

ProWay
Livestock Equipment

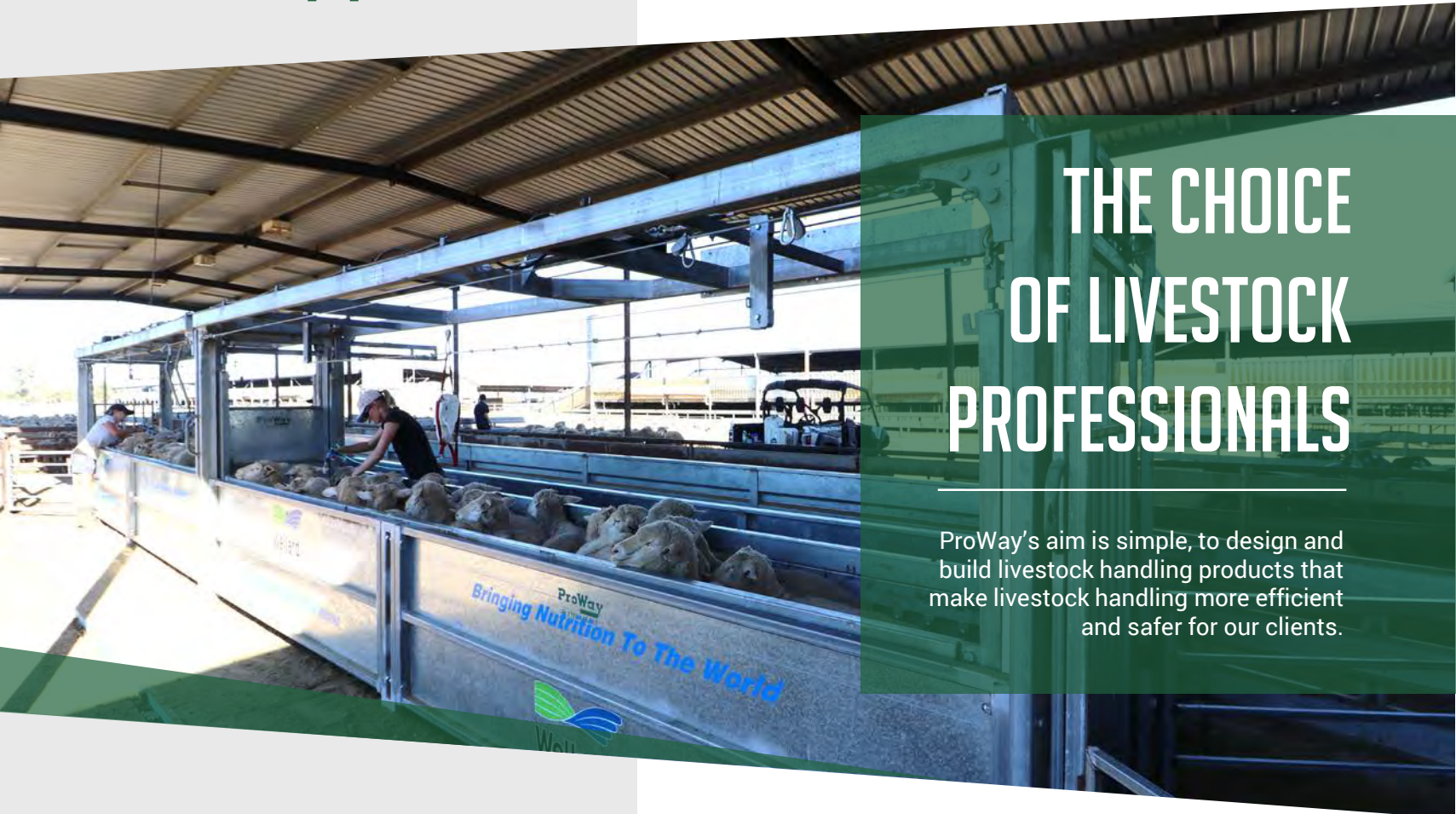
BULK HANDLER OPERATION MANUAL

PLEASE READ CAREFULLY PRIOR TO INITIAL OPERATION

PH: 1300 655 383

www.proway.com.au





THE CHOICE OF LIVESTOCK PROFESSIONALS

ProWay's aim is simple, to design and build livestock handling products that make livestock handling more efficient and safer for our clients.

BULK HANDLER OPERATION MANUAL

The Bulk Handler is ideal for:

**DRENCHING, VACCINATING, CAPSULING,
MOUTHING, BACK LINING, JETTING, TAGGING**

Designed and Manufactured in
Wagga Wagga NSW Australia

PH: 1300 655 383

INFORMATION@PROWAY.COM.AU



Thankyou for purchasing the ProWay Bulk Handler.

