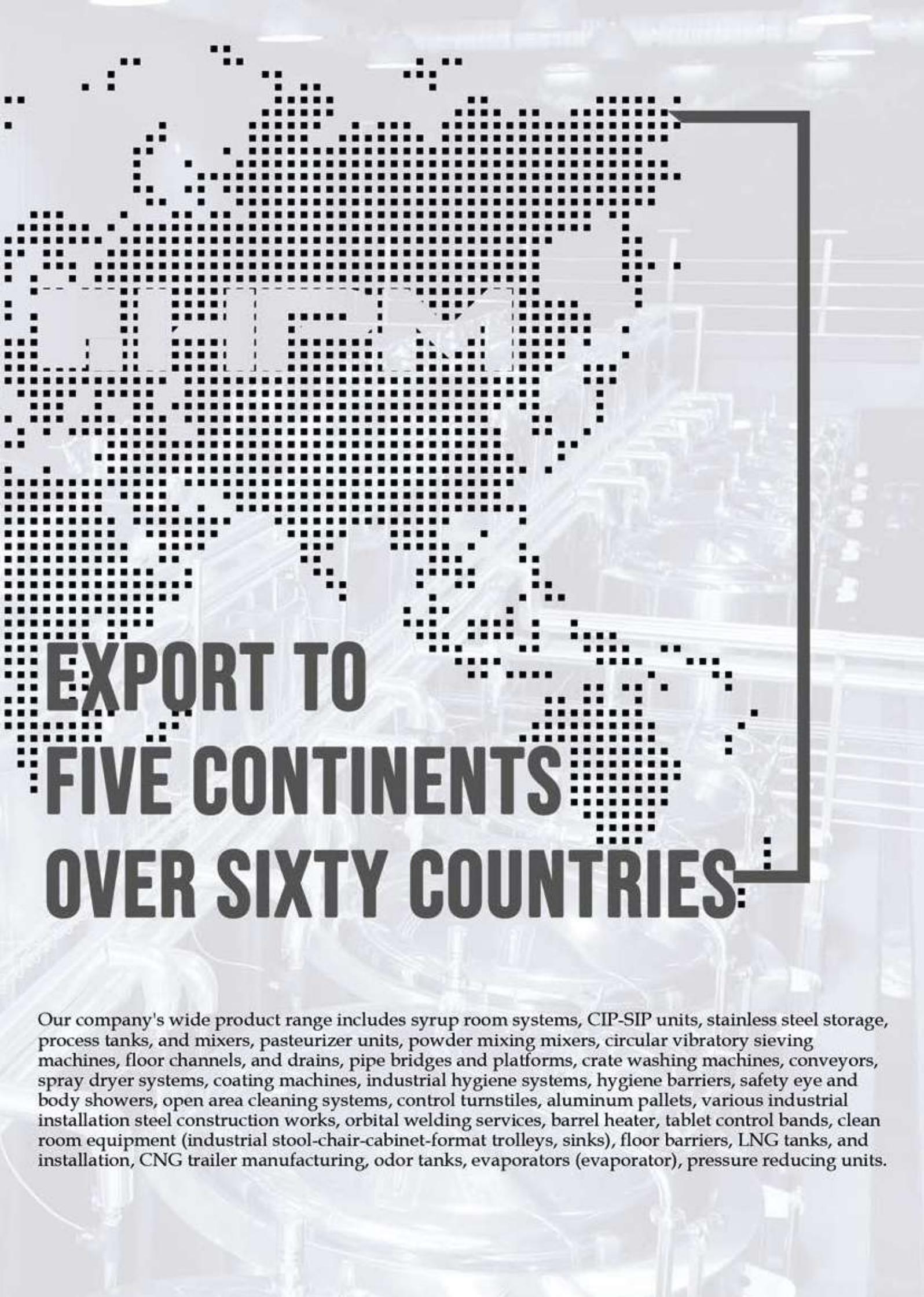




WORLDWIDE EXPERIENCE

HPM was established in 1997 and has grown in a short time to become one of the few industrial companies in Türkiye. Our company, which operates in our modern facility in Istanbul Kurtköy with our expert staff and high-quality machinery, has become a company that has made a name for itself with numerous successful projects in Türkiye and abroad. HPM, one of the most dynamic and innovative companies in its sector, is known for reliability, customer-oriented approach, and solutions in the areas where it operates and serves. We continue our activities with the desire to present the most compatible and appropriate solutions to customer demands and expectations by adopting a system of production that respects humans and nature.



EXPORT TO FIVE CONTINENTS OVER SIXTY COUNTRIES:

Our company's wide product range includes syrup room systems, CIP-SIP units, stainless steel storage, process tanks, and mixers, pasteurizer units, powder mixing mixers, circular vibratory sieving machines, floor channels, and drains, pipe bridges and platforms, crate washing machines, conveyors, spray dryer systems, coating machines, industrial hygiene systems, hygiene barriers, safety eye and body showers, open area cleaning systems, control turnstiles, aluminum pallets, various industrial installation steel construction works, orbital welding services, barrel heater, tablet control bands, clean room equipment (industrial stool-chair-cabinet-format trolleys, sinks), floor barriers, LNG tanks, and installation, CNG trailer manufacturing, odor tanks, evaporators (evaporator), pressure reducing units.

