



**RANGE
AUTOMATION
SYSTEMS**

Product Catalog



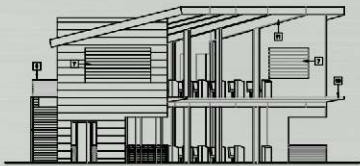
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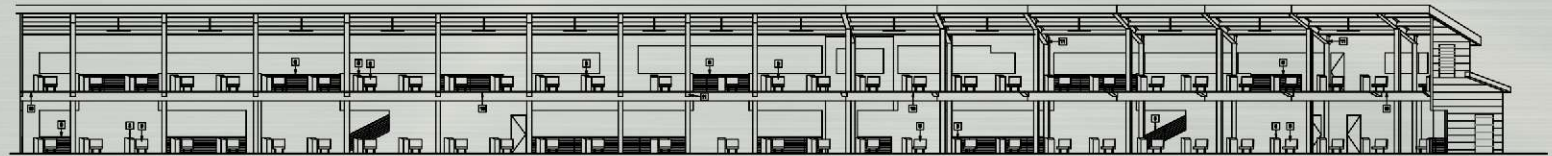


Range Automation Systems (RAS) is a manufacturer and installer, featuring automated tee-up systems for the golf driving range industry. When it comes to automating driving ranges, our goal is simple; to provide a turn key system that is designed to provide maximum revenue potential and customer satisfaction. RAS is at the forefront of auto-tee equipment for the driving range industry, offering the most advanced systems on the market. Due to our many years of working in the industry we can help with all aspects of planning and design for both new and existing facilities. Prior to a sales contract we will provide sample drawings outlining dimensions and specific requirements. We provide standard details to the architect to include in the design so our equipment can easily be installed. These include hitting station layouts, dimensions for ball room (ball wash & storage), overall tee deck dimensions, ceiling heights, roof lines, safety netting requirements and overhangs, etc.

We provide complete CAD construction drawings that are based on the final design. These drawings are for the installation of our equipment and cover all the necessary materials and specifications. We attend construction meetings and provide site inspections to answer any questions about the integration of our products. We work closely with the architect and suggest materials and cost savings methods based on our extensive experience in the driving range industry.



WEST ELEVATION



SOUTH ELEVATION



Auto Tee Systems

Securing your position as the best driving range in the area requires a partner who understands your unique market. A partner who is committed to enhancing the driving range experience and assuring that revenue is at a maximum. Range Automation Systems (RAS) is that partner specializing in auto tee and ball delivery systems for the driving range industry. Our equipment offers unparalleled dependability, ease of use, increased customer satisfaction and maximum revenue return.

To satisfy a driving range owners need for increased revenue while offering a unique practice experience RAS has developed and implemented the worlds most efficient turn-key automated golf ball washing/drying, storage, delivery and tee-up system. Our solutions are extremely flexible, durable and proven to increase gross revenue by a minimum of 33%. The inevitable need to increase profits while attracting more customers demands a system that is proven to handle these objectives. With RAS, you will receive:



Dependable Equipment

Our equipment is built tough to provide years of trouble free operation.



A State-of-the-Art Driving Range

RAS has redefined the driving range experience with our line of Automated Ball Tee-up and Delivery Systems.



A Total Warranty

Every piece of equipment from RAS is covered by a full warranty for product and installation.



A World of Experience

With over 17 years of experience, RAS has installed more automated driving ranges than any other company.



Satisfied Customers

The Auto Tee will help to improve a golfers swing, build confidence and develop a better rhythm.



Increased Revenue

Golfers will hit more balls in less time, increasing revenue per customer, per visit.

Maximizing a driving range's profits is the core to a successful business model. RAS offers a flexible turn key system that is proven to increase revenue while enhancing the customer's practice session. With many years of driving range experience you can rest assured that you are purchasing the most advanced and reliable equipment available in the industry today. In choosing RAS you will partner with the industry leader whose top quality products, excellent customer service and continuing research and development ensure your ability to face the challenges of increasing your customer base and driving range profits.

The key to large sales figures is to increase the customer's hit rate and purchase amount. Often, a golfer will take minutes to tee the ball and realign their stance. With our systems the hit rate is greatly increased by automatically teeing up a golf ball every 4 seconds. This eliminates the wasted time moving around, as well as creating a unique practice session for the customer. There is also the benefit that you may offer your regular customers a pre-paid membership card in denominations as high as \$100 or more. Our membership card program will increase the average sale amount since the customer is able to buy larger amounts of balls to use over many visits. This float factor can be very high and provides better cash control for the operation.

Our systems offer a truly unique hitting experience. Since the golf ball is automatically teed-up, the customer can maintain their stance, build better muscle control, develop a rhythm, build confidence and improve their swing all while enjoying the experience. The system also benefits people with back problems, the elderly and children. No more bending over to tee-up a golf ball.

Our systems also provide better management of the facility with the use of the Range Management Software (RMS). The RMS controls every aspect of the system and the status is conveniently displayed, in real time, on a LCD monitor. This includes station status, member profiles, demographics, sales reports and on screen advertising functions.