We're confident this product is the best available solution on the market for a variety of husbandry operations and after using it, we think you'll agree.

Before you do, please take the time to read through this document and be sure to follow all safety, maintenance and operational instructions to ensure the welfare of all operators, animals and the machine itself.

We also offer a wide range of permanent and portable products and facilities including: sheepyards, cattleyards, shearing sheds, loading ramps and handling equipment.

At ProWay, we pride ourselves on customer service and the quality of our equipment. For all enquiries and concerns please contact our head office.

Our hours of operation are between 8am and 5pm Monday to Friday.

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OPERATION GUIDE - BULK HANDLER

- MACHINE MUST BE SUPPLIED FROM A 240 VOLT, 15 AMP SINGLE PHASE POWER CIRCUIT.
- ELECTRICAL POWER MUST COME THROUGH AN APPROPRIATE EARTH LEAKAGE CIRCUIT BREAKER (ELCB).
- MINIMISE DISTANCE FROM THE SWITCHBOARD WHERE POSSIBLE TO REDUCE VOLTAGE DROP.
- IF POWER IS SUPPLIED FROM A MOBILE GENERATOR, BE AWARE THE GENERATOR MAY NEED AN EARTH STAKE FOR THE ELCB TO FUNCTION. (CHECK WITH GENERATOR MANUFACTURER.)

SAFETY REQUIREMENTS - BULK HANDLER

- ENSURE THE ROUTING OF ELECTRICAL LEADS AND HYDRAULIC HOSES DOESN'T CREATE ELECTRICAL OR TRIP HAZARDS.
- FOLLOW INSTRUCTIONS ON THE MAINTENANCE PLATE TO ENSURE MACHINE IS IN SAFE WORKING ORDER AT ALL TIMES.
- CHECK DAILY FOR DAMAGE TO LIFTING CABLES, HOSES AND ELECTRICAL LEADS. REPLACE IMMEDIATELY IF DAMAGED.
- LIVESTOCK ONLY ARE TO LIFT UP AND DOWN IN THE HANDLER.
- NOT TO BE OPERATED BY PERSONS UNDER THE AGE OF 16 YEARS.
- KEEP CLEAR OF HANDLER WHILE RAISING / LOWERING IS IN PROGRESS.
- DO NOT ENTER THE HANDLER WHILST IN THE RAISED POSITION.
- WHEN LOWERING THE HANDLER, PAUSE AT APPROXIMATELY 200MM ABOVE GROUND LEVEL TO ALLOW LIVESTOCK TO REGAIN THEIR FEET BEFORE FULLY LOWERING.

MAINTENANCE REQUIREMENTS

DAILY:

- CHECK HYDRAULIC LINES, FITTINGS AND RAMS FOR LEAKAGE OR DAMAGE. RECTIFY IMMEDIATELY IF REQUIRED.
- CHECK LIFTING CABLES FOR ANY SIGNS OF WEAR OR FRAYING. REPLACE IMMEDIATELY IF DAMAGED. ENSURE ANY REPLACEMENT CABLES ARE CORRECT SIZE, RATING AND APPLICATION.
- GREASE LIFTING SHEAVE AXLES.
- CHECK ELECTRICAL LEADS AND CONNECTIONS FOR DAMAGE. REPLACE IF REQUIRED.
- CLEAN ANY DEBRIS FROM SLIDES AND GUIDES TO ENSURE FREE OPERATION.

WEEKLY:

- CHECK NYLON GUIDES FOR EXCESSIVE WEAR. REPLACE AS NECESSARY.
- CHECK OIL LEVEL IN HYDRAULIC PUMP RESERVOIR AND TOP UP AS NECESSARY.
- CHECK HANDLER IS LIFTING SQUARE AND LEVEL. ADJUST AS REQUIRED VIA ADJUSTING BOLTS AT CABLE FIXING POINTS.
- LUBRICATE GATE OPERATING MECHANISM AND ALL GATE CATCHES AND LATCHES.

MONTHLY:

- CHECK SHEAVE BUSH AND AXLE FOR EXCESS WEAR. DO THIS BY REDUCING LOAD ON THE CABLE AND CHECKING FOR PLAY IN THE ASSEMBLY. REPLACE AS REQUIRED.
- CHECK ALL LIGHTS AND BRAKE MECHANISMS ON TRAILER IF APPLICABLE. GREASE ALL TRAILER COMPONENTS.

