

# RESOLUTION

NEXT GENERATION DIMENSIONING

## Resolution Portable Trolley

Owner's Manual, Guidance and Warranty Information

Rev. 120523-1

For use with the following dimensioning models:

Resolution 3/Beevision 182

Resolution 6/Beevision 182S



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Owner's Manual, Guidance and Warranty Info (Rev.2707-1) | Date: 27<sup>th</sup> July 2021

## INTRODUCTION

Resolution Portable Trolleys are designed and manufactured in the UK to high quality standards. Each trolley is tested to 120% capacity (where physically possible) with certified test weights and, when purchased with a dimensioner, weight indicator and scale, the system is calibrated and weight checked to capacity for high accuracy weighing.

We believe in providing quality that lasts and where others have moved their manufacturing abroad we pride ourselves on still manufacturing our trolleys here in the UK. Our quality and reliability is the result of 30 years of design and manufacturing experience and we still control the complete process from initial enquiry through to the design, fabrication and final weight testing.

The trolleys are available in different sizes and capacities and some with the option of battery power. They are designed for the sole use of transporting the Beevision 182S/Resolution 6 or Beevision 182/Resolution 3 dimensioners and this manual must be read in conjunction with all corresponding product manuals.

This manual provides you with specifications of your trolley and instructions for unpacking and installation

Please read this manual thoroughly and pay special attention to the warning symbols.

## COPYRIGHT

All rights reserved. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

## ISO 9001: 2015

AWM Limited are ISO 9001: 2015 registered for the design, manufacture, calibration, maintenance and repair of weighing equipment - we aim to maintain the highest standards of service and integrity at all times. Our ISO registration ensures that all of our weighing systems are manufactured to strict quality standards. All of our products are fully QA tested and calibrated by our highly trained engineers and professionally packaged before despatch.

## CLASS III SELF VERIFICATION

Our ISO registration includes our quality system approval for Self-Verification, allowing us to test and certify Class III weighing scales for trade use here at

our factory. **Unless specifically requested or clearly noted on your order confirmation, your scale and dimensioner will not have been Class III approved.** If you require your scale or dimensioner to be approved for Trade Use, please contact us with your requirements and we will be happy to provide further information and pricing.

## GRAVITATIONAL ADJUSTMENTS

For International customers, if used for commercial transaction, as part of our verification process we make the required gravity adjustments to ensure our scales meet all accuracy requirements in the country of use. For UK customers your scale will have been calibrated in Bury St Edmunds, Suffolk, UK and no additional gravitational adjustments will have been made unless specifically requested.

## WARRANTY

Our trolleys come with a 1 year back to base (IP32 7HX) warranty. Please see the final section of this guide and our T&Cs for further details.

## DISCLAIMER



While every precaution has been taken in the fabrication, assembling and testing of your trolley we assume no liability for damages, injury or death resulting from inappropriate or improper use. Our Resolution trolleys are designed for the transportation of Resolution dimensioning systems only and using the trolley for any other purpose may cause damage to the trolley and cause harm to the user.

While every precaution has been taken in the preparation of this manual, we assume no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon an individual's accuracy, skill and caution. For this reason, we are not able to guarantee the result of any procedure contained herein. Nor can we assume responsibility for damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

Serial Number \_\_\_\_\_  
Date of Purchase \_\_\_\_\_  
Purchased From \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
CUSTOMER TO COMPLETE & RETAIN FOR FUTURE USE

**PRECAUTIONS**

Before using this indicator, read this manual and pay special attention to all "WARNING" symbols:

 **IMPORTANT**  **ELECTRICAL WARNING**

# UNPACKING AND INSTALLATION

The following section outlines procedures for the unpacking and installation of your trolley.

