National Standards Commission

Certificate of Approval

No 6/18/22A

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

RCM Model TS-1220 Weighing Instrument

submitted by RCM Products Pty Ltd
23 Potato Point Road
Bodalla NSW 2545.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This Certificate is issued upon completion of a review of NSC approval No 6/18/22.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 July 2000.
This approval expires in respect of new instruments on 1 July 2001.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/22A and only by persons authorised by the submittor.

..../2

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 28 June 1995

- An RCM model TS-1220 self-indicating overhead weighing instrument of 400 kg maximum capacity.

Variant: approved 28 June 1995

1. Of 600 kg maximum capacity.

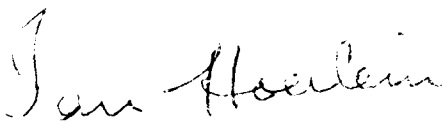
Technical Schedule No 6/18/22A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/18/22A dated 20 November 1995
Technical Schedule No 6/18/22A dated 20 November 1995 (incl. Test Procedure)
Figures 1 to 4 dated 20 November 1995

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



National Standards Commission

TECHNICAL SCHEDULE No 6/18/22A

Pattern: RCM Model TS-1220 Overhead Weighing Instrument.

Submittor: RCM Products Pty Ltd
23 Potato Point Road
Bodalla NSW 2545.

1. Description of Pattern

An RCM model TS-1220 overhead weighing instrument of 400 kg maximum capacity.

1.1 Trackwork

The model TS-1220 trackwork (Figures 1 and 2) is approved for use with up to 2000 verification scale intervals, has the weigh-rail up to 1220 mm long suspended from two load cells and has a horizontal tie rod.

1.2 Load Cells

Two Precision Transducers model LS500 load cells of 500 kg capacity are used and mounted as shown in Figure 3. The load cells are also described in the documentation of NSC approval No S317. Note that only this make, model and capacity of load cell shall be used.

1.3 Indicator

A Gedge model GS1650 Mk3 digital indicator is used. The indicator is also described in the documentation of NSC approval No S193A.

1.4 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.5 Sealing Provision

Provision is made for the calibration adjustments of the indicator to be sealed.

1.6 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval numbers - instrument	NSC No 6/18/22A
- indicator	NSC No S .....
Load cell serial numbers (#)	
Accuracy class	(III)
Maximum capacity	Max ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ... kg *
Maximum subtractive tare	T = ... kg

* These are repeated adjacent to each reading face.

\# Alternatively, these may be marked adjacent to the verification mark.

2. Description of Variant 1

Of 600 kg maximum capacity.

2.1 Trackwork

The trackwork is shown in Figure 4. It is approved for use with up to 3000 verification scale intervals.

2.2 Load Cells

Two Kelba model KA-1000-C3 load cells of 1000 kg capacity are used. The load cells are also described in the documentation of NSC approval No S155A. Note that only this make, model and capacity of load cell shall be used.

2.3 Indicator

A Mettler Toledo model 8142 digital indicator is used. The indicator is also described in the documentation of NSC approval No S206A.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within ±0.25e at no load, are:

±0.5e for loads from 0 to 500e;
±1.0e for loads over 500e up to 2000e; and
±1.5e for loads over 2000e.