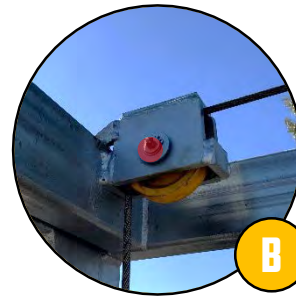
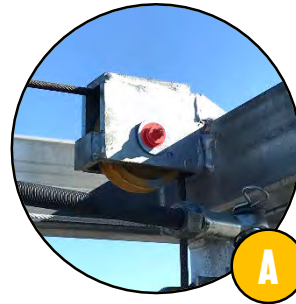
ANNUALLY:

- REPLACE OIL IN HYDRAULIC POWER PACK UNIT.
- CHECK STRUCTURE FOR SIGNS OF FATIGUE.
- CHECK ALL TRAILER BEARINGS, SHACKLES, SPRINGS AND BRAKES FOR WEAR AND CORRECT OPERATION (IF APPLICABLE).

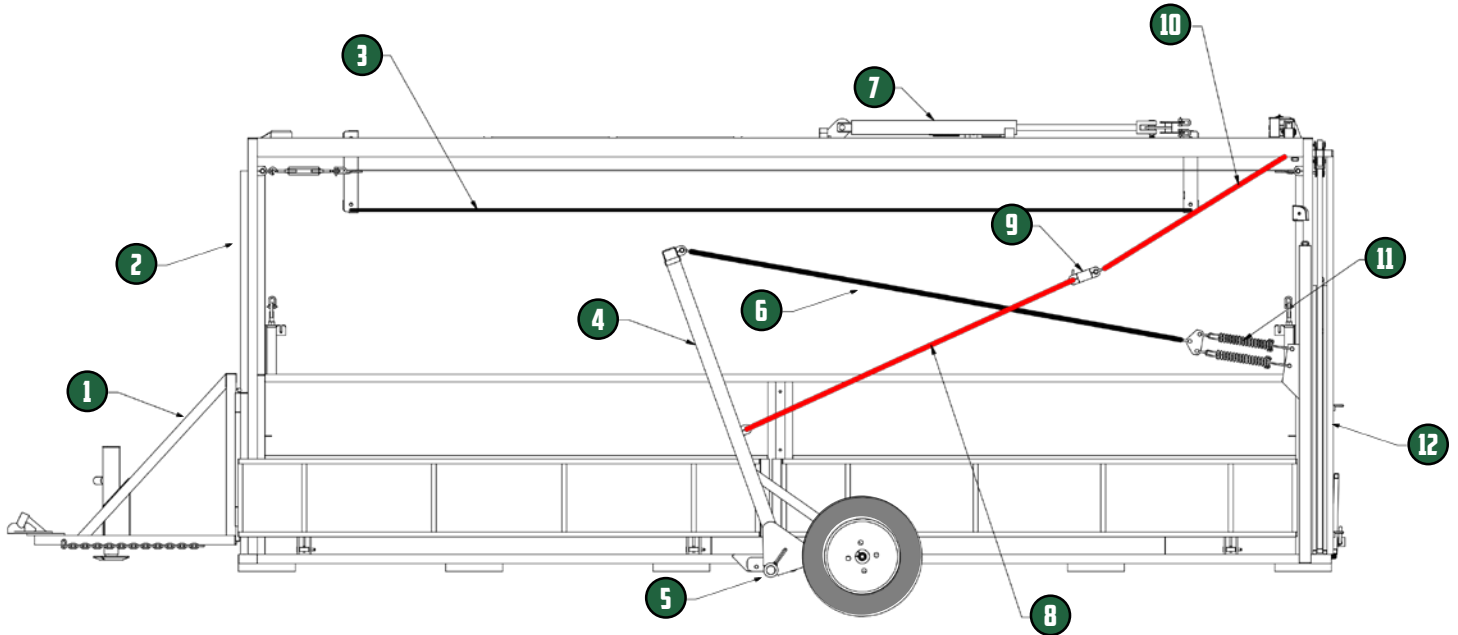
GREASE NIPPLE POINTS

There are a total of 11 grease nipples which should be regularly maintained.

