



Customer: Maso Brejcha s.r.o.
 Order no: LJ13/O254566PA/08/MASC
 Date: 30-10-2025

E. Product & Design data

E.1. Design data

Design specifications:

- Operating hours: 5 hours per day, 3 days per week.
- The line is designed for pigs
- Bleeding process on 2" galvanized tube rail with plastic top (Rail Plastic) with sliding hook shackles.
- Slaughtering process on 2" galvanized tube rail with plastic top (Rail Plastic) with sliding hooks with stainless steel gambrel.
- Carcass distance in the bleeding/scalding area is 600-900 mm.
- Carcass distance in the dressing area is 1200 mm.
- Average pig live weight 100 kg (from 70 kg up to 140 kg).
- Average dressed pig carcass weight 80 kg.

All hooks and/or gambrels, which transport the carcasses, must have uniform dimensions and quality.

Slaughter line capacity

The *technical* slaughter capacity is 200 conveyor push fingers per hour measured on the weighing scale at the end of the dressing line.

The *net* slaughter capacity (in carcasses per hour) depends on the slaughter line uptime, which is influenced by various factors. Marel does not have influence on most factors.

Transport rail:

Transport rail	: 2" galvanized tube rail with plastic top (Rail Plastic)
Rail height in dressing area	: 3.350 mm.
Rail height in cooling area	: 2.400 mm (as existing)

Note

The line is designed to process 70-140kg live weight pigs. The line is not designed for underweight or overweight animals. If underweight or overweight animals are processed it will require manual assistance, for example scraping, feet removal, guiding during evisceration, head removal, etc. and will compromise the quality and throughput of the carcass.



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E.2. Project specifications

E.2.1. Regulations & Standards

E.C. & U.S.D.A regulations

The equipment is in principle built due to the present regulations of the E.C. and U.S.D.A.
The method of slaughtering and building measurements can be, in points, in contradiction with the regulations of the E.C. and/or U.S.D.A., for which Marel cannot be held responsible.

Safety standards

In case of modifications, revisions, or the (re-)use of present machinery, installations or parts of machines / installations not delivered by Marel, mentioned standards as well as warranty on these installations or parts of machines/installations are not applicable.

Hygiene standards

The design of our systems and equipment is based upon the essential rules of good manufacturing practices in combination with FDA approved components and materials where necessary.

E.2.2. Lay-out

The mentioned prices are based on the length (of conveyors and rails) and shapes shown on the corresponding layout.

Changes to this layout, as well as to the project schedule will have influence on the prices.

E.2.3. Modifications

The data published herein answer to the most recent information at the moment of publishing, and are subject to future modifications.

Marel reserves the right to modify the construction and the execution of their products at any time without any obligation on their part to modify any equipment delivered before accordingly.

E.2.4. Slaughter line related civil constructions

All slaughter line related civil constructions like machine foundations, platforms, floor pits, collecting gutters, wall and roof passages, etcetera do not belong to the scope of supply mentioned in this proposal (as far as not mentioned otherwise).

Marel will provide the drawings showing the basic dimensions and other related information.

E.2.5. Secondary steelwork (main beams)

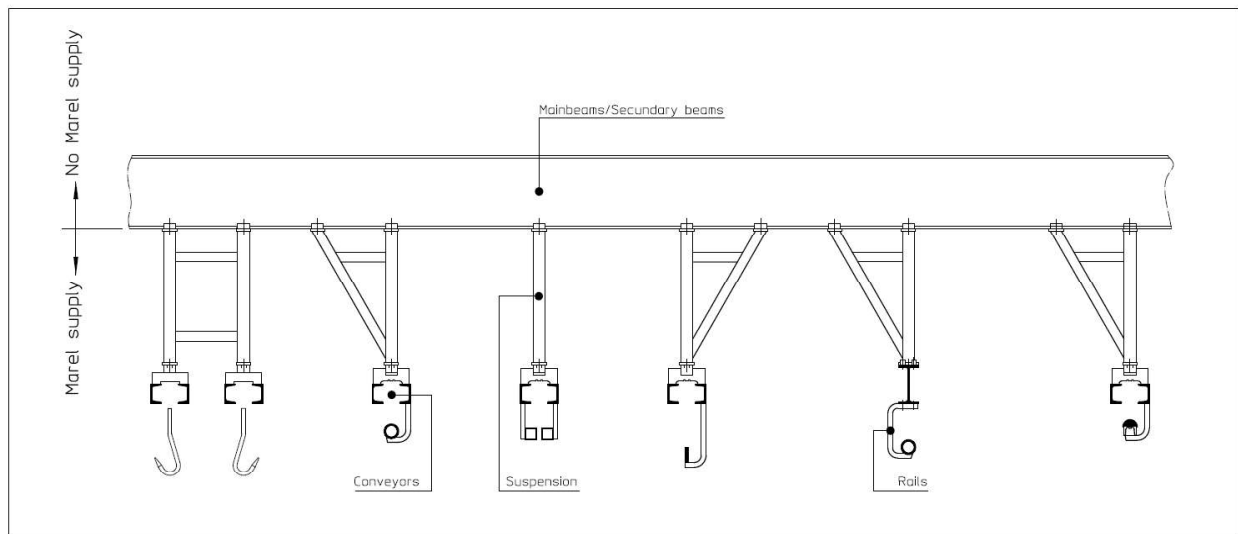
All main constructions, beams supports and columns in hot dip galvanized steel required for suspension or support will not be supplied and installed by Marel. The Marel overhead conveyors and rails require a support/suspension point at every 2.500 to 3.000 mm.

Slaughtering area

Suspension materials with a maximum distance of 500 mm between the conveyor and the connection/suspension point to the main construction are included in the scope of supply.



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During engineering Marel will submit detailed information regarding:

- height and place of beam
- load calculation
- support/suspension points

Main beams and columns in accordance with drawing and in mutual consultation with the local architect.

