


Specifications Vertex 450B

WEIGHING SYSTEM	WEIGHTMETRIC
Pack Styles	  Gusseted Bag Pillow Bag
Accuracy	0.3% to 0.5% 1
Feeding System	Through Belt (Using 4 Servos)
Load Cells Controlled 04 Weight Fillers	Mettler Toledo
Pouch Size	L=320mm (Max) W=210mm (Max)
Laminate	Dia=400mm (Max) W=300mm to 450mm
Weight	200GMS to 2000GMS
Speed (Packets Per Minute)	35 PPM to 60 PPM
Packaging Material	Heat Sealable Laminates
Sealing Type	3 Side Seal, Pillow Pouch
Sealer (Material)	SS-410
Servo Control & Automation	Allen Bradley (Rockwell)
Web Pullings Belts	Habassit
Pneumatic System	Festo
HMI	4.3" color TFT QVGA display with touch screen & 4 function keys, Serial and Ethernet communication, 24 V DC Power
PLC	Allen Bradley
VFD	Allen Bradley
Panel Mounted Drive	Panel Mount for LCD Display, Remote Handheld unit [IP 30 (NEMA Type 1) Includes 2.0m DSI Cable]
Safety Contractor	MCS 100S-C Safety Contractor, 23A, 24V DC (w/elec. Coil), Bifurcated Contact
Safety Relay	Guard Master Safety Relay, 2 Dual Channel Universal Inputs
2-E-Stop	800F Non-illuminated Mushroom Operators, Twist to Release, 40mm, Round Metal (Type 4/13, IP66), Red, Standard Pack Metal Latch for contact block 22.5mm PB No Latch, Screw Contact Block, 1 No.

ABOUT US

KHOSLA MACHINES (established in 1983) has a sharp focus on packaging machines. It has state of the art infrastructure in its modern factories with work shop space of 70,000 sq.ft. in three different locations. All operations are controlled by top ERP & CRM systems. The company has a vibrant design office constantly evolving its products and bringing out new machines with more than 20 patents to its credit. R&D Center has been recognized by DSIR (Department of Scientific and Industrial Research). Khosla Machines Pvt. Ltd. is an ISO 9001 and CRISIL certified company.



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PACKING PERFECTLY! Vertex 450B

Vertical form Fill & Seal Machine customized
for packing Detergent



www.khoslamachines.com



*We've Given Main Emphasis
For Designing This Machine*

1 MINIMUM PRODUCT GIVE-AWAY

The best way to dose these products is by gravimetric filling as volumetric filling can never be accurate as not only the density of the product keeps varying but the composition also. A small error of 2% can result into huge product give away during the life cycle of the machine e.g. an extra 5 gms per pack of 200 gms pouch means a product give-away of more than 100 tons annually, assuming 3-shift operation. Vertex 450B uses servo controlled belt feed system with variable opening shutters in combination with highly accurate load cells ensures highest accuracy of weighing every cycle.

2 SIZE FLEXIBILITY

There is a very important requirement of quick change-over for different weights of products. The machine should have the capability of packing entire range of products of the user. Vertex 450B can pack 200 gms to 2000 gms size on the same machine. All settings like differential speeds of belts, shutter timings, wrapper feed and temperature settings can be saved as recipes on HMI which can be quickly recalled when size is changed, thus saving downtime during change-over. Many variants and Promo Packs that are close to standard sizes (for example, 250 gms or 150 gms are close to the standard size of 200 gms) can be run without additional change parts by changing the length of the pouch.

VFFS MACHINE Vertex 450B

Vertex 450B model has been developed specifically for packing granular / powdery materials like Detergent.

3 SPEED

Process of filling by weight is slower than volumetric filling. To overcome this, Vertex 450B uses 4 independent weight feeder systems to 4x the speed of weightment. Wrapper feed and cross sealer use servo drives to obtain best speeds possible for this type of machine.

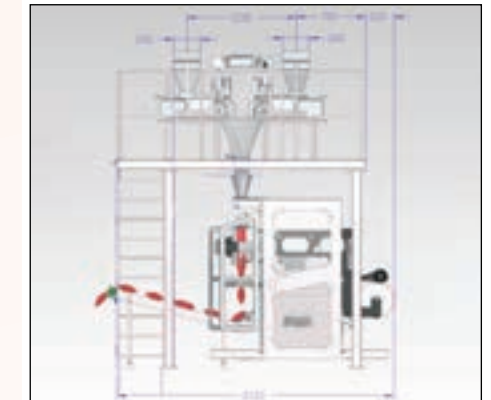
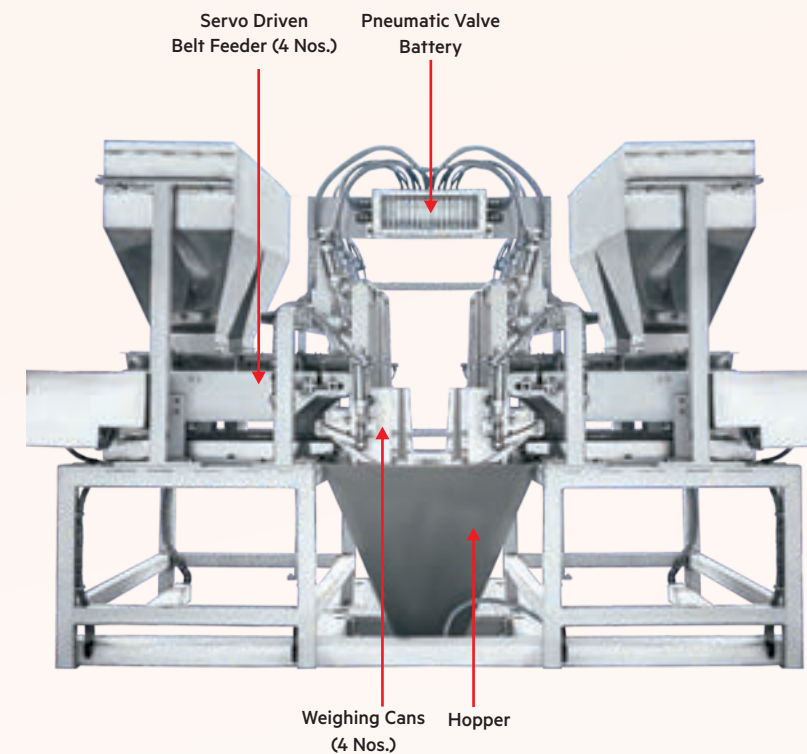
4 OVERALL EFFICIENCY

Industry demands ever increasing overall efficiency from packaging machines. Vertex 450B is fitted with the equipment from world leading manufacturers –

- Servo Controls and Automation from Rockwell.
- Pneumatics from Festo
- Load Cell from Mettler Toledo
- Conveyor Belts from Habasit, Linear drives from THK
- Bearings from SKF (direct from their factory). Combined with solid build quality it ensures minimum downtime losses because of component failures.

Vertex 450B meets high standards of Safety & GMP. This makes Vertex 450B the most desirable VFFS machine for packing like products.

Belt Feed Weighmetric Feed System



Vertex 450B