- A** Exit lift point passenger side (single nipple)
- B** Exit lift point drivers side (single nipple)
- C** Entry lift point passenger side (two nipples)
- D** Entry lift point drivers side (two nipples)
- E** Entry lift point centre (three nipples)
- F** Wheel frame (one nipple per frame)

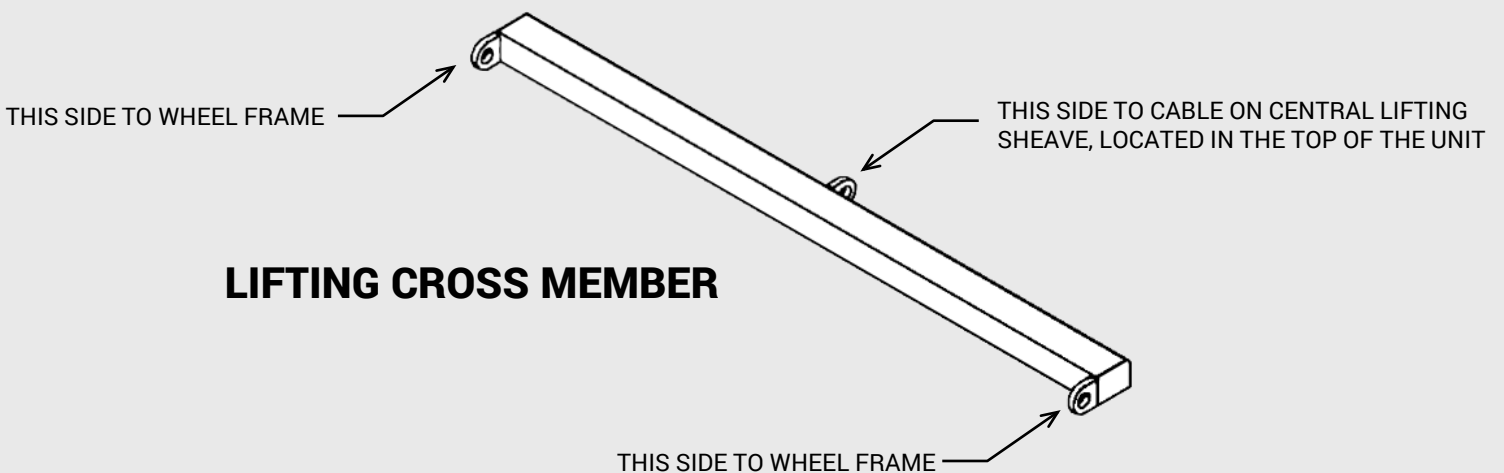


MOBILE BULK HANDLER COMPONENTS



- | | |
|-----------------|--|
| 1 Tow frame | 7 Hydraulic ram |
| 2 Push out gate | 8 Lifting chain (wheel frame to cross member) |
| 3 Rope switch | 9 Lifting cross member |
| 4 Wheel frame | 10 Lifting cable (cross member to centre lifting sheave) |
| 5 Axle | 11 Suspension springs |
| 6 Towing chain | 12 Sliding gate |

} Do not attach when towing



SETTING UP THE MOBILE BULK HANDLER



To set up the Mobile Bulk Handler, start by backing it into position.

Ideally select a site that has a flat area for the handler to be set up.

The standard sheep entry is at the opposite end to the tow frame, and having a bugle lead-up to reverse up to is ideal for sheep flow.

Once in position, use the jockey leg to lift the handler off your tow ball.

You can now begin to take the unit out of mobility mode.



First, take the lifting cross member and attach the lifting cable.

This will be suspended in the top of the unit.

All of the chain connections are with heavy duty D-shackles and pliers may be required to loosen the bolt in some cases. The cable runs on the central wheel at the entry end of the handler.

SETTING UP THE MOBILE BULK HANDLER



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There are two chains that need to come back to the wheel frame on each side.

The corresponding lug is located midway down wheel frame and can be attached with the supplied D-shackle.

These should only be attached when putting the bulk handler in and out of mobility and should not be fastened during towing.

The hydraulic hoses can now be connected to the electric power pack.

To avoid jamming the hydraulic valves, do not power on the motor until both hoses are connected. When both are connected, power on the electric hydraulic motor.



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Lifting the Bulk Handler can now be activated by pulling the rope switch in the direction indicated (towards entry).

The hydraulic ram will begin to lift up the floor and the cross member, taking tension off the towing suspension chains. The ram is fitted with a switch to cut off at the correct height and the suspension chains should now be slack.

SETTING UP THE MOBILE BULK HANDLER

FLOOR DOWN



- A** Towing cross member under tension
- B** Chain pulled tight
- C** Chain loose
- D** Lifting cross member loose
- E** Springs tensioned

FLOOR UP



- A** Towing cross member relaxed
- B** Chain loose
- C** Chain pulled tight
- D** Lifting cross under tension
- E** Springs relaxed



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The suspension chains can be now removed from the wheel frame cross member. It's a good idea to keep the D-shackles with the chains to avoid losing them.

