Leda Security Products

Newsletter No.36

"Hydroswing" The latest in large door technology

Leda "Major" Bollards for QEII Hospital

A Very Long Gate

BOLLARDS BIFOLD GATES INDUSTRIAL BOLLARDS HIGH SPEED DOORS SLIDING GATES PVC DOORS BICYCLE PARKING LARGE DOORS DOCKS AND DOORS SWING GATES SECURAPOST BOLLARDS

CONTENTS

LEDA SECURITY PRODUCTS


» p.3

» p.8


» p.14

» p.15

SECURADOOR

With the release of our latest and long awaited “Industrial Doors and Loading Dock” handbook we felt it appropriate that we should devote the greater part of this newsletter to some of the new products and technology Leda is introducing.

In particular Leda’s new “Hydroswing” doors are an amazing breakthrough in design and engineering for large doors.

Hydroswing doors have application in:

• Agricultural • Aviation • Mining • Industrial • Architectural

- Hydraulic operation
- Up to 12mt high and 45mt width
- Wind rating to suit all locations in Australia
- Maximises clearance heights
- Can also be retro fitted to existing buildings
- Manually operable on power failure with UPS
- Quick and easy to install

HYDROSWING AVIATION DOORS

The Hydroswing® hangar door is now the benchmark single panel hydraulic door system. Whether you have a home built plane, Global Express, helicopter, glider, Cirrus or a King Air, we've got a door that will fit your aircraft hangar.

As we have for seven thousand Hydroswing® customers, we'll custom manufacture hangar doors in any size as large as 12 mtrs high and 45mtrs wide.

Need more headroom on your airplane hangar? Removing bi-fold doors or slider doors? Replacing them with a Hydroswing® Hangar Door can increase your overall hangar door opening. Hydraulic doors are a perfect alternative to fabric and bifold doors and can be easily installed nationally.

The hangar door systems that Hydroswing® designs and manufactures have some of the lowest in service life costs and lowest maintenance costs in the large door industry. Over 70% less moving parts and no additional rails to be sunk into the threshold or hung to the header, no wires or chains to snap rust or shear, no exposed drive shafts, gears or extra locking devices to keep the door shut.

Doors are manufactured to ISO 9001 and provide a fully engineered product for T hangars, FBO, executive, Military and more recently aerospace industry (such as Wing and fuselage paint booths). Hydroswing® is the original and ever evolving single panel hydraulic door system. Standing out as the world brand leader serving private, corporate, military and general aviation.

HYDROSWING ARCHITECTURAL

The Hydroswing® single panel hydraulic door system has become a blank canvas for creative architects who specialize in challenging high profile homes and public spaces. Hydroswing® make walls become doors and merge the outside world with an architectural space.

The Hydroswing® overhead door can be custom built for size, environmental seals and multiple leaves. Providing feature focus or simply solving a problem that no other door system can. Never has anyone been able to lift so much glass with the touch of a button. Hotels and stadiums feature walls that simply open to the outside world. Restaurants, bars, lobby areas, garages for car collections and anything else where there is a desire to move walls, Hydroswing® is the brand new workspace for imaginative and leading edge architects.

The simplicity of the hydraulic door removes the need for cables and counter weights used in so many ambitious architectural projects and curved facades. The door can be easily installed to match building profiles, heavy and ornate finishes are lifted with ease with the power of the hydraulic single panel door system.

Never before have architects and designers had the ability to effortlessly and silently move structure. Use of the Hydroswing® in architecture is a liberation to the existing limiting factors of Bi-fold, sliders and counterbalanced doors.

The architectural door / wall possibilities are endless... as is our ability to now make your ideas into reality.

HYDROSWING AGRICULTURAL

The Hydroswing® agriculture door has become the icon door for farm machinery sheds, big and small. Providing trusted reliability with technology farmers trust and believe in. The agriculture and farming industry revolves heavily around hydraulics, why shouldn't your door?

Strong and well sealed, the hydraulic door is easy to install on post frame buildings and pre engineered steel buildings. The Hydroswing® ag door is a perfect solution for replacing slider doors and roller doors. You can also enlarge your existing opening by replacing an inefficient bi-fold door. The Hydroswing® agriculture door has become the first choice for several thousand agricultural users in the USA and is now available in Australia.

The standard door made by Hydroswing® for agriculture has many inclusive features, such as three framed out window openings and a walk through door as standard, easily carries additional insulation weight and can be used for livestock and cattle operations, just as easily as on a post and frame building or steel building.

