

# VACUUM PACKAGING MACHINES



Vacuum machines · Automatic packaging lines

**AIR CAN  
PACK UP AND GO.**



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# BASIC LINE





## BASIC LINE

**Vacuum technology to the point.  
All important functions in reliable  
BOSS quality. The basic machine  
line – for all who care about the  
essentials.**

- ✓ Compact
- ✓ User-friendly
- ✓ Low-cost



Tabletop machines

## BASIC 42



|                            |                         |
|----------------------------|-------------------------|
| Intern. chamber dimensions | 450 x 460 x 210 mm*     |
| External dimensions        | 540 x 560 x 410 mm*     |
| Seal length                | 420 mm                  |
| Vacuum pump                | 16 m <sup>3</sup> /h    |
| Control system             | Z 2000-B                |
| Weight                     | 56 kg                   |
| Power supply               | 1 phase, 230 V, 50 Hz** |



**Germanmade**

\* width x depth x height

\*\* special voltages upon request



## Floor-standing machines

### BASIC-F 46



|                            |                                 |
|----------------------------|---------------------------------|
| Intern. chamber dimensions | 650 x 475 x 210 mm*             |
| External dimensions        | 750 x 630 x 990 mm*             |
| Seal length                | 460 mm                          |
| Vacuum pump                | 40 m <sup>3</sup> /h XL**       |
| Control system             | Z 2000-B                        |
| Weight                     | 109 kg                          |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz*** |



\* width x depth x height  
 \*\* equipped with Becker pump  
 \*\*\* special voltages upon request

### BASIC-F 700



|                            |                                              |
|----------------------------|----------------------------------------------|
| Intern. chamber dimensions | 850 x 615 x 225 mm*                          |
| External dimensions        | 970 x 870 x 1070 mm*                         |
| Seal length                | 520 mm   760 mm                              |
| Vacuum pump                | 63 m <sup>3</sup> /h   100 m <sup>3</sup> /h |
| Control system             | Z 4000-4 SENSOR                              |
| Weight                     | 216 kg   234 kg                              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz**               |



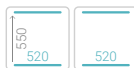
**Germanmade**

\* width x depth x height/  
 above the conveyor belt  
 \*\* special voltages upon request



## Double chamber machines

### BASIC-X 520



|                            |                                              |
|----------------------------|----------------------------------------------|
| Intern. chamber dimensions | 610 x 670 x 210 mm*                          |
| External dimensions        | 1390 x 1030 x 1100 mm*                       |
| Seal length                | 520 mm                                       |
| Vacuum pump                | 63 m <sup>3</sup> /h   100 m <sup>3</sup> /h |
| Control system             | Z 4000-4 SENSOR                              |
| Weight                     | 262 kg   282 kg                              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz**               |

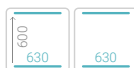


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\* width x depth x height/  
above the conveyor belt

\*\* special voltages upon request

### BASIC-X 630



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 710 x 720 x 220 mm*            |
| External dimensions        | 1590 x 1120 x 1100 mm*         |
| Seal length                | 630 mm                         |
| Vacuum pump                | 100 m <sup>3</sup> /h          |
| Control system             | Z 4000-4 SENSOR                |
| Weight                     | 354 kg                         |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz** |



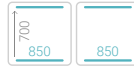
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\* width x depth x height/  
above the conveyor belt

\*\* special voltages upon request



## BASIC-X 850



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 930 x 820 x 230 mm*            |
| External dimensions        | 2040 x 1220 x 1100 mm*         |
| Seal length                | 850 mm                         |
| Vacuum pump                | 160 m <sup>3</sup> /h          |
| Control system             | Z 4000-4 SENSOR                |
| Weight                     | 585 kg                         |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz** |



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\* width x depth x height/  
above the conveyor belt

\*\* special voltages upon request

|                                      | Z 2000-B | Z 4000-4<br>SENSOR |
|--------------------------------------|----------|--------------------|
| Intuitive user interface             | ✓        | ✓                  |
| Spray water protection               | ✓        | ✓                  |
| Quick-Stop function                  | ✓        | ✓                  |
| Service program                      | ✓        | ✓                  |
| Break function                       | ✗        | ✗                  |
| 99 memory slots                      | ✗        | ✓                  |
| Variable Step/Cyclic Vacuum function | ✗        | ✗                  |
| Vacuum-shock function                | ✗        | ✗                  |
| Boiling point recognition            | ✗        | ✗                  |
| H <sub>2</sub> O program             | ✗        | ✓                  |
| Precision sensor for vacuum and gas  | ✗        | ✓                  |
| Separately controlled weld systems   | ✗        | ✓                  |
| Key-lock                             | ✗        | ✗                  |
| Touch screen display                 | ✗        | ✗                  |
| Verifiability                        | ✗        | ✗                  |



**Z 4000-4  
SENSOR**

**Z 2000-B**

✓ standard

✗ not available

# PROFESSIONAL LINE











Vacuum machines

I award  
5 stars to Boss  
Vakuum.

**DANIEL RUNDHOLZ**

**Chef de Cuisine**

*Hotel & Landhaus Wachtelhof*



## Tabletop machines

### MINI MAX



|                            |                                           |
|----------------------------|-------------------------------------------|
| Intern. chamber dimensions | 285 x 350 x 105   150 mm*                 |
| External dimensions        | 360 x 505 x 240   330 mm*                 |
| Seal length                | 260 mm                                    |
| Vacuum pump                | 4 m <sup>3</sup> /h   8 m <sup>3</sup> /h |
| Control system             | Z 2001 SENSOR                             |
| Weight                     | 28 kg   33 kg                             |
| Power supply               | 1 phase, 230 V, 50 Hz                     |