The springs can also be released from the entry end of the handler. Remove the chain and springs from the opposite side keeping all of the fittings together.

SETTING UP THE MOBILE BULK HANDLER



With the suspension chains removed, the jockey leg on the tow frame needs to be let down and locked into a horizontal position before you attempt to lower the unit to ground level.

The rope switch can now be pulled as indicated (towards exit) to bring the Bulk Handler to a resting position on the ground.

As the lifting cross member descends, tension will be released from the chains attached to the wheel frame. At the lowest point, there is enough slack to remove these all together.



You will only need to undo the chains at the wheel frame end, leaving them attached to the lifting cross member to keep it in one piece.

SETTING UP THE MOBILE BULK HANDLER



You can now undo the cable connected to the middle of the lifting cross member. The loose lifting cable can be kept out of the way by attaching it to itself directly above. Do not attach it to a stationary point, it should run freely on itself.

Now the lifting cross member and attached chains can be put aside and will not be needed until the unit is packed back into mobility mode.

The final stage is to remove the wheel frame. Start by slipping the wheel frame cross member out of the top of the frame.

There is a safety D-pin in the axel that needs to be pulled out before removing the wheel frame.



The frames can now be slipped off the axle with an up down leverage and pressure away from the main handler body.

There is a grease nipple on the axle sleeve should the frame become tight over time. It's a good idea to keep all loose components in the same place, out of the way of your sheep work to avoid baulking and tripping hazards.

SETTING UP THE MOBILE BULK HANDLER



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With both axles off, replace the safety D-Pins through the axle. The walkway platforms can now be released for a raised work platform.

The tow frame can also be unpinned and removed. If you are using portable panels up to the bulk handler, you can pin these in place at the entry and exit ends.

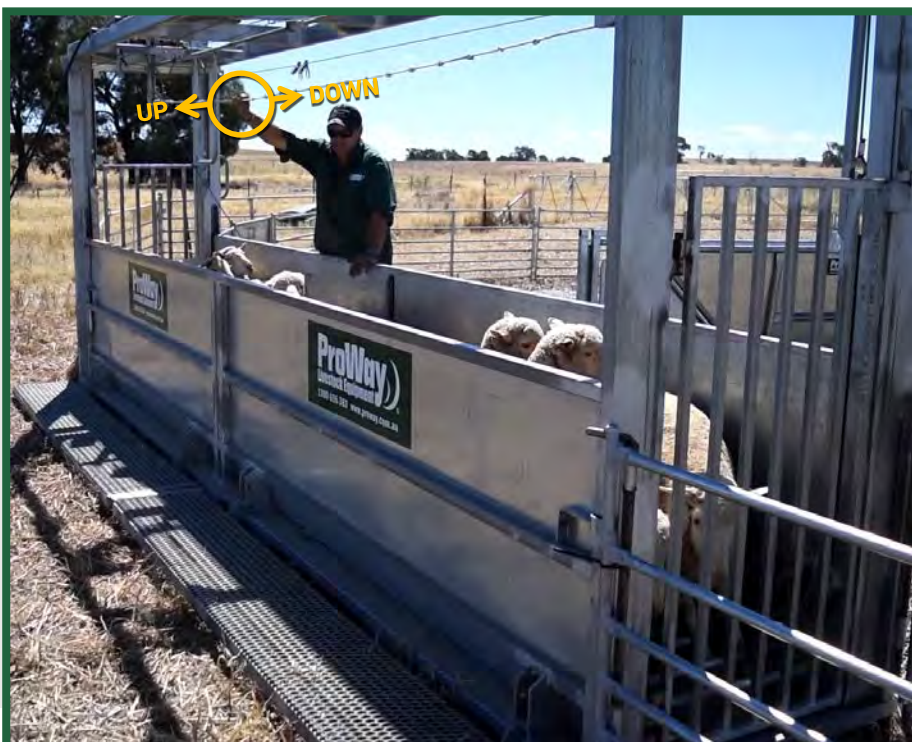
You are now ready to use your ProWay Mobile Sheep Bulk Handler.



OPERATION INSTRUCTIONS AND TIPS



- Operation and filling is low stress, as sheep can move into the bulk handler as a group.
- We recommend a bugle yard leading into the handler for both permanent and mobile units.
- Stockflow is improved by having sheep visible in the yard at the exit end. It's also good practice to have a reasonable holding yard that sheep exit into.