Finally, your driving range is our calling card, the best evidence of our capabilities for future clients and projects. You can be assured that we will apply the whole of our technical and design expertise in creating your ideal driving range facility.

**Customers Hit 30-40% More Balls in Less Time,
increasing revenue per customer, per visit!**





Automated Tee-Up System

The North Star 4 (NS4) Auto-Tee achieves new levels of driving range control and flexibility in an exceptionally designed, versatile and user friendly system. Customers are welcomed by an easy to use kiosk that houses a bright color touch screen. A conveniently located tray holds keys, drinks and a place to rest clubs. Customers activate the station by entering a pin code or membership card purchased from the front desk or pro shop. Membership cards promote larger purchases, customer loyalty and are a unique marketing tool. The cards are also reusable and encoded from the front desk management system that is tailored to the range owners preferences. Once play begins the easy to read screen displays the members name, remaining numbers of balls, yardage to pins and advertising screens. Tee heights up to 63mm are controlled by large buttons located next to the screen.

The NS4 is a direct result of 17 years of continued research and development and is the smart choice to maximize profits as well as the customers practice experience. Golfers will consistently hit 30-40% more balls in less time, increasing revenue per customer, per visit!

Range Management System

Payment Options



Thermal Coupon Receipt

Membership Card



Software Features

- Membership management
- regular members, daily users, new registration
- Various analysis and reports
- ball usage, time spent, # of visits, etc
- Analysis on credit card usage
- Automatic time setting for ball collection
- Reservation functions
- Price per ball, time, free play
- Independent control of each tee box
- Automatic system back-up



Special Features



Easy to Use Pin Payment System



Color Screen Advertising features



Custom yardage mapping



Adjust the tee from 0-63mm

● Kiosk

The NS4 uses a compact kiosk to control the individual bays. Molded from UV, Fire and impact resistant materials to ensure longevity in the elements. No rust or water issues, these durable units are completely enclosed and can handle extreme heat or cold.

● Touch Screen

The color touch screen within a impact resistant protective enclosure allows the customer to enter a pin code to start the session. Once the session starts the screen will display advertising and data.

● Tee Height

Adjusting the tee height is simple, find a height up to 63mm and the next ball will remain at that height.

● Card Reader

Our enclosed RF card reader has no moving parts. It requires no maintenance and is completely safe from the elements.

● Tray

The durable club holder & drink tray is ideal for cell phones and keys.

● Ball Delivery

A dispenser box is located in the rear of the tee line and supplies two bays with golf balls. Each dispenser will store 1000 golf balls and is filled from the horizontal conveyor.

● Auto Tee

The Auto Tee will tee a ball every 4 seconds and is adjustable up to 2.5" above the mat.

North Star 4



Range Management Software

The Range Management Software (RMS) was developed to provide range owners complete control and flexibility in operating their facility.

Now a range owner has the ability to better service their customers with many useful features to enhance the driving range experience. The following are just a few of the many tools that are available:

- Sell Memberships
- RFID (Radio Frequency Identification) Cards
- Set Price per Ball (Manual or Automatic)
- Issue Coupons
- Print Sales Reports
- Start/Shutdown Stations (Manual or Automatic)
- Free Play Mode
- Time Rental Mode
- Attendant Call Button
- Real Time Advertising Control

All this information is displayed in real time within a user friendly graphical interface. This interface is customized to meet the range owners specifications.

All system variables are monitored over the RAS Global Network.



Membership/Card Database

Member Contact Details
Member Usage Statistics
Issue/Deactivate Membership Card
Set Price per Ball



Unique Membership Card (RFID)

Issue Coupons

Select and print coupon denominations to non-members.



Thermal Coupon Receipt

Print Usage/Sales Reports

Total Balls Hit
Money Collected
Member Usage
Coupons Sold

Range Control

Start and stop range at pre-determined times.

Card Reader/Writer

The RMS RFID reader/writer enables the range owner to advance their business by providing greater visibility into daily operations. With real-time tracking information, the range owner always knows who their most valuable customers are.

Station Status Icon Legend

RFID Reader/Writer

USB Desktop Interface



Members

Coupons

Reports

Shut Down



Legend

- Shut Down
- Per Ball - Available
- Per Ball - In Use
- Free Play
- Attendant Call
- Error



Manual Station Control

- [Per Ball](#)
- [Free Play](#)
- [Time Rental](#)
- [Shutdown](#)

Station Status: IN USE [Mode](#)

Customer: Frank Smith

Balls Hit: 22

Balls Remaining: 48 [Customer Details](#)

132

Click for Station Details

Real Time Station Statistics

Access Customer Statistics

19 Balls Hit/Remaining
Station # Time Remaining



High Speed Ethernet Communication

The RMS utilizes the latest in ethernet technology to communicate with each individual station.

