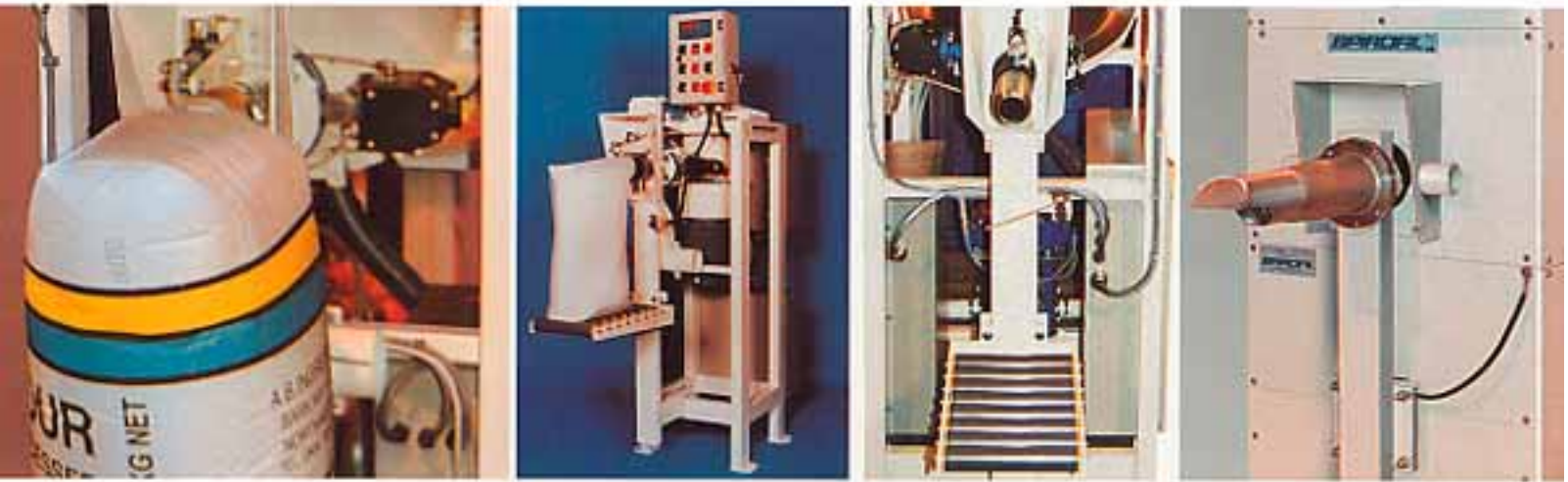


# SPIROFLOW

POWDER HANDLING SYSTEMS



bag packing  
systems



# bag packing systems the product range

- ◆ Robust and reliable, designed for 24 hour operation.
- ◆ Developed over many years using well proven principles.
- ◆ Low maintenance, minimum of moving parts.
- ◆ Electronic load cell weighing and PLC controller, NEMA approved.
- ◆ Easily adjustable control with full management data.
- ◆ Full design, testing and service back-up assured.
- ◆ Full range of options - applicators and take-off conveyors.
- ◆ Automatic in-flight compensation.

Our range of bag packers has been designed and developed over many years to provide efficient and reliable packing of any kind of dry product. Test and design facilities are at our customers disposal to ensure that equipment is suitably matched to the flow properties and output demands of the product being packed. Our vast material test database and over 25 years experience in powder handling means we have the know-how to satisfy your filling needs.



A full range of options are also available which include bulk storage hoppers, bag applicators, feed systems and take-off conveyors to give you a total bag packing solution with greater operational flexibility.

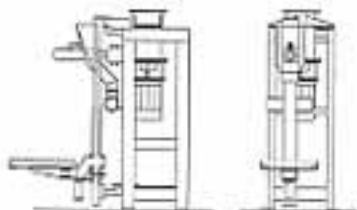
All throughputs quoted depend on material and operator efficiency

We recommend testing to match the right machine for the material and output requirements.

## Turbo Packer

This new generation of dust-free impeller packers for 50-100 lb bags offer high speed handling of a wide variety of products on the same machine.

Extensive testing and operational trials at plants packing many other different products have proved its versatility and efficiency. The Turbo Packer has adjustable weight control with full management data and is built for continuous operation.



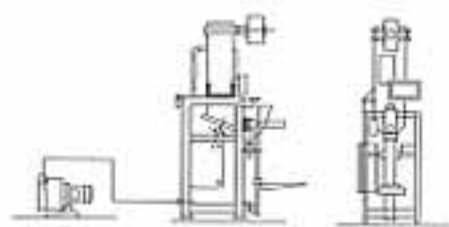
The machine packs a wide range of products and has full design, test and service back-up assured.

The major advantages of this packer is the minimal maintenance, the advanced dust control and the robust and reliable design.