- To lift the hanging floor, pull the rope switch towards the entry end of the unit.
- The hanging floor will come up under the sheep's bellies, holding them in place.
- Be mindful of the moving frame and potential pinch points as the suspended sheep come up to a working height.

OPERATION INSTRUCTIONS AND TIPS



- Drench packs can be easily attached to the awning pulleys running either side.
- To bring the unit back down, pull the rope switch towards the exit end of the unit.
- It's good practice to stop the descent of the handler roughly 100mm from the floor. This allows sheep to find their feet before lowering the frame all the way down.



OPERATION INSTRUCTIONS AND TIPS



To open the exit gate:

- 1) Pull down on the release cable, which will disengage the gate catch.
- 2) The gate can now be swung open with the suspended handle
- 3) It will lock back into place when closed.

WARRANTY

ProWay Livestock Equipment covers the products it manufactures for five years against workmanship or materials.

Regular maintenance of products is required and this will ensure years of safe and efficient stock handling. With the correct site preparation and maintenance, our products and facilities can be expected to last a lifetime.

Workmanship:

2 years warranty against workmanship and material failure on goods manufactured by ProWay. This excludes damage caused from unsuitable use i.e. trucks backing into structures incorrectly. Any defects will be repaired if possible, or replaced as required.

Steel:

All steel used is to the standard shown in the test certificates and complies with the relevant Australian Standards. Upon request, copies of the test certificates can be provided.

Fittings & Hardware:

2 years warranty on all fittings and hardware used in yards and equipment. Any defective items will be replaced.

Warranties provided by external suppliers:

Externally supplied equipment is often protected by manufacturers' warranties. The benefits of these warranties are passed on to our customers should they be required.

Should you have any queries, please contact ProWay on (02) 6932 4000.

FREQUENTLY ASKED QUESTIONS

We're here to help and all technical questions can be directed to our head office on 1300 655 383. Some of the commonly asked questions we receive are listed below for your convenience.

Q.) The jockey wheel doesn't lower to ground level?

A.) Place jockey wheel back onto towball and adjust pin in jockey wheel to higher hole slot in the adjustable sleeve.

Q.) The chains are short of the lugs they need to join to?

A.) The travel clamp on the cable at the top may have moved or been set incorrectly. The clamps are ideally set for the handler to cut in and out of gear at the correct location, but can become loose in transport and slide along the cable.

Q.) Can I lift the handler up higher than the original setting?

A.) The maximum height allowed with the hydraulic ram we use, is approximately 50-60mm higher than the sides of the handler.

Q.) What is the blue cable for at the entrance end?

A.) This is used for lifting the sheep up remotely from the operating rope as you force sheep in at the sliding gate. Particularly useful when handling lambs as they don't have time to spread or climb on each other.

Q.) What is the dome shaped object with the handler?

A.) It was developed for clients using the handlers for goats as baulk bar for stopping the goats wanting to jump out prior to lifting. It is hung by the four chains from the chain slots on the lifting arms and is also useful when handling lambs.

Q.) The quick release hoses won't lock in?

A.) Slightly release pressure at the join back from the quick release clamp with a pair of shifters. A rag will be necessary to wipe excess hydraulic oil that is bled as a result.

FREQUENTLY ASKED QUESTIONS

Q.) What oil do I put in the tank?

A.) ProWay use Castrol Texamtic 1888, we recommend a comparable Automatic Transmission fluid for best results. To protect overflow, fill hydraulic oil 50mm from the top of the tank when the cylinder is retracted.

Q.) What rates do the motor hydraulic components run at

A.) The supplied hydraulic motor runs at a flow rate of 8.8 litres a minute at 120 bar. However, ProWay have optimised valve pressures for operation of the Bulk Handler. This ensures the unit runs efficiently and prevents it from overheating. For servicing purposes, ProWay can provide you with pressure values depending on the handler model.

Q.) How small can I put lambs into the handler?

A.) Lambs down to 18-20 kgs are suitable for the bulk handler.

Q.) Can I wet and dry sheep with the bars under the sheep's belly?

A.) The sheep can be let down and the floor stopped halfway down allowing access under the sheep. The floor can be left down at ground level also for this operation.

Q.) The wheels are very hard to put on/get off?

A.) The wheels slide on and off a lot easier when the stubs and hubs are well greased. A bouncing motion with gentle pressure the way you want the wheel to go is the best method.

Q.) How heavy is the mobile bulk handler?

A.) The bulk handler weighs 1620 kgs.

Q.) Is the handler legal to go on the road?