Agricultural Doors with special applications such as hydraulically operated covers and bin stores are regular uses of the Hydroswing® single panel hydraulic door system. Hydraulic overhead doors have very few moving parts which save you time and money.

HYDROSWING MINING

The Hydroswing® mining and industrial overhead door has evolved into many special applications. Mines, factories and machine shops have all adopted the strength and reliability the hydraulic door offers. The Hydraulic Overhead Door is not only the standard door for aircraft hangars and agriculture sheds, it's becoming the standard alternate solution for many applications that demand security and ease of use. Whether you're doing a brand new building or replacing an outdated bi-fold door or roller door, the Hydroswing® Single Panel Industrial Door can help increase opening height while reducing building height.

As the need for simplicity and strength for industrial buildings and industrial processes grows, the hydraulic doors from Hydroswing® are a natural choice. Ownership costs of the doors over 10-20 years due to the lower maintenance costs mean increasing operational efficiency and reduced downtime. The hydraulic single panel door is simple, viable, strong and durable in the mining, construction, manufacturing and storage environment.

Hydroswing® doors are also used as a hydraulic hatch in the recycling and chemical industries. This allows for secure hydraulically operated covers for in ground tanks and allows use of the upper side of the door where space is at a premium.

As the need to house industrial equipment and secure bio mass facilities grows, the demand for large openings grows. Securing and sealing these dangerous working environments is taken care of with the solid strength and security provided by the Hydroswing® Door.

June 2014 Newsletter |Issue 36

VERY LONG GATES

Leda recently completed a contract to design, manufacture and install vehicular access control gates at three of Lebherr Australia's branches. Their Adelaide site provided Leda's staff with a number of challenges.

The project had many constraints due to the size of the gates, the location of the install, site operational requirements and very stringent site required OH&S rules.

With the use of a 20 tonne franna crane, the gates were off loaded and installed in place very quickly.

The gates had many features that were unique to this project. Both 15 metre track gates use a belt drive system for smooth and quite operation. One of the gates was on a incline so a damper system was required.

Our install team overcame all installation and site issues to successfully complete the project.

Large gates can also be used on busy entrances provided the correct drive motor and controls are incorporated in the design.

This 10 metre cantilever gate installed by Leda's Victorian branch at McColls Transport at Geelong is designed to open and close repeatedly many times a day.

Leda's engineering staff fitted a robust heavy duty drive motor and gear box that will provide reliable service during its service life.

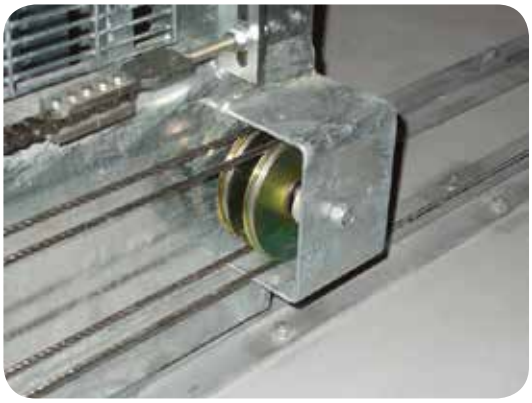
18 METRE BI-SLIDE TRACK GATE

Engineering a Solution

Indooroopilly shopping centre in Brisbane is currently being redeveloped by Brookfield Multiplex. One part of the project called for an automated gate to secure the loading docks at night and at times when the mall was closed. The gate was an addition to the already finished dock area. The problem was that there was not enough space for a 18 metre gate to open into. Brookfield Multiplex and Leda Security Products have completed several successful projects in the past, so Leda was tasked with finding a solution.

Pedestrian Gate Access in Main Gate Leaf

Leda's engineering team came up with a Bi-Slide track mounted gate consisting of a 10 metre back leaf and 8 metre front leaf. The front leaf travels at twice the speed of the back leaf so opening time is halved. Leda's engineering team designed the gate to fit snugly against the existing building pillars. The gate has an clear opening of 18 metres, is 2. 7metres high and opens into a 11 metre space.



Pulley System

SECURABIKE GOES INTERNATIONAL

Bike Parking Facilities at Papakua Station New Zealand

During the last year Leda's management have successfully appointed a number of international distributors and resellers for our "Securabike" bicycle parking products.

Securabike products are now being sold and installed in

- New Zealand
- USA
- Canada
- UK
- China
- Singapore
- Columbia

We are also receiving very good enquiries from a number of countries in Europe and South America which we hope will come online shortly.