| | |
|--|-----------|
| 1 - STAINLESS STEEL TANKS | 6 |
| 1.1 - Storage Tanks | 7 |
| 1.2 - Mobile Tanks | 8 |
| 1.3 - Reactors | 9 |
| 1.4 - Silos and Bunkers | 10 |
| 1.5 - Process Tanks | 11 |
| | |
| 2 - LIQUID & POWDER MIXING | 12 |
| 2.1 - Solution Preparation Mixer - (Liquid) | 13 |
| 2.2 - Product Preparation Mixer - (Liquid) | 14 |
| 2.3 - Container Mixing (IBC Blender) (Powder) | 15 |
| 2.4 - Laboratory Type IBC Blender (Powder) | 16 |
| 2.5 - Powder Mixer (Powder) | 17 |
| | |
| 3 - CIP SYSTEMS | 18 |
| 3.1 - Manual Modular CIP System | 19 |
| 3.2 - Automatic Modular CIP System | 20 |
| | |
| 4 - FOOD PROCESS EQUIPMENT | 22 |
| 4.1 - Spray Dryer | 23 |
| 4.2 - Pasteurizer | 24 |
| 4.3 - Crate Washing Machine | 25 |
| 4.4 - Autoclave | 26 |
| 4.5 - Coating Machine | 27-28 |
| 4.6 - Sieve Systems | 29 |
| 4.7 - Aseptic Double Tube Heat Exchanger | 30 |
| 4.8 - Process Piping, Distribution Lines, Assembly Wroks & Orbital Welding | 31 |
| 4.9 - Floor Channels, Grids, Floor Drains | 32 |
| 4.10 - Hygiene Equipment | 33 - 37 |
| | |
| 5 - CONVEYOR AND ELEVATOR | 38 |
| 5.1 - Screw Conveyor | 39 |
| 5.2 - Vibrating Conveyor | 40 |
| 5.3 - Belt Conveyor | 41 |
| 5.4 - Chain Conveyor | 42 |
| 5.5 - Roller Conveyor | 43 |
| 5.6 - Bucket Elevator | 44 |



6 - 11

HPM manufactures stainless steel tanks in various volumes and qualities in accordance with international hygiene standards, in line with customer demands and requests that will be needed by the food, pharmaceutical, chemistry and cosmetics sectors.



12-17

HPM HYGIENE & PROCESS manufactures liquid and powder mixers made of stainless steel in various volumes and qualities, in accordance with international hygiene standards and in line with customer demands, which is needed in the food, pharmaceutical, chemical and cosmetic industries.



18-20

Tanks and lines used in production need to be cleaned at regular intervals, to ensure that machines are ready for new production.



22-37

HPM HYGIENE & PROCESS offers turnkey projects required for food processes with an accurate engineering approach and expert staff.



38-44

HPM manufactures conveyors and elevators for hygienic processes and requirements.



STAINLESS STEEL TANKS

Since 1997

- Storage Tanks
- Mobile Tanks
- Reactors
- Silos and Bunkers
- Process Tanks

www.hpm.com.tr

STAINLESS STEEL TANKS

HPM manufactures stainless steel tanks in various volumes and qualities in accordance with international hygiene standards, in line with customer demands and requests that will be needed by the food, pharmaceutical, chemistry and cosmetics sectors.

STAINLESS STEEL TANKS

INNOVATION | DESIGN | MANUFACTURE

STORAGE TANKS



STORAGE TANKS ARE MANUFACTURED AS CYLINDRICAL, CONICAL, PRISMATIC OR COSTUM DESIGN.

In our facility, all processes from the project planning stage to the manufacturing process and delivery of work are carried out meticulously with our high-quality machinery and expert staff.

PRODUCTION PROCESS

TIG argon welding method, resistance welding method MIG argon welding method is used and in welded joints. Design is made by examining other components of the process, piping, platform, site and installation conditions.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Vertical or horizontal construction
- Cylindrical, conical, prismatic or costum design
- Pressurized or atmospheric
- Heating-cooling, insulated

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

STAINLESS STEEL TANKS

INNOVATION | DESIGN | MANUFACTURE

MOBILE TANKS



MOBILE TANKS ARE MANUFACTURED AS CYLINDRICAL, CONICAL, PRISMATIC AND/OR COMBINED CONSTRUCTIONS.

HPM hygiene process designs and manufactures mobile tanks in accordance with the conditions of the production area and the requirements of the product.

PRODUCTION PROCESS

It can be transported and fixed at the point of use.

It can be designed and delivered with complementary equipment such as tank and control systems, mixer, and pump on the skid.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Pressurized or atmospheric
- Heating-cooling, insulated

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

STAINLESS STEEL TANKS

INNOVATION | DESIGN | MANUFACTURE

REACTORS



REACTORS ARE MANUFACTURED TO OPERATE UNDER PRESSURE, UNPRESSURIZED, VACUUM, INCLUDING HEATING-COOLING, AND EXPLOSION-PROOF (EX-PROOF)

HPM hygiene process designs and manufactures the required reactors in accordance with the product needs.

PRODUCTION PROCESS

Reactor design standards are made in accordance with EN ISO 13445, EN ISO 13458, ASME, AD 2000 standards. Design and type approvals are obtained and delivered with CE certificate. The explosion protection (exproof) feature is documented. Internal surfaces are delivered with ra 0.4 micron mechanical polishing and surface measurement reports.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Pressurized or atmospheric
- Heating-cooling, insulated

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

STAINLESS STEEL TANKS

INNOVATION | DESIGN | MANUFACTURE

SILOS AND BUNKERS



SILOS AND BUNKERS ARE TAILOR-MADE CONSTRUCTIONS AND ARE MANUFACTURED ACCORDING TO THE CUSTOMER'S NEEDS.

