like wheat into fine, uniform flour through a controlled, multi-stage mechanical process. It begins with grain cleaning using screens, aspirators, and destoners to remove impurities. The wheat is then tempered by adding moisture to toughen the bran and soften the starchy endosperm.

The heart of the mill is the gradual reduction system, where grain passes through a series of corrugated break rolls to open the kernel, followed by smooth reduction rolls to grind the endosperm into flour. Throughout this cycle, plansifters sift the material, separating flour from coarser particles for further processing, ensuring precise particle size and purity before final blending and packing.

PROCESS DIAGRAM OF FLOUR MILL PLANT



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THE PROCESS

Wheat Cleaning

Wheat Cleaning

Removes impurities using screens to separate by size, air flows to lift light dust (aspiration), specific gravity to remove stones, and optical sensors to discard discolored or mold-infected kernels



Conditioning

Adds water and allows time for it to penetrate the kernel. This toughens the bran (making it peel off cleanly) and mellows (softens) the endosperm for efficient grinding

Breaking

Breaking

The first set of rolls rotate at different speeds to create a shearing action. This "opens" the wheat kernel and scrapes endosperm away from the bran without pulverizing the bran into small pieces



Sieving

A large, square sifter that uses multiple layers of mesh screens in a gyratory motion to separate the broken material by particle size. It classifies material into flour, fine semolina, coarse semolina, and bran flakes

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THE PROCESS

Reducing Reducing

After the bran is removed, the clean semolina passes through a series of smooth rolls that rotate at a slower differential. These rolls gently grind the semolina down into fine flour .



Sieving Sieving

The ground material from the reduction rolls is sifted again. The fine flour passes through the screen as the final product, while any coarser particles are sent back to another reduction roll for further grinding in the gradual reduction process .

Grinding Grinding

This stage is integrated into the Reducing step above. "Grinding" is the generic action, while "Reducing" is the specific term for the roller mill phase that produces flour. The gradual reduction system is the heart of the flour mill.





LET'S WORK TOGETHER



+91 97127 77034



www.salvinindustries.in



info.salvinindustries@gmail.com



210, Arved Transcube Mall,
Bandhu Nagar, Vijay Nagar,
Ranip, Ahmedabad, Gujarat 382480



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