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\* width x depth x height

### MAX



|                            |                                             |
|----------------------------|---------------------------------------------|
| Intern. chamber dimensions | 350 x 400 x 125   180 mm*                   |
| External dimensions        | 430 x 550 x 340   400 mm*                   |
| Seal length                | 320 mm                                      |
| Vacuum pump                | 10 m <sup>3</sup> /h   16 m <sup>3</sup> /h |
| Control system             | Z 2001 SENSOR                               |
| Weight                     | 48 kg   50 kg                               |
| Power supply               | 1 phase, 230 V, 50 Hz                       |



**Germanmade**

\* width x depth x height

## MAX 42 | MAX 42-S



|                            |                               |
|----------------------------|-------------------------------|
| Intern. chamber dimensions | 450 x 460 x 210 mm*           |
| External dimensions        | 540 x 560 x 410 mm*           |
| Seal length                | 420 mm                        |
| Vacuum pump                | 16 m³/h   21 m³/h   40 m³/h** |
| Control system             | Z 2001 SENSOR   Z 3000        |
| Weight                     | 69 kg   72 kg   79 kg**       |
| Power supply               | 1 phase, 230 V, 50 Hz         |



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\* width x depth x height  
\*\* equipped with a Becker pump

## MAX XL | MAX XL-DD



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 580 x 350 x 125 mm   180 mm* |
| External dimensions        | 670 x 500 x 340 mm   400 mm* |
| Seal length                | 320 mm                       |
| Vacuum pump                | 10 m³/h   16 m³/h            |
| Control system             | Z 2001 SENSOR                |
| Weight                     | 60 kg   62 kg                |
| Power supply               | 1 phase, 230 V, 50 Hz        |



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\* width x depth x height



## Tabletop machines

### MAX 46-S



|                            |                          |
|----------------------------|--------------------------|
| Intern. chamber dimensions | 650 x 475 x 210 mm*      |
| External dimensions        | 750 x 630 x 410 mm*      |
| Seal length                | 460 mm                   |
| Vacuum pump                | 21 m³/h   40 m³/h***     |
| Control system             | Z 2001 SENSOR   Z 3000** |
| Weight                     | 95 kg   102 kg***        |
| Power supply               | 1 phase, 230 V, 50 Hz    |



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\* width x depth x height  
 \*\* picture with control system Z 3000  
 \*\*\* equipped with a Becker pump

### MAX 36



|                            |                          |
|----------------------------|--------------------------|
| Intern. chamber dimensions | 815 x 390 x 105 mm*      |
| External dimensions        | 910 x 580 x 410 mm*      |
| Seal length                | 360 mm   720 mm   790 mm |
| Vacuum pump                | 21 m³/h   40 m³/h**      |
| Control system             | Z 2001 SENSOR   Z 3000   |
| Weight                     | 95 kg   102 kg**         |
| Power supply               | 1 phase, 230 V, 50 Hz    |



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\* width x depth x height  
 \*\* equipped with a Becker pump





## Floor-standing machines

### MAX-F 42



|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Intern. chamber dimensions | 450 x 460 x 210 mm*                                                   |
| External dimensions        | 540 x 560 x 990 mm*                                                   |
| Seal length                | 420 mm                                                                |
| Vacuum pump                | 21 m <sup>3</sup> /h   25 m <sup>3</sup> /h   40 m <sup>3</sup> /h*** |
| Control system             | Z 2001 SENSOR   Z 3000**                                              |
| Weight                     | 89 kg   96 kg***   104 kg                                             |
| Power supply               | 1 phase, 230 V, 50 Hz<br>3 phases, 230 / 400 V, 50 Hz                 |



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\* width x depth x height  
\*\* picture with control system Z 3000  
\*\*\* equipped with a Becker pump

### MAX-F 46



|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Intern. chamber dimensions | 650 x 475 x 210 mm*                                                   |
| External dimensions        | 750 x 630 x 990 mm*                                                   |
| Seal length                | 460 mm                                                                |
| Vacuum pump                | 25 m <sup>3</sup> /h   40 m <sup>3</sup> /h***   63 m <sup>3</sup> /h |
| Control system             | Z 2001 SENSOR   Z 3000**                                              |
| Weight                     | 117 kg***   130 kg   150 kg                                           |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz                                          |



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\* width x depth x height  
\*\* picture with control system Z 3000  
\*\*\* equipped with a Becker pump



## Floor-standing machines

### MAX-F 50



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 530 x 545 x 180 mm*            |
| External dimensions        | 650 x 700 x 1000 mm*           |
| Seal length                | 500 mm                         |
| Vacuum pump                | 25 m³/h   40 m³/h***   63 m³/h |
| Control system             | Z 2001 SENSOR   Z 3000**       |
| Weight                     | 112 kg***   125 kg   145 kg    |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz   |



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\* width x depth x height  
 \*\* picture with control system Z 3000  
 \*\*\* equipped with a Becker pump

### TITAN-F 800



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 845 x 600 x 210   280 mm*    |
| External dimensions        | 900 x 900 x 1100 mm*         |
| Seal length                | 480 mm   550 mm   810 mm     |
| Vacuum pump                | 63 m³/h   100 m³/h           |
| Control system             | Z 3000                       |
| Weight                     | 252 kg   270 kg              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



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\* width x depth x height

## TITAN-F 1000



|                            |                                           |
|----------------------------|-------------------------------------------|
| Intern. chamber dimensions | 1015 x 675 x 210   280 mm*                |
| External dimensions        | 1100 x 1000 x 1070 mm*                    |
| Seal length                | 550 mm   630 mm   980 mm                  |
| Vacuum pump                | 100 m³/h   160 m³/h   250 m³/h   300 m³/h |
| Control system             | Z 3000                                    |
| Weight                     | 325 kg   395 kg                           |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz              |



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\* width x depth x height

## TITAN-F 1000 XL



|                            |                                   |
|----------------------------|-----------------------------------|
| Intern. chamber dimensions | 1015 x 805 x 210   280 mm*        |
| External dimensions        | 1100 x 1170 x 1100 mm*            |
| Seal length                | 600 mm   680 mm   760 mm   980 mm |
| Vacuum pump                | 160 m³/h   250 m³/h   300 m³/h    |
| Control system             | Z 3000                            |
| Weight                     | 355 kg   425 kg                   |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz      |