It is used as transfer equipment, storage and process hoppers in manufacturing and/or storage processes.

PRODUCTION PROCESS

In our facility, all processes from the project design stage to the manufacturing process and delivery of work are carried out meticulously with our high-quality machinery and expert staff.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Heating-cooling, insulated

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

STAINLESS STEEL TANKS

INNOVATION | DESIGN | MANUFACTURE

PROCESS TANKS



PROCESS TANKS REQUIRED IN PRODUCTION PROCESSES ARE MANUFACTURED IN DESIRED VOLUMES.

Process tanks are designed in desired dimensions and features, manufactured with TIG argon welding method.

PRODUCTION PROCESS

In order to determine the specifications of the process tanks, user URS, customer site inspections, features of the product, vacuum, pressure or atmospheric condition, working relationship with auxiliary systems, assembly conditions, control, and commissioning conditions are considered.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Pressurized or atmospheric
- Heating-cooling, insulated

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

LIQUID & POWDER MIXING

Since 1997

- Solution Preparation Mixer - (Liquid)
- Product Preparation Mixer - (Liquid)
- Container Mixing (IBC Blender) - (Powder)
- Laboratory Type IBC Blender - (Powder)
- Powder Mixer - (Powder)

www.hpm.com.tr

LIQUID AND POWDER MIXERS

HPM HYGIENE & PROCESS manufactures liquid and powder mixers made of stainless steel in various volumes and qualities, in accordance with international hygiene standards and in line with customer demands, which is needed in the food, pharmaceutical, chemical and cosmetic industries.

LIQUID MIXERS

INNOVATION | DESIGN | MANUFACTURE

SOLUTION PREPARATION MIXER



SOLUTION PREPARATION (LIQUID+LIQUID MIXTURES) MIXERS ARE DESIGNED IN A VERTICAL CYLINDRICAL STRUCTURE.

Solution preparation systems and manufacturing vessels are the starting point of the production process. We produce solution preparation mixers to provide efficient operation and desired solution properties.

PRODUCTION PROCESS

Solution preparation mixers are designed in a vertical cylindrical structure and the components that affect and control the production values are placed on the mixer and orientation is provided.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Pressurized or atmospheric
- Heating-cooling, insulated
- Mobile type solution preparation
- Stationary type solution preparation
- Solution preparation unit assembled on a skid
- Control and automation equipment

PROJECT SCOPE

- Comply with GMP, hygiene, CFR part 21
- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

LIQUID MIXERS

INNOVATION | DESIGN | MANUFACTURE

PRODUCT PREPARATION MIXER



PRODUCT PREPARATION (LIQUID+SOLID MIXTURES) MIXERS ARE DESIGNED IN A VERTICAL CYLINDRICAL STRUCTURE.

Product preparation mixers provide homogeneous solution in which "liquid + solid", "liquid + liquid" mixtures are prepared.

PRODUCTION PROCESS

Product preparation mixers are designed in a vertical cylindrical structure and the components that affect and control the production values are placed on the mixer orientation is provided.

PRODUCTION OPTIONS

- Desired volume and dimensions
- Cylindrical, conical, prismatic or custom design
- Pressurized or atmospheric
- Heating-cooling, insulated
- Mobile type solution preparation
- Stationary type solution preparation
- Product preparation unit mounted on skid
- Control and automation equipment

PROJECT SCOPE

- Comply with GMP, hygiene, CFR part 21
- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

POWDER MIXING

INNOVATION | DESIGN | MANUFACTURE

CONTAINER MIXING MIXER (IBC BLENDER)



HPM IS A MULTI-CAPACITY MIXING
CONTAINER UP TO 2000 L CONTAINERS.

Container mixers are solid+solid mixing process equipment that is frequently used in the pharmaceutical, cosmetic, and food industries

PRODUCTION PROCESS

With the control system, the number of rotations and other data can be recorded and many different processes can be prescribed.

Safety is ensured as the machine can operate when the area reserved for the mixer is secured with door control or laser bands.

PRODUCTION OPTIONS

- Mixers are designed according to capacity and container inlets.
- The control panel is designed to manage the system from outside the mixer room.
- According to the way of loading the containers blender
- Manual locking of the container
- Hydraulic locking of the container from the side surface
- Pneumatically loading of container in the vertical direction
- Moving axis rotation
- Fixed axis rotation
- Laser bands, door control systems

PROJECT SCOPE

- Control system
- Prescriptions
- Software
- GMP compatibility,
- Complies with design standard
- CFR21-part11.
- Delivered with IQ, OQ, DQ qualifications.

POWDER MIXING

INNOVATION | DESIGN | MANUFACTURE

LABORATORY TYPE IBC BLENDER



LAB-TYPE IBC BLENDER IS A STANDARD PRODUCT OF HPM HYGIENE PROCESS

Laboratory type mixer is used for process control and efficiency analysis in large enterprises that need trial productions, pilot studies, mixing ratios, and process demos.

PRODUCTION PROCESS

With the control system, the number of rotations can be recorded, many different processes can be prescribed and the data can be output.

The machine stops working if the door of the mixer chamber is open.

The product is produced by TIG argon welding method.

PRODUCTION OPTIONS

- Up to 50l replaceable IBCs can be used by the machine
- Manual usage option

PROJECT SCOPE

- Control system
- Prescriptions
- Software
- GMP compatibility,
- IQ, OQ, DQ qualifications.