Frank Smith Details

Total Balls Hit:	2459
Money Spent:	\$250.00
Total Range Visits:	25
Remaining # of Balls:	410
Remaining Value on Card:	\$41.00

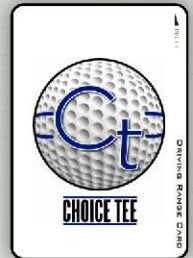


Automated Tee-Up System

The Eagle Star Full Auto Tee-Up System has been designed to offer a less expensive alternative to our Kiosk based NS4 system. Although the systems share all ball delivery components, the Eagle Star System uses a small control pad to control start/stop, tee up and down. The system runs from the front desk computer system and the bays are activated once the customer checks in. The price per ball and membership options can be set based on the owners preferences through the software. Our system works by encoding a reusable membership card with their information, value on card and membership level. Pricing and membership tiers can be setup to allow various levels of membership.

Computer Management System

- Membership management
 - regular members, daily users, new registration
- Various analysis and reports
 - ball usage, time spent, # of visits, etc
- Analysis on credit card usage
- Reservation functions
- Price per ball, time, free play for each station
- Multiple check in with one card
- Automatic system back-up



Membership Card



Special Features



Adjust the tee from 0-63mm



Easy to use controls



LED Display



Control Pad

The Control Pad features durable and easy to use buttons for start/stop, adjusting tee height and displays time left or remaining number of balls.

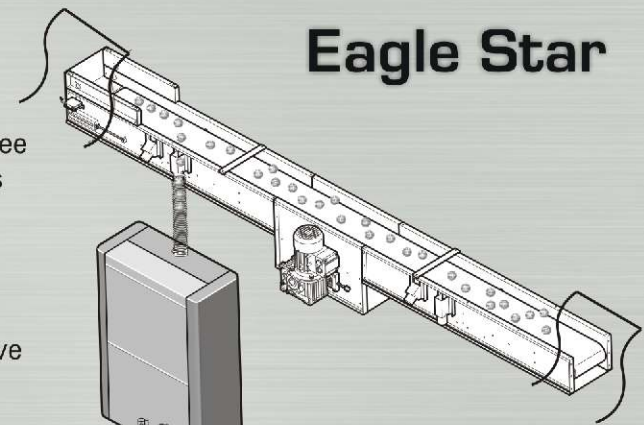
Easy To Use

Simply check in at the front desk and go to the assigned bay. Press the start button and the first ball will be delivered to the tee. Adjust the tee height using the up/down buttons, once a ball is struck another will appear at the same height.

Enhanced experience

Customers will appreciate the auto tee feature as they build better muscle memory and improve their swing. Not only does the customer enjoy using the system, but it makes them a better golfer while they hit more balls in less time !

Eagle Star



Ball Delivery

The dispenser box is located in the rear of the tee line and supplies two bays with golf balls. Each dispenser will store 1000 golf balls and is filled from the horizontal conveyor.

Auto Tee

The Auto Tee will tee a ball every 4 seconds and is adjustable up to 2.5"



Cleaning and Drying

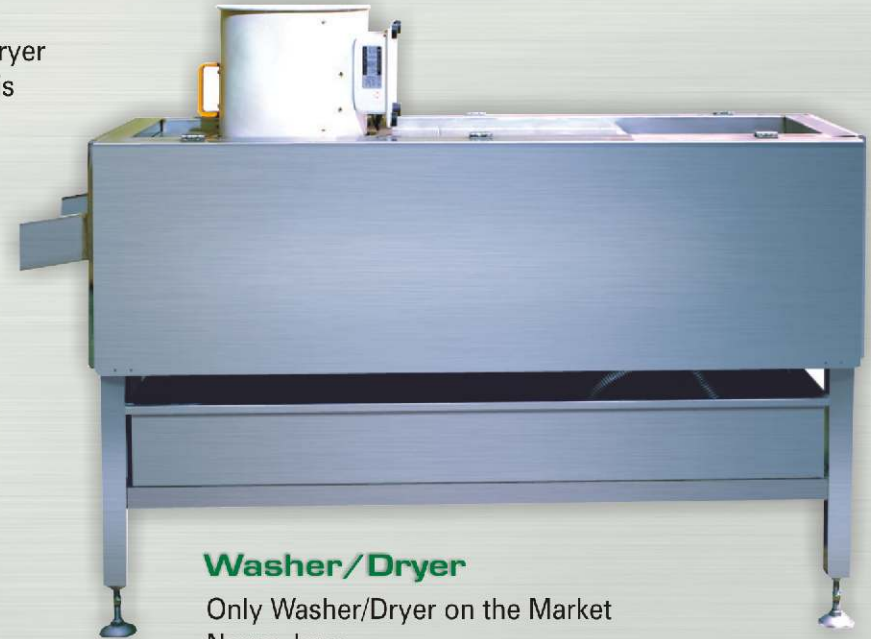
The washing process starts with a soaking in the Pre-Soak tank, this removes any dirt or large particles from the golf balls. From there the golf balls are automatically fed into our proprietary Washer/Dryer. Once through the washer a final rinse and polish is applied. This will remove any remaining dirt, sand or turf on the golf balls before they travel through the high output drying tunnel.

