



BROCHURE

BALL WASH & TRANSPORTATION SYSTEM

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AMS Robotics
THE BALL WASHERS

STOP



Bring efficiency to your ball management /

The AMS automated ball management system collects, washes and transports.

We understand the need of having a convenient solution for keeping range balls clean and in constant supply. With the AMS automated ball wash and return system, from the time ball is hit to the time that same ball is back on the tee the process will have been handled efficiently and completely automatically.

Well versed in the specific requirements for designing and operating a golf range, we are able to customize our driving range maintenance solutions to suit both the small country club and the large commercial range.

Your four main exclusive benefits /



Fully automated ball cleaning

To maximise efficiency, the balls are washed during the transportation process back to the dispenser. During this process water is introduced into the transportation pipe as part of the pre-soaking process. The balls are then passed through a brush wash unit for thorough cleaning and then deposited clean directly back into your ball dispenser.



No hassle ball transportation

The balls travel back to the dispenser via the transportation pipe, which uses vacuum to funnel the balls through the system until they reach the final receiver, which then dispatches the balls into the dispenser ready for use again.



Continuous Ball supply

By automating the ball washing and transportation process the facility has a continuous ball supply, working in conjunction with our robot BallPicker collector.



Financials

In most cases there is a cost saving between 20% - 60% subject to ball volumes and cost of current operation.



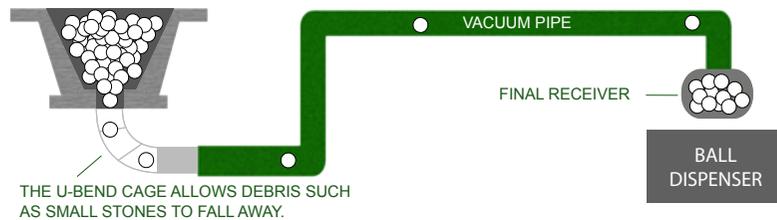
Automated wash & transport

AMS's automated ball washing and return system is responsible for the washing of the balls collected and the transportation back your ball dispenser.



Step 1: The system works in conjunction with the robot BallPicker . Once the BallPicker is full it returns to its base and drops the collected balls into the ball pit.

This process is fully automatic, from the time the balls are collected to being transported back to the ball dispenser. No human interaction is involved during this process.



Step 2: The stainless steel ball pit (ball drop zone) allows the balls to be funnelled towards the centre where at the base of the drop zone container is a slider that moves back and forth. With each back and forth motion the balls drop into a u-bend shaped cage, which allows any debris such as small stones to fall away.



Ball Pit - BallPicker depositing the balls into the ball pit



Ball Pit - Slider moving back and fourth to manoeuvre the balls into the U-bend cage

Step 3: The balls then roll into a connected transport pipe, which is under negative pressure. Water is introduced at this point and the balls are drawn back to the ball dispenser located in the ball room via the wash unit and deposited back into the dispenser clean.



Final receiver dropping balls into the dispenser



Brush Unit



Transport Pipe



Air Compressor



Control Panel

System installation /

Perimeter Wire

A green perimeter wire is installed around the boundary of the driving range outfield. The wire is buried in a discreet channel that is naturally filled in within two or three days without leaving any trace.

Ball Pit

A rectangular ditch is dug out to house the stainless-steel ball pit frame. The transport pipe, along with the necessary electrical wiring and air control pipework is installed in an underground conduit. A 10m x 4m high wear area is dug out, stoned up to give a solid sub base and then topped off with green carpeting to firm up the heavy duty track areas.



Perimeter wire install



Ball Pit - Retrieval ditch with stainless steel pit



Ball Pit - Stainless steel hopper ready for connecting to green transport pipe.



Ball Pit - Half diamond shaped pit cover laid over ball pit frame

Green Transport Pipe

The green transport piping is run from the ball pit to the ball room. From the ball pit it connects through a brush unit and then onto the final receiver. The green piping is often inserted into a drainage channel to run to the ball room or is buried out of sight.

Ball Room

Depending on the facility the ball room is where the system control panel and air compressor is usually fitted, this allows for easy access for the driving range staff.



Ball Room - Control panel and air compressor



Ball Room - Final receiver connected over the ball dispenser



Ball Room - Inside control panel showing inner connections



Green Transport Pipe - running from the ball pit to the ball room via the ball brush unit



Green Transport Pipe is inserted into drainage channels as it is run to the ball room.

Project management /

To ensure the highest performance and reliability of our driving range maintenance system, we work according to our project model, which runs through our entire working process from site appraisal, site survey, design, production to the completed installation.

Stage 1 - No Obligation Site Appraisal

A meeting is arranged with one of our AMS sales team who calculates a bespoke service plan based on the ball output of the facility or a purchase price for those looking to buy.

The benefits of having your outfield maintenance as an affordable monthly payment, means you get all the benefits of robot technology now while spreading the cost over a fixed period.

Stage 2 - Site Survey

Once the range ball service plan or purchase price is agreed, an AMS specialist technician will examine the area where the autonomous robots will operate, the positioning of the charging station, ball drop zone, obstacles to be avoided, slopes to climb, etc.

The specialist then confirms how many robots would best suit the circumstances and submits a site plan and installation requirements.

Stage 3 - Installation

A boundary wire is installed which surrounds the outfield and creates a magnetic field that guides the robots. The wire is buried in a discreet channel that is naturally filled in within two or three days without leaving any trace. The ball drop zone which includes the ball return system is installed, along with the required charging stations for each robot.

Stage 4 - You Take Control

The AMS technician guides you through the learning phase and hands over control to you.







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