POWDER MIXING

INNOVATION | DESIGN | MANUFACTURE

POWDER MIXER



MIXING PROCESS IN POWDER MIXING MIXER IS DONE AS SOLID + SOLID, SOLID + LIQUID, LIQUID + LIQUID MIXTURE.

Powder mixers are designed according to the mixing components and process needs. Design calculations, manufacturing, and commissioning are done by HPM.

PRODUCTION PROCESS

TIG argon welding method, resistance welding method, and MIG argon welding method are used in welded joints. Design is made by examining other components of the process, piping, platform, site and installation conditions.

PRODUCTION OPTIONS

- Horizontal type powder mixing mixers,
- Hammer/ax crushers
- Ribbon type horizontal powder mixers
- Double screw type horizontal powder mixers
- Double-con mixers
- "v" type mixers
- Granule mixers
- Container mixers

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Surface roughness
- Test and control procedures
- Comply with GMP, hygiene conditions,
- CE certified, providing occupational safety conditions

CIP SYSTEMS

Since 1997

- Manual Modular CIP System
- Automatic Modular CIP System

www.hpm.com.tr

CIP SYSTEMS

Tanks and lines used in production need to be cleaned at regular intervals. to ensure that machines are ready for new production.

C.I.P SYSTEMS

INNOVATION | DESIGN | MANUFACTURE

MANUAL MODULAR CIP SYSTEM



HPM HYGIENE PROCESS PRODUCES LESS COMPLEX MANUAL CIP SYSTEMS SUITABLE FOR MILK, BEER, LIQUID FILLING, WATER ETC. PRODUCTION FACILITIES.

CIP systems are mostly used in liquid food production facilities and beverage industries such as water, beer, milk, carbonated drinks, etc.

PRODUCTION PROCESS

The line washing process and tank washing process differ from each other.

CIP systems operate on the basis of controlled dosing of cleaning chemicals into solutions by cycling hot and cold cycle conditions.

In our facility, all processes from the designing stage to the manufacturing process and delivery of work are carried out meticulously with our high-quality machinery and expert staff.

PRODUCTION OPTIONS

- CIP systems can be designed according to the requirement as single-tank CIP systems, multi-tank CIP systems, single-outlet CIP systems, multi-output CIP systems
- It can be defined in sub-types such as fully automatic CIP, semi-automatic CIP and manual CIP.

PROJECT SCOPE

- IQ, OQ, DQ documentation
- It is designed according to the FS document
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents

C.I.P SYSTEMS

INNOVATION | DESIGN | MANUFACTURE

AUTOMATIC MODULAR CIP SYSTEM



HPM HYGIENE PROCESS PRODUCES MULTI-OUTPUT FULLY AUTOMATIC CIP SYSTEMS SUITABLE FOR MILK, BEER, LIQUID FILLING, WATER ETC. PRODUCTION FACILITIES.

CIP systems are mostly used in liquid food production facilities and beverage industries such as water, beer, milk, carbonated drinks, etc.

PRODUCTION PROCESS

The line washing process and tank washing process differ from each other.

CIP systems operate on the basis of controlled dosing of cleaning chemicals into solutions by cycling hot and cold cycle conditions.

In our facility, all processes from the designing stage to the manufacturing process and delivery of work are carried out meticulously with our high-quality machinery and expert staff.

PRODUCTION OPTIONS

- CIP systems can be designed according to the requirement as single-tank CIP systems, multi-tank CIP systems, single-outlet CIP systems, multi-output CIP systems
- It can be defined in sub-types such as fully automatic CIP and semi-automatic CIP.

PROJECT SCOPE

- IQ, OQ, DQ documentation
- It is designed according to the FS document
- Design calculations
- Surface roughness
- Test and control procedures
- Welding maps
- Quality documents



FOOD PROCESS EQUIPMENT

Since 1997

- Spray Dryer
- Pasteurizer
- Crate Washing Machine
- Autoclave
- Coating Machine
- Sieve Systems
- Heat Exchanger
- Process Piping & Distribution
- Lines, Orbital Welding and Assembly
- Floor Channels, Grids, Floor Drains,
- Hygiene Equipment

www.hpm.com.tr

FOOD PROCESS

HPM HYGIENE & PROCESS offers turnkey projects required for food processes with an accurate engineering approach and expert staff.

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

SPRAY DRYER



HPM HYGIENE PROCESS MANUFACTURES AND SUCCESSFULLY COMMISSIONS SPRAY DRYER, WHICH IS DESCRIBED AS A HIGH TECHNOLOGY PRODUCT.

A spray dryer is a highly safe system used for processing liquid + solid mixture to obtain powders by adjusting vacuum, pressure, temperature, flow, and velocity parameters.

PRODUCTION PROCESS

HPM also manufactures spray dryers, which are used in the food and pharmaceutical industry to produce a dry powder from a liquid or slurry by drying it quickly with a hot gas. The process is called spray drying.

PRODUCTION OPTIONS

- Manufactured for different capacities and applications.
- Special design can be made according to the process requirement.

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Test and control procedures
- Explosion safety systems,
- Compliant with GMP, hygiene conditions,
- Software and hardware
- CE certified, providing work safety and occupational safety conditions

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

PASTEURIZER



HPM MANUFACTURES PASTEURIZERS SUITABLE FOR ASEPTIC OR HOT FILLING.

Pasteurization units are used for the processing of many products such as fruit juice, milk, beer, wine, carbonated - still beverages, energy drinks, and sauces, in a very efficient manner. The process is done at pasteurization temperature and at a suitable holding time.

PRODUCTION PROCESS

Signal exchanging, pasteurizer software, installation, and commissioning processes between the process equipment in front and exit of the pasteurizer and other system equipment are carried out by HPM expert team.