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\* width x depth x height



## Double chamber machines

### TITAN-X 480



Intern. chamber dimensions 610 x 760 x 200 mm\*

External dimensions 1350 x 1110 x 1090 mm\*

Seal length 480 mm

Vacuum pump 63 m³/h | 100 m³/h

Control system Z 3000

Weight 330 kg | 350 kg

Power supply 3 phases, 230 / 400 V, 50 Hz



**Germanmade**

\* width x depth x height

### TITAN-X 630 S | 630



Intern. chamber dimensions 740 x 660 mm | 860 x 230 mm\*

External dimensions 1600 x 1010 mm | 1210 x 1130 mm\*

Seal length 630 mm

Vacuum pump 63 m³/h | 100 m³/h | 160 m³/h

Control system Z 3000

Weight 385 kg | 405 kg | 475 kg | 410 kg | 480 kg

Power supply 3 phases, 230 / 400 V, 50 Hz



**Germanmade**

\* width x depth x height

## TITAN-X 850



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 960 x 960 x 230 mm*            |
| External dimensions        | 2050 x 1310 x 1130 mm*         |
| Seal length                | 850 mm                         |
| Vacuum pump                | 160 m³/h   250 m³/h   300 m³/h |
| Control system             | Z 3000                         |
| Weight                     | 600 kg   650 kg                |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz   |



**Germanmade**

\* width x depth x height

## TITAN-X 950



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 1060 x 860 x 230 / 280 mm*     |
| External dimensions        | 2250 x 1210 x 1130 mm*         |
| Seal length                | 950 mm                         |
| Vacuum pump                | 160 m³/h   250 m³/h   300 m³/h |
| Control system             | Z 3000                         |
| Weight                     | 610 kg   660 kg                |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz   |



**Germanmade**

\* width x depth x height



## Vertical and special purpose machines

### V 42 VA



|                            |                       |
|----------------------------|-----------------------|
| Intern. chamber dimensions | 440 x 445 x 180 mm*   |
| External dimensions        | 600 x 700 x 700 mm*   |
| Seal length                | 420 mm                |
| Vacuum pump                | 21 m <sup>3</sup> /h  |
| Control system             | Z 3000                |
| Weight                     | 85 kg                 |
| Power supply               | 1 phase, 230 V, 50 Hz |



**Germanmade**

\* width x depth x height

### V 50 VA



|                            |                                             |
|----------------------------|---------------------------------------------|
| Intern. chamber dimensions | 530 x 545 x 185 mm*                         |
| External dimensions        | 650 x 700 x 1530 mm*                        |
| Seal length                | 520 mm                                      |
| Vacuum pump                | 25 m <sup>3</sup> /h   63 m <sup>3</sup> /h |
| Control system             | Z 3000                                      |
| Weight                     | 150 kg   170 kg                             |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz                |



**Germanmade**

\* width x depth x height



## V 810 VA



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 850 x 670 x 200 mm*          |
| External dimensions        | 1070 x 1000 x 1980 mm*       |
| Seal length                | 810 mm                       |
| Vacuum pump                | 100 m³/h   160 m³/h          |
| Control system             | Z 3000                       |
| Weight                     | 400 kg   470 kg              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



**Germanmade**

\* width x depth x height

## VX 630 VA



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 740 x 860 x 230 mm*          |
| External dimensions        | 1600 x 1100 x 1300 mm*       |
| Seal length                | 630 mm                       |
| Vacuum pump                | 100 m³/h   160 m³/h          |
| Control system             | Z 3000                       |
| Weight                     | 340 kg   410 kg              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



**Germanmade**

\* width x depth x height



## Vertical and special purpose machines

### MAX-F 50 D

Can sealing machine



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 530 x 545 x 110 mm*          |
| Can height   can weight    | max. 56 mm   max. 1 kg       |
| External dimensions        | 740 x 820 x 1010 mm*         |
| Seal length                | 500 mm                       |
| Vacuum pump                | 25 m³/h   63 m³/h            |
| Control system             | Z 3000 Sensor                |
| Weight                     | 125 kg   145 kg              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



**Germanmade**

\* width x depth x height

### AVS 1600

Vacuum nitrogen cabinet



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 450 x 550 x 700 mm*          |
| External dimensions        | 700 x 750 x 1450 mm*         |
| Vacuum pump                | 63 m³/h                      |
| Control system             | T5                           |
| Weight                     | 295 kg                       |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



**Germanmade**

\* width x depth x height

## NE 63 VA



|                            |                              |
|----------------------------|------------------------------|
| Intern. chamber dimensions | 750 x 510 x 180 mm*          |
| External dimensions        | 820 x 720 x 1000 mm*         |
| Seal length                | 480 mm                       |
| Vacuum pump                | 63 m³/h   100 m³/h           |
| Control system             | Z 3000                       |
| Weight                     | 182 kg   200 kg              |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz |



**Germanmade** \* width x depth x height

## NE 14 VA



|                            |                                 |
|----------------------------|---------------------------------|
| Intern. chamber dimensions | 825 x 660 x 200   300   420 mm* |
| External dimensions        | 910 x 930 x 990   1200 mm*      |
| Seal length                | 650 mm   800 mm                 |
| Vacuum pump                | 100 m³/h   160 m³/h             |
| Control system             | Z 3000                          |
| Weight                     | 320 kg   390 kg                 |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz    |



**Germanmade** \* width x depth x height

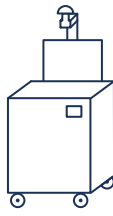
## NE 800 E2 | NE 1000 E2



|                            |                                                      |
|----------------------------|------------------------------------------------------|
| Intern. chamber dimensions | 850 x 600 x 250 mm   1175 x 600 x 250 mm*            |
| External dimensions        | 980 x 1200 x 1220 mm   1260 x 1200 x 1220 / 1670 mm* |
| Seal length                | 810 mm   1100 mm                                     |
| Vacuum pump                | 100 m³/h   160 m³/h   250 m³/h   300 m³/h            |
| Control system             | Z 3000                                               |
| Weight                     | 300 kg   370 kg   420 kg   470 kg                    |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz                         |