**Read this entire section carefully before attempting to unpack or install your trolley and dimensioning system.**

Inspect the shipping pallet and crate for any signs of damage such as exterior dents and scratches. It is the responsibility of the purchaser to inform AWM Limited and send photographic evidence of any shipping damage claims within 48 hours of receiving the goods. We will not consider or accept any claims made outside of this period. AWM Limited will only consider claims due to incorrect or poor packaging. Other claims will need to be made directly with the shipping company with the acceptance of any said claims being solely at their discretion.



**Remove shipping bands and packing material.** Make certain "all" packing material is removed. Safely dispose of packaging material, recycling the cardboard where possible.



**Care should be taken if lifting or maneuvering the trolley.** The trolley is a heavy, non-standard load and as such Health and Safety Manual Handling Guidance should be consulted before removing the trolley from the crate and placing on smooth ground. Please consult your Health and Safety Representative to undertake a Risk Assessment before lifting or maneuvering the trolley.



**Be certain that the ground is level and free of debris.**  
Take sure when place the trolley on the ground. Do not use on unlevel or uneven ground. Ensure the area is free of debris.



**Ensure brakes are on before leaving the trolley unattended.** Ensure the trolley cannot roll away and do not position in trolley where it may be a safety hazard.



**Take care when unpacking and moving scale not to damage cables or instrumentation.**



**NOTE: LITHIUM ION BATTERY - Do not damage or mishandle the device. If the box or battery is damaged, the battery must be quarantined, inspected and repaired by an authorised person. For additional information call +44 (0)1284 701222.**

If supplied with a battery, the Resolution Trolley will arrive with the battery disconnected. See "Changeable Batteries" section below.

**NOTE: Battery is LITHIUM ION RECHARGEABLE and must not be damaged or mishandled. See safety warning above.**

Once the trolley is in place and safely unpacked, if the dimensioner is not already assembled on top of the trolley follow the guidance in the Beevision 182 and 182S User Manual to assemble the dimensioner and scale.

## SERIAL PLATE, MAX RATED LOAD, CAPACITY AND POINT LOADING

The Maximum Rated Capacity of the Trolley is clearly marked on the trolley and is by default no greater than 60kg. The capacity is also shown on the Serial Plate.



**Never overload the trolley by putting more load on the platform than the stated capacity.**

**Never point load the trolley.** The trolley is designed for use with a spread load only and has been tested as such. Overloading or point loading the scale can cause irreparable damage and be a safety hazard.



## RISK OF FIRE AND ELECTRICAL SAFETY

The trolley is powered by a 12VDC Lithium Ion rechargeable battery which is housed inside the trolley. Please read the battery and battery charger manuals and instructions in conjunction with this manual and adhere to their safety guidance. The battery is inside a locked electrical enclosure. The enclosure must not be opened by anyone other than qualified electricians and the required safety precautions must be taken if accessing the electrical enclosure.

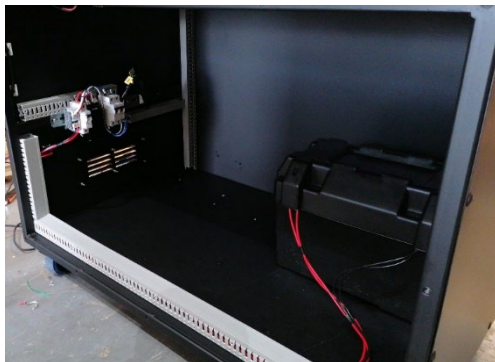
- NOT UNAUTHORISED PERSON MUST ACCESS THE ELECTRICAL ENCLOSURE
- THE POWER MUST BE DISCONNECTED AND THE MACHINE ISOLATED FROM ANY POWER SOURCE BEFORE OPENING THE ELECTRICAL ENCLOSURE AND WORKING ON THE TROLLEY
- THE TROLLEY IS DESIGNED FOR USE WITH THE DEDICATED SUPPLIED CHARGER ONLY AND MUST BE PROTECTED BY A SUITABLE RCD
- ONLY USE THE BATTERY CHARGER PROVIDED TO CHARGE THE BATTERY

## BATTERY



**NOTE: LITHIUM ION BATTERY** – Do not damage or mishandle the device. If the box or battery is damaged, the battery must be quarantined, inspected and repaired by an authorised person. For additional information call +44 (0)1284 701222.