PRODUCTION OPTIONS

- Desired capacities
- Design for different application
- Aseptic
- Hot filling

PROJECT SCOPE

- IQ, OQ, DQ documentation
- It is designed according to the FS document
- Design calculations
- Test and control procedures
- Compliant with GMP, hygiene conditions,
- CE certified, providing occupational safety conditions

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

CRATE WASHING MACHINE



HPM DESIGNS AND MANUFACTURES TUNNEL-TYPE CRATE WASHING MACHINES ACCORDING TO CAPACITY AND CRATE DIMENSIONS.

Crate washing machine produces high-capacity crate washing machines, which provide water-saving, dosing control of cleaning chemicals, and disinfectant dosing systems.

PRODUCTION PROCESS

Crate carrier chains positioned on the tunnel type machine.

The controlled progression is ensured and by adjusting the sidebars, the crate moves smoothly inside the tunnel.

Mechanical washing, chemical solution, rinsing + disinfecting

After passing through the first and second drying zones the process is terminated.

PRODUCTION OPTIONS

- Tunnel type crate washing machine
- Mold type crate washing machine
- Crate washing machine with dryer and liquid extraction
- Resistance heating system, (option)
- Chemical dosing system, (option)
- Disinfectant dosage (option)

PROJECT SCOPE

- IQ, OQ documentation
- Design calculations
- Test and control procedures
- Compliant with hygiene conditions,
- Software and hardware
- CE certified, providing occupational safety conditions

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

AUTOCLAVE



- COOKING AUTOCLAVE
- PASTEURIZATION AUTOCLAVE
- STERILIZATION AUTOCLAVE
- SANITATION AUTOCLAVE

HPM manufactures sterilization and cooking autoclaves for the pharmaceutical and food industries.

PRODUCTION PROCESS

Autoclaves may differ in the operating system and process depending on the choice of heating and cooling systems. It produces vacuum and pressure balancing systems with software and control systems that monitor process and temperature. Autoclaves in the pharmaceutical industry have sterilization and sanitation software and hardware with one or two doors.

PRODUCTION OPTIONS

- It is designed in accordance with the application capacity and procedure

PROJECT SCOPE

- IQ, OQ documentation
- It is designed according to the FS document
- Module B+F
- Design calculations
- Test and control procedures
- Compliant with hygiene conditions,
- Software and hardware
- CE certified, providing occupational safety conditions

COATING MACHINE

INNOVATION | DESIGN | MANUFACTURE

DRAGEE COATING



HPM HYGIENE PROCESS MANUFACTURES COATING DRUMS FOR CHOCOLATE PRODUCTION, CONFECTIONERY PRODUCTION, GUM PRODUCTION, NUT PRODUCTS WITH SUGAR COATING, GUM COATING, FILM COATING, POLISHING, AND DRAGEE COLORING PROCESSES.

The coating pan is used for coating various candies, dried fruits with sugar syrup, or chocolate. The drum can be adjusted to the desired rotational speed. The Air heater and blower can be assembled to the machine. The air can be adjusted as desired with the flexible aluminum pipe.

PRODUCTION PROCESS

In HPM facilities, heated dragee coating machines are manufactured in accordance with all international quality certificates, in the desired capacity, size, and qualities for different sectors, especially food, in line with customer requests and needs.

PRODUCTION OPTIONS

- Heating option
- Dragee coating machines can be stationary type.
- Loading and discharge methods are determined according to the customer's needs.
- The coating capacity, progress speed, and angular inclination of the machine can be adjusted.
- Dosed pouring or controlled spraying is possible.

PROJECT SCOPE

- IQ, OQ, DQ documentation
- It is designed according to the FS document
- Design calculations
- Test and control procedures
- Welding maps
- Quality documents
- It complies with occupational safety rules and food safety standards and regulations.

COATING MACHINE

INNOVATION | DESIGN | MANUFACTURE

PRODUCT COATING MACHINES



CONTINUOUS COATING MACHINE



COATING DRUM



LAB TYPE COATING MACHINE

SIEVE SYSTEMS

INNOVATION | DESIGN | MANUFACTURE

CIRCULAR SCREENING MACHINE & LINEAR SIEVE & VIBRATING SIEVE



- VIBRATING CIRCULAR SCREENING MACHINE
- LINEAR SCREENING MACHINE
- UNIVERSAL TYPE SCREENING MACHINES
- ULTRASONIC SCREENING MACHINES

Sieving process is needed for food, pharmaceutical, cosmetic, and metal powder industry in order to separate particles according to the desired sizes.

PRODUCTION PROCESS

- Sieve circles are standard, easily changeable.
- The motors are flange-mounted and easy to maintain.
- It is possible to add new layers
- Amplitude adjustment can be made on the sieves.

PRODUCTION OPTIONS

- 1 sieve 2 separators,
- 2 sieves 3 separators,
- 3 sieves 4 separators.
- The speed can be adjusted with the control panel.

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Surface roughness
- Food grade gaskets
- Comply with GMP
- Quality documents

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

ASEPTIC DOUBLE TUBE HEAT EXCHANGER



HPM HYGIENE PROCESS MANUFACTURES HEAT EXCHANGERS THAT ARE SMALLER, LIGHTER AND MORE EFFICIENT THAN SHELL AND TUBE HEAT EXCHANGERS.

Condensation & evaporation processes consist of a cylindrical body and small diameter pipes (tubes) placed inside the body. The wall thickness of the pipes is determined according to the fluid properties and working pressure.

