

## **PROVEG ENGINEERING AND FOOD PROCESSING PVT. LTD.**

<https://provegengineering.in>



**“We believe in judging our success by our ability to meet the expectations of our customers and Principal's and work with the aim of providing global technology with local support.”**

## **About us**

We are a professional business entity engaged in designing, engineering, manufacturing, supplying, erecting and commissioning of an array of vegetable and fruit processing pretreatment line, hot air dryers, vacuum freeze dryers, IQF, extruded food machineries, baked food machines, candy, chocolate machines, industrial mixers, nut and grain shelling, hulling , grading, sorting and cutting machines, packaging solution. Our expertise resides in turnkey plants which we can assemble at client's site with ease.

From humble beginnings in year 2006 as Techno Engineers & consultants, now at PROVEG we have emerged as a strong partner to our customers serving them with need based solutions at affordable prices while never compromising on the quality of our equipment

Headquartered in Pune, we have a local presence in Chennai. In addition, we have a well-equipped manufacturing & testing facility on the outskirts of pune to give our customers the opportunity to test and validate their products with our solutions. Our manufacturing facility is also the authorized unit for manufacturing Shakers from Key Technologies.

## **Our strengths**

- End to end solutions for food processing
- Highly skilled after sale service support
- 15 years of experience in automation of various International & Regional snack food products.
- We provide full solution right from procurement up to delivery of equipment to your doorstep, commissioning, handovering and backing it with technical support for life long
- Fully automatic solution for our machines

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## **1. The technological process of cleaning wheat**

The cleaning section adopts three sifters, two scourers, two stoners one, washer three magnetic selectors and add up to 15 courses of technological process, in which organic impurity and inorganic impurity can be removed completely from the unprocessed raw grains.

## **2. The technological process of milling flour**

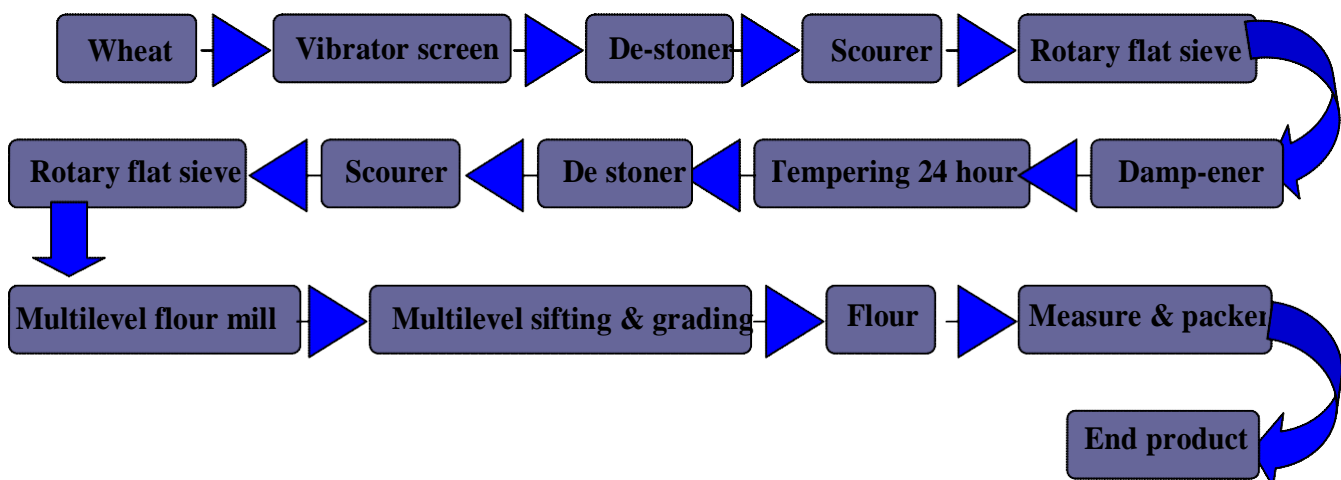
I). This productive line adopts break system, scratch system and reduction system, the scheme of making flour route is long, and make the flour evenly and completely. The new technological process includes “4B7M2S2T4P” systems and has 24 courses of technological process of grinding, which can not only ensures the quality of the flour and the color of the

flour is white, the ash content is low, but also improve the extraction flour and lower the power consumption.

