

CANCELLED



NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S126

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

SAS Jetway Printing System

submitted by Scales & Systems Pty Ltd  
30 Jeays Street  
Bowen Hills Queensland 4006

are suitable for use for trade when attached to a Toledo model 8132 digital indicator and Commission-approved Toledo basework.

The approval is subject to review on or after 1/12/86.

Instruments modified with a printing system purporting to comply with this approval shall be marked NSC No S126 in addition to the approval number of the unmodified pattern.

Relevant drawings and specifications are lodged with the Commission.

Conditions of Approval

1. Instruments which mark packages in both metric and imperial units shall be used only for packages intended for export.
2. The number of scale intervals applicable to the printing system shall not be greater than the number of verification scale intervals approved for the basework, or the headwork, whichever is the smaller.

Signed

Executive Director

Descriptive Advice

Pattern: approved 2/12/81

SAS Jetway carton printing system for attachment to a Toledo model 8132 indicator and Commission-approved Toledo basework.

Variant: approved 2/12/81

1. With any other Commission-approved Toledo indicator replacing the model 8132 indicator.

Technical Schedule No S126 dated 24/12/81 describes the pattern and variant 1.

Filing Advice

Certificate of Approval No PS126 dated 24/12/81 is superseded by this Certificate, and may be destroyed.

(The pattern was granted Provisional approval on 2/12/81 and the documentation dated 24/12/81 had limited distribution. That documentation is included herein and should be amended as detailed in Notification of Change No 1 dated 21/12/82.

The documentation for this approval now comprises:

Supplementary Certificate of Approval No S126 dated 21/12/82  
Technical Schedule No S126 dated 24/12/81  
Test Procedure No S126 dated 24/12/81  
Figures 1 to 6 dated 24/12/81



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No PS126

Pattern: SAS Jetway Printing System

Submitter: Scales & Systems Pty Ltd,  
30 Jeays Street,  
Bowen Hills, Queensland, 4006.

### 1. Description of Pattern

#### 1.1

The pattern consists of a mini computer Model LSI II, inkjet programmer, bulk ink supply and ink spray nozzle.

The computer is intended to be connected to a Toledo 8132 digital indicator which takes mass data from any Commission-approved Toledo basework. The mass data of a carton weighed on the basework is transmitted to the digital indicator. The operator selects the product code, and enters it through the terminal keyboard. A terminal printer then records the transaction in a single line, printing the following information:

Carton No. (sequential); Produce Code; Gross Mass; Net Mass; No. of Cartons of that product processed to that time; Total Net Mass of that product processed to that time.

The carton is then loaded onto a conveyor, beside which is installed the ink spray jet. When the carton passes an optical sensor, the jet is activated and marks the carton with the respective mass data. The marking may be in one of five configurations:

(i) Net kg; (ii) Net kg, Gross kg; (iii) Net lb, Net kg; (iv) No print; (v) Net kg, Gross kg, Net lb, Gross lb.

Figure 1 shows the system. Figure 2 shows the main cabinet. Figures 3 and 4 show typical inkjet markings and Figure 5 shows a typical terminal printer output.

#### 1.2 Sealing

Provision is made for sealing the indicator cabinet by wire seals which terminate in stamping plugs. All leads from the scale to the computer terminate within the indicator cabinet. The method of sealing, if required by the Weights and Measures Authority, is illustrated in Figure 6.

The stamping plug also seals a corner locking screw of the main cabinet.

#### 1.3 Markings

The nameplate is marked with the following data:

Manufacturer's name or mark		
Serial number		
Accuracy class in the form:	(III)	
Maximum capacity in the form:	Max .....	*
Minimum capacity in the form:	Min .....	*
Verification scale interval in the form:	d = e = .....	*
NSC approval numbers:	System cabinet	PS126
	Headwork	S102
	Basework	.....

\*Repeated in the vicinity of the reading face of the indicator.

#### 1.4 Peripheral Equipment

The LSI II mini computer is used to store and collate data not pertinent to the measuring function, as well as to provide useable data to the inkjet programmer.

The ticket produced at the terminal contains mass and other data, and entries of managerial functions not relevant to pattern approval.

The computer may be connected to other instruments not pertinent to the measuring function or relevant to pattern approval.

#### 2. Variant

With any other Commission-approved Toledo digital indicator replacing the Model 8132 indicator.

#### 2.1 Markings

The appropriate NSC approval number for the headwork used should be marked on the nameplate, instead of S102.