E.2.6. Re-use of equipment (if applicable)

We assume that existing equipment (or parts of it) can be re-used trouble-free without alterations. Marel will inform the customer if the existing equipment cannot be re-used without alterations or replacements. In consultation with the customer, alterations and/or replacements will be carried out and charged.

Example: in case of lengthening a conveyor chain, it may appear that the existing chain is not suitable for lengthening. Renewal of the existing chain can be carried out against surcharge.

E.2.7. Energy connections

Electrical power

All equipment mentioned in this offer is based on an electrical power source of 230V/400V, 3 phase, 50Hz/60Hz and a control voltage 24V DC.

Marel requires the power supply to all electric control cabinets to consist of L1, L2, L3, N and PE.

During engineering Marel will submit detailed information regarding power consumption.

Processing water

Marel will determine all connection points in drawings. All user points must be connected directly (no delivery Marel). Connection pressure: 3-5 bar.

The necessary water (temperature) in the user points must be minimal:

- Hot water 83°C (sterilizing water)
- Warm water 42°C
- Cold water 15°C

This means that at the connection points the water temperature is always higher, depending on length, type and insulation of the pipe.



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Compressed air

Marel will determine all connection points in drawings. The connection points are supplied with stop valves at a height to be determined by Marel (no delivery Marel). Marel will supply the connection between stop valve and user.

Specifications of compressed air: 6-8 bar, conditioned, dried.

Gas supply

Marel will determine the connection points in drawings.

Type of gas: Natural gas with a caloric value of 34 MJ/mN³ or propane gas with a caloric value of 100 MJ/mN³. Required gas pressure 100 mbar.

Steam supply

Steam pressure at connection points: 4-5 bar. Steam supply system no delivery Marel.

Drainage

All drainage points have to be connected to the users during building (no delivery Marel).

Documentation

During and after the project execution, the following documentation will be delivered: (included in our prices)

- lay-out drawings with cross sections
- foundation plans
- loading points
- energy connections
- electric schemes (in English)
- user manuals
- spare parts book
- CE conformity certificate (if applicable)

Drawings will be delivered in pdf-format. On request, other formats can be supplied.

The communication between Marel and the customer will be in the English language.

For European Union (EU) / European Economic Area (EEA) countries:

User manuals are issued in the national language of the country where the equipment will be installed.

Once the documentation has been finalized, Marel will provide all documents digitally. The user manuals, CE certificates and electric schemes will also be supplied in one hardcopy.

For third party equipment, the third party supplier's standard documentation will be provided.



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F. Description of operation

F.1. Process description

The process description of this pig slaughter plant includes all of the primary process from the runway to the stunner and dressing line up to the connection to the existing cooling.

Stunning and bleeding

Pigs will enter the manual runway to guide them from the stable area towards the electric stunning installation.

The stunning installation comprises a centre belt, which runs inside a guide frame and is positioned after the runway. The animals are driven into the restrainer section. The floor under the animals declines gradually so that the pigs belly is supported by the centre belt conveyor. The actual stunning takes place at the end of the restrainer section and is done by sending an electrical current through the head of the animal, followed by an additional electrical current sent via the breast to the head. Whereupon the stunned animal is directly released from the restrainer and slides via a chute towards a conveyor table for sticking and bleeding.

The pigs will be stuck on the bleeding table where they will have horizontal bleeding for one minute. Afterwards they will be shackled into the shackling conveyor where the bleeding will continue in a vertical position. At the end of the bleeding section pigs will go through a pre-washer to wash of some dirt before entering the scalding and making the scalding and dehairing process more efficient. This treatment also decreases pollution of the scalding water.

Blood is collected into the blood collecting trough.

Crippled animals will be stunned and stuck in a separate room. Crippled animals can be transported manually to the bleeding table by using the hoist on a trolley via a rail track.

Scalding and dehairing

The pig carcasses suspended from bleeding shackles are transported by an overhead conveyor through a closed tank filled with heated water. The conveyor lowers the carcasses into the water at the beginning of the tank, pulls them through the tank while immersed in the water and the lifts them out of the water at the end of the tank. Once inside the water the carcasses are kept immersed just above the water level by frames.

This system loosens hair and toenails, which will be removed in the dehairing machine. When entering the dehairing machine the pig will get unchained and will enter the Hercules dehairing machine. Empty shackles are transported back to the shackling point at the bleeding table.

Inside each machine two shafts fitted with scraper blocks remove the hair while the carcass rotates inside the machine. The machine is divided into two compartments each with one dehairing shaft. To achieve optimal dehairing the shafts rotate in opposite directions. Halfway through the dehairing cycle the carcasses are transferred to the second dehairing compartment. During dehairing the carcasses are sprayed with warm water. Plastic curtains cover the entrance and discharge openings to prevent hair and water from splashing around.

After dehairing is completed the retaining rack is opened and the carcass is discharged from the machine. Spray water and hair are discharged to the floor underneath the machine. The hair/water separation and collection unit separates the hair and spray water and discharges the hair to one side of the machine. Hair and toenails are collected in a tank and transported by compressed air to the hair collection area.



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Machine line

After dehairing the pigs fall out the dehairing machine onto the gambrelling table. Pigs will be manually gambrelled and inserted to the elevator. Thereafter they will automatically be transported by the elevator and guided to the gravity-operated buffer rail. After buffering the pigs are guided one by one into the machine-/dressing conveyor.

When passing the machines, the pigs are automatically dried, flamed-off, polished and flamed-off for decontamination. These polishing machines have rotating drums, equipped with flexible whips.

A manual emergency rail is provided, in case of a (long) line stop, to empty the bleeding, scalding and dehairing.

Evisceration

The machine-/dressing conveyor transports the carcasses along the evisceration, splitting, inspection and trimming stations.

