

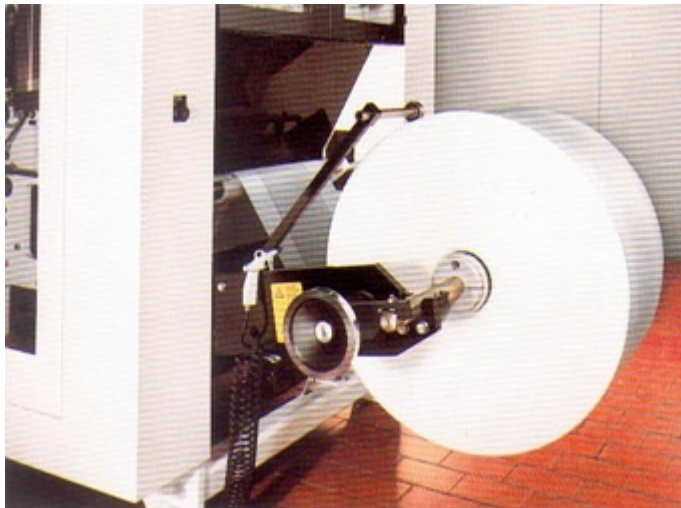


TOPAS FILLING MACHINE

PURPOSE

TOPAS® filling machine produced by Windmoller & Holscher (Germany) mounted by specialists of Energocomplekt CJSC on the petrochemical factory of Salavatnefteorgsintez OJSC is intended for packing of various products as low-flow as well as low-flow and dust-forming products, which dust complicates sealing the top edge of a bag. The machine is capable to make bags from tubular single-layered and multilayered film, to fill the bag with specified quantity of a product, and to seal the top edge of the bag for one step of the machine work.

TOPAS® can be supplied in variants of various capacities; thus, the ideal machine for satisfaction of customer's requirements on packing can be chosen, from the smallest up to the largest volumes of loose products. Due to the expanded dimensional range, weights from 5 kg up to 50 kg can be filled depending on product density and equipment specification. Change of product and tubular film for packing is performed simply and quickly. There is no necessity for change of machine parts; meanwhile, all necessary adjustments of the machine are carried out automatically. The compact machine design requires minimal space; depending on specific requirements of the customer, it can be delivered in stationary or mobile embodiments (rails, air cushion, or wheels) for filling bags from different pipelines or different bunkers. The machine guarantees production of strong bags of the stable form, consumption of packing material to the minimum, and, as a result, the minimal cost of each bag packing.

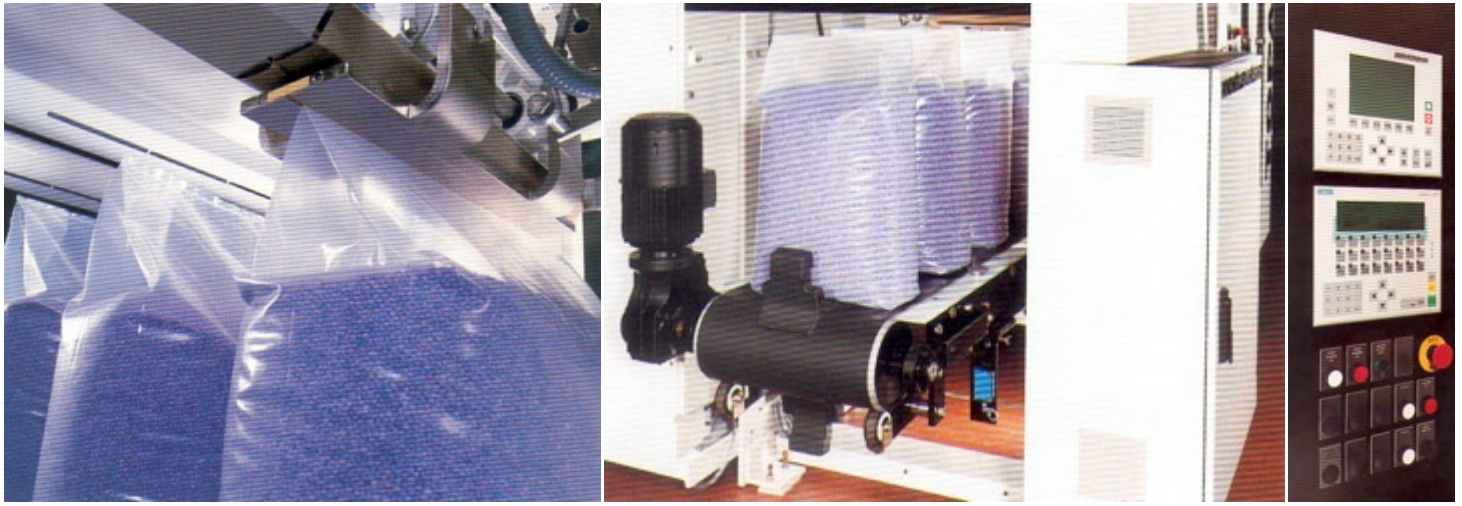


CONTENTS

The machine comprises:

- I hydraulically controlled integrated unwinding device for the roll film;
- I angular sealing device for hardening of sealed corners and stabilizing the bags (optional);
- I section of bag production;
- I patented loading funnel;
- I station of the filled bags sealing;
- I dust cleaning station for strong sealing of bags with dust-forming product (optional);
- I output conveyor with bags stirring device;
- I integrated control panel of the filling machine and of electronic batching scales.

The machine form factor provides large windows for supervision over each operation that is carried out currently. Protective doors provide convenient access to units of the machine for cleaning and servicing. The machine is delivered completely assembled and tested; that guarantees fast installation and start-up of the packing machine.



SPECIFICATIONS

Product	Granulated polyethylene, powdered PVC, granulated sugar, etc.
Grain	1-3 mm
Bulk density	0.6 kg/l
Bulk angle	24-28°
Bag type	Bags from tubular film
Weight of full bag	5 – 50 kg
Dimensions of full bag	Length: 600-680 mm Width: 450-460 mm Height: 160-180 mm
Capacity, max.	1,800 bags/hour
Operating voltage	380 V, 50 Hz, 3-phased
Control oscillation	+ 5 %
frequency oscillation	+ 1%
Limit switches	IP 54
Distribution cabinets	IP 55
Motor assembly class	F
Standards	DIN and GOST

Energocomplekt OJSC performed delivery, adjustment, training of the service personnel for the TOPAS® filling machine at the petrochemical factory of Salavatnefteorgsintez OJSC; presently, the machine is on the warranty service.

Term of the equipment delivery is 6 months from the moment of contract signing and advance payment.