MASTEC® MAStrac

Electronic Bin Delivery System

Australian Made for Australian Conditions

Australia's First Fully Computerised Bin Delivery and Asset Registry System

As anyone who has ever been involved with rolling out a new waste management service will attest, the task of assembling and delivering bins can represent a major challenge – especially in terms of logistics and data management.

In fact, for many councils and authorities, the bin roll-out for a new residential waste or recycling service is one of the largest and most complex logistics and data management tasks with which they will ever be involved.

Developed in Australia to meet the needs of the Australian waste management and recycling industry, the state-of-the-art MASTEC® MAStrac fully computerised bin delivery and asset registry system provides a highly-accurate and extremely efficient method of registering bin serial numbers and, if fitted, RFID tag numbers during the delivery process.

Over 2 MILLION Bins Across Australia

MASTEC® MAStrac utilises purpose-designed proprietary software and robust field-ready hardware to deliver outstanding accuracy and data integrity. And with OVER 2 MILLION BINS - both with and without RFID tags - registered and delivered for councils and contractors across Australia over the past five years, MASTEC® MAStrac delivers PROVEN PERFORMANCE – both in terms of on-time delivery and data quality.

———— Features & Benefits ————

- Eliminates manual data entry errors
- Can be used for bins with or without RFID tags
- Real-time data delivery to one central server
- Single central database with no remote-stored data issues
- Secure web-based access to real-time data
- Confirmation of RFID tag functionality at delivery
- Robust tags with proven performance
- ACMA (Australian Communications and Media Authority) approved Tag technology
- Data available in all industry standard formats
- Australian made, purpose-developed technology for Australian waste management industry applications
- Trained, dedicated delivery crews
- In-house delivery vehicle fleet
- Emphasis on OH&S during bin deliveries
- Extensive experience (over 10 years / 2,000,000+ bins successfully delivered and registered)
- Suitable for contracts of all sizes and for all bin sizes/combinations
- Australia-wide service

Eliminating Data Entry Errors

When it comes to data management, the accuracy and integrity of the data is paramount.

Put simply, any stage of any data management process that involves manual data entry (e.g. writing or keying in bin serial numbers, addresses, RFID tag numbers, etc.) has a significantly increased chance for errors to occur. Indeed, with every keystroke required the chance of data errors increases exponentially!

With that in mind, MASTEC® MAStrac is FULLY COMPUTERISED with NO MANUAL DATA ENTRY required at any stage of the process – eliminating data input errors for maximum data integrity.

In fact, for a number of councils that have used the system, the data from their MASTEC® MAStrac bin roll-out was so accurate, that they've ended up using it as the 'baseline' data to verify their own GIS / Ratable property data.

High Performance RFID

With so many RFID tag solutions available on the market today, ensuring that you chose the right tag solution is critical – especially when it comes to long-term performance in harsh operating conditions.

While MASTEC® MAStrac is able to function with both LF and UHF EPC Global Class 1 Gen2 compliant RFID tags, MASTEC® bins utilise Ultra High Frequency bin tags from world-renowned manufacturer HID and carry a manufactures 7-year warranty.

Specifically developed for the waste management industry, the UHF Bin tags are specifically engineered to fit the MASTEC® bin chip nest and have an operating frequency within the 919 – 928MHz range which is fully-approved by ACMA (Australian Communications and Media Authority) for use throughout Australia.

UHF bin tags are suitable for use on all MASTEC® bin sizes, from the compact 80 litre MGB (wheelie bin) through to the high capacity TRU360 360 litre MGB and the AUS660 and AUS1100 4-wheel bins.

Maximum Flexibility

Developed with a focus on maximum efficiency and data accuracy, MASTEC® MAStrac delivers unrivalled flexibility to help overcome issues that may occur during delivery.

Suitable for use with all types of bins (either WITH or WITHOUT RFID tags) MASTEC® MAStrac enables delivery crews to overcome issues such as 'missing' or additional delivery addresses quickly and easily.

In addition, the fact that the system scans the RFID tag in the field at the time of delivery means that all RFID tags are checked and verified AT THE TIME OF DELIVERY, enabling faulty tags to be identified and replaced in the field prior to the bin being delivered and registered.

How it Works

During the manufacturing process, each MASTEC® bin is 'Hot Stamped' with a unique serial number and fitted with a matching serial barcode sticker. If required, the RFID Tag is also fitted during this process.

When the bin is delivered to the household, it is fitted with a second barcode sticker (the address label) that details the delivery address along with the size and type of bin that is required. This label is generated by the MASTEC® MAStrac software system during the data preparation process.

The address label, serial barcode sticker and RFID Tag (if fitted) are then scanned live in the field using a state-of-the-art handheld data scanner to create the combined record that is automatically transmitted (with a date & time stamp) via a GSM network to the MASTEC® MAStrac central database. If an address cannot be delivered to, an exception code is entered providing a clear explanation as to why.

The MASTEC® MAStrac central database can then be viewed by the client securely online, allowing access to an accurate 'real-time' picture of how the bin roll-out is progressing at any given time

High Quality Data

MASTEC® MAStrac not only delivers data quality and accuracy that is second-to-none, it also provides you with the flexibility to integrate the data with your choice of data management system.

From asset tracking and management systems through to collection service routing systems, MASTEC® MAStrac provides you with the high quality bin data you need.

Data is available in all industry standard formats (including Microsoft Excel®) ready for use with your GIS / Property / Asset database and YOUR CHOICE of Bin ID / waste management software solution.

MASTEC ®

Because There is a Difference

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