Operations to be performed:

- Shave carcass (spare - not part of the scope)
- Remove eyes/ears
- Position carcass and close bung
- Open carcass
- Remove white offal
- Loosen and remove red organs
- Manually carcass splitting

- Veterinary inspection white offal and red organs
- Transfer red organs

- Head inspection
- Veterinary inspection carcass

- Remove leaf lard and transfer to racks
- Re-trim and re-inspection
- Spinal cord removal
- Trimming + finishing
- Clean stick wound

- Fat grading and classification
- Transfer carcass to internal hooks
- Stamping & positioning carcass
- Take of head (on floor level / no platform)
- Cut-in back (on floor level / no platform)

Most of the individual working stations will be executed as fixed platform. The splitting platform and loosen red organs are executed as a lifting platform.

For ergonomic reasons the white offal pan is guided under the carcass, so the white offal set is directly dropped into the pan. This avoids heavy lifting and turning movements. The red offal package is hung on a hook directly in front of the operator.

In the inspection area rejected organ packages are manually removed from the conveyor while the approved offal remains in the conveyor. Approved white offal pans are automatically tipped and emptied on a chute which leads to the white organs processing room. The red offal is manual transferred onto the red organ pre chiller. After being emptied the tilted pans and hooks pass the spray cabin where they are rinsed automatically using hot-cold-hot water cycles.



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After transfer the red organs are rinsed with cold water, transported through chilled air. Chilled red organs are separated while still hanging in the conveyor by operatives stand on the floor.

Condemned white organs, red organs and confiscate from the floor trough are transported by the vacuum system confiscate area.

Manure released in the white organ processing is emptied into the tank and transported by the vacuum system manure collection area.

When the white offal and red organs are removed the carcasses will be splitted into two halves on a lifting platform. After splitting the carcass and organs will go through inspection.

Carcasses, which need extra trimming, or containing parts which need to be removed, will be railed out for re-trim and re-inspection. This re-trim and re-inspection is a manual rail. Approved carcasses will be railed in into the automatic machine-/dressing conveyor. Suspected and/or condemned carcasses are transported manual to a separate area or directly to the container.

After trimming and finishing the carcasses will be weighed. The weighing will be done by using an "in motion" weighing conveyor (Weight data is not transferred and/or connected to a f.e. MES system). After the classification the carcasses will be transferred onto internal hooks and will continue their way through the carcass shower towards the cooling (as existing / connection with existing line). Automated transport stops right after the carcass shower.

Empty gambrels are rinsed with hot – cold – hot water during their return to the gambrelling table.



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F.2. Marel Electric Control system

The Marel electric control system is designed to control all the transport systems and machines mentioned in this order confirmation, with the exception of equipment that is equipped with its own control panel.

The electric control system comprises:

- Control switch panels (supply by Marel)
- Operational software (supply by Marel)
- Field components (supply by Marel)
- Cables and cable ducts (supply by Marel)

Hardware and software are engineered by Marel on project basis and has the following main advantages:

- Sophisticated control functions and modules with proven performance;
- Proven technology and the best brands as hardware components. Marel uses only brands that provide a global service. These components have been applied in the food industry by Marel for years and perform well in harsh conditions;
- All functional applications have been used worldwide and are being developed continuously in Marel projects;
- The proven and standardised functions assure a quick start-up after installation and optimal maintenance circumstances. The standardisation also creates the possibility for future extensions and/or modifications to the system;
- Marel engineers, as one complete solution, both the mechanical and control system. This results in an efficient and reliable system from the project concept phase till the hand-over of the installation to the end-user and the after sales services;
- Remote support via a VPN connection gives the Marel Helpdesk employees the possibility to provide service, support in case of emergencies and give advice regarding process optimization.
-

F.2.1. Control switch panels

To control the Marel equipment as mentioned in this order confirmation Marel delivers a Central Switch Panel (CSP) equipped with a PLC. Marel determines the exact division of the panels during the engineering phase. The Marel switch panel(s) will be delivered as coated steel, freestanding, panels (Rittal VX25) and comprise one or more panel sections that are connected to each other. The switch panels have a protection class of IP55.

Starting points for engineering (hardware and software) and manufacturing of switch panels:

- All delivered materials, specifications and software are Marel standard;
- Marel requires a power supply to all switch panels consisting of L1, L2, L3, N + PE (TN-S network);
- Power supply voltage, supplied by customer, is mentioned in chapter "Project specifications" of this order confirmation;
- Main switch (4 poles) is not fused in the switch panels;
- Cable input into the switch panels from below (panel bottom);
- Switch panels have to be placed in a separate conditioned room next to the production area with maximum 85% humidity at 20°C and a surrounding temperature > 10°C < 35°C;
- Internal wiring is executed in standard Marel wire colours;
- Internal wiring is not coded;
- The Machinery Directive (2006/42/EC) and NEN EN IEC 60204 standard are applied.

Switch panels comprise:

- Main switch;
- 24VDC power supply for the control current;



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- Diverse subdivisions and pre-fusing;
- PLC Siemens S7 in CSP;
- I/O cards Siemens ET200S(P);
- PLC Touchpanel Siemens Simatic 7 inch in the front of the switch panel;
- VPN router eWon for remote support in CSP;
- Motor control groups, direct starters Siemens;
- Motor control groups, soft starters Siemens;
- Motor control groups, frequency inverters Danfoss;
- Control buttons and signal lights;
- Emergency stop system.

Remote support (eWon)

The Marel switch panel is equipped with a eWon VPN router. This router enables Marel to connect to the installation that is controlled by Marel. This connection will be used during the commissioning of the installation and for remote service and support from Marel Helpdesk. The required hosting and resources, to make this remote support possible, are included. To set-up this remote access support connection, a network connection with internet access (IP address via DHCP) must be provided by the customer.