**Germanmade** \* width x depth x height



Shrink dip tanks



## ATT 46 A



|                           |                                         |
|---------------------------|-----------------------------------------|
| Dipping basket dimensions | 600 x 400 mm*                           |
| External dimensions       | 700 x 670 x 1670 mm*                    |
| Immersion depth           | 250 mm                                  |
| Max. payload              | 35 kg                                   |
| Working height            | 900 mm (measured from the floor)        |
| Water tank                | approx. 100 liter                       |
| Weight                    | approx. 110 kg                          |
| Power supply              | 3 phases, 230 / 400 V, 50 Hz / 9,5 kW** |



**Germanmade**

\* width x depth x height

\*\* special voltages upon request

## ATT 86



|                           |                                        |
|---------------------------|----------------------------------------|
| Dipping basket dimensions | 800 x 600 mm*                          |
| External dimensions       | 930 x 850 x 1650 mm*                   |
| Immersion depth           | 250 mm                                 |
| Max. payload              | 35 kg                                  |
| Working height            | 900 mm (measured from the floor)       |
| Water tank                | approx. 180 liter                      |
| Weight                    | approx. 130 kg                         |
| Power supply              | 3 phases, 230 / 400 V, 50 Hz / 19 kW** |



**Germanmade**

\* width x depth x height

\*\* special voltages upon request



# AUTOMATIC PACKAGING LINES



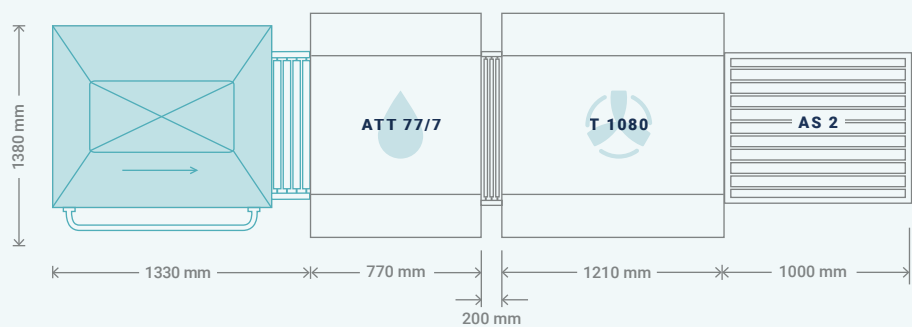




Installation variants

TITAN-F 1000 A | TITAN-F 1000 A/XL

The modular construction of our packaging lines allows adaptation to individual needs in steps. At the maximum expansion stage we aim for a high capacity with the lowest amount of time required for operator attention. The module system allows integration into existing conveying systems.



Advantages

- modular construction of the packaging line
- reduction of operator time required through short routes

Capacity  
1 TITAN-F 1000 A/XL  
parallel sealing



Bag size  
in mm

230 x 350

300 x 400

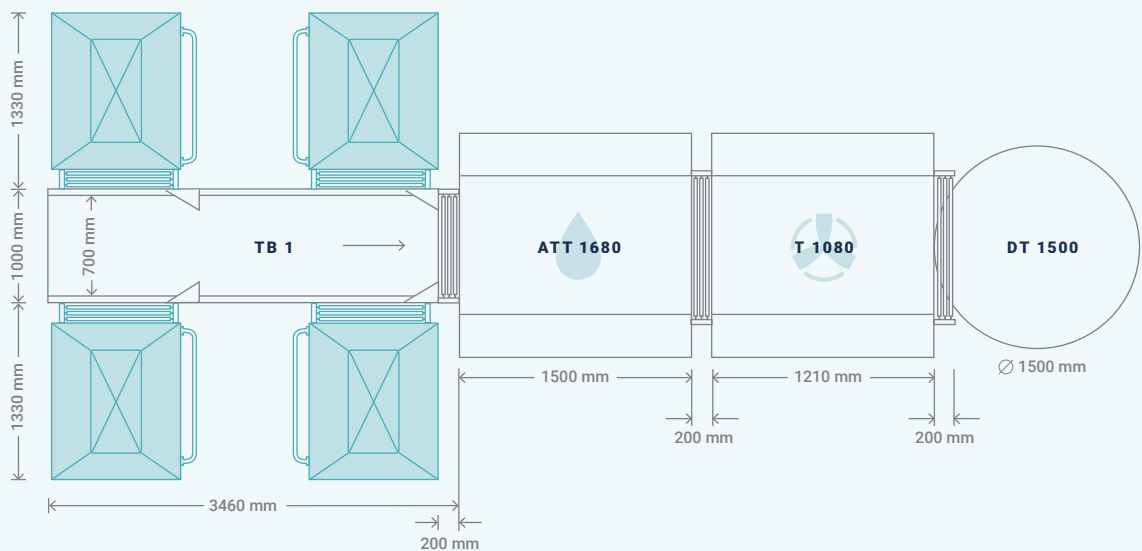
400 x 500

Bags  
per hour

960

720

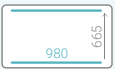
480



Advantages

- modular construction with transport belt  
TB 1: Up to four TITAN-F 1000 A/XL units  
are possible
- maximum economy and efficiency
- parallel welding beam construction offers  
increased packaging capacity