The Resolution Trolley can be supplied with a fixed battery or a battery that can be regularly changed.



The safety and guidance manuals for the batteries are supplied with the Trolley or available by emailing [sales@awmltd.com](mailto:sales@awmltd.com) and must be read carefully before using the Resolution Trolley.

### EXAMPLE OF A FIXED BATTERY INSTALLATION

## FIXED BATTERIES (NOT TO BE CHANGED)

If the battery is fixed then there is no access door to change the battery. **The battery must only be changed or worked on by a qualified electrician.**



**When accessing the electrical enclosure to change the battery ensure that the trolley is isolated from any power source**



**NOTE: LITHIUM ION BATTERY** – Do not damage or mishandle the device. If the box or battery is damaged, the battery must be quarantined, inspected and repaired by an authorised person. For additional information call +44 (0)1284 701222.

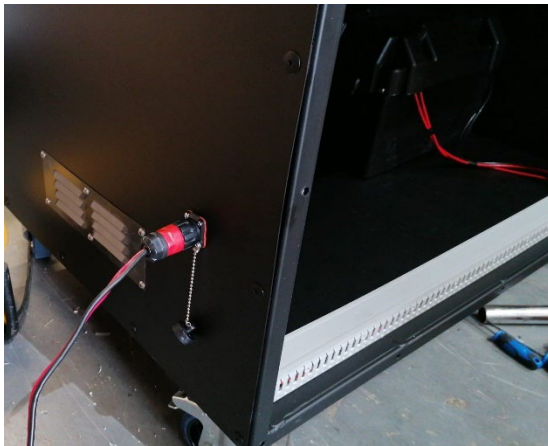
## CHANGEABLE BATTERIES

If the Resolution Trolley is supplied with a changeable battery which can be swapped in and out by a competent person, such as a supervisor or engineer, then there is a battery access door on the trolley.

Following the guidance in the battery instruction manual supplied, the competent person can open the battery access door to plug in or unplug the cable from the battery. Batteries can be removed and replaced with spare batteries that are exactly the same model and supplied by AWM Limited.

**ONLY USE BATTERIES AND CHARGERS SUPPLIED AND AUTHORISED BY AWM LIMITED WITH RESOLUTION TROLLEYS.**

## CHARGING BATTERIES



The Resolution Trolley includes an internal charging circuit that will automatically charge the battery when the charger is connected. Follow the guidance in the charger and battery manuals to ensure safe charging.

When the trolley is required, switch off the power plug and carefully unplug the trolley from the power supply. Replace the protective cap on the charging socket.

Turn on use the Resolution Dimensioner as described in the Resolution Dimensioner manual supplied.

**For spare batteries that can be charged separately to the trolley, charge the battery by following the guidance in the charger instruction manuals supplied.**



**NOTE: LITHIUM ION BATTERY** – Do not damage or mishandle the device. If the box or battery is damaged, the battery must be quarantined, inspected and repaired by an authorised person. For additional information call +44 (0)1284 701222.

## BATTERY CARE AND ADVICE

The battery should be charged as soon as possible after each use. Leaving batteries discharged for long periods of time will affect the battery life. Please ensure that only batteries and chargers supplied by AWM Limited are used with Resolution Trolleys. Follow the safety and user guidance in the battery and charger manuals supplied.