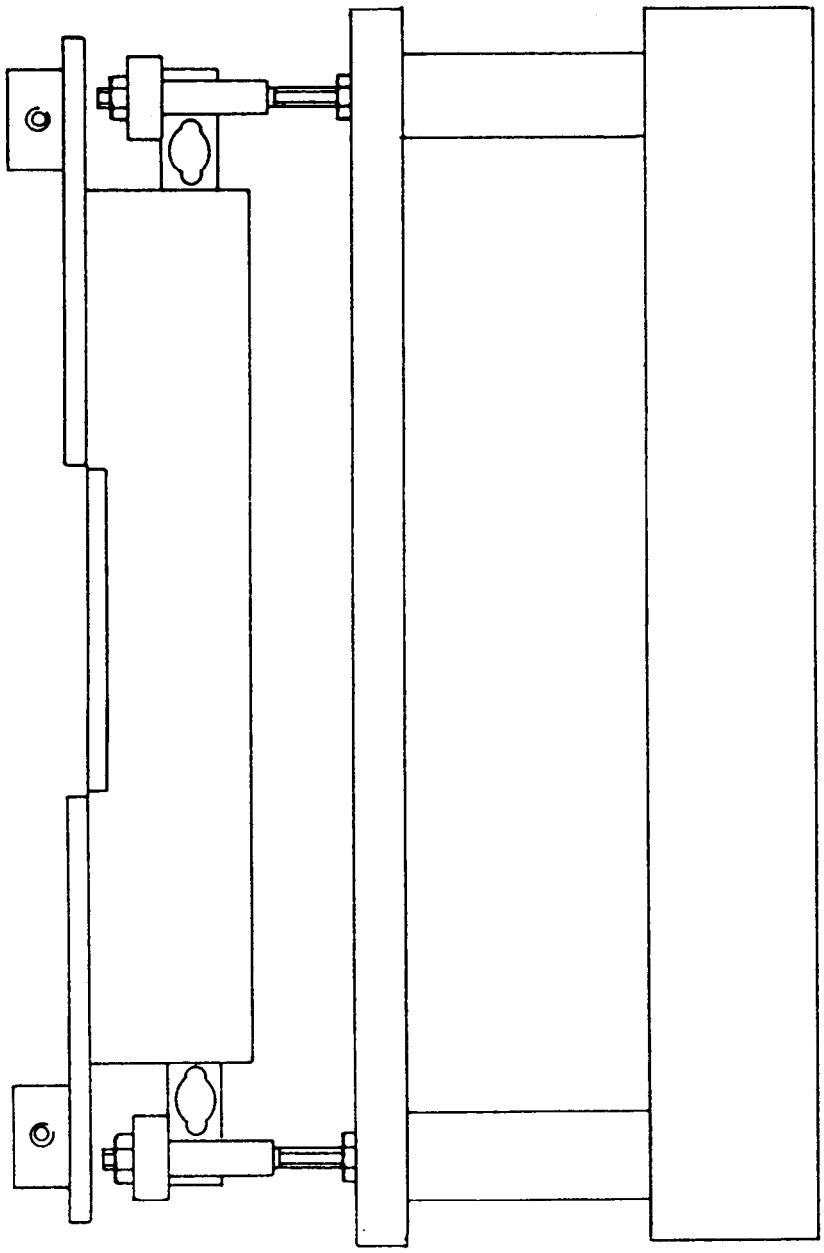
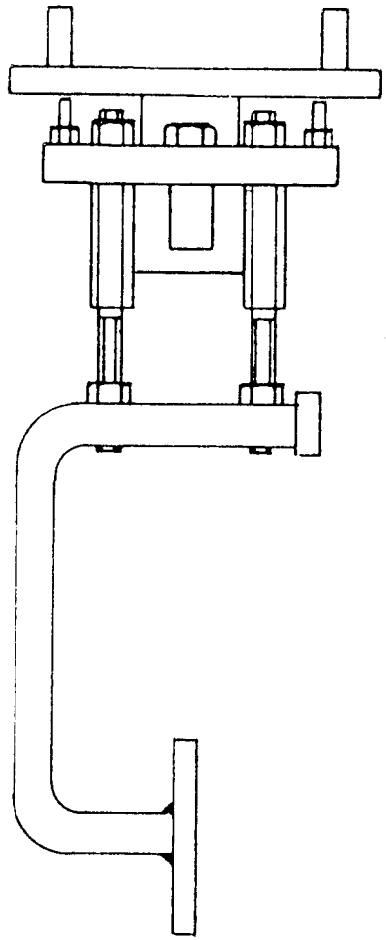


FIGURE 6/18/22A - 1

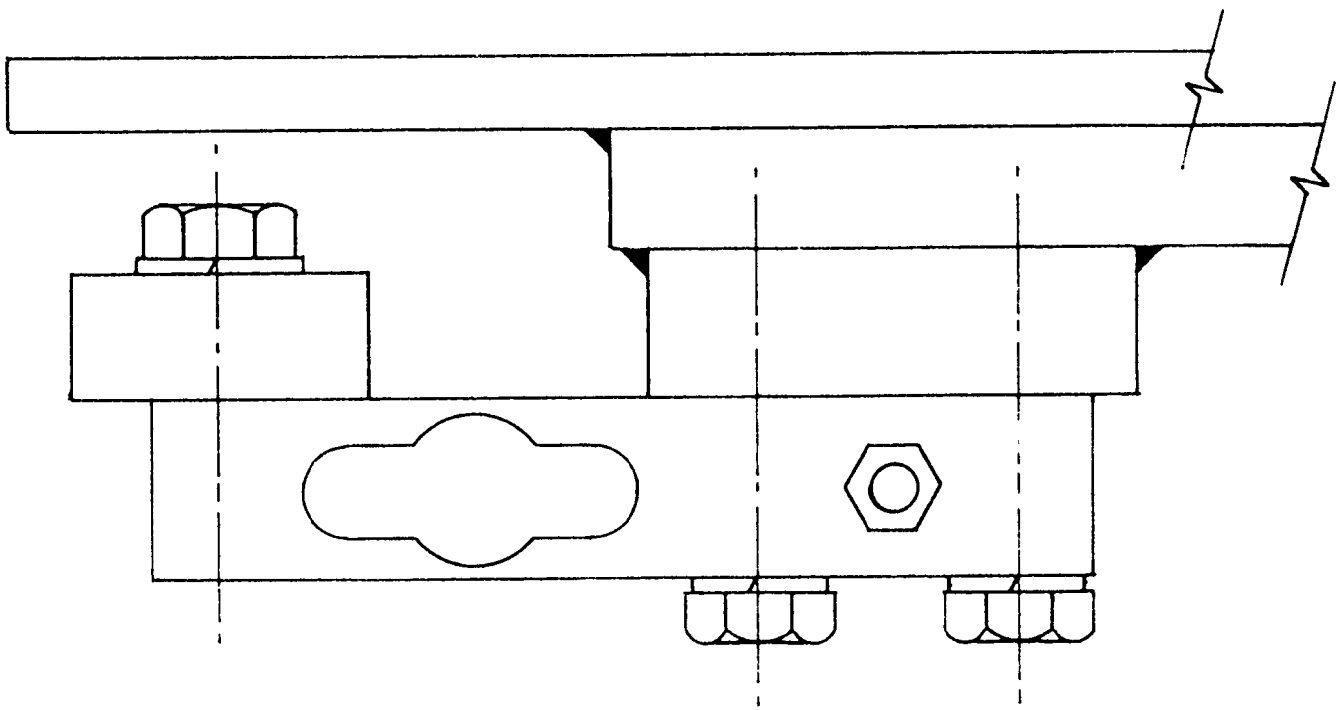
RCM Model TS-1220 Trackwork (Pattern)