Capacity  
4 TITAN-F 1000 A/XL  
parallel sealing



Bag size  
in mm

230 x 350

300 x 400

400 x 500

Bags  
per hour

3.840

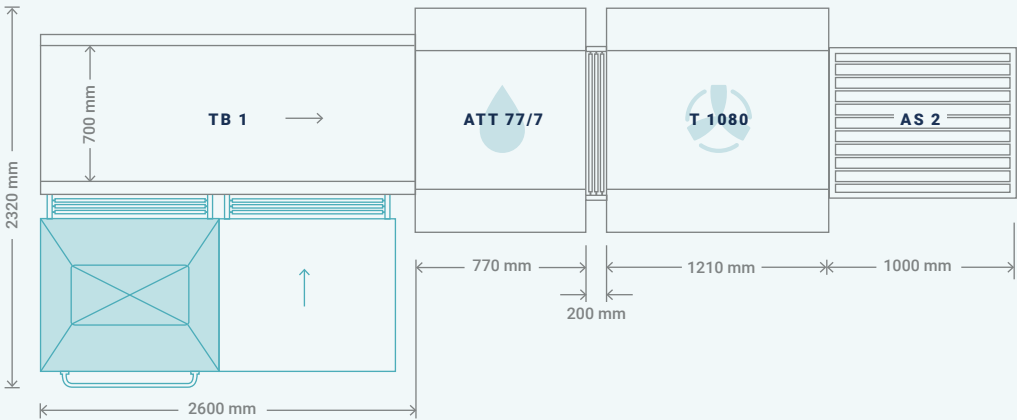
2.880

1.920

Installation variants

TITAN-X 950 A

The double chamber construction of our packaging lines allows an interruption-free packaging process.  
The modular construction of our packaging lines allows adaptation to individual needs in steps.



Advantages

- compact and ergonomic construction
- increase in packaging capacity through automated roller belt

Capacity  
1 TITAN-X 950 A  
double L-sealing



Bag size  
in mm

230 x 350

300 x 400

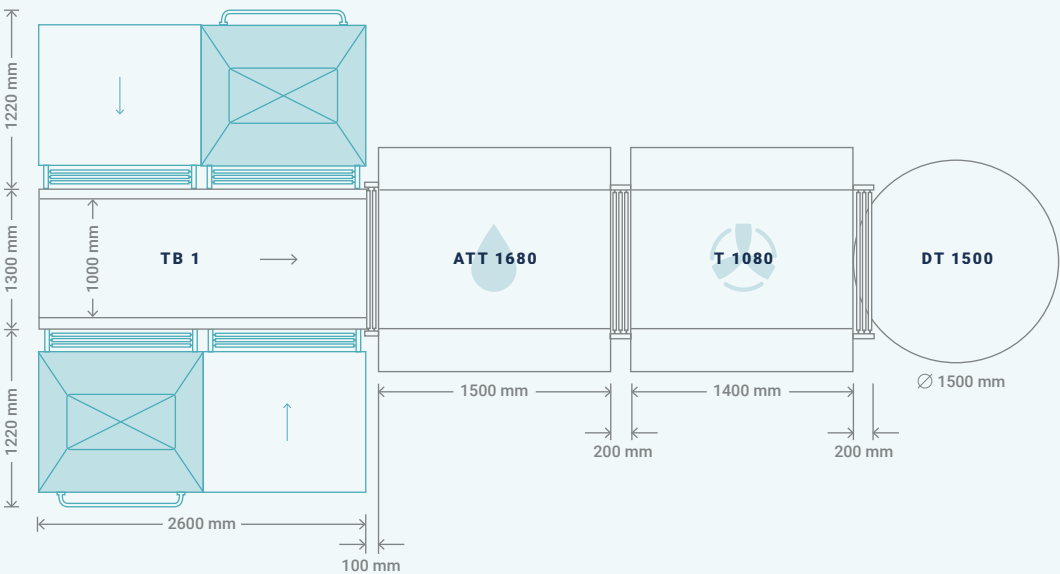
400 x 500

Bags  
per hour

720

480

360



Advantages

- redundant system ensures process reliability
- larger drying and shrinking tunnels possible
- reduction of operator time required through short routes

Capacity  
2 TITAN-X 950 A  
double L-sealing



Bag size  
in mm

230 x 350

300 x 400

400 x 500

Bags  
per hour

1.440

960

720



Automatic  
vacuum machines

Quality is  
important to me.  
That's why  
I choose Boss  
Vakuum.

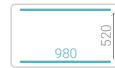
**BERND MIESNER**

**Butcher**  
*Hausschlachtere Miesner*



## TITAN-F 1000 A

with automatic product outlet



Other sealing systems available on request.

|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 1015 x 675 x 280 / 210 mm*     |
| External dimensions        | 1330 x 1000 x 1100 mm*         |
| Seal length                | 550 mm   980 mm                |
| Vacuum pump                | 160 m³/h   250 m³/h   300 m³/h |
| Control system             | Z 3000                         |
| Weight                     | approx. 350 kg   420 kg        |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz** |



**Germanmade**

\* width x depth x height/  
above the conveyor belt  
\*\* special voltages upon request

## TITAN-F 1000 A/XL

with automatic product outlet



Other sealing systems available on request.

|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 1015 x 805 x 280 / 210 mm*     |
| External dimensions        | 1330 x 1170 x 1100 mm*         |
| Seal length                | 600 mm   680 mm   980 mm       |
| Vacuum pump                | 160 m³/h   250 m³/h   300 m³/h |
| Control system             | Z 3000                         |
| Weight                     | approx. 375 kg   450 kg        |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz** |



**Germanmade**

\* width x depth x height/  
above the conveyor belt  
\*\* special voltages upon request

## TITAN-X 950 A

with automatic product outlet



|                            |                                |
|----------------------------|--------------------------------|
| Intern. chamber dimensions | 1060 x 860 x 280 / 210 mm*     |
| External dimensions        | 2250 x 1210 x 1180 mm*         |
| Seal length                | 950 mm   700 mm                |
| Vacuum pump                | 250 m³/h   300 m³/h            |
| Control system             | Z 3000                         |
| Weight                     | approx. 700 kg                 |
| Power supply               | 3 phases, 230 / 400 V, 50 Hz** |

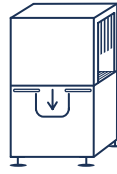


**Germanmade**

\* width x depth x height/  
above the conveyor belt  
\*\* special voltages upon request

All dimensions are approximate.  
We reserve the right to make technical changes  
and improvements without notice.