F.2.2. Operational software

PLC software

The software, loaded into the PLC, contains several Marel standardised software modules to control the Marel equipment as mentioned in this order confirmation.

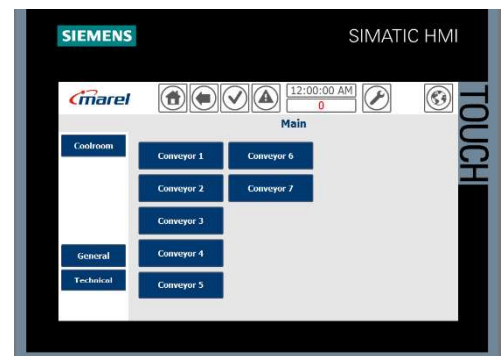
Interface with external MES system.

The Marel PLC system controls all transport systems and machines in this order confirmation. There is no data-connection to an external MES system by a third party.

F.2.3. Electric control field components

Various components will be installed in the field, among others:

- PLC Touch panel(s) Siemens Simatic 7 inch touchpanel, to allow quick read out of error messages and adjust the most essential operating parameters (depending on authorization level);
- Pushbuttons and/or signal lights to control the installation.
- Process stops to stop sections of the installation.
- Emergency switches to stop the installation or sections of the installation in cases of emergency.
- Junction boxes, conventional or with remote I/O, to create cable connections. The use of junction boxes reduces the volume of cables.



Example of a PLC Touch panel interface

F.2.4. Cables and cable ducts

Delivery, mounting and connecting

Marel delivers, mounts and connects the cables between the Marel switch panel(s) and cables from the Marel switch panel(s) to the electrical parts of the Marel installation.

Marel delivers actuators and sensors with fixed cables. These fixed cables are connected to (remote I/O) junction boxes. These junction boxes are connected with a multi-cable or a field-bus to the Marel switch panel(s).



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The delivered cables, mainly Lapp Ölflex Classic 110, are according to European standards.

Prices are based on the position of the Marel switch panel(s) as mentioned on the actual sales lay-out and the starting points of this order confirmation. Changes to the position of the Marel switch panel(s) may result in price adjustments.

Delivery and mounting of the power supply cable(s) to all Marel switch panel(s) is part of customer's scope of supply.

Delivery and mounting cable ducts

Marel delivers and mounts the cable ducts between the Marel switch panel(s) and from the Marel switch panel(s) to, or near to, the electrical parts of the Marel installation.

Cable ducts are executed as wire cable ducts without cover or separation plates. Power and control cables are mounted in the same cable duct. Single cables to a single electronic part can be mounted in a stainless steel pipe.

Marel uses different types of cable ducts:

- At machinery, AISI 304;
- In the production area, AISI 304;
- Outside the production area, AISI 304 or hot-dip galvanized.

Marel electrical supervisor

The Marel electrical supervisor will be on-site approximately the first three weeks by start of cabling phase to explain and advise on cabling activities. The cables and cable ducts should be mounted and connected in accordance with the Marel layout drawings and Marel standard cable- and mounting specifications. The Marel electrical supervisor will be on-site approximately the last three weeks of the cabling phase to check the work performed.

Length of cables and ducts is based on the position of the CSP as shown in the sales layout.



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F.2.5. Electric control delivery allocation

Description	Marel	Customer
Switch panels and field equipment		
Marel switch panel(s)	X	
Galvanized pedestal, height 200mm, for the transport and installation of the switch panel(s)	X	
For all Marel switch panels; Delivery and connection of power supply cable(s) and main grounding bar next to the Central Switch Panel.		X
Junction boxes	X	
Control buttons, push button cabinets and emergency buttons	X	
PLC Touchpanel(s)	X	
Maintenance switches (in the field)	X	
Cables		
Delivery of the required cables to make a connection between the Marel switch panel(s) and the electric control components in the field.	X	
Mounting, connecting and coding of the cables from the Marel switch panel(s) to the electric control components in the field.	X	
Delivery of cables for potential equalization	X	
Mounting of cables for potential equalization	X	
Cable ducts		
Delivery of the main cable ducts from the Marel switch panel(s) to the electric control components in the field.	X	
Delivery of local cable ducts on the machines/installation, including pipes to the main cable duct.	X	
Mounting of the cable ducts	X	
Remaining		
Sealing openings and transits		X
LAN connection with internet access for the VPN connection		X
VPN router and hosting services for remote support	X	
Responsibility for I/O test (I/O test will be carried out in combination between Marel commissioning engineer and electrical installer)	X	



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G. Technical description

General

In general the design of our systems and equipment is based upon the essential rules of good manufacturing practices in combination with FDA approved material and components where necessary. A high level of hygienic design is the starting point for the basic design of our equipment. Equipment and supporting structures can easily be cleaned and due to the use of best engineering practices in the design and engineering of equipment used in a food processing environment, contamination is reduced to a minimum.

The equipment and constructions are developed to be used in areas where open product (i.e. meat) is handled. The characteristics are: extreme humidity, frequent contact with cleaning chemicals and an operating temperature ranging from 0° to 40° C.

G.1. Stunning, bleeding and scalding area

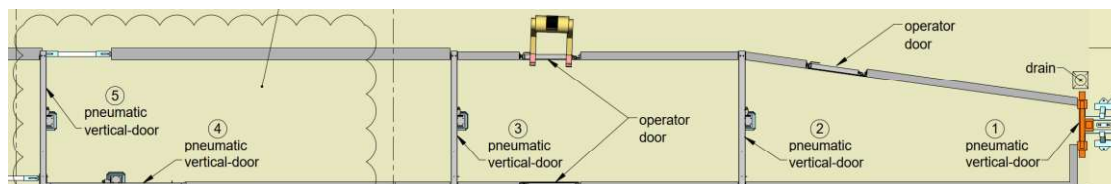
G.1.1. Civil support frame for Midas

Civil support for Midas will be carried out by customer

G.1.2. Pneumatic doors (5x) in the driveway to the Midas

Pneumatic vertical-door (5x) in the driveway to the Midas. Doors are opened and closed by a push button. Doors are plastic executed with a steel frame

As shown in layout 64.07.466_B STABLE dated 18-09-2025.