### Force Flow packer

The Force Flow Packer is an extremely versatile machine which will pack a wide range of difficult to handle powders and granular materials into a variety of bags including coarse granular or heat sensitive products. The principle of operation is fluidization. The product is made to flow by supporting the particles on an upward airstream. During the filling operation the powder chamber is pressurised, forcing the fluidised material through the filling tube whenever the outlet valve is operated.

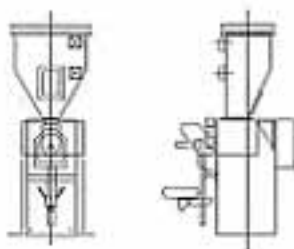


This machine will fill most types of paper or vented polyethylene valve bags at up to five bags per minute. Higher speeds are obtained by combining several machines in a single operation. One unskilled operator can control up to four machines if required. Accuracy in weighing is achieved by load cell with digital read-out.

### Impeller Packer

The design of the Impeller Packer enables a wide range of ground rock and powdered mineral products to be packed into valve bags.

The simplicity of design and operating procedures provide customers with a functional and durable machine which can be operated by unskilled labour.

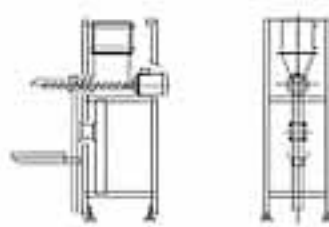


Most types of paper or plastic bag can be filled at the rate of up to four per minute. Higher speeds are possible by combining several machines for single operation.

Precision weighing is achieved by the use of load cell with digital readout.

### Screw Packer

For low volume users this machine has the added advantage of being able to handle poor flowing materials which require the positive action of powdered screw to perform the packing process. An important feature of the packer is an integral ribbon type agitator in the feed hopper to ensure continuous discharge of material into the feed screw. This allows a wide range of products with differing flow properties to be packed by the standard machine.



The feed screw has variable speed control, allowing adjustment of fast feed and final dribble feed to ensure accurate weight. Bags ranging from 20lb - 100lb may be filled on the screw packer and two or more units may be linked and controlled by one operator. Versions are offered for both valve and open bags. A pneumatic clamping unit is provided for open-neck bags for quick attachment to the filling head.

# SPIROFLOW

P O W D E R   H A N D L I N G   S Y S T E M S

	FORCE FLOW AIR PACKER	IMPELLER STANDARD	IMPELLER TURBO	SCREW PACKER	
<b>APPLICATION SUMMARY</b>	Gross weighing and filling of powdered and granular products ranging from 1 micron $\frac{1}{2}$ (3mm) in size. Density can be as low as 5lb/ft <sup>3</sup> (80kg/m <sup>3</sup> )	Gross weighing and filling of fine powders, particularly suitable for ground rock products.	Universal machine suitable for most products.	Cost effective packer for low volume users - handles poor flowing products.	
<b>BAG TYPE</b>	<b>BAG SIZE</b>	<b>OUTPUT IN TONS PER HOUR</b>			
INTERNAL SLEEVE	50lb/(25kg)	6	4 $\frac{1}{2}$	5/6	2
	100lb/(50kg)	12	12	10/12	3
TUCK-IN-SLEEVE	50lb/(25kg)	4 $\frac{1}{2}$	3	3/4	2
	100lb/(50kg)	10	10	6/8	3
OPEN NECK	50lb/(25kg) 100lb/(50kg)				2/3
All throughputs quoted depend on material and operator efficiency. We recommend testing to match the right machine for the material and output requirements.					
SERVICES	FORCE FLOW AIR PACKER	IMPELLER STANDARD	IMPELLER TURBO	SCREW PACKER	
CONTROL AIR	7 Cu Ft (200L ) (per bag) filled at 80psi (5.5 bar)				
AIR CONSUMPTION	50cfm (1400L ) at 5psi (0.35 bar )				
ELECTRICAL POWER CONSUMPTION	Blower Unit 5 $\frac{1}{2}$ hp (4Kw)	7hp (5.5 Kw)	5 $\frac{1}{2}$ hp (4Kw)	2hp (1.5 Kw)	
CONTROL VOLTAGE	To suit customer's available power supply.				
DIMENSIONS					
(Overall) H x L x W	ins 110" x 60" x 26"	58" x 83" x 29"	65" x 53" x 22"	65" x 43" x 20"	
	mm 2791 x 1520 x 660	1470 x 2100 x 735	1640 x 1350 x 550	1650 x 1100 x 510	
CUT OFF VALVE	2 position side valve for fast / slow fill.				
WEIGHING SYSTEM	Microprocessor controlled load cell with digital display, auto tare (and full management data if required).				
DUST EXTRACTION	Connections provided for extraction intakes.				
CONTROL SYSTEM	PLC or relay control logic.				
BAG CHAIR	Pivoted and adjustable to suit all bag sizes.				
CONSTRUCTION	Stainless steel contact parts if required.				

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