Automatic shrink  
dip tanks and dryer

High-quality  
packaging  
solutions are  
a key to  
our success.

**MORITZ LAAME**

Proprietor *Laame GmbH*



## ATT 77/7

Automatic shrink dip tank



|                              |                                        |
|------------------------------|----------------------------------------|
| Dipping basket dimensions    | 700 x 650 mm                           |
| Immersion depth   payload    | 250 mm   max. 110 kg                   |
| Working height / belt height | 850–995 mm (measured from the floor)   |
| Water tank                   | approx. 170 liter                      |
| External dimensions          | 770 x 1320 x 1420-1565 mm*             |
| Weight                       | approx. 270 kg                         |
| Power supply                 | 3 phases, 230 / 400 V, 50 Hz / 21 kW** |
| Heating system               | electric/steam heating                 |

\* width x depth x height

\*\* special voltages upon request

## ATT 1080

Automatic shrink dip tank



|                              |                                        |
|------------------------------|----------------------------------------|
| Dipping basket dimensions    | 1000 x 800 mm                          |
| Immersion depth   payload    | max. 250 mm   max. 110 kg              |
| Working height / belt height | 850–995 mm (measured from the floor)   |
| Water tank                   | approx. 340 liter                      |
| External dimensions          | 1210 x 1650 x 1420-1565 mm*            |
| Weight                       | approx. 410 kg                         |
| Power supply                 | 3 phases, 230 / 400 V, 50 Hz / 40 kW** |
| Heating system               | electric/steam heating                 |

\* width x depth x height

\*\* special voltages upon request

## ATT 1680

Automatic shrink tunnel



|                              |                                        |
|------------------------------|----------------------------------------|
| Band size                    | 1400 x 800 mm                          |
| Product height   payload     | max. 250 mm   max. 110 kg              |
| Working height / belt height | 850–995 mm (measured from the floor)   |
| Water tank                   | approx. 380 liter                      |
| External dimensions          | 1500 x 1670 x 1420-1565 mm*            |
| Weight                       | approx. 500 kg                         |
| Power supply                 | 3 phases, 230 / 400 V, 50 Hz / 58 kW** |
| Heating system               | electric/steam heating                 |

\* width x depth x height

\*\* special voltages upon request

## T 1080

Dryer



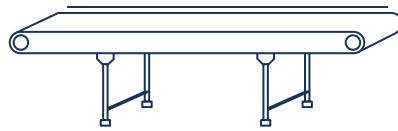
|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Band size                    | 1000 x 800 mm                                     |
| Product height   payload     | max. 250 mm   max. 110 kg                         |
| Working height / belt height | 850–995 mm (measured from the floor)              |
| External dimensions          | 1210 x 1410 x 1420-1565 mm*                       |
| Weight                       | approx. 470 kg                                    |
| Speed                        | manually 2,5 or 9,3 m/min.<br>digital 2–10 m/min. |
| Power supply                 | 3 phases, 230 / 400 V, 50 Hz / 7 kW **            |

\* width x depth x height

\*\* special voltages upon request

All dimensions are approximate.  
We reserve the right to make technical changes  
and improvements without notice.





Individual components for  
packaging lines



## TB 1

Transport belt



|                     |                              |
|---------------------|------------------------------|
| Length              | approx. 2600 mm              |
| Belt width          | 700 mm   1000 mm             |
| External dimensions | 1000 x 2650 x 850 – 1200 mm* |
| Speed               | approx. 200 mm / sec.        |
| Weight              | approx. 115 kg               |
| Power supply        | 3 phases, 230 / 400 V, 50 Hz |

\* width x depth x height

## AT 1

Packing table



|                     |                            |
|---------------------|----------------------------|
| External dimensions | 1500 x 870 x 800 – 950 mm* |
| Weight              | approx. 80 kg              |

\* width x depth x height

## DT 1500

Rotary table



|                     |                                 |
|---------------------|---------------------------------|
| External dimensions | Ø 1500 mm, 800 – 1100 mm        |
| Weight              | 75 kg                           |
| Power supply        | 1 phase, 230 V, 50 Hz / 0,70 kW |

Direction and speed of rotation can be set.

## AS 2 | AS 2.5 | AS 3

Draining stations as alternatives to the DT 1500 rotary table.



|                            |                |
|----------------------------|----------------|
| External dimensions AS 2   | 1000 x 740 mm* |
| Weight                     | approx. 40 kg  |
| External dimensions AS 2.5 | 1500 x 800 mm* |
| Weight                     | approx. 60 kg  |
| External dimensions AS 3   | 1500 x 800 mm* |
| Weight                     | approx. 65 kg  |

\* width x depth x height

All dimensions are approximate.  
We reserve the right to make technical changes  
and improvements without notice.



## Equipment and accessories



## Accessory functions

### Higher performance vacuum pumps

We optionally deliver our vacuum machines with pump sizes up to 300 m<sup>3</sup>/h.



### Lid automation

For automation of your vacuum machine we recommend lid automation. The lid raises and lowers itself automatically at the push of a button.



### Volume reduction

High density contour plates can be positioned inside the lid or the chamber to optimize process times. The result: Faster evacuation and lower usage of inert gas.



### Suction device GN

For suction of Gastro-normed containers our machines can be fitted with a ball valve with suction hose. Suitable for Green-VAC system.



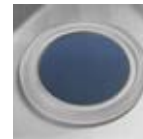
### Soft ventilation

Soft ventilation enables variable duration of re-ventilation after seal-welding and can be customized according to the product. For sharp edged products a longer duration is preferable so the pouch can slowly and gently envelope the product.