The operator doors are not included in the scope of Marel.

G.1.3. Manual stunning device N-350 (incl. registration)

Manual stunning device N-350 (incl. registration)

- for manually stunning of pigs
 - DC low voltage detects the presence of the animal head after which the stunning voltage will be activated
 - after the release of the tongs the stunning voltage is automatically switched off
 - ergonomically developed plastic tongs with stainless steel, hardened, electrodes fitted with a spiral-shaped connecting cable and plug
- Consists of:
- a pair of insulated handles and a pair of electrodes
 - synthetic standard switch panel with transformer and stunning circuit board on which the stunning voltage is adjustable from 250 to 350 V in steps of 25 V*
 - wall mounted connection box
 - wall bracket for tongs
 - pull switch
 - red indicator light



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- stunning performance recording
- software for the storage and printing of the stunning data per animal (serial number – time – current increase – holding time – stunning time – current)
- the software has to be installed on a PC with connected printer; PC supplied by customer

G.1.4. Stunning system “Midas Compact”

MACHINECODE :AM1501

For the restraining and continuous automatic stunning of individual pigs

Technical description



The restrainer comprises a centre belt, which runs inside a guide frame and is positioned after the runway. The animals are driven into the restrainer section. The floor under the animals declines gradually so that the pigs belly is supported by the centre belt conveyor. The actual stunning takes place at the end of the restrainer section and is done by sending an electrical current through the head of the animal, followed by an additional electrical current sent via the breast to the head. Whereupon the stunned animal is directly released from the restrainer and slides via a chute towards a conveyor table for sticking and bleeding, or to a shackling table.

Restrainer

The conveyor belt is made of a link chain covered with special synthetic blocs to carry the animal without damaging belly and legs. The conveyor is built into a sturdy stainless steel frame. Plastic panels are installed at both sides of the conveyor. The distance between the panels is adjustable to ensure optimal guiding of the animal shape. The stunner frame can be placed on a civil support structure or steel support frame on the floor.

Stunning

The two head stunning electrodes are situated at the end of the restrainer above the centre belt. When the presence of the animal's head is detected, the stunning current is released via the electrodes which move forward with the animal during stunning. Pneumatic cylinders secure an optimal contact between the stunning electrodes and the head. After stunning is completed the electrodes return, power free, to the start position without touching the animal's back. A third electrode is situated at the side which will be brought in contact with the chest area and through which an additional stunning current is released shortly after the main electrodes are activated. Once all three electrodes have returned to the start position the installation is ready to stun the next animal.

The Inarco® stunning system controls:

- Timing and positioning of the electrodes
- Frequencies of the applied head and chest stunning



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- Constant amperage of the applied head stunning current

Electric control panel

The control panel accommodates:

- Power supply control section
- PLC
- Frequency inverter for the centre belt drive (and horizontal bleeding table)
- Inarco® stunning control system
- Electric/pneumatic controls
- Ethernet card for data communication purposes

Advantages

Compared to other automatic electric stunning systems this combination of a centre belt restrainer with an electronically controlled "Inarco®" stunning system has following advantages:

- Optimal animal welfare
- Consistent improved meat quality
- Minimum shattered back bones
- Significant reduction of blood splashes (ham, loin and shoulder)
- Stunning result registration per individual animal is possible with the "MIREs®" program that can be additionally purchased.

Technical data

Type	:	Midas Compact
Stunning installation	:	Inarco®
Length	:	4.600 mm
Width	:	1.700 mm
Height	:	1.600 mm
Electric power consumption	:	2,15 kW
Compressed air consumption	:	24 Nm ³
Compressed air connection	:	½"G, 6 bar, conditioned air

Runway in front of Midas stunning system

To guide live animals from the stable area towards the stunning installation.

Technical description

The driveway is single executed. A walk-on tube is installed at the bottom to prevent sitting down, while a top rack prevents climbing. The sidewalls are equipped with move-back protections and emergency exit doors.

The driveway is installed on an inclined civil path.

Technical data

Overall length	:	See layout
Frame execution	:	Hot dipped galvanized
Side walls / emergency doors	:	Synthetic

Straight discharge chute

To guide stunned pigs from the Midas stunning installation and position them onto a bleeding table.

Technical description

A specially shaped guiding plate forces the stunned animals onto the declined chute through which they slide toward the bleeding table in equal positions to allow quick and easy sticking.

The chute is fabricated from bended stainless steel plate and equipped with stainless steel rollers.



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Technical data

Material	:	stainless steel
Chute length	:	1.230 mm
Width (overall)	:	1.060 mm
Carcass positioning	:	specially shaped guiding plate

Stunning registration system "Mires"

The Mires stunning registration system is used to monitor the stunning process

System description

The system captures head current levels and heart current levels, plus selected Midas PLC input and output of each individual stun. Data is stored on a Personal Computer and statistically analyzed. Graphs are used to illustrate each stun.

Data storage capacity for minimal a full year slaughter capacity. The system can be extended for registration of up to 6 additional electric stunning systems.

The Mires registration system can be used for several purposes:

1. HACCP
2. Preventive maintenance
3. Customers in European Union

HACCP Hazard Analyse Critical Control Points

The system provides relevant information about your stunning process, which are used for veterinary purposes, for your HACCP program or to support your maintenance program.

Preventive maintenance

The Mires system offers statistical information, including some figures that are used to analyse specific trends or signal trend interruptions.

Components

The Mires system consists of the following components:

- Mires32© Server Software for Windows
- Client software

Industrial PC must be supplied by customer.