PRODUCTION PROCESS

In double-walled heat exchangers, it is possible to detect leaks caused by cracks or holes in the inner body. It also eliminates the need for costly intermediate circuits.

These heat exchangers have a tube heat exchanger design and are made suitable for all kinds of flue gas applications, thanks to the developed cleaning system. Constantly moving elements inside the pipes prevent clogging, so the heat transfer efficiency increases.

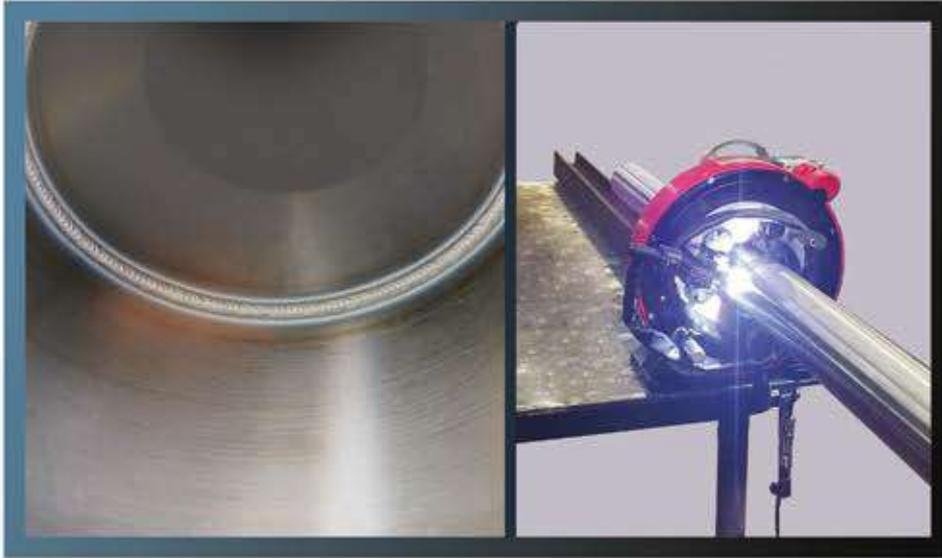
PRODUCTION OPTIONS

- It is designed in accordance with the application capacity and procedure

PROJECT SCOPE

- IQ, OQ documentation
- Material certificate
- Design calculations
- Test and control procedures
- Compliant with hygiene conditions,
- CE certified, providing occupational safety conditions

PROCESS PIPING & DISTRIBUTION LINES, ASSEMBLY WORKS AND ORBITAL WELDING



HPM HYGIENE PROCESS OFFERS SERVICES FOR ORBITAL WELDING & MECHANICAL ASSEMBLY & PIGGING SYSTEMS & ASEPTIC INSTALLATIONS & PURE WATER LOOP INSTALLATIONS.

Liquid production systems, sterile and non-sterile system piping, pure water, injection water, and pure steam line assemblies with experienced and certified assembly and welding teams:

PRODUCTION PROCESS

In our facility, all processes from the design stage to the manufacturing process and delivery of work are carried out meticulously with our high-quality machinery and expert staff.

PRODUCTION OPTIONS

- In accordance with the application capacity and requirements.

PROJECT SCOPE

- Orbital welding services
- Endoscopy service
- Passivation service
- Orbital welding documentation according to GMP
- Isometric drawings
- Welding maps
- Endoscopic controls
- Pressure test procedures
- Passivation test procedures
- Internal surface roughness measurement reports
- Vacuum test protocol

FOOD PROCESS

INNOVATION | DESIGN | MANUFACTURE

FLOOR CHANNELS, GRIDS, FLOOR DRAINS



HPM, MANUFACTURES ASEPTIC STAINLESS STEEL FLOOR DRAINS AND CHANNELS FOR HYGIENIC AREAS.

Floor drains and channels are used to collect the water in the environment to a certain point and to send it out of the installation. Design changes according to the ground properties and purpose to be used.

PRODUCTION PROCESS

Floor drains are designed in accordance with GMP rules.

A solid particle filter is available.

With a water lock, the odor is prevented.

In order to avoid sharp corners in drain manufacturing, mold plastering is applied to the bottom of the reservoir, filter base, and drain passage.

In addition, manufacturing details and attachment parts will be used by providing adhesion to the concrete and mold so that it is not affected by vibrations and heavy usage conditions in the concrete.

PRODUCTION OPTIONS

- It can be manufactured in the desired size and slope in accordance with the project.
- Bottom or side outlet designs for ease of assembly.
-

PROJECT SCOPE

- Design calculations
- Comply with GMP standards.

FOOD PROCESS EQUIPMENT

HYGIENE EQUIPMENT / STAFF HYGIENE



HYGIENE STATIONS HGX - 103



HYGIENE STATIONS HGX - 106



HYGIENE STATIONS HGX - 213



HYGIENE STATIONS HGX - 100



HYGIENE STATIONS HGX - 220J



HYGIENE STATIONS HGX - 410



HYGIENE STATIONS HGX - 108J



HYGIENE STATIONS HGX - 110



HYGIENE STATIONS HGX - 105

Hygiene Station is required for the personnel to enter the production facility. Personnel should not enter the production area before completing the hand and foot hygiene. This hygiene is provided by a hygiene barrier, which provides an effective auto-control system for your business.