### Lid inspection window

All devices with stainless-steel lid can be supplied with a 10 cm inspection window for process surveillance. Custom sizes upon request.



### External control unit

To enable intensive cleaning processes the control unit can be positioned above the device on a stainless-steel arm and housing.



### Gassing unit

The removable inert-gas unit MAP (Modified Atmosphere Packaging) is suitable for highly pressure sensitive products to extend durability and color conservation.



### Undercarriage

Table-top devices are turned into mobile units in combination with a stainless-steel undercarriage including two shelves for bag storage. Adjustable castoring-wheels ensure a secure stance.



### Lid heights

By default, we offer chamber operating heights from 105 to 420 mm. Alternatively we can supply custom lid heights upon request.



### Slanted bag holder

Our height adjustable slanted insert facilitates packaging of liquids and prevents leakage during the vacuum sealing process.



## Control systems

The Z 2001 SENSOR, Z 3000 and T5 are programmable sensor-controlled units. Additionally, the T5 unit is verifiable.

|                                      | Z 2001<br>SENSOR | Z 3000 | T5 |
|--------------------------------------|------------------|--------|----|
| Intuitive user interface             | ✓                | ✓      | ✓  |
| Spray water protection               | ✓                | ✓      | ✓  |
| Quick-Stop function                  | ✓                | ✓      | ✓  |
| Service program                      | ✓                | ✓      | ✓  |
| Break function                       | ✗                | ✓      | ✓  |
| 99 memory slots                      | ✓                | ✓      | ✓  |
| Variable Step/Cyclic Vacuum function | ✗                | ✓      | ✓  |
| Vacuum-shock function                | ✗                | ✓      | ✓  |
| Boiling point recognition            | ✗                | ✓      | ✓  |
| H <sub>2</sub> O program             | ✓                | ✓      | ✓  |
| Precision sensor for vacuum and gas  | ✓                | ✓      | ✓  |
| Separately controlled weld systems   | ✗                | ✓      | ✓  |
| Key-lock                             | ✗                | ✓      | ✓  |
| Touch screen display                 | ✗                | ✗      | ✓  |
| Verifiability                        | ✗                | ✗      | ✓  |

✓ standard    ✗ not available





### Variable step vacuum

Depending on item type, the final vacuum level can be achieved in five separate steps. Additionally, multiple flushing of the chamber with inert gas can be programmed. This function is intended for heavily outgassing and sensitive products.



### Boiling point recognition

When the boiling point is reached, the machine switches into welding mode automatically in order to shorten cycle time. Thus, fluid or moist products will be evacuated to a maximum level and the weight loss of product is minimized.



### Verifiability

A verifiable control unit documents important operating parameters, enables readout via USB interface while a password protection feature blocks unauthorized access. All devices with a Z 3000 control unit can optionally be upgraded with a T5 touchscreen control unit.



### Marinading program

This function creates a vacuum and holds it for a definable period of time. The periodical ventilation of the vacuum chamber ensures the marinade getting deep inside the product.



### Service program (DAL)

Collection of humidity in pump-oil can lower the vacuum performance over time. The program feature DAL causes a continuous operation of the vacuum pump which enables pre-cleaning of the pump-oil. This ensures reliable performance of the vacuum pump combined with the yearly oil-change.



### Quick-Stop

The Quick-Stop function manually interrupts the evacuation process and engages the welding function. This function is suitable for packaging of liquids and minimizes contamination and loss of product weight once these have reached the boiling point.



### Break function

The Break function aborts the packaging process immediately and ventilates the chamber in order to avoid damaging the product through faulty use of the device.



### Precision vacuum and gas sensor

Vacuum and inert-gas levels are governed and precisely controlled via precision sensor. This enables exact reproducibility of the resulting vacuum level.





## TABLETOP MACHINES

|                              | MINI<br>MAX | MAX | MAX<br>42 | MAX<br>42-S | MAX<br>XL | MAX<br>XL-DD | MAX<br>46-S | MAX<br>36 |
|------------------------------|-------------|-----|-----------|-------------|-----------|--------------|-------------|-----------|
| Dome lid                     | ○           | ○   | ✓         | ✓           | ✗         | ✓            | ✓           | ✗         |
| Slanted bag holder           | ○           | ○   | ○         | ○           | ○         | ○            | ○           | ○         |
| Suction device GN            | ○           | ○   | ○         | ○           | ○         | ○            | ○           | ○         |
| Gassing unit                 | ✗           | ○   | ○         | ○           | ○         | ○            | ○           | ○         |
| Soft ventilation             | ✗           | ✗   | ✗         | ○           | ✗         | ✗            | ○           | ✗         |
| Undercarriage with bag-shelf | ✗           | ○   | ○         | ○           | ○         | ○            | ○           | ○         |

## FLOOR-STANDING MACHINES

|                            | MAX-<br>F 42 | MAX-<br>F 46 | MAX-<br>F 50 | NE 63<br>VA | NE 14<br>VA | TITAN-<br>F 800 | TITAN-<br>F 1000/XL |
|----------------------------|--------------|--------------|--------------|-------------|-------------|-----------------|---------------------|
| Extra high lid             | ✗            | ✗            | ✗            | ✗           | ✗           | ○               | ○                   |
| Slanted bag holder         | ○            | ○            | ○            | ✗           | ✗           | ○               | ○                   |
| Suction device GN          | ○            | ○            | ○            | ✗           | ✗           | ✗               | ✗                   |
| Gassing unit               | ○            | ○            | ○            | ○           | ○           | ○               | ○                   |
| Soft ventilation           | ○            | ○            | ○            | ○           | ○           | ○               | ○                   |
| Lid inspection window      | ✓            | ✓            | ✓            | ○           | ○           | ○               | ○                   |
| Countoured insertion plate | ✗            | ○            | ✗            | ✗           | ✗           | ✗               | ✗                   |
| Lid-volume reduction       | ✗            | ✗            | ✗            | ✗           | ✗           | ○               | ○                   |
| Lid automation             | ✗            | ✗            | ✗            | ✗           | ✗           | ✗               | ○                   |
| External control unit      | ✗            | ✗            | ✗            | ✗           | ○           | ○               | ○                   |
| Rolling track              | ✗            | ✗            | ✗            | ✗           | ✗           | ○               | ○                   |
| Stainless steel lid        | ○            | ○            | ○            | ✓           | ✓           | ✓               | ✓                   |