II) The part of scratch system and reduction system adopt smooth roller, which can improve the color of flour and precision, and make the broken bran less and lower the ash content and get rid of the broken bran

III) The milling section adopts purifier, Bran centrifugal、Bran brush、Flour checking plan sifter and other auxiliary equipments to improve grinding system and sifting system efficiently and improve the flour’s precision and its color, lower the ash content, and improve the extraction rate and quality of product。

The technological process of making flour is following :







# **Equipments of pressing wheat production-line**

## A) Cleaning room

No	Name	Spec.& Model	Picture
1	Vibrating screen	TQLZ125×150 and TQLZ100×200 Capacity:16t/h Motor speed:920rpm Size:2640×1610×1455mm Weight:540kg	
2	horizontal scourer	FDMW40×150 Capacity:8-12t/h Size: 2600×920×1680mm Weight:750kg	
3	rotary flat sieve	TQLM125 Sieving size:150×125mm Capacity:8-10t/h Size:1965×1715×1645mm Weight:856kg	
4	Gravity de-Stoner	TQSF125 Capacity:11-16t/h Wind pressure:980Pa Size:1500×1496×1900mm Weight:400kg	
	Wheat Washer	XMS95×164 Capacity:10-12t/h Water consumption : 300-600kg/ton wheat Size: 3612×1400×2300mm Weight:2820kg	
5	Dampener	TSYZ-32 Capacity:10-12t/h Water consumption : 1-5ton Weight:400kg	
6	Spiral conveyor	LSS250 Capacity:8-12t/h	







7	Magnetic separator	TCXT25 Capacity:10t/h feed port diameter: $\varnothing$ 250mm Size: $\varnothing$ 400×750	
8	Low pressure fan	4-72-No.5.5A Wind pressure: 210-340mmH2 Air quantity: 8010-14710 m <sup>3</sup> /h	
		4-72-No.4A Wind pressure: 112-208mmH2 Air quantity: 3800-7160 m <sup>3</sup> /h	
9	Elevator	TDTG36/18 Head wheel diameter: $\varnothing$ 360mm Head wheel speed:80rpm Winnowing pan size:180×140mm Capacity:12-14t/h	
10	Aspiration separator	TXFL120 Capacity:10t/h Air capacity:4500m <sup>3</sup> /h Weight:400kg	
11	Dust filter pipes(with air lock)	D=600/550	








## 2) Flour room

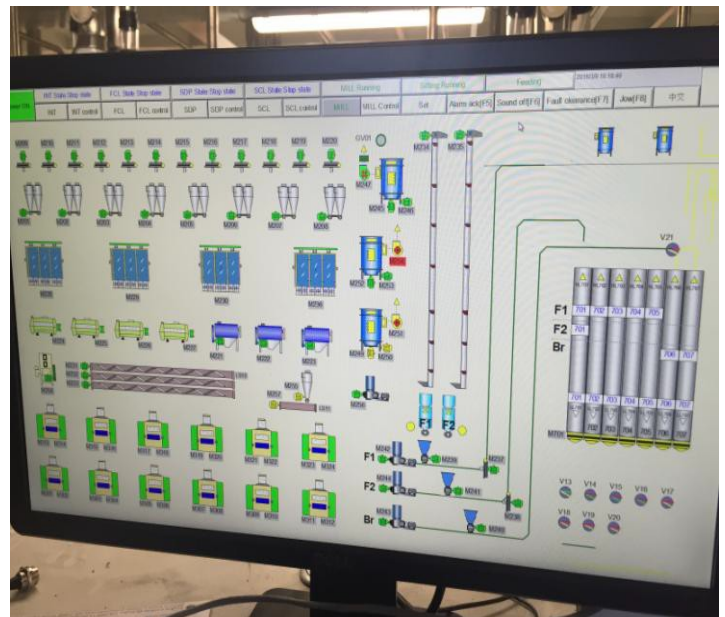
No	Name	Spec. & Model.	Picture
1	Pneumatic mill	FMFQ10×2 Roller diameter: $\phi 250 \times 1000$ Fast roller speed:400-600rpm Speed ratio:1.25-2.5:1 Air pressure: 0.6MPa Size:1810×1490×1895mm Weight:3300kg	
		FMFQ8×2 Roller diameter: $\phi 250 \times 800$ mm Fast roller speed:400-600rpm Speed ratio:1.25-2.5:1 Air pressure:0.6MPa Size:1610×1490×1895mm Weight:3000kg	
2	Plan sifter	FSFG6×24 Bin number:6 bin Sieve size:640×640mm Sieve area: 31.6-57.3 m <sup>2</sup> Principal axis speed:240rpm Tactical diameter:60-65mm Weight:3700kg	
3	Purifier	FQFD49×2×3 Swing:4.0-5.0mm Air quantity:40-50m <sup>3</sup> /min Capacity:2.4-3.8t/h Sifter width: 492×2mm Weight:1000kg	
4.	Centrifugal impactor	FSZJ43 Capacity:1.5-2.3t/h Rotor diameter:430mm Weight:130kg Size:889×889×838mm	