Cadillac Racks Destined for the "City of Toronto" Canada

Bike Shelter Auckland New Zealand

Bike Racks at Sheraton Hotel Ningbo China

END OF JOURNEY FACILTIES FOR CYCLISTS

Valmont

Leda's Securabike team are experiencing increased demand to design and install "end of journey" facilities in commercial buildings across Australia's major cities.

These projects normally involve locating bike parking in secure areas that can only be accessed by the cyclists using them.

The project shown here was recently completed at Chifley Square Sydney for Valmont. It involved manufacturing and installing a 3.0mt high bike cage with a 1.2mt automatic sliding door.

Entry to the cage is accessed by a swipe card access control system. Internally the cage is fitted with Leda's BR2101 vertical bike racks and a BPS01 bike repair station. The facility is currently catering for 18 cyclists.

BR2101 Vertical Bike Racks

Another end of journey project recently completed in Sydney.

Two bike cages were manufactured and installed at the "Duetsche Bank Building" in Phillip Street Sydney for Investa.

Modular steel mesh panels were used to build the cages, along with automated pedestrian gates for access. They were then fitted out internally with 48 of our popular BR2101 vertical racks catering for 96 cyclists. A Leda bike repair station was also installed to provide cyclists with a stand, various tools and foot pump to carry out maintenance on their bikes.

Investa

ECONOMY BIKE LOCKERS

Leda have recently completed installing 198 individual bike lockers for “The Quay” apartments in Sydney.

The builder Parkview Constructions needed to locate the lockers in both single and double height configuration (for space optimisation). This new design also provided a more economical option with such a large quantity required.

Our engineering department at Tuggerah were able to design a knock down unit that uses a steel (RHS) frame clipped together using a clever plastic joining system and galvanised sheet cladding.

The innovative design allows all the components to be transported (in knock down form) providing considerable freight savings. The economy bike lockers can then be quickly assembled and installed on site.

Economy Bike Locker Frame

Installed Economy Lockers

BIKE NEWS

New Locking System for Bicycle Lockers

Leda's Tony Stuart has recently co-ordinated the installing of a new master keyed locking system for all of Transport NSW bicycle lockers.

The project involved changing and installing new locks to 900 bike lockers located at dozens of Sydney railway stations. As these lockers were in use by cyclists commuting to work the replacement was scheduled with the departments staff. It was then organised to undertake the lock change-overs railway line by railway line to minimise inconvenience to the locker users.

The new high technology locks are much more user friendly, replacing an older outdated system that has been in operation for over 20 years.

Completion of the project by Leda staff was accomplished very quickly in just under 4 weeks.

New Lock with Spring Loaded Vandal Ressistant "T" Handle

New CBR4SCL Sliding Bike Rack

Another new Securabike addition. This sliding rack is specifically designed for end of journey applications and is supplied in sets of four.

The rack can move sideways in either direction and with the front wheel supports having staggered heights provides optimum bike storage at 300mm spacings.

MAJOR BOLLARDS PROVIDING SECURITY AND AESTHETICS

QEII Hospital Queensland

Leda's Brisbane office have recently installed 52 of Leda's "Major" bollards at the "Queen Elizabeth II Hospital" in Brisbane.

The attractive triangular shape of major bollards are strengthened internally with 80NB extra heavy pipe sections that are firmly installed into reinforced concrete footings to provide protection from vehicular ingress.

Leda's Major bollards are available in either "fixed" (insitu) or "locking and removable models". In this instance they were installed to provide safety and protection to the buildings façade and pedestrian entrance.

Specify the Correct Bollards

Leda has been actively involved installing high security bollards at a number of Queensland hospitals following an accident that occurred at Gold Coast University Hospital.

Five people were injured when a car hurtled through the front entrance glass doors into the foyer. Before coming to rest the vehicle ploughed through metal bollards that did not provide sufficient stopping power to arrest the vehicle.

Leda has a range of engineered and PAS68 certified bollards that are rated for various vehicle weights and speeds that if installed on this site would have stopped this accident occurring.

TECHNICAL INFORMATION

"Upgraded Control Cabinet"

Leda's Sydney technicians recently completed an upgrade of the control cabinet for the retractable bollards located and operating at the "Pitt Street Mall" in Sydney.

The work required involved installing new IP68 rated cabinet and fitting a customised hinge so the control cabinet can be located within street furniture.