FIGURE 6/18/22A - 2



RCM Model TS-1220 Trackwork (Pattern)

FIGURE 6/18/22A - 3



Showing Load Cell Mounting

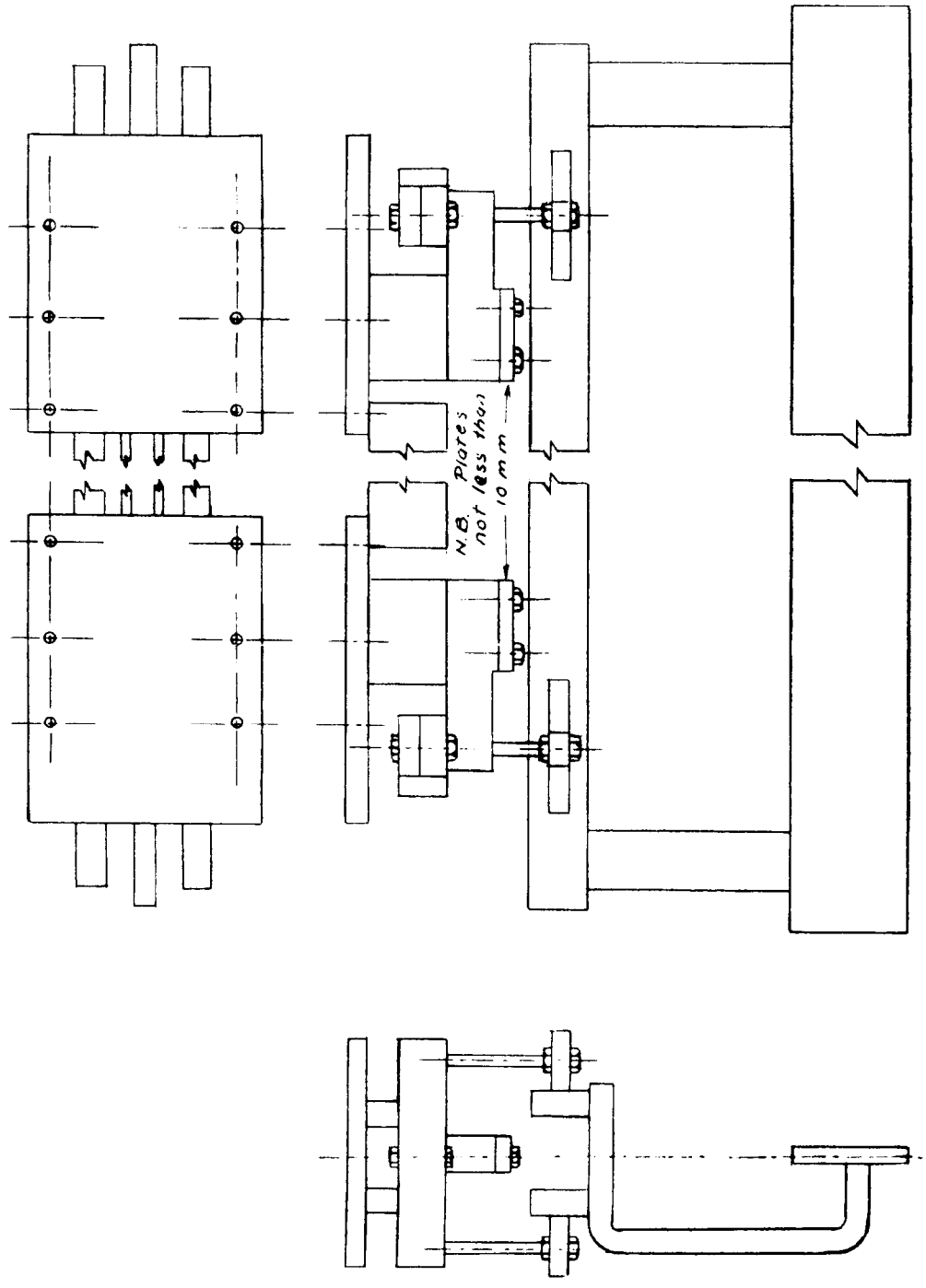


FIGURE 6/18/22A - 4

Trackwork For Variant 1