## FLOOR-STANDING MACHINES

with automatic product outlet

|  | TITAN-X<br>1000 A | TITAN-X<br>1000 A/XL |
|--|-------------------|----------------------|
|  | ✓                 | ✓                    |
|  | ✗                 | ✗                    |
|  | ✗                 | ✗                    |
|  | ○                 | ○                    |
|  | ○                 | ○                    |
|  | ○                 | ○                    |
|  | ✗                 | ✗                    |
|  | ○                 | ○                    |
|  | ○                 | ○                    |
|  | ✗                 | ✗                    |
|  | ✓                 | ✓                    |

## DIP TANKS

semi-automatic

|                           | ATT<br>46 A | ATT<br>86 |
|---------------------------|-------------|-----------|
| Tank cover                | ✓           | ✓         |
| Digital temperature gauge | ✓           | ✓         |
| Suction hood              | ○           | ○         |
| Adjustable dive time      | ✓           | ✓         |

## VERTICAL AND SPECIAL PURPOSE MACHINES

|                         | V 42<br>VA | V 50<br>VA | V 810<br>VA | VX 630<br>VA | MAX-F<br>50 D | AVS<br>1600 |
|-------------------------|------------|------------|-------------|--------------|---------------|-------------|
| Suction device GN       | ×          | ×          | ×           | ×            | ○             | ×           |
| Gassing unit            | ○          | ○          | ○           | ○            | ○             | ○           |
| Soft ventilation        | ○          | ○          | ○           | ○            | ○             | ×           |
| Lid inspection window   | ○          | ○          | ○           | ○            | ✓             | ○           |
| Lid automation          | ×          | ×          | ○           | ×            | ×             | ×           |
| Lid-volume reduction    | ×          | ×          | ×           | ○            | ×             | ×           |
| Insertion plates        | ○          | ○          | ○           | ○            | ✓             | ✓           |
| Stainless steel drawers | ×          | ×          | ×           | ×            | ×             | ○           |
| ESD version             | ×          | ×          | ×           | ×            | ×             | ○           |

## DOUBLE CHAMBER MACHINES

|                            | TITAN-<br>X 480 | TITAN-<br>X 630 S | TITAN-<br>X 630 | TITAN-<br>X 850 | TITAN-<br>X 950 | TITAN-X<br>950 A |
|----------------------------|-----------------|-------------------|-----------------|-----------------|-----------------|------------------|
| Extra high lid             | ×               | ×                 | ×               | ×               | ○               | ✓                |
| Slanted bag holder         | ×               | ×                 | ×               | ×               | ×               | ×                |
| Suction device GN          | ×               | ×                 | ×               | ×               | ×               | ×                |
| Gassing unit               | ○               | ○                 | ○               | ○               | ○               | ○                |
| Soft ventilation           | ○               | ○                 | ○               | ○               | ○               | ○                |
| Lid inspection window      | ○               | ○                 | ○               | ○               | ○               | ○                |
| Countoured insertion plate | ×               | ×                 | ×               | ×               | ×               | ×                |
| Lid-volume reduction       | ○               | ○                 | ○               | ○               | ○               | ○                |
| Lid automation             | ○               | ○                 | ○               | ○               | ○               | ○                |
| External control unit      | ○               | ○                 | ○               | ○               | ○               | ○                |
| Rolling track              | ×               | ×                 | ×               | ×               | ×               | ×                |
| Stainless steel lid        | ✓               | ✓                 | ✓               | ✓               | ✓               | ✓                |

## DOUBLE CHAMBER MACHINES

with automatic product outlet

## SHRINK DIP TANKS SHRINK TUNNEL

|                                  | automatic   |             | automatic   |
|----------------------------------|-------------|-------------|-------------|
|                                  | ATT<br>77/7 | ATT<br>1080 | ATT<br>1680 |
| Extractor hood with fan          | ✓           | ✓           | ✓           |
| Preheat timer                    | ✓           | ✓           | ✓           |
| Digital control                  | ✓           | ✓           | ✓           |
| Automatic water refill           | ✓           | ✓           | ✓           |
| Adjustable dive time             | ✓           | ✓           | ×           |
| Program memory                   | ✓           | ✓           | ✓           |
| Control by light barrier         | ✓           | ✓           | ✓           |
| Steam heating                    | ○           | ○           | ○           |
| Infinitely adjustable belt speed | ✓           | ✓           | ✓           |

## Seal welding

### Double seam weld

Our double-seam weld seals the bag with an extra-wide flat-profile wire that constitutes the imprint of two parallel weld seams. This weld guarantees redundant reliability of the seal.



### Simple cut-off seal weld

Our simple cut-off seal weld consists of two parallel welding wires: The inside flat surface wire seals the bag, while the outer round profile wire cuts off excess bag-material.



### Over- / under seal weld

Our dual action weld seals the bag from above and below. This weld type is especially suitable for bags with high material density such as aluminum bags.



### Separately adjustable cut-off weld

This weld is similar to the simple cut-off weld with the difference that the heating duration of each wire is separately adjustable. This feature is especially important for the processing of shrinkable bags. If required, the cut-off wire can be deactivated.



### Temperature-controlled weld

The T5 sensor-controlled unit measures and precisely regulates the temperature of the seal-welding bar. Temperature control is the basis for verifiability of the packaging process.



## Oxygen out, freshness in!

In a vacuum bag your product is perfectly set in scene, convincing with longevity and freshness.

[www.boss-vakuum-shop.de](http://www.boss-vakuum-shop.de)



# FULLY COVERED

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