**The battery run time is approximately 32 hours from fully charged.**

## MAINTENANCE

An on-going maintenance and service program must be implemented to ensure safety and longevity. This maintenance and service program should be designed and checked by Health and Safety professionals but should include among other tasks (not an exhaustive list)

- 1) Annual electrical safety checks
- 2) Inspection of battery for any damage or degradation
- 3) Daily Visual Inspections for damage or wear
- 4) Checking of wheels and greasing of bearings where required
- 5) Checking and testing of wheel brakes

## SAFE USE OF YOUR RESOLUTION TROLLEY

As well as the following operating and safety guidance for your Resolution Trolley it is vitally important to use common sense. A few minutes spent reading these rules can make an operator aware of dangerous practices to avoid and precautions to take for his/her own safety and the safety of others.

Frequent examinations and periodic inspections of the Trolley as well as a conscientious observance of safety rules may save lives.



**WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this trolley.



### RISK OF INJURY - MANUAL HANDLING

A risk assessment to meet manual handling regulations must be undertaken prior to use. This trolley weighs at least 100kg and there is a risk of injury when pushing or pulling heavy loads. Consideration of the user, floor surface and type of journey must be part of this risk assessment.



### NOT A TRANSPORTATION DEVICE

The Resolution Trolley is not designed as a transportation device. The dimensioner and weighing scale must only be used when the trolley is stationary, and the brakes are applied.



**DO NOT attempt to dimension or weigh while the trolley is in motion**



**Ensure you are in control of the trolley at all times and can stop the trolley almost immediately if required.**

Do not use or move the trolley on a slope with a gradient greater than 2% gradient and

any slope where there is a risk of the trolley rolling downhill and out of control.

- Ramps and slopes with more than approx. 2% gradient are difficult for manual handling due to a tendency for trolleys to roll downhill.
- When handling the trolley on a slope, the operator should always be up grade of the trolley, pulling it up the slope or restraining it from above as it travels down the slope.
- Never let go of the trolley handle while the trolley is in motion.
- The trolley should only be moved at walking pace to ensure it is under control at all times, and that it can be stopped almost immediately. Walking pace is approx. 3-4 km/h.
- **Before using the trolley do a visual check for any damage to the cables, frame, wheels and brakes. If any damage is found, do not use the trolley and report it to your supervisor or maintenance team so that it can be rectified.**
- **Before using the trolley a Risk Assessment must be completed to ensure the operator can safely push and pull the trolley under manual handling regulations.**



**NOTE: LITHIUM ION BATTERY – Do not damage or mishandle the device. If the box or battery is damaged, the battery must be quarantined, inspected and repaired by an authorised person. For additional information call +44 (0)1284 701222.**

- DO NOT attempt to transport any items or equipment on the trolley
- The dimensioner and scale must only be used when the trolley is stationary
- DO NOT attempt to dimension or weigh while the trolley is in motion
- Ensure brakes are applied before placing items on the scale and performing a dimensioning or weighing procedure
- The Resolution Trolley is not designed as a transportation device
- The trolley is not designed for the transportation of people
- Keep children and unauthorised persons away from the work area.
- DO NOT use trolley on uneven ground and do not run over curbs or steps
- DO NOT leave the trolley on a slope
- DO NOT leave the trolley in a walkway or doorway etc. where it could be a safety hazard
- DO NOT leave unattended, especially when loaded, unless the wheels are locked or the trolley otherwise secured.
- The trolley should only be moved at walking pace to ensure it is under control at all times and that it can be stopped almost immediately. Walking pace is approx. 3-4 km/h.
- Use the trolley in a suitable work area.
- Keep the work area clean, uncluttered and ensure there is adequate lighting.
- Keep the trolley clean and tidy in accordance with good workshop practice.
- DO NOT get the trolley wet or use in humid conditions
- DO NOT operate the trolley whilst under the influence of drugs or excessive amounts of alcohol
- DO NOT overload the trolley – the trolley capacity is 60kg.
- DO NOT use the trolley for any purpose other than that for which it is designed.
- DO NOT stand on the trolley, use it as a ladder or allow others to ride on it.
- Ensure foot and toe protection such as steel toe cap boots are worn

# GENERAL USER GUIDE

The Resolution Trolley is designed to be an easy to use and highly portable transport device for Resolution Dimensioners.