TEST PROCEDURE No PS126

Tests on the indicator and baseworks should be carried out in accordance with their original certificates, plus the following:

1. (a) Make a weighing, insert an appropriate data code and see that the Terminal/Printer repeats the entered data and gross mass correctly and that the Net mass has been correctly calculated from the Product Code Tare tables provided by the operator.
- (b) Check that the inkjet printer prints the correct mass on the carton.
2. (i) After completing a weighing and without removing the mass on the receptor, add additional mass to the receptor. This new mass cannot be entered.
- (ii) Remove the extra mass and print with the inkjet.
- (iii) Attempt to obtain another print from the inkjet without first making a new weighing - this should not be possible.
3. Apply a mass equal to the marked maximum capacity and Tare off the largest mass available from the product codes. Add an additional 10e - the indicator should blank.
4. Make a number of weighings, say 10 or 12, using 2 or 3 different Product codes and check that the printings produced by the terminal printer are correct for all data, including the total numbers of cartons of product and the total masses.



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## NATIONAL STANDARDS COMMISSION

### NOTIFICATION OF CHANGE

#### PROVISIONAL SUPPLEMENTARY CERTIFICATE OF APPROVAL No PS126

#### CHANGE No 1

The following changes are made to the description of the SAS Jetway Printing System:

1. Provisional Supplementary Certificate of Approval No PS126 dated 24/12/81 is replaced by the attached Supplementary Certificate of Approval No S126 dated 21/12/82 in which the Provisional status and conditions have been removed.

Note: The documentation for approval No PS126 dated 24/12/81 previously had limited distribution. Now that the Provisional status has been removed, the documentation will be fully distributed and is included herein.

2. Technical Schedule, Test Procedure and Figures 1 to 6 all marked PS126 and dated 24/12/81, should have all references to Provisional or "P" removed.