A.) Always check local rules for any changes to legislation, but currently the handler is classed as a farm implement and can be driven in Australia on public roads with an orange flashing light on the towing vehicle as the minimum requirement.



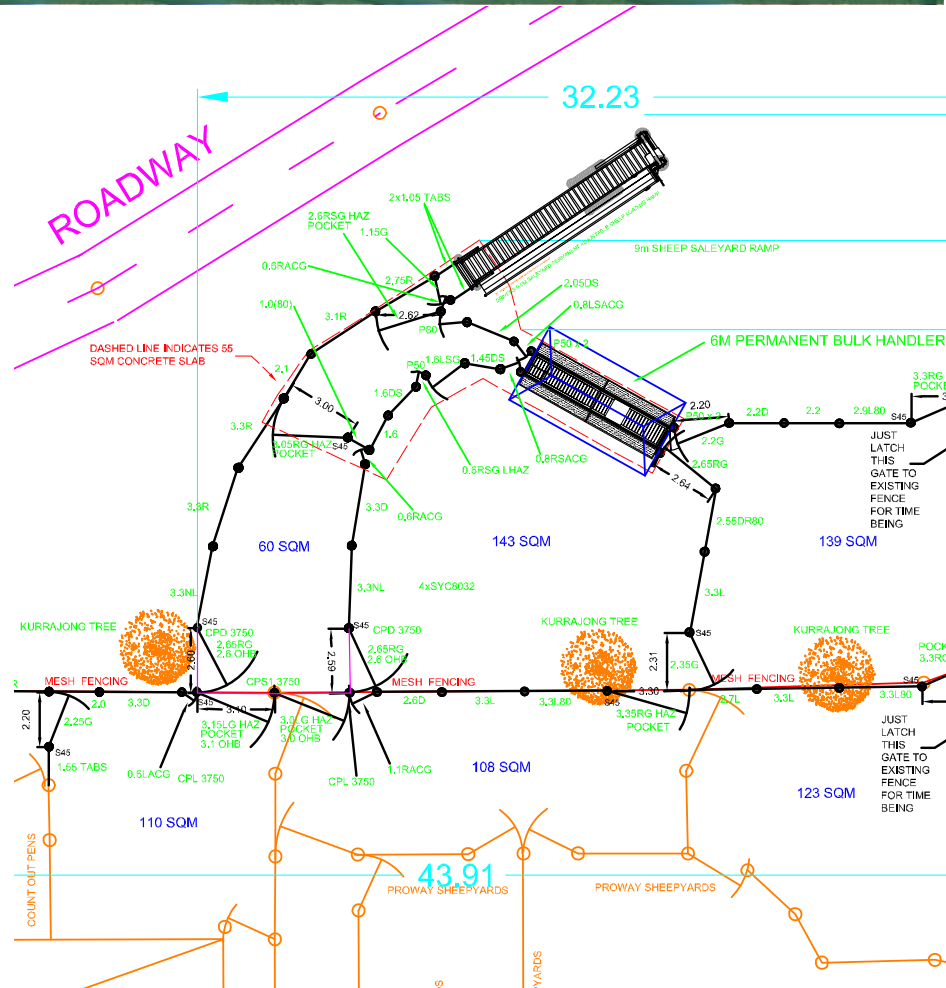
ProWay design, manufacture and install over 300 sets of stockyards each year.

CUSTOM DESIGN SERVICE

ProWay's key advantage is our underling experience in custom design and product quality.

Our commitment to providing equipment that promotes safety and stockflow is backed by our customers as well as livestock professionals across Australia and the world.

It is this experience and valued customer feedback that has lead us to our refined, premium quality equipment.