		FSZJ51 Capacity:1.7-2.5t/h Rotor diameter:510mm Weight:230kg Size:650×640×1000mm	
5	Bran centrifugal	FFPD45×2 Sieve diameter: $\phi$ 450mm Sieve length:1100mm Capacity:2.0-3.2t/h Weight:800kg Size:1735×1290×1620mm	
6	Low pressure fan	4-72No.5.5A Wind pressure : 215-410mmH <sub>2</sub> O Air quantity : 9828-22180 m <sup>3</sup> /h	
7	Purifier pulse dust catcher	TBLM-104 Filter area:58.8 m <sup>2</sup> Filter-bag number:78 Filter-bag length:2000mm Filter air volume: 10580- 14110m <sup>3</sup> /h Collection efficiency: >99%	
8	High pressure fan	GLF5-18-7 Wind pressur:1018-1064 Pa Air quantity:7840-14620 m <sup>3</sup> /h Rotate speed:2970rpm	
9	Air lock	GFY9\7 Rotate speed:1-5rpm Volume:9L/7L	
10	Pulse dust filter	TBLM-104 Filter area:78.4 m <sup>2</sup> Filter-bag number:104 Filter-bag length:2000mm Filter air volume: 14100- 18810m <sup>3</sup> /h Collection efficiency: >99%	

11	Elevator	TDTG36/18 Head wheel diameter: $\phi$ 360mm Head wheel speed:50rpm Winnowing pan size:180×140mm Capacity:3.4 t/h	
		TDTG36/23 Head wheel diameter: $\phi$ 360mm Head wheel speed:50rpm Winnowing pan size:230×140mm Capacity:4.4 t/h	
12	Spiral conveyor(flour)	LSS250 Capacity:5-8t/h	
	Spiral conveyor(bran)	LSS200 Capacity:3-6t/h	
13	Automatic packing machine(flour)	LSC-25 Packing specification:15-40kg/bag Packing speed:3-6bag/min Packing precision: $\leq 0.2\%$ Air pressure : 0.4-0.65MPa	
14	Automatic packing machine(bran)	LSC-50 Packing Specification : 35-60kg/bag Packing speed : 3-6bag/min Packing precision : $\leq 0.2\%$ Air pressure : 0.4-0.65MPa	
15	Sieve frame machine	FBZF-D	
16	Air pressure machine	LCS-50A-DLZ Capacity: 150-180t/h Size:1075×1400×2580mm Weight: 650kg	

17	Roots blower		
18	Electronic system	With cable	
19	air pressure pipes system		
20	transmission parts		
21	silk sieve & steel wire sieve		
22	standardized item		
23	PLC control system		







Looking forward to the future, our company will take "build the international first-class enterprise, and create world famous brand " as its objective, forge ahead and continuously innovate, and provide perfect solution for global food processing

## **PROVEG ENGINEERING AND FOOD PACKAGING PVT. LTD.**

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