Our drying process is unique to the driving range industry. Located on top of the Washer/Dryer is a high velocity blower that dries the golf balls as they travel through the final brushes. This ensures a steady supply of clean dry golf balls for the storage and supply process.



Pre-Soak Tank

- No External Moving Parts
- Stainless Steel and Aluminum Design
- 50,000 Balls Per Hour
- Separates Cut Balls
- Recirculates Water
- 110 Volt



Washer/Dryer

- Only Washer/Dryer on the Market
- Never Jams
- 12 Cleaning Brushes
- Stainless Steel Design
- 35,000 Balls Per Hour
- Large Debris Collection Screen
- Recirculates Water



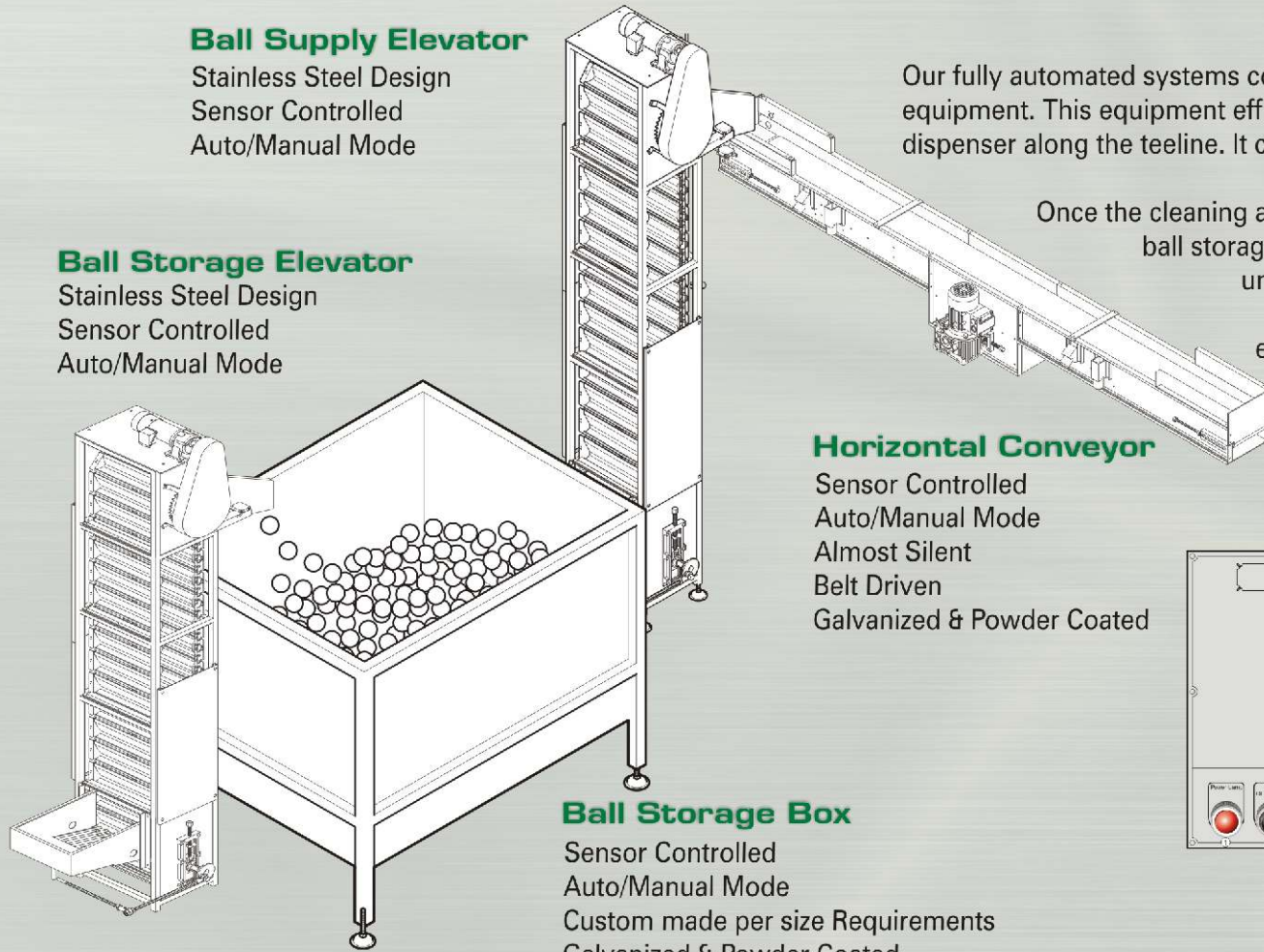
Storage and Supply

Ball Supply Elevator

Stainless Steel Design
Sensor Controlled
Auto/Manual Mode

Ball Storage Elevator

Stainless Steel Design
Sensor Controlled
Auto/Manual Mode



Our fully automated systems come complete with custom designed storage and supply equipment. This equipment efficiently stores and automatically delivers golf balls to each dispenser along the teeline. It can also deliver golf balls to vending machines as well.

