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6/18/18  
4/9/84

## NATIONAL STANDARDS COMMISSION

### WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

#### REGULATION 9

#### CERTIFICATE OF APPROVAL No 6/18/18

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

Toledo Model 2554 Overhead-track Weighing Instrument

submitted by Toledo Scale Australia Limited  
525 Graham Street  
Port Melbourne Victoria 3207

are suitable for use for trade.

The approval is subject to review on or after 1/9/89.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/18.

The approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

#### Condition of Approval

The number of scale intervals approved for the weighing instrument shall be no greater than the number of verification scale intervals approved for the load cell(s) or the headwork, whichever is the smallest.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 10/8/84

- Toledo model 2254 self-indicating overhead-track weighing instrument (also known as a model B18) of 600 kg maximum capacity and with a weigh rail up to 600 mm long.

Variants: approved 10/8/84

1. Of 300 kg capacity.
2. Of 250 kg capacity.

Technical Schedule No 6/18/18 describes the pattern and variants.

#### Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/18 dated 4/9/84  
Technical Schedule No 6/18/18 dated 4/9/84  
Test Procedure No 6/18/18 dated 4/9/84  
Figures 1 and 2 dated 4/9/84.



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No 6/18/18

Pattern: Toledo Model 2554 Overhead-track Weighing Instrument

Submitter: Toledo Scale Australia Limited  
525 Graham Street  
Port Melbourne Victoria 3207.

### 1. Description of Pattern

A model 2254 overhead-track weighing instrument (also known as model B18) of 600 kg maximum capacity fitted with a 90 kg capacity Toledo load cell and with a weigh rail up to 600 mm long.

#### 1.1 Basework

The model 2254 basework (Figure 1) has two levers and a load bracket suspended by 8 steel flexures. An extension on one lever has a compression connection to a load cell. Metal covers may be fitted to enclose the levers and load cell.

#### 1.2 Load Cell

A Toledo model 0721 or 0723 load cell as described in the documentation of NSC approvals No S111 and No S112 respectively.

#### 1.3 Indicator

A Toledo model 8132 digital indicator (Figure 2) as described in the documentation of NSC approval No S102.

#### 1.4 Markings

The instrument is marked with the following data, in a clearly visible location:

Manufacturers name or mark	
NSC approval number	NSC No 6/18/18
Serial number	
Accuracy class	III
Maximum capacity	Max .....kg*
Minimum capacity	Min .....kg*
Verification scale interval	e = d = .....kg*
Load cell serial number - alternatively this may be marked on a metal tag securely fixed to the indicator.	

\* Repeated adjacent to each reading face.

#### 1.5 Verification Mark

Provision is made for a verification mark to be applied.

### 2. Description of Variants

#### 2.1 Variant 1

Of 300 kg capacity using a 45 kg capacity load cell.

#### 2.2 Variant 2

Of 250 kg capacity using a 22 kg capacity load cell.

TEST PROCEDURE No 6/18/18

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error, as set out in Document 104.

Where applicable, this Test Procedure should be carried out in conjunction with any tests in the approval documents for the load cell and for the digital indicator.

The maximum permissible errors are:

- $\pm 0.5e$  for loads between 0 and 500e;
- $\pm 1.0e$  for loads between 501e and 2000; and
- $\pm 1.5e$  for loads above 2000e.

1. Zero Range

The maximum range of operation of the zero device should not exceed 4% of the capacity of the instrument ( $\pm 2\%$  approximately).