1. Once the trolley is unpacked check over for any signs of damage or defects that may have occurred in transit. If damage is noticed do not use the trolley and report the damage to a supervisor.
2. If supplied with a changeable battery, open the battery compartment door carefully, ensuring the battery has not moved in transit and connect the battery connector to the battery
3. Move the unloaded trolley to the weighing and dimensioning location and ensure it is a safe place to locate the trolley.
4. Apply the brakes on all wheels with brakes fitted



5. Switch on the Dimensioner and begin using it in accordance with the Resolution Dimensioner manual included in this package.

6. When the weighing and dimensioning is complete and the scale is unloaded, remove the brakes and move the trolley to the next location.

## RETURNS POLICY

Upon discovery of equipment malfunction, please contact our Service Team on +44 (0)1284 701222 or email [service@awmltd.com](mailto:service@awmltd.com). The technician will attempt to isolate the problem and if they are unable to resolve the issue, or a warranty claim is made, the following procedure should be undertaken.

- Call or e-mail AWM Limited and request a Return Authorisation (RA) Number.  
Tel: +44 (0)1284 701222  
Email: [office@awmltd.com](mailto:office@awmltd.com)
- Customer must provide the Serial Number of the weighing scale from the Serial Plate at the time of the request for an RA.
- Product must be packaged for return, either in original packaging or in packaging that will prevent damage in transit.
- RA number must be written on the outside of the packaging or the shipping label must be attached as provided on confirmation paperwork from the AWM office.
- A minimum 25% restock fee applies to any item returned for any reason other than manufacturing defect.
- Manufacturing defect is determined at the time the product is received by AWM Limited and

evaluated by QA.

- AWM Limited is the sole judge of what constitutes a manufacturing defect.

## WARRANTY

AWM Limited warrants the Resolution Trolley against defects in material and workmanship under fair wear and tear for a period of 12 months years from shipment to the customer. AWM will be the sole judge of what constitutes a defect.

### WARRANTY NOTES

- 1) Warranty applies to the original purchaser only
- 2) Warranty is back to base only (AWM Limited, Bury St Edmunds, Suffolk, IP32 7HX, UK) with the customer responsible for carriage both ways. Any travel and on-site labour is chargeable at our standard rates.
- 3) The warranty does not apply to equipment that has been tampered with, defaced, damaged, or had repairs or modifications not authorised by AWM Limited or has had the serial number altered, defaced or removed.
- 4) This warranty is not applicable to equipment that has not been installed in accordance with AWM Limited's recommendations.
- 5) The equipment must be installed and continuously maintained by AWM Limited or an authorised AWM distributor.
- 6) This warranty does not apply to equipment damaged in transit. Claims for such damage must be made with the responsible freight carrier in accordance with freight carrier regulations.
- 7) Warranty term begins with date of shipment from AWM Limited.
- 8) This warranty does not include replacement of consumable or expendable parts.
- 9) The warranty does not apply to any trolley or item that has been damaged due to unusual wear, abuse, improper power/line voltage, overloading, point loading, theft, fire, water, prolonged storage or exposure while in purchaser's possession or acts of God unless otherwise stated herein.
- 10) This warranty does not apply to peripheral equipment not manufactured by AWM Limited. This equipment will normally be covered by the equipment manufacturer's own warranty.
- 11) This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of our product. AWM Limited will not be liable for consequential damages of any nature, including but not limited to loss of profit, delays or expenses, whether based on tort or contract. AWM Limited reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate said improvements in equipment previously manufactured.
- 12) This warranty is in lieu of all other warranties expressed or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose.
- 13) This warranty covers only those products installed in the United Kingdom of Great Britain and Northern Ireland.
- 14) This warranty does not cover paint coatings due to the variety of environmental conditions.
- 15) Do not cut or damage any cables. Cutting the cable will void the warranty.