For aesthic purposes the cabinet has been hidden in one of the mall seats. During routine servicing the timber seat is lifted and the control cabinet can now be hinged into an upright position to allow our technicians to carry out servicing and maintenance.

The retractable bollards were installed at both ends of "Pitt Street Mall" several years ago and the cabinet modification and upgrade was undertaken during a regular maintenance visit.

UNDERCARRIAGE CANTILEVER GATE FACTS

Written by Richard Matthews

Undercarriage gates are a increasingly popular style of cantilever gate. Undercarriage gates can be successfully manufactured from 3 to 13 metres in length. While there are some material savings with the undercarriage system, the undercarriage system itself can be costly.

The eventual cost outcome is about the same for either a traditional or undercarriage system so I would recommend to any customer looking at either system to make a decision based on the merits of the gate rather than cost. Finally, not all undercarriage systems are of equal quality. A number of cheap roller systems are available which can lead to ongoing issues with undercarriage gates. It is important that purchasers understand the pros and cons of this system and the suppliers they are commissioning with manufacturing these style of gates.

Early versions of undercarriage gates did experience some problems which acted as a deterrent in their use. One of the issues with this system was that the “C” channel which housed the internal wheel system tendered to open up over time. This meant that the gate started to move within the channel which led to mechanical issues such as the gate dropping from its original installed position while in the closed position. This can lead to ongoing issues with the drive mechanism such as the gate racking and connection point with the motor cog. Fortunately these issues have now been overcome making undercarriage gates a more viable option.

An Undercarriage Gate

Conventional Cantilever Gate with Running Rail

The undercarriage system effectively has four rollers at the sending post and another four rollers further back to counteract the cantilever effect of the gate being suspended, there is very little 'point' loading which is a major advantage. With a conventional cantilever gate there is one roller at the sending post for which all the weight of the gate is then suspended on.

The undercarriage system is able to better dissipate the weight and by simply adding a second roller the point load from a one roller system is reduced. This also makes the gate far easier to open and close manually.

Undercarriage Rollers

Where power outages or emergency requirements may require a large or heavy gate to be opened manually then the undercarriage system should be considered as they generally require less force to open and close. Additionally, the undercarriage gate does not require a running rail so it requires less room. In effect the undercarriage gate requires a smaller footprint over traditional cantilever gates. This was very apparent on a number of wharfs where Leda has been able to install undercarriage system on wharfs suspended over water. The gate in the open position is able to be suspended far out over the water which is impossible with a traditional cantilever gate.

"C" Channel

Running Rail on Conventional Cantilever Gate

Undercarriage Gate
No Running Rail Required

SERVICE AND MAINTENANCE

In the Queensland team, Leda has now a strong installation and service team ready for all enquiries and repairs.

Leda specialises in maintaining and servicing of all our Securapost bollards on regular intervals.

All our clients are happy with the service and are taking up the Preventive Maintenance Contracts (PMC) to preserve the life of their bollards and to avoid issues in the future.

TECHNICAL INFORMATION

Sydney Markets Flemington

Leda's Sydney office recently supplied and installed a further 6 full height turnstiles for Sydney Markets at Flemington.

On the previous installations the electrical conduit ran across the top rail but the client were unhappy with the finished appearance.

After a site visit with the customer Leda's staff came up with the idea of drilling out the holes on the top rail, we then added a flexible rubber sheath with internal metal braid conduit. It was glued in place with a flexible sealant and then painted grey to match in with the galvanised finish giving the customer the required finish they were hoping for.

MESSAGE FROM THE MANAGING DIRECTOR

LEDA SECURITY PRODUCTS

As we go to print with this second newsletter of 2014 Leda has completed another successful year. It has also seen sales of our companies "Securabike" products expand globally.

At home here in Australia we have completed the final product selection for Leda's industrial door range and released the hard copy handbook for Leda's fourth product division. It has taken Richard Matthews (our CEO) and Leda staff over two years to assemble what we believe is the most comprehensive range of "Industrial Doors and Loading Dock Equipment" in Australia. It positions Leda well for further growth in the next financial year.

While new product releases in our other product groups has been limited, our engineering department has been strengthened with additional staff allowing many new design improvements to be undertaken. Of particular note is the new mechanical engineering designs for our automated bifold gates. There continuing upgrades are part of a continuing strategy to improve the quality and reliability of all our automated vehicular access control products.

Leda's manufacturing and installation staff continue to be challenged by the many varied engineering projects that we undertake. We hope you will find all or many of them featured in this newsletter of interest.

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