G.1.5. Bleeding table "MTT"

MACHINECODE : BM1001

To allow quick sticking after stunning, free horizontal bleeding to avoid ham damage and easy shackling. During bleeding the blood is collected in a blood chute, which is integrated over the whole table length.

Technical description

The machine comprises a sturdy, stainless steel, frame with height adjustable feet to compensate possible floor slope. Two parallel transport chains are equipped with closed slats, which move the carcasses from sticking to shackling. The stainless steel slats are alternately long and short, with the longer slats reaching over the blood-collecting chute. The spaces between the slats allow optimal drainage of the blood.

The blood chute is fitted with a pipeline with nozzles to allow for the adding of anti coagulate liquid and is open at the end of the table to allow drainage of the blood into the blood collecting gutter in the floor.

The transport chains are driven by a motor reducer and the chains are automatic tensioned by means of compressed air powered bellows.

At the tension side the slats are rinsed by means of integrated water nozzles.

Technical data

Table width	:	1.560 mm
Table height	:	850 mm
Table length c-t-c	:	5.800 mm (BM1001B00)



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Collection bin for consumption blood (BM1001C01)

A short collecting basin is integrated for the separate collection of the first blood directly after sticking.

G.1.6. Shackling elevator

TYPE: ELU-R

To elevate products suspended from transport hooks to a higher rail level.

Technical description

The hooks/trolleys with products are moved by push fingers which are attached to a transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor mounted on a tensioning station. Depending on the type the overhead rail is attached to the chain guide frames by means of flat steel consoles or a reinforced plate console. The whole welded construction is galvanized before assembly. The moving parts are covered within manual reaching distance. The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Elevating height /transport distance	:	5 m
Horizontal top or bottom piece	:	2 Pc
Transport rail	:	2" pipe
U-shaped guide frame	:	UNP65
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The basic elevator is equipped with:

- Required electric switches, compressed air control units and valves;
- Required supports to the suspension construction, up to 500 mm above the elevator top;
- Required galvanized, fastening materials;
- 1 Drive / tensioning station;

G.1.7. Scalding conveyor, incl. buffer rail

TYPE : CVU-BS

Conveyor equipped with carrier hooks, for the transport of carcasses from the bleeding area through the scalding section towards the dehairing machine.

Technical description

The carcasses, suspended from bleeding shackles, are hung to carrier hooks which are attached to the transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor and tensioned by a pneumatically powered tensioning station. In the horizontal curves the chain is guided by sprockets with self-adjustable teeth. The whole welded construction is galvanized before assembly.

The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Transport chain length	:	80 m
Transport chain type	:	Double hinged, horizontal chain with nylon guide rollers
Conveyor curve guiding	:	10 pc. of, stainless steel sprocket with synthetic teeth
Size of U-shaped conveyor guide frames	:	UNP100
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution



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The conveyor is equipped with:

- Required electric switches, compressed air control units and valves;
- Required supports to the suspension construction, up to 500 mm above the conveyor frame;
- Required galvanized, fastening materials;
- 1 Drive station with geared motor;
- 1 Pneumatically powered tensioning station;
- 1 Carrier hook release station for bleeding shackles.
- 1 Spray lubrication unit for conveyor chain with 8 liter oil reservoir
Replaced by new generation drip lubrication unit (see item G.8.3)
- 1 Pneumatic indexer for controlled automatic introduction of transport hooks into the conveyor
- 1 Encoder
- 1 3,7m buffer rail incl. guiding

G.1.8. Automatic unshackling

TYPE : HER

For the automatic unshackling of the carcasses and feeding into the dehairing machine

Technical description

Two pigs or one sow will be automatically unshackled and fed into the dehairing machine.

The unshackling device consists of an air operated unshackling construction, which lifts the shackles to unchain the pig leg. The device is fitted with an alarm in case of non-released pigs.

Technical data

Steel components	:	Galvanized
Pneumatic components	:	Standard execution

G.1.9. Blood collecting trough

For the collection of blood during bleeding of the carcasses suspended from a rail or conveyor.

Technical description

Stainless steel chute construction integrated in the floor construction.

The chute bottom will be sloped toward one or more pump / drainage points where a blood / cleaning water drainage connection will be realized.

Technical data

Chute dimensions	:	According layout
Blood / cleaning water drainage connection	:	1 pc. Ø 100 mm integrated in chute construction
Under filling, side & floor finish	:	By building contractor

G.1.10. Blood pump, incl. 25m piping

To pump blood out of the collecting trough and transport it to a storage tank.

Technical description

The installation comprises a diaphragm pump with piping to the sucking point and from the pump to the storage tank. The piping is made of stainless steel and fitted with shut-off valves at both sides and suspension brackets.

The pump can be disconnected for cleaning purposes.



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Technical data

Pump type	:	Double diaphragm pump, compressed air powered
Intake / discharge pipe size	:	2" (50 mm)
Compressed air connection	:	3/4" (8 bar)
Intake piping till sucking point	:	Included
Transport piping (2" SS) to storage tank	:	25 m
Automated pump and pipe cleaning	:	Not included

Pump 2x

G.1.11. Pre-washer '3V Pig'

MACHINECODE:BM3002

By giving the carcass a quick pre-wash treatment before scalding, the outside dirt is removed from the skin, making the scalding and dehairing process more efficient. This treatment also decreases pollution of the scalding water.

Technical description

The machine comprises a smooth finished stainless steel housing in which rotating shafts are mounted. The stainless steel cleaning shafts are equipped with special "long life" and exchangeable synthetic whips and are individually driven by a geared motor. Water channels with spray nozzles are integrated in the top of the machine. Electrically activated water valves open or close the spray water supply to clean the inner side of the machine. The lower part of the machine is equipped with plates which catch and guide the spray water. The machine housing is supported by floor mounted columns.

