

**Validatable**

**Continuous Band Sealer**

**D 542 AVTSV**

**Equipped with:**

**Audion Touch Techware Version BS1.01\_01**

**Technical**

**Specification Sheet**

Rev.00

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| General specifications | |
| Type of machine | Validatable vertical continuous band sealer |
| Model | D 542 AVTSV |
| Machine dimensions WxDxH | 1396 x 800 x 1588 mm (with conveyor belt) |
| Weight | 100 kg |
| Seal width | 10 mm |
| Seal system | Knurled seal |
| Bag material | Sealable pouches (PE, PP, laminate, paper bags, etc.)  Preformed sterile barrier system conforming ISO 11607-1, EN 868-5, EN868-9 |
| Material thickness | 60 – 200 micron (depends on the type of material) |
| Bag length | 45 – 860 mm  (vertical sealing orientation with conveyor) |
| Max. carrying weight | 10 kg |
| Control system | Audion Touch Techware  Equipped with Audion Temperature Controller (ATC) + 7 inch touchscreen (ADC) |
| Data transfer | USB memory stick |
| Covering | Stainless steel |
| Sealing height adjustable  range (manual adjustment) | 757 - 1170 mm (vertical orientation)  917 - 1330 mm (horizontal orientation) |
| Conveyor belt height  adjustable range | 388 – 838 mm (in steps of 50 mm) |
| Conveyor belt width | 250 mm |
| Power supply | 230 V – 1ph – 50Hz |
| Power consumption | 1100 W |
| Noise level | < 85 dB(A) |
| IP rating | IP20 |
| Applicable standards | 2006/42/EC, 2014/30/EU, 2011/65/EU+2015/863,  EN-ISO 12100:2010, EN-ISO 13732-1:2008, EN-ISO 13850:2015,  EN-ISO 14118:2018, EN-IEC 60204-1:2018,  EN-ISO 11607-2:2020, ISO/TS 16775:2021, EN 868-5:2018, DIN 58953-7:2020 |

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| Technical specifications | | | |
| Recipe | Storage | 50 recipes | |
| Recipe backup  (.bin file through USB stick) | Copy recipe to USB  Load recipe from USB | |
| Process parameters | Seal temperature  Setting range  Tolerance range | 80 – 200 °C (max. 250 °C on request)  3 – 20 °C (default 5 °C) | |
| Seal force  Setting range  Tolerance range | 5 – 80N (default 30 N)  +/- 0 – 50 N (default 10 N) | |
| Seal speed  Setting range  Tolerance range | 1,0 – 10,0 m/min.  +/- 0,0 – 5,0 m/min. (default 0,5m/min.) | |
| Adjustable parameters | Fine tuning for calibration | Seal temperature  Seal force | |
| Validation functions | Parameter monitoring  (alarm stop) | Seal temperature  Seal force  Seal speed  Seal length | |
| Data logging / batch record  (.csv file through USB stick) | Machine ID  User name  Recipe name  Batch ID  Parameter settings  Parameter tolerances | Alarm limits  Date/time  Seal ID  Parameters results  Pass/fail  Alarm code |
| System & functions | User administration (option) | User name  User levels | Login password  Logout time setting |
| User levels | Operator  Supervisor  Administrator | Service |
| Language | English  German  Netherlands | French  Italian |
| Alarm history | Date/time  Alarm code/descriptions | |
| Counter | Bag counter (resettable)  Machine counter (non-resettable) | |

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| Data logging file |
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| Machine dimensions |
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| \* The diagram includes the optional conveyor belt |

| Bag size range | |
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|  | In vertical sealing orientation with conveyor |

| Option | Descriptions |
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| User administration | Access control with login ID and password |
| Label printer (ETO) | For printing tracing information on labels and apply on packaging  Label printer : CAB MACH2 |
| Barcode scanner (ETO) | Quick recipe change by scanning a barcode  Scanner : Honeywell Voyager 1400g |
| Communication with external conveyor belt (ETO) | Output signal to external conveyor to synchronize with sealing belt |

| Accessories / Services | Codes | Descriptions |
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| Parameter verification | ATM-R | Seal temperature verification set |
| AFMR | Seal force verification set |
| ASM | Seal speed verification set |
| Calibration |  | Audion factory calibration |
| IQ/OQ Check | IQ/OQ VAL | 1 x IQ check for 1 machine  > Operation training (max. 4 persons)  > Maintenance training (max. 4 persons)  OQ check for 1 type of bag  > Peel test for defining seal temperature  > Peel test with defined seal temperature  > Dye penetration test  > Seal check |
| OQC | Extra OQ check for each extra bag |
| Seal integrity test | SIT | Seal integrity test service  > Peel test  > Dye penetration test  > Seal check |
| APT 100 | Peel tester |
| ASC SHEET | Seal check sheet |
| ASC ROLL | Seal check sheet in roll |
| ASC INK-B | Blue ink for dye penetration test |

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| Measuring instruments for parameter verification | |
| Seal temperature    ATM-R | * Measurement range: -60°C to 350°C * Thermocouple: NiCr-Ni Type K * Diameter: 6 mm * Resolution: 0,1°C (up to 199,9°C) / 1 °C (above 200°C) * Accuracy display unit: 0.3% of reading + 1°C * Measuring rate: 2,5 per second * Minimum and maximum values readable * Operating conditions: +5 ... 50 °C, 30 – 70% RH (non-condensing) * Power supply: 9V battery * Battery life: +/- 100 hours * Dimensions: 63 (W) x 186mm (L) x 40mm (D) * Weight: 350 grams |
| Seal force  seal force measurement  AFMR | * Measurement range: max. 2000 N * Resolution: 0,1 N * Accuracy class: 0,5 % * Operating temperature range: -10 ... +50 °C * Max. Overload: 120% * Measuring rate: 50 per second * Power supply: 3x AA batteries * Battery life: +/- 40 hours * Environmental protection: IP 54 * Dimensions: 82mm (W) x 162mm (L) x 54mm (D) * Weight: 670 grams (excluding mounting tools) |
| Seal speed    ASM | * Display: 5-digits, 5-alphanumeric LCD * Range (Optical): 5 to 200,000 RPM (subject to ambient light intensity) * Range (Contact): 0.5 to 20,000 RPM (also reads RPS and RPH) * Accuracy (Optical): +/-0.01% of reading * Accuracy (Contact): +/-0.05% of reading * Totalizer: 1-999,990 (events or length) * Resolution: 0.001 to 10 RPM (range dependent) * Operating Range: 2 in. to 25 ft.\*, ±70° from perpendicular * Memory: Maximum, Minimum, and Last * Power: 2 AA 1.5 V dc batteries (30 hours) * Environmental: Temp: 5° to 40 °C, RH: 80% RH up to 31 °C * Dimensions (HxWxD): 17.58 x 6.10 x 4.06 cm * Weight: 210 g |