FOOD PROCESS EQUIPMENT

INNOVATION | DESIGN | MANUFACTURE

HYGIENE EQUIPMENT / STAFF HYGIENE



HGX-531 DOUBLE TAP SINK/CABINET



HGX-540 THREE-TAP SINK



HGX-541 ABLUTION SINK



SINK WITH DYSON FAUCET



HGX-525 KNEE PUSH SINK



HGX-520 SINGLE TAP SINK



HPM-ED-SS-214 FLOOR MOUNTED EMERGENCY SHOWER



HPM-ED-SS-310 EMERGENCY BODY SHOWER



HPM-ED-SS-220 EMERGENCY EYE AND HIGH SHOWER WITH GRID



HPM-ED-SS-110 EMERGENCY EYE AND BODY SHOWER

HPM HYGIENE & PROCESS offers stainless steel sinks with various designs in accordance with customer requirements. With high surface quality and no sharp corners, our sinks comply with international manufacturing standards.

Emergency showers and eyewash stations provide on-the-spot decontamination. They allow workers to flush away hazardous substances that can cause injury. The eye shower section is made of stainless steel, and the shower heads are prepared with eye suitability and general production standards. The body shower valve and eye shower valve are easy to use.

FOOD PROCESS EQUIPMENT

INNOVATION | DESIGN | MANUFACTURE

HYGIENE EQUIPMENT / TURNSTILE ACCESS SYSTEM



**HGX-361
TURNSTILE ACCESS SYSTEM**



**HGX-305
SINGLE LEG TRIPOD TURNSTILE**



**HGX-315
TWO-WAY PASSAGE TURNSTILE**



**HGX-340
BODY TURNSTILE**



**HGX-300
ONE-WAY PASSAGE TURNSTILE**



**HGX-OT-270
OPTICAL TURNSTILE SINGLE**



**HGX-340D
BODY TURNSTILE**



**HGX-OT-270D
OPTICAL TURNSTILE DOUBLE**



**HGX-360
LEAF TURNSTILE**

Control and access turnstiles are used in factories, workshops, train & metro stations, stadiums, etc. These systems provide a safe and controlled entrance and exit in risky areas.

FOOD PROCESS EQUIPMENT

INNOVATION | DESIGN | MANUFACTURE

HYGIENE EQUIPMENT / STAINLESS STEEL FURNITURE



STAINLESS STEEL CHAIR



STAINLESS STEEL CABINET



STAINLESS STEEL BOOT DRYER



HGX-570 AUTOMATIC BOOT DRYING UNIT



STAINLESS STEEL MATERIAL CABINET



STAINLESS STEEL TRANSPORT EQUIPMENT



STAINLESS STEEL TABLE



STAINLESS STEEL TRASH CAN



ALUMINUM PALLET

It is a must for many production areas to use stainless steel equipment in order to avoid contamination and ensure hygiene. Our Stainless steel furniture products are easy to clean and use.

There is a wide range of products in this group such as staff lockers, tables, chairs, and transportation equipment.

FOOD PROCESS EQUIPMENT

INNOVATION | DESIGN | MANUFACTURE

HYGIENE EQUIPMENT / OPEN AREA CLEANING SYSTEM



OPEN AREA CLEANING SYSTEM



MOBILE SATELLITE STATION



HGX-S-1L SINGLE OUTPUT SATELLITE



HGX-HYGIES SATELLITE STATION



NOZZLES AND EQUIPMENTS



PUMP STATION



AUTOMATIC HOSE REELING SYSTEM

Open Plant Cleaning Systems ensures all machines and surfaces in a production area are thoroughly cleaned and, if necessary, disinfected before a new production round is started.

Pump stations are used to pressurize the water in Open Area Cleaning Systems and to increase the pressure to the desired level (17-24 bar), so that customers can start cleaning.

Satellite washing systems are capable of rinsing and foam/ gel disinfection; It is a multi-purpose hygiene system that is used with hot and cold water inlet.

CONVEYOR & ELEVATOR

Since 1997

- Screw Conveyor
- Vibrating Conveyor
- Belt Conveyor
- Chain Conveyor
- Roller Conveyor
- Bucket Elevator

www.hpm.com.tr

CONVEYOR & ELEVATOR

HPM manufactures conveyors and elevators for hygienic processes and requirements.

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

SCREW CONVEYOR



HPM HYGIENE PROCESS MANUFACTURES SUGAR TRANSFER SCREW CONVEYORS, POWDER TRANSFER SCREW CONVEYORS, AND BULK PRODUCT SCREW CONVEYORS.

Screw conveyors are material conveying equipment used in the transfer of powder products, solid products, granular products, and solid+liquid mixed products.

PRODUCTION PROCESS

Screw dimension, pouring chute jamming, and locking measures are solved at the design stage.

Conveyor helixes are entirely manufactured from a certified stainless-steel material.

TIG argon welding is used.

PRODUCTION OPTIONS

- Single row screw conveyor
- Double row screw conveyor
- Horizontal and angle conveying screw conveyor

PROJECT SCOPE

- IQ, OQ, DQ documentation
 - Design calculations
 - Test and control procedures
- Quality documents

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

VIBRATING CONVEYOR



HPM HYGIENE PROCESS MANUFACTURES VIBRATORY CONVEYORS FOR CHIPS, CHOCOLATE, BREAKFAST CEREALS, AND DRIED NUT PRODUCTION SECTORS.

Vibrating conveyors are material conveying equipment that is preferred for situations where the process is challenging due to product features e.g., preventing the deterioration of the structure of the products, controlling the flow and product layers, preventing the mixing to protect the product structure and surfaces.

PRODUCTION PROCESS

Speed and capacity can be adjusted.