Once the cleaning and drying process is complete the golf balls travel up the ball storage elevator and into the ball storage box. Here they remain until they are required on the tee line. Once the automated system activates they are transferred into the ball supply elevator and then deposited into the Horizontal Conveyor.

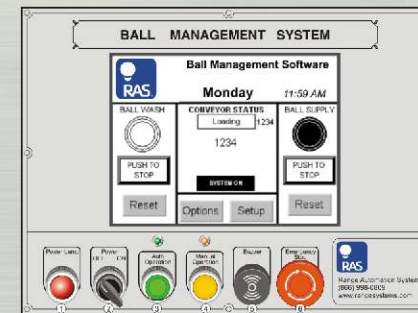
From here they travel down a belt to each dispenser depending on demand. The ball supply system stops once the dispensers are full. The entire process is automatically repeated when required.

Horizontal Conveyor

Sensor Controlled
Auto/Manual Mode
Almost Silent
Belt Driven
Galvanized & Powder Coated

Ball Storage Box

Sensor Controlled
Auto/Manual Mode
Custom made per size Requirements
Galvanized & Powder Coated



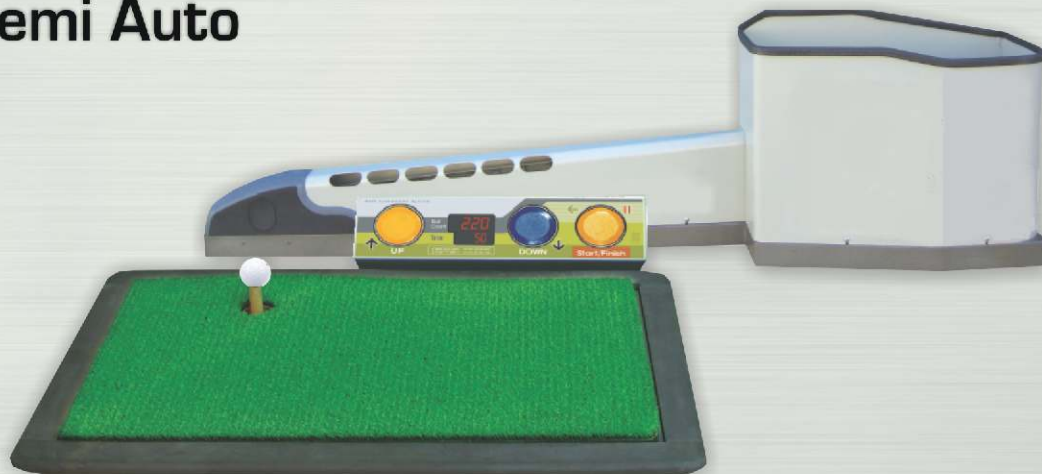
System Panel

Touchscreen Controls
Monitor System Status
Set System Parameters
Monitor Sensor Status
Auto/Manual Operation
Remote Monitoring



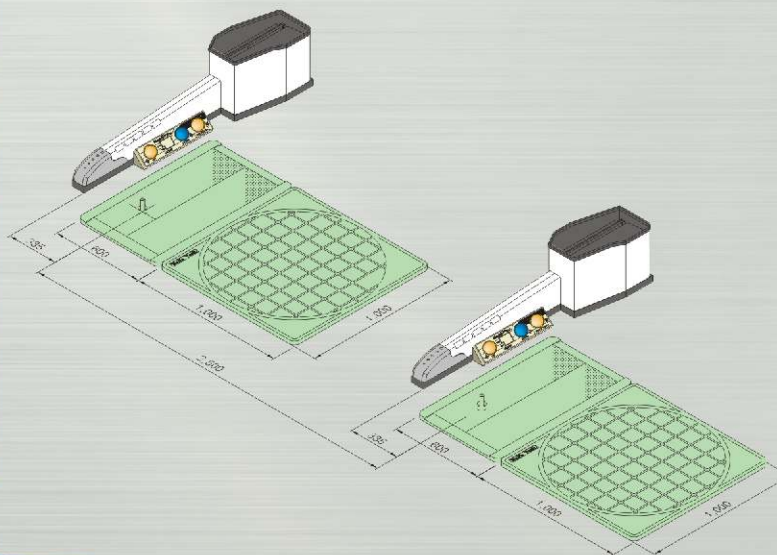


Semi Auto



Semi-Auto Tee System

Our Semi-Automatic systems offer all the advantages of the auto-tee in a very affordable package. These systems are filled manually by the customer either from a ball vending machine or through counter sales. Once the hopper is filled the machine will tee the balls until empty. Fully adjustable from 0-63mm and tee cycle times of 3.6 seconds. The hopper will hold up to 200 balls and the systems can be operated from the front desk control system.



