

# MAX-F 42 VA



## Technical data

Internal chamber dimensions	450 x 460 x 230 mm*
External dimensions	540 x 650 x 1000 mm*
Seal length	420 mm
Vacuum pump	21 m <sup>3</sup> /h or 25 m <sup>3</sup> /h
Weight	96 kg or 109 kg
Connections	1 phase, 230 V, 50 Hz** 3 phases, 230 / 400 V, 50 Hz**

\* width x depth x height  
\*\* special voltages upon request

## Sealing system



Quantity and position of the sealing bars according to individual agreement.



## BOSS quality characteristics

made in Germany



### Longevity

BOSS vacuum machines are made exclusively with high-quality individual components: rust-free stainless steel, splashproof elements and Busch high-performance pumps - 100% Made in Germany. Clear structure, robust technology and sophisticated design guarantee long-lasting operational readiness.



### User-friendliness

Our intuitive Z 3000 sensor control unit permits simple and precise setting of important operating parameters. Pre-set values can be recalled via the memory function. The well-thought-out and ergonomic construction of the machines permits user-friendly working and guarantees optimum packaging results.



### Sealing

The perfect synergy of contact pressure, sealing temperature and sealing time produces optimum fusing results. Our high-pressure sealing systems ensure consistent sealing results even with thicker types of bag. Optionally the machine can be fitted out with a bi-active welding (top/bottom welding).



### Customer Service and Consultation

As the market leader in packing electronic, moisture-sensitive components we have extensive knowledge of the current packing standards (IPC/JEDEC 33b). At the same time, we orient ourselves to the manifold challenges of our customers. Together we prepare solution strategies for complex operational requirements in your component logistics.

## Machine structure



## Standards

The design, processing and control of our machines are oriented to the requirements of the IPC and ESD regulations. An optimum packing outcome is ensured from the interplay of high-grade sealing systems and precision setting of vital process parameters.

### JEDEC 033b / IPC



#### Benefits

- Lengthening the processing times of electronic components
- Stopping the floor-life-time
- Lowering the relative air humidity (rF<5%)
- Safe handling under a controlled atmosphere
- Ideal for dry pack production

### Packing under an inert gas atmosphere



#### Benefits

- Slowing down the oxidation process
- Reducing the diffusion speed
- Maximum lowering of the moisture and oxygen content in the packing
- Protection of pressure-sensitive components
- Optimal for long-term storage

### ESD type



#### Benefits

- Design as per ESD standard EN 61340-5-1
- Bleeder resistance of  $10^{-6}$
- Sustained processing of antistatic materials

## Control unit

### Control unit Z 3000

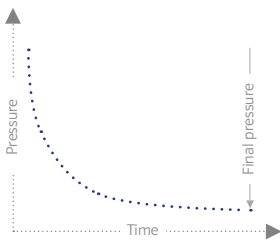
Our Z 3000 sensor control is equipped with a precision vacuum sensor and permits precise setting of important operating parameters. Vacuum, gas and sealing.



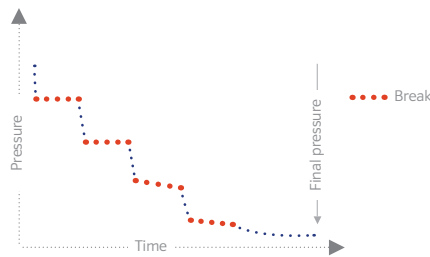
### Benefits

- User-friendliness
- 99-programme memory
- Clear depiction of individual parameters
- Break function for immediate process cancellation
- H2O sensor for automatic packaging of liquid products flexibly adjustable according to customer requirements
- Quick-stop function, including sealing function
- Incremental vacuum function for slowly degassing products
- Cyclic vacuum permits multiple flushing of the bag
- Continuous running - service programme for automatically cleaning the vacuum pump
- Separately controllable sealing systems
- Splashproof design
- Soft-air function for gentle back ventilation (optional)
- Individual setting of cooling, pressing on and back ventilation times
- Operating hours counter for monitoring service intervals

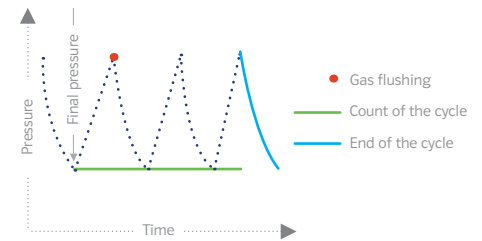
### Final pressure evacuation with auto-stop function



### Incremental vacuum

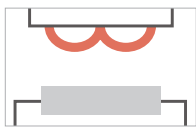
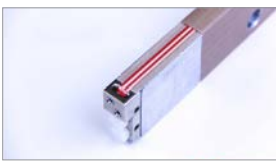


### Cyclic vacuum

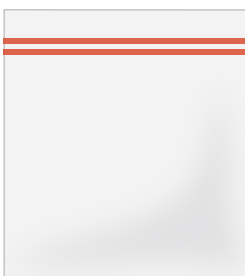


## Welding systems

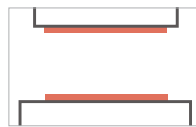
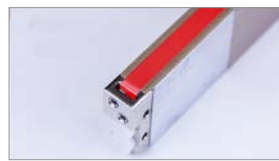
### Dual seam sealing



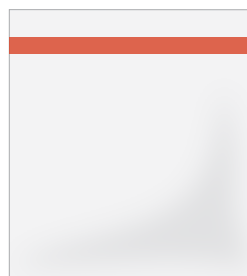
Double flat wire: 6 x 0,3 mm



### Bi-active welding (top/bottom welding)



Flat wire top: 8 x 0,2 mm  
Flat wire bottom: 6 x 0,2 mm



## BUSCH vacuum pump

Our BOSS vacuum packaging machines are fitted with powerful oil-driven rotary disc vacuum pumps made by the Busch Company.



### Benefits

- Reduction of oxygen content by up to max. 0.1%
- Constant high vacuum level
- Optimum conservation of moisture-sensitive and/or oxygen-sensitive products
- Long-term replacement part guarantee
- Service-friendly design
- Technically mature, long-life technology Made in Germany
- Gas ballast valve for the evacuation of larger quantities of steam

### Technical data

Nominal pumping speed	21 m <sup>3</sup> /h	25 m <sup>3</sup> /h
Ultimate pressure (mBar)	1	0,1
Nominal motor rating (kW)*	~ 0,75	~ 1
Nominal motor speed (U/min)	3000	1500
Noise level (ISO 2151) (dB)	66	60
Oil capacity (liter)	0,45	1

\* depends on the voltage supply

## Options

1. Gas flush device with 2 nozzles
2. Separately adjustable cut-off seal
3. Top/bottom welding (not possible in combination with separately adjustable cut-off seal)
4. Slow air release
5. Inspection glass in the lid
6. Pump 25 m<sup>3</sup>/h, 1 phase, 230 V, 50 Hz / A.C. or 3 phases, 230/400 V, 50 Hz, D.C.
7. Set of wearing parts (teflon, wire, lid gasket, silicone for pressure bar)
8. Export packaging (stable cardboard box on wooden pallet)