Technical data

Max. carcass length	:	2.000 mm
No. of vertical shafts	:	3
Number of "click" whips	:	378
Carcass carrier	:	Bleeding shackles
Machine dimensions (L x W x H)	:	2.500 x 2.250 x 3.800 mm

G.1.12. Pull through scalding tank

Type: PTST

Process description

The pig carcasses suspended from bleeding shackles are transported by an overhead conveyor through an (open) tank filled with heated water. The conveyor lowers the carcasses into the water at the beginning of the tank, pulls them through the tank while immersed in the water and the lifts them out of the water at the end of the tank. Once inside the water the carcasses are kept immersed just above the water level by frames.

Technical description

Scalding tank

The stainless steel scalding tank comprises a main tank body with re-enforced ribs and the necessary connecting facilities for drainage, overflow, circulation pump(s), water level control, water temperature controls and steam supply pipe.

The vertical tank sides are insulated and finished with stainless steel plating. The tank will be delivered in pre-assembled transportable sections which will be welded together during erection.

Immersion frames and conveyor support

Portals are mounted at regular distances on the tank edge and provide the support of the transport conveyor, immersion frames and circulation pipe line.

The immersion frames comprise a pipe frame with smooth underside to avoid skin damage.



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Technical data

Tank shape and dimensions	:	According to lay-out
Scalding time	:	According to lay-out
Inside tank width	:	1.300 mm
Overall tank width	:	1.570 mm / 2.870 mm
Tank edge height	:	850 mm
Tank drainage connections	:	NW 100 mm - Incl. pneum. powered valve
Static immersion frames	:	approx. 17,5 m
Raised tank support floor	:	By building contractor

G.1.13. Cover upgoing part of the scalding conveyor

The cover section consists of stainless-steel panels. The cover comprises an opening to allow the passing of the bleeding shackle. This opening is brush sealed to avoid energy losses.

Spray sections

Comprising piping and spray heads assembled at regular distances along the inside of the cover.

The spray heads in the tunnel section will be connected to the pump of the circulation system.

G.1.14. Scalding tank circulation system

Circulation system and temperature control for scalding tank.

Process description

Circulation pump(s) supply a constant flow of the scalding water to ensure a consistent water temperature throughout the whole length of the tank.

The water temperature is measured by means of a PT100 sensor and via the PID/PLC control system, valves are automatically activated to heat the scalding water before slaughtering and adjust the water temperature during slaughtering. The water level is automatically controlled and adjusted.

Technical description

Water circulation, temperature control

Circulation pipeline with impeller pump(s) and steam injection.

Water temperature and level indicators are situated at side of the tank..

Technical data

Scalding water circulation system	:	1 pc. Including impeller pump
Scalding water temperature	:	60°C
Water temperature control	:	P.I.D. control integrated in central control system
Water inlet temperature (before shift)	:	15 °C
Water inlet temperature (during production)	:	40°C
Anti foam dosing	:	Included



Customer: Maso Brejcha s.r.o.
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G.1.15. Dehairing machine “Hercules”

MACHINECODE: BM4201

System for the dehairing of well-scalded pigs.

Process description

After being scalded, the carcasses are transferred as quickly as possible into the dehairing machine. This is done by means of a Turn-O-Matic scalding system or an Infeed chute with unshackling station. Inside each machine two shafts fitted with scraper blocks remove the hair while the carcass rotates inside the machine. The machine is divided into two compartments each with one dehairing shaft. To achieve optimal dehairing the shafts rotate in opposite directions. Halfway through the dehairing cycle the carcasses are transferred to the second dehairing compartment. During dehairing the carcasses are sprayed with warm water. Plastic curtains cover the entrance and discharge openings to prevent hair and water from splashing around. After dehairing is completed the retaining rack is opened and the carcass is discharged from the machine. Spray water and hair are discharged to the floor underneath the machine. The hair/water separation and collection unit separates the hair and spray water and discharges the hair to one side of the machine.

Technical description

The machine consists of a sturdy galvanized frame in which the two dehairing shafts, a transfer rack and retaining rack are mounted. The rack and the carcass support bars form cylindrical compartments to allow the rotating of the carcasses during dehairing. The shaft is located below the transfer rack and support bars and is fitted with Marel scraper blocks. Each shaft is supported by ball bearings and directly driven by a geared motor. The transfer and retaining rack have a hydraulic power system.

Three spray pipes are mounted at the top of the machine, two for the spraying of pigs during dehairing and one to wash down the hair from the discharge curtain. Drives, hydraulic unit, bearings and cylinders are built in the side compartment of the machine which is covered by stainless steel doors.

Technical data

Max. filling capacity	:	2 pigs
Operating width	:	2.700 mm
Machine dimensions	:	L x W x H = 3.400 x 2.700 x 2.700 mm
No. of dehairing drums	:	2
No. of Marel scraper blocks	:	204
Machine execution	:	Galvanized steel, stainless steel and other non-corrosive materials

Rinsing unit supplied with circulation system for pump pit

Carcasses are rinsed and hairs are washed down by spraying water on both rollers. The spray water is reused by means of a circulation system, which results in a reduction of water use.

The spray water is collected underneath the dehairing machine from where it is drained into a floor pit next to the machine. Here the water is re-heated and pumped back into the spray pipes in the dehairing machine.

Technical description

Circulation pipeline with impeller pump. Water temperature control and level indicators are situated at the side of the pit. Galvanized, removable cover on top of the pit.

Technical data

Re-heating/pump pit	:	Customer is responsible for the constructional pit, right next to the dehairing machine, according Marel drawing
Pit cover	:	Galvanized
Spray water circulation system	:	Impeller pump with piping and fittings
Spray water temperature	:	40-45°C (adjustable)



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Heating system for circulation water

The water in the circulation tank is re-heated by means of steam injection.