Adjust the tee height from 0-63mm



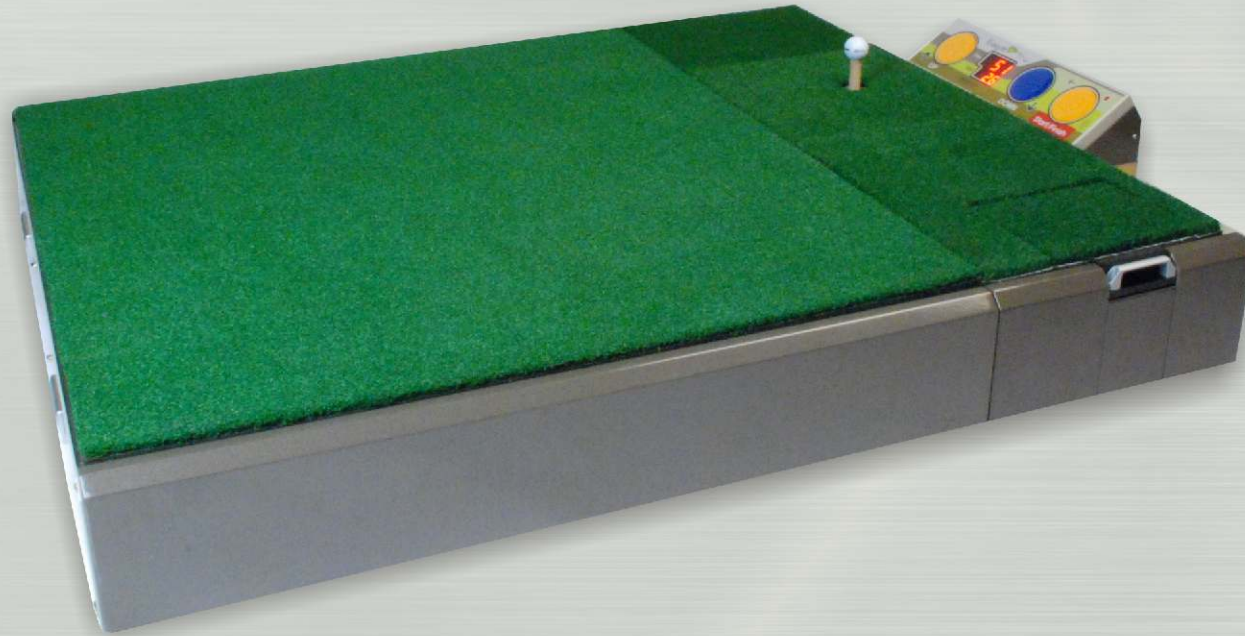
Easy to use controls



LED Display

Platform Auto Tee System

Our Semi-Automatic platform systems offer all the advantages of the auto-tee but in a portable package. These systems are filled manually by the customer either from a ball vending machine or through counter sales. Once the hopper is filled the machine will tee the balls until empty. Fully adjustable from 0-63mm and tee cycle times of 3.6 seconds. Machines require 110v outlet and can be placed on concrete or grass areas. The unit can also be installed sub grade to be flush with the floor.



Special Features



Easy to use controls



Adjust the tee height from 0-63mm



LED Display

Specification

Power	AC 110v / 50-60Hz
Power consumption	Max 30w
Cycle time	Max 3.6 Sec
Ball tank capacity	Over 100 balls





Stryker[®] AUTO TEE[™] Indoor System

The Stryker Indoor Auto Tee system has been introduced for use in indoor golf centers as well as golf simulators. Our simple and reliable system will increase the number of balls hit because it eliminates the need to manually tee the ball. Since most indoor ranges are short with depths of only 20'-50' our system uses a ball retrieval track to collect and supply the tee machine with balls. This system is fully automated and can be operated with the front desk management software for complete control. Optional ball flight monitoring equipment is also available to display yardage and shot data.

Computer Management System

- Membership management
 - regular members, daily users, new registration
- Various analysis and reports
 - ball usage, time spent, # of visits, etc
- Analysis on credit card usage
- Reservation functions
- Price per ball, time and free play per station
- Automatic system back-up



Indoor Auto Tee

Indoor Full-Auto Tee-Up System

When a ball is hit from the tee, the ball sensor activates the rail motor to send another ball to the tee. After a ball is hit it is automatically deposited back into the ball collection rail. The perfect solution for indoor golf simulators or training bays where muscle memory can be learned easily without breaking the stance to tee the ball. Automation eliminates the time to tee the ball, this allows a more productive practice session.