2. Test Loads

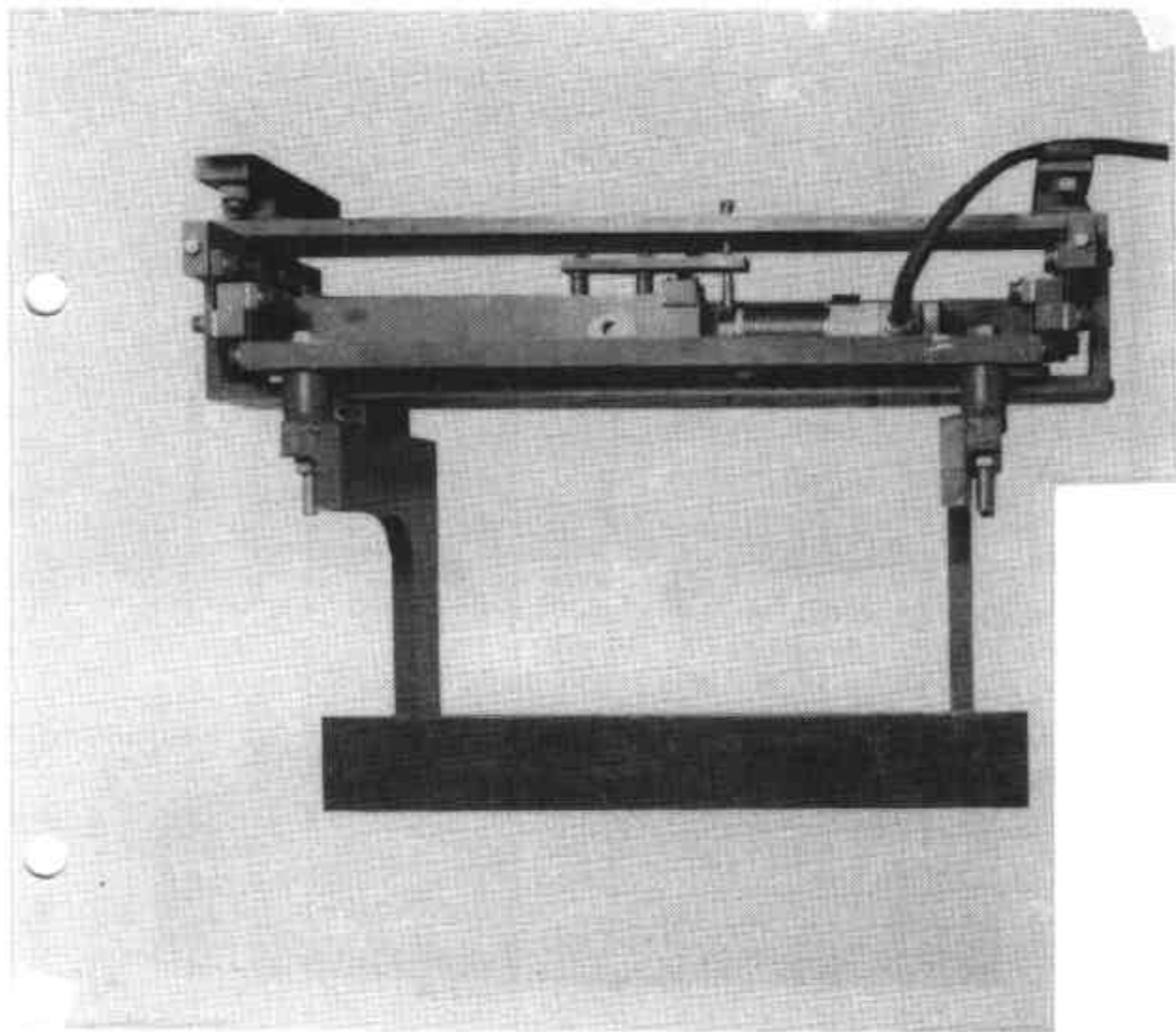
Test loads are to be applied to the instrument at the centre of the weigh rail in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

This test should be repeated at each end of the weigh rail.

The instrument should display these loads within the applicable tolerance as listed above.

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4/7/84

FIGURE 6/18/18 - 1



Toledo Model 2254  
Overhead-track Weighing Instrument

FIGURE 6/18/18 - 2



Toledo 8132 Indicator In Alternative Housings