



AUDION

Packaging Machines

Together we make the perfect package

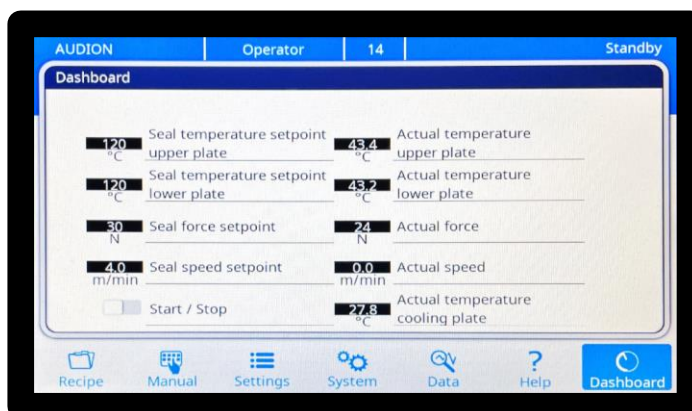
**Validatable
Continuous Band Sealer**

D 542 AVTSV

**Equipped with:
Audion Touch Techware
Version BS1.01_01**

**Technical
Specification Sheet**

Rev.00



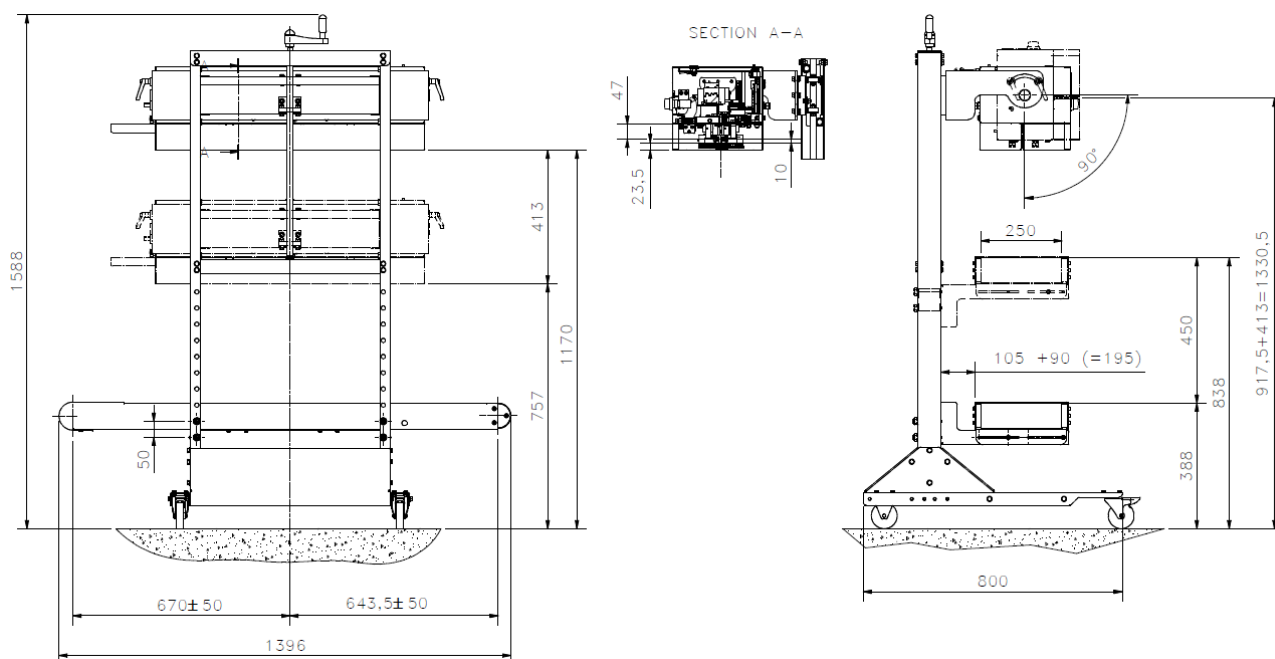
General specifications	
Type of machine	Validatable vertical continuous band sealer
Model	D 542 AVTSV
Machine dimensions WxDxH	1396 x 800 x 1588 mm (with conveyor belt)
Weight	100 kg
Seal width	10 mm
Seal system	Knurled seal
Bag material	Sealable pouches (PE, PP, laminate, paper bags, etc.) Preformed 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

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)	

Data logging file

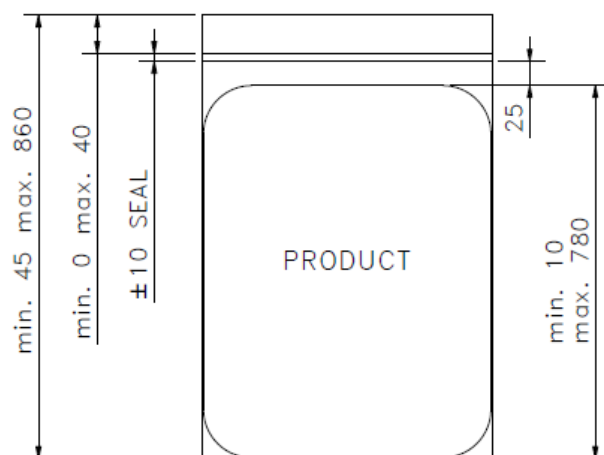
AUDION TOUCH TECHWARE LOG FILE								
Machine ID:	10100716							
Software version:	1.01_01							
Username:	APS							
Recipe:	test							
Batch:	ABC12345							
		Seal Speed	Seal Temp upper plate	Seal Temp lower plate	Seal Force	Seal length		
	Setpoint	5	130	130	30	110		
	TOL	0,5	20	20	10	5		
	UAL	5,5	150	150	40	115		
	LAL	4,5	110	110	20	105		
Date&Time	Seal ID	Seal Speed	Seal Temp upper plate	Seal Temp lower plate	Seal Force	Seal length	Pass/Fail	Alarm Code
2024/11/6 14:30	89	5	125,9	125,3	30	107	Pass	
2024/11/6 14:30	90	5	129,2	126,7	31	111	Pass	
2024/11/6 14:31	91	5	128,3	130,7	28	117	Fail	37

Machine dimensions



* The diagram includes the optional conveyor belt

Bag size range



In vertical sealing orientation with conveyor

Option	Descriptions
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
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

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



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