Ball collection rail



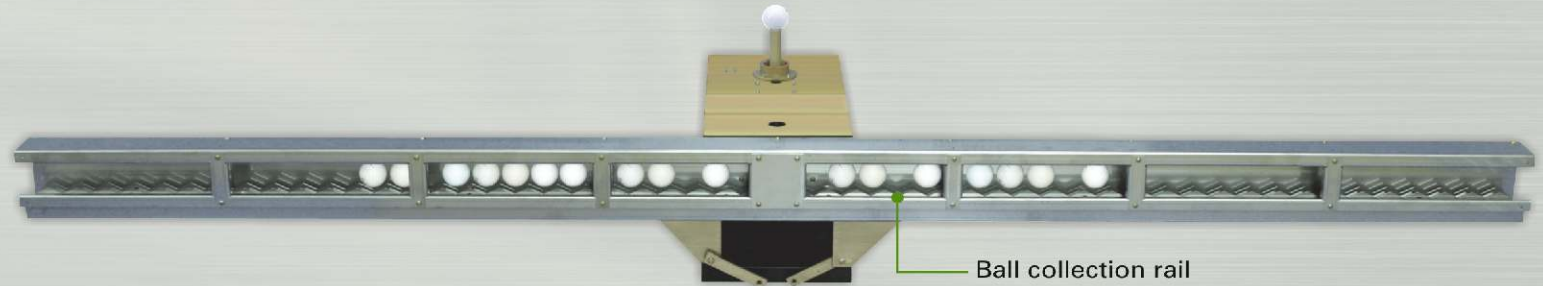
Adjust the tee height from 0-63mm



Easy to use controls



LED Display



Ball collection rail

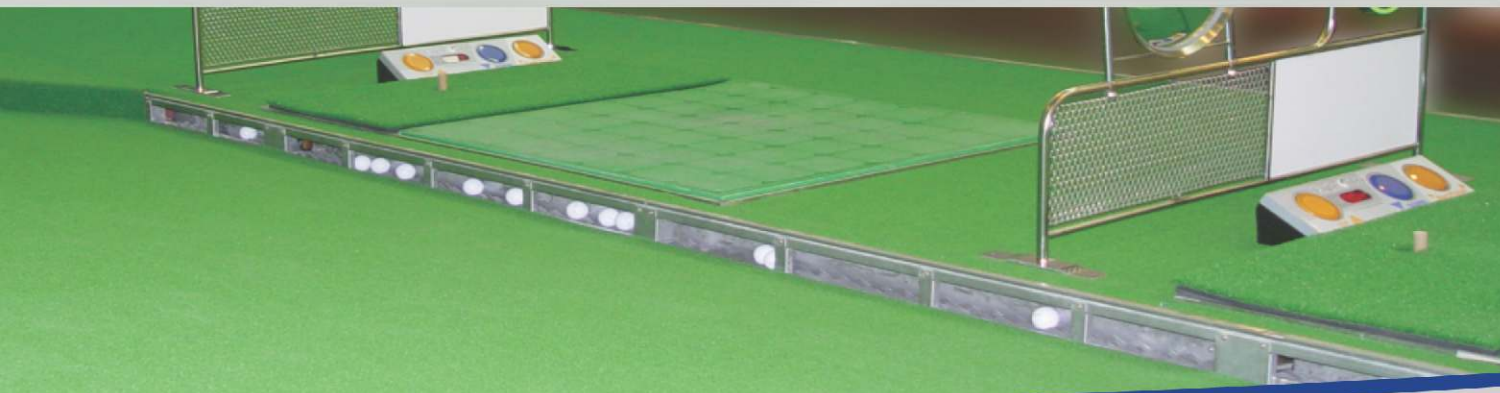
Special Features

- Low noise and low investment cost devoid of conveyors.
- Can be operated in conjunction with Front desk Management System.
- Requires very little electricity (40w per tee)
- High durability utilizing full-auto tee-up system.
- Can accommodate single or multiple tee box in a limited space.
- Perfect solution for indoor golf simulators.



Control Pad

The Control Pad features durable and easy to use buttons for start/stop, adjusting tee height and displays time left or remaining number of balls.