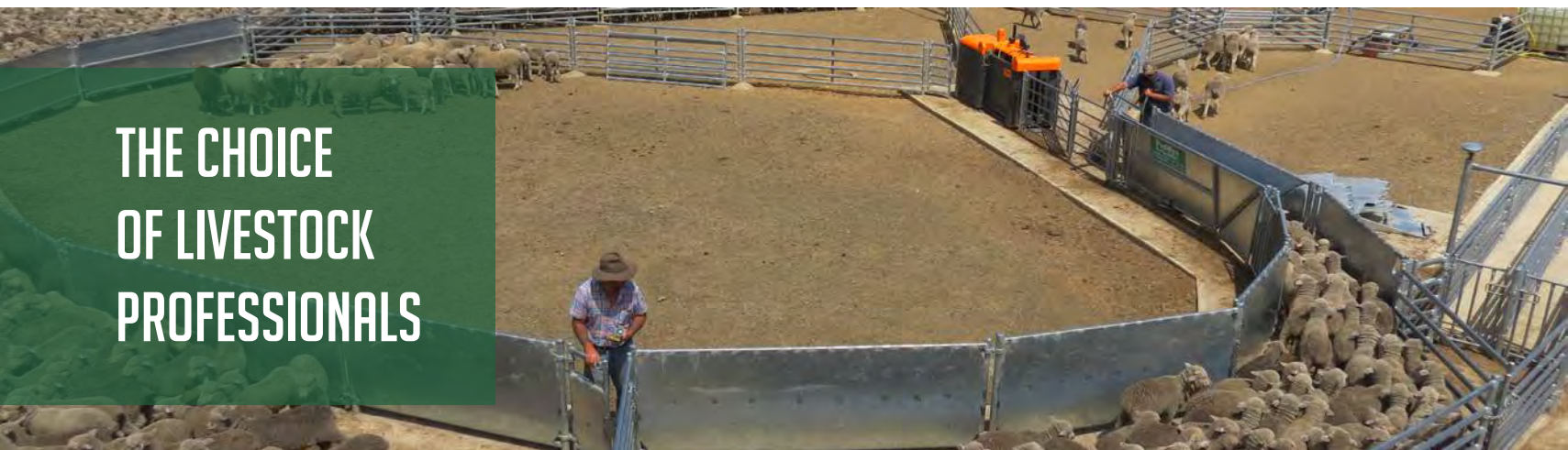


ProWay Livestock Equipment have been in operation since 2000, and so have vast experience in delivering comprehensive solutions across the livestock industry.

We have undertaken the design process for thousands of customers, including primary producers and commercial operations. You need to experience a ProWay system to comprehend the difference.

COMPARE THE MATERIALS AND WORKMANSHIP

- **Quality manufactured steel** – Steel will be the correct tensile strength. All rail material is a minimum 350 mPa, and post sections a minimum of 250 mPa.
- **Steel will be held at Australian standard section** – Imported steel and products may look similar, however will often have a reduced wall thickness, be weaker in strength and poorer in galvanising quality.
- **Galvanised steel** – All ProWay ground engaging posts are coated with a minimum 600 grams/m² zinc coating. All rail sections are a minimum of 200 grams/m².
- **Steel will be used in the right places with suitable weld quality** – A yard system is only as good as its weakest link. We are a tradesman-based manufacturer. We have an accumulated knowledge in engineering for longevity, and build products with appropriate steel sizes to avoid fail.



THE CHOICE
OF LIVESTOCK
PROFESSIONALS



COMPARE THE WHOLE OF LIFE COSTS

The starting point for the design of all ProWay products is longevity. All of our equipment is designed to have a low maintenance requirement.

You should not need to repair our products within their economic life. The most taxing task may be to lubricate a catch or rotary force ring.

COMPARE THE EFFECT ON YOUR BUSINESS

Staff, agents, contractors and vets all appreciate the benefit of working in a well-designed, well-built facility. It marks the professionalism of your business.

You will appreciate the safety, efficiency ease and effectiveness of stock processing in a ProWay facility. These benefits continue for decades.

ProWay offer a unique 'on-site-design' service using satellite and survey technology to get a comprehensive understanding of your existing infrastructure.

We can overlay your design to give you a scaled and accurate concept to best convey the initial concept.



COMPARE THE FUNCTIONALITY

- **OUR YARD LAYOUT** will optimize stock flow. We don't compromise layout to suit standard panel sizes. We alter panel sizes to optimise layout.
- **OUR YARD SYSTEMS** incorporate the little features which make big differences to functionality. Lift and turn draft stoppers, guillotine gates with counter-weights, safety release gates, strategic man-gates – they will all make a huge difference to your efficiency and comfort in working livestock.
- **OUR DESIGN** will maximise efficiency. Getting pen sizes right, gate function correct, man-gates in the right place and minimising operator travel paths can make huge differences in stock processing efficiency.
- **OUR LAYOUTS AND PRODUCTS** will maximise operator and animal safety. We will separate operators and livestock where possible. Our product design considers eliminating features that will hurt people. Removing leg-breaking gaps, correct rail spacing, and strip sheeting in strategic places can all prevent animal injury. Optimising stock flow reduces animal injury.



The livestock industry is on the cusp of a technology revolution, which will affect your day to day operation and management.

ProWay facilities are designed to adapt to technologies as they are developed and evolve.



Thank you for purchasing the ProWay Bulk Handler

The following document outlines key safety and operation instructions.

Please be sure to read this carefully before operation