Signed

Executive Director

21/12/82

FIGURE PS126 - 1

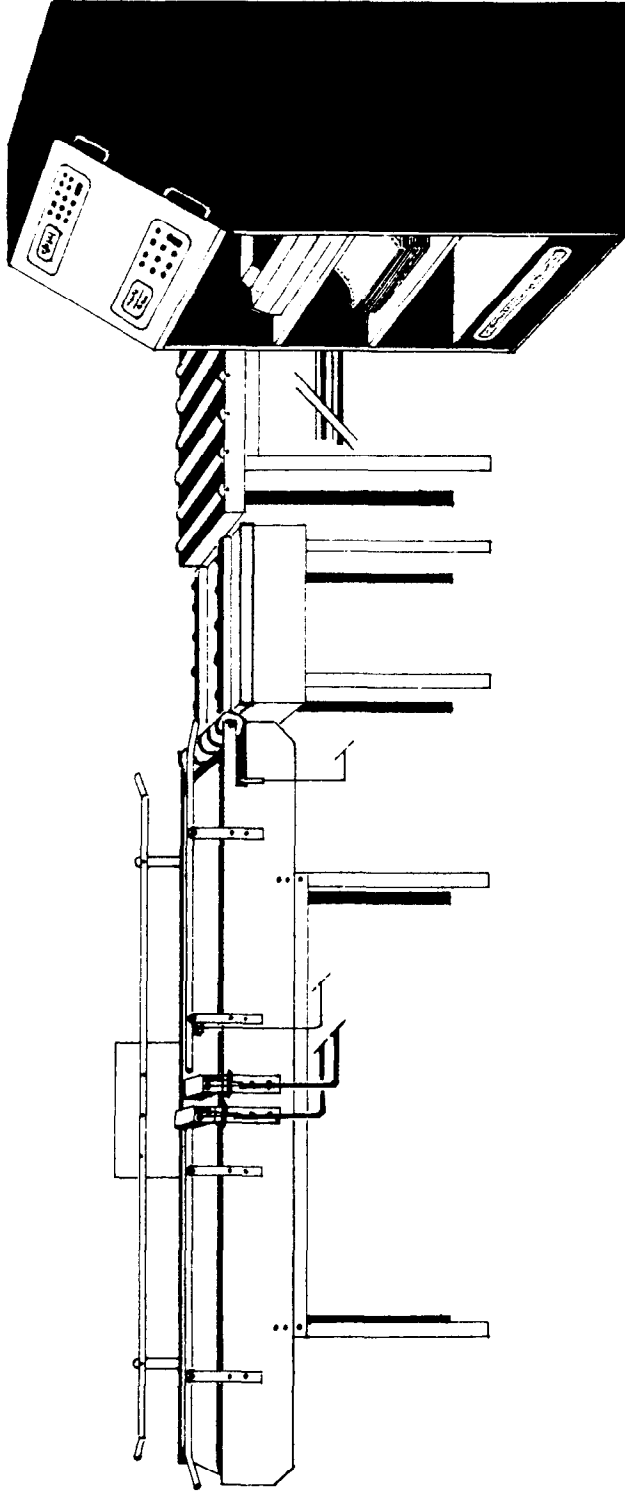


FIGURE PS126 - 2

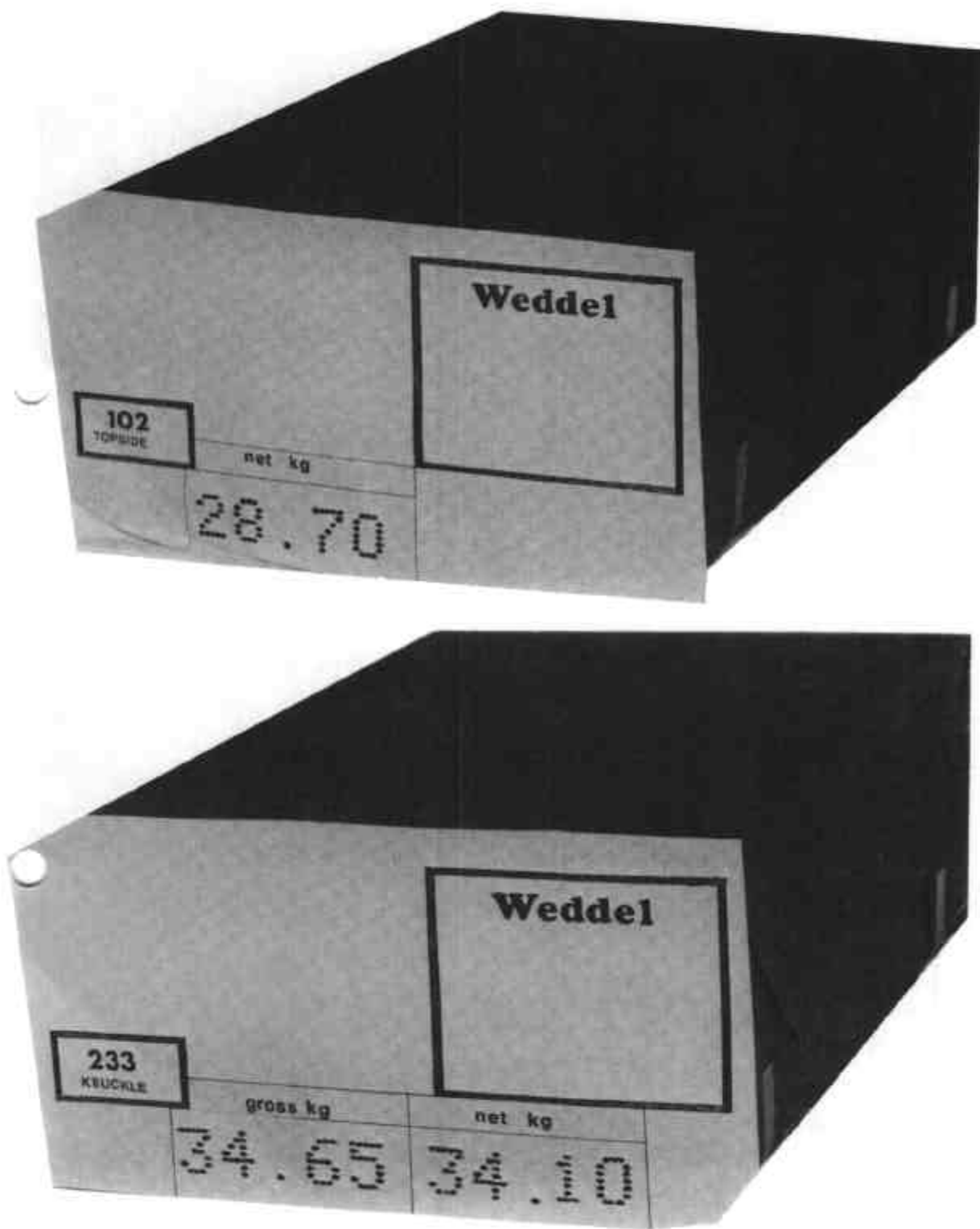


SAS Jetway - Main cabinet

24/12/81

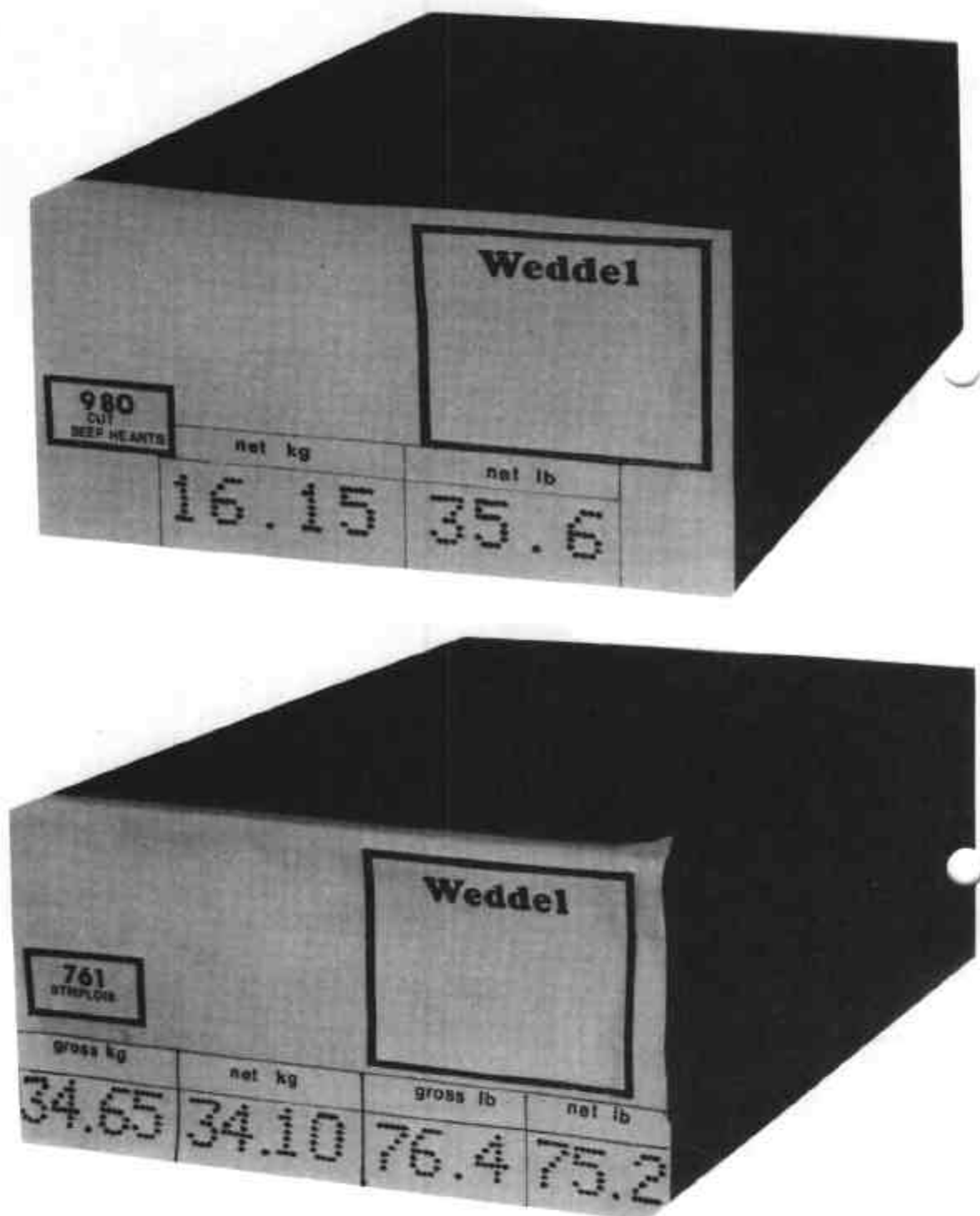


FIGURE PS126 - 3



Typical printings

FIGURE PS126 - 4



Typical printings

TOTAL CTNS.	PRODUCT CODE	GROSS WT (KG)	NET WT.	NO THIS PRODUCT	TOTAL NET WEIGHT
174	895	6.75	6.10	14	105.95
175	123	8.75	8.25	10	72.50
176	813	6.75	6.15	1	6.15
177	895	6.75	6.10	15	112.05
178	121	6.75	6.15	1	6.15
179	111	9.35	8.80	1	8.80
180	111	5.90	5.35	2	14.15
181	111	6.75	6.20	3	20.35
182	111	6.75	6.20	4	26.55
183	123	6.75	6.25	11	78.75
184	141	6.75	6.20	1	6.20
185	612	6.75	6.15	3	24.40
186	612	6.75	6.15	4	30.55
187	895	6.75	6.10	16	118.15
188	612	6.75	6.15	5	36.70
189	612	6.10	5.50	6	42.20
190	612	6.75	6.15	7	48.35
191	612	6.75	6.15	8	54.50
192	612	8.15	7.55	9	62.05
193	612	6.75	6.15	10	68.20
194	70	11.45	10.95	17	110.95
195	437	6.80	6.20	11	67.70
196	180	11.65	11.05	16	183.85
197	101	6.00	5.50	1	5.50

Typical terminal printer output

FIGURE PS126 - 6



Main calculator in alternative housing showing typical reading