Auto-Tee

RAS Auto Tee Machine

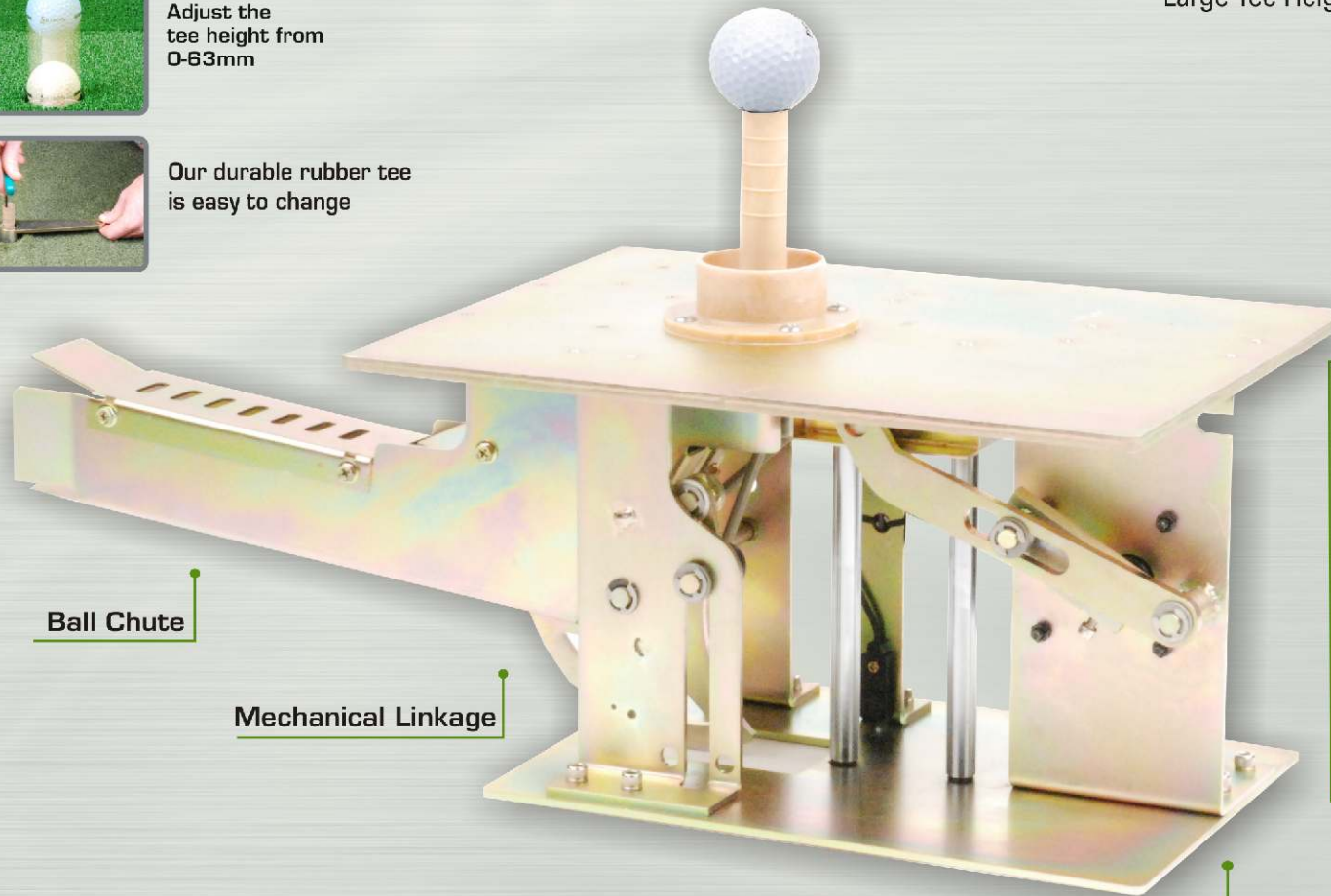
At the heart of each of our systems is the auto tee machine. Its responsible for teeing the balls effectively and quietly every 4 seconds. This 4th generation machine offers a number of advancements over previous versions. The system uses mechanical linkage that requires no adjusting or replacing. The result is a ultra quiet and reliable tee machine that requires very little maintenance. With over 17 years of service our Auto-Tee is a proven workhorse teeing up millions of golf balls everyday, every four seconds.



Adjust the tee height from 0-63mm



Our durable rubber tee is easy to change



Ball Chute

Mechanical Linkage

7" Low Profile Design

Anodized Components

Special Features

- Low Profile
- Large Tee Height Adjustment (0-2.5 inches)
- Galvanized Components
- Fully Anodized
- No Belts
- Proven Design
- Durable
- Minimal Maintenance
- Rubber Grommet Protector
- Durable Rubber Tee

Ball Vending Machine

Ball Vending Machine

Featuring dual dispensing mechanisms, the BX-10 ball vending machine provides a fast fill rate of up to 500 balls per minute. You can count on it dispensing the exact number of balls every time thanks to its advanced counter system. The BX-10 comes with our standard token payment system or can be upgraded to include our optional computer management system. The token system is a simple and effective way to sell buckets. Typically set for a value of 50 balls per token, our machine can be easily programmed to vend any amount desired. The dispenser is filled manually or supplied by our ball delivery system and has a capacity of 10,000 golf balls. Purchased with the Optional Computer Management System the BX-10 is supplied with a touch screen interface, RF card reader and front desk PC with Management Software. The software package includes membership options as well as reusable RF cards. Offering your regular customers the option to purchase a pre-paid membership of \$100 or higher will increase daily sales and offer better cash control.

Special Features

Numerous Bucket Sizes

Easy to Program

Optional Computer System

Very Quiet

10,000 Ball Capacity

Easy and Safe to load

Sensors Count Each Ball

Rust Proof, 5 Year Warranty

110v / 240v

Optional Management System

- Membership management
 - regular members, daily users, new registration
- Various analysis and reports
 - ball usage, time spent, # of visits, etc
- Analysis on credit card usage
- Automatic system back-up



Membership Card / Thermal Coupon Receipt





■ ENGLISH VERSION

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■ HEAD OFFICE

 Range Automation Systems L.L.C.
2425 W. 12th Street, Suite 1
Tempe, Arizona 85281
USA

 Office: (866) 480-998-0809
Fax: (480) 998-6997

 sales@rangesystems.com
www.rangesystems.com