Entirely made from a certified stainless-steel material.

TIG argon welding is used.

Projects are offered in accordance with the customer's needs and relevant standards.

PRODUCTION OPTIONS

- Pneumatic vibro-conveyor
- Magnetic vibro-conveyor
- Vibration motor conveyor

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Test and control procedures
- Quality documents

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

BELT CONVEYOR



HPM HYGIENE PROCESS DESIGNS BELT CONVEYORS WHICH ARE WIDELY USED IN DIFFERENT INDUSTRIES.

Belt conveyors are used in nut transportation and sorting processes, pharmaceutical dragee sorting and control processes, packaging machines at loading and product receiving points, and filling line machine loading and unloading stations.

PRODUCTION PROCESS

Speed and capacity can be adjusted.

Entirely made from a certified stainless-steel material.

TIG argon welding is used.

Projects are offered in accordance with the customer's needs and relevant standards.

PRODUCTION OPTIONS

- Belt conveyors
- Sorting tapes
- "z" type belt conveyors
- Border belt conveyors

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Test and control procedures
- Quality documents

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

CHAIN CONVEYOR



HPM HYGIENE PROCESS DESIGNS CHAIN CONVEYORS THAT MEET THE STANDARDS IN ACCORDANCE WITH CUSTOMER NEEDS.

Special design chain conveyors and elevators provide high conveying capacity. HPM offers manufacturing, installation, and commissioning services.

PRODUCTION PROCESS

Speed and capacity can be adjusted.

Entirely made from a certified stainless-steel material.

TIG argon welding is used.

Projects are offered in accordance with the customer's needs and relevant standards.

PRODUCTION OPTIONS

- Warehouse system chain conveyors,
- Malt transport chain conveyors,
- Pallet transport chain conveyors

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Test and control procedures
- Quality documents

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

ROLLER CONVEYOR



HPM MANUFACTURES ROLLER CONVEYORS FOR VARIOUS INDUSTRIES AND PURPOSES.

Roller conveyors are used in warehouse systems with distributed load pallets, loading and unloading ramps, product packaging transport at machine entrances, and packaged product removal at machine exits.

PRODUCTION PROCESS

Speed and capacity can be adjusted.

Entirely made from a certified stainless-steel material.

TIG argon welding is used.

Projects are offered in accordance with the customer's needs and relevant standards.

PRODUCTION OPTIONS

- Idler roller conveyors
- Driven roller conveyors

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Test and control procedures
- Quality documents

CONVEYOR AND ELEVATOR

INNOVATION | DESIGN | MANUFACTURE

BUCKET ELEVATOR



BUCKET ELEVATORS MANUFACTURED AT HPM HYGIENE PROCESS ARE USED IN THE TRANSFER OF CHEWING GUM, SUGAR, DRIED FRUITS, AND GRANULAR PRODUCTS TO THE CHOCOLATE AND DRAGEE COATING INDUSTRY.

A bucket elevator with continuous design solves the product waste problems during loading and special bucket rotation mechanisms have been developed for product unloading.

PRODUCTION PROCESS

Speed and capacity can be adjusted.

Entirely made from a certified stainless-steel material.

TIG argon welding is used.

Projects are offered in accordance with the customer's needs and relevant standards.

PRODUCTION OPTIONS

- Stainless steel bucket elevators
- Plastic bucket elevators

PROJECT SCOPE

- IQ, OQ, DQ documentation
- Design calculations
- Test and control procedures
- Quality documents



Ramazanoglu Mahallesi Çukurova Cd. No:36
Pendik - İstanbul TÜRKİYE



www.hpm.com.tr
www.hygienex.com.tr
www.hpm-global.de



+90 (216) 595-2203 (pbx) Türkiye
+49 6173 325 38 04 Germany



sales@hpm.com.tr
sales@hygienex.com.tr
sales@hpm-global.de



Ramazanoglu Mahallesi Çukurova Cd. No:36
Pendik - İstanbul TÜRKİYE



www.hpm.com.tr
www.hygienex.com.tr
www.hpm-global.de



+90 (216) 595-2203 (pbx) Türkiye
+49 6173 325 38 04 Germany



sales@hpm.com.tr
sales@hygienex.com.tr
sales@hpm-global.de



Ramazanoglu Mahallesi Çukurova Cd. No:36
Pendik - İstanbul TÜRKİYE



www.hpm.com.tr
www.hygienex.com.tr
www.hpm-global.de



+90 (216) 595-2203 (pbx) Türkiye
+49 6173 325 38 04 Germany



sales@hpm.com.tr
sales@hygienex.com.tr
sales@hpm-global.de



REFERENCES

INNOVATION | DESIGN | MANUFACTURE

FOOD REFERENCES



REFERENCES

INNOVATION | DESIGN | MANUFACTURE

OTHER REFERENCES



INNOVATION | DESIGN | MANUFACTURE

*Visualising
Ideas*

HPM
INNOVATION | DESIGN | MANUFACTURE

Hygienex
SIMPLE | ROBUST | RELIABLE

HPM HİJYEN PROSES MAKİNALARI
PASLANMAZ ÇELİK SAN. ve TİC. LTD. ŞTİ

Ramazanoğlu Mah. Çukurova Cad. No:36 / 34906
Pendik - İstanbul / TÜRKİYE

T.:+90 (216) 595-2203 (PBX) Türkiye
T.:+49 6173 325 38 04 Germany

sales@hpm.com.tr / sales@hpm-global.de
www.hpm.com.tr / www.hpm-global.de



@hpm_tr / @hygienex