Technical data

Water temperature control	:	Control system integrated in central control system
Steam injection unit	:	included
Spray water temperature	:	40-45°C (adjustable)

Infeedchute

Process description

Two pigs or one sow carcass(es) are collected in the chute after being automatically unshackled. A dosing rack inside the chute descends as the dehairing machine is ready to receive the carcass(es).

Technical description

The reinforced slide chute is attached to the rear side of the dehairing machine. A hinged dosing rack is situated inside the chute.

Technical data

Chute length	:	2.700 mm
Dosing rack	:	Pneumatically powered
Rack control	:	by dehairing machine control system
Chute execution	:	Stainless steel

Platform

The infeed chute is supplied with a platform for cleaning and maintenance purposes. The platform is placed on the long side of the infeed chute. Its execution is layout depending.

Platform execution	:	Stainless steel frame with plastic grid
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Receiving table

Technical description

Sturdy tube frame with smooth reinforced plate top. Including a tube grid for the discharge of water and bristles. The table is equipped with four height adjustable feet.

Technical data

Length	:	approx. 2.900 mm
Width	:	approx. 1.500 mm
Height	:	approx. 900 mm
Chute execution	:	Stainless steel



Customer: Maso Brejcha s.r.o.
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G.1.16. Bleeding shackle return system

System to transport empty hooks back to the hooking point.
The top hooks lie directly on top of the transport chain and are located against each other while transported by the conveyor.
The conveyor loading is controlled by product detectors. The system is controlled by the PLC build in the central switch panel (not included in this item).
The system occasionally needs some manual support such as removing stuck and fallen hooks.

Technical data	
Transport chain type	: marine chain (horizontal) / roller chain (elevator)
Transport rail	: no rail, hooks lie on top of the chain
Suspension support	: up to 3 m. above conveyor frame
Drive	: Painted
Electric components	: Standard execution

- The conveyors, in vertical construction, each existing of:
- 1 Drive station
 - 1 Tensioning station, type spring
 - Aluminium frame
 - Conveyor chain, type marine chain (horizontal)/roller chain (elevator)
 - Required limit switches and valves
 - Required fastening material.

Components in the hook return & storage system:

- Hook return buffer rail	1x: 1 meters
- Hook return & storage elevator	1x: 11meters
- Hook return & storage elevator	1x: 3 meters
- Hook return buffer rail	1x: 1 meters
- Hook return buffer rail	1x: 2 meters

G.1.17. Bleeding shackles

Galvanised sliding hook with galvanized chain for the transportation of pigs after stunning/bleeding until unshackling. The bleeding shackles are suitable for the automatic unshackling of pigs.

G.1.18. Blood tank

Not included in the scope of supply



Customer: Maso Brejcha s.r.o.
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G.1.19. Floor mounted apron washer, incl. 1x knife sterilizer (Sticking)

MACHINECODE: CM6501

To wash apron and to decontaminate knives between slaughter actions.

Technical description

Comprising a splash shield with water supply piping and water collecting reservoir covered with a removable plastic grating. The water flow is controlled by means of a mechanical or electrical activation. The unit is placed on the floor or integrated in the floor. Executed in stainless steel.

Technical data

Apron shower water supply	:	Hot 42°C
Knife sterilization water supply	:	Hot min. 82°C
Activation	:	Mechanical
No. of knife sterilizers	:	1 Pc.

G.1.20. Floor mounted apron washer (Shackling)

MACHINECODE: CM6501

To wash apron and to decontaminate knives between slaughter actions.

Technical description

Comprising a splash shield with water supply piping and water collecting reservoir covered with a removable plastic grating. The water flow is controlled by means of a mechanical or electrical activation. The unit is placed on the floor or integrated in the floor. Executed in stainless steel.

Technical data

Apron shower water supply	:	Hot 42°C
Knife sterilization water supply	:	Hot min. 82°C
Activation	:	Mechanical

G.1.21. Emergency stunning push rail, incl. hoist

For the manual transport and storage of hooks with products

Technical description

Overhead rail, attached to support beams by means of flat steel consoles. All construction parts are galvanized before assembly.

Technical data

Rail type	:	2" rail plastic (2" synthetic top on steel profile)
Rail length	:	8 m
Support beam length	:	8 m
All steel parts	:	Hot-dip galvanized

The rail system is equipped with:

- Required rail curves;
- Required galvanized fastening materials;
- Required suspension support;
- 1 Hoist



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G.2. Machine line area

G.2.1. Floor mounted apron washer incl. 2x knife sterilizer

MACHINECODE: CM6501

To wash apron and to decontaminate knives between slaughter actions.

Technical description

Comprising a splash shield with water supply piping and water collecting reservoir covered with a removable plastic grating. The water flow is controlled by means of a mechanical or electrical activation.

The unit is placed on the floor or integrated in the floor. Executed in stainless steel.



Technical data

Apron shower water supply	:	Hot 42°C
Knife sterilization water supply	:	Hot min. 82°C
Activation	:	Mechanical
No. of knife sterilizers	:	2 Pc.

G.2.2. Hooking elevator

TYPE: ELU-R

To elevate products suspended from transport hooks to a higher rail level.

Technical description

The hooks/trolleys with products are moved by push fingers which are attached to a transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor mounted on a tensioning station. Depending on the type the overhead rail is attached to the chain guide frames by means of flat steel consoles or a reinforced plate console. The whole welded construction is galvanized before assembly. The moving parts are covered within manual reaching distance. The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Elevating height /transport distance	:	6 m
Horizontal top or bottom piece	:	2 Pc
Transport rail	:	2" Rail plastic (2" synthetic on steel profile)
U-shaped guide frame	:	UNP65
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The basic elevator is equipped with:

- Required electric switches, compressed air control units and valves;
- Required supports to the suspension construction, up to 500 mm above the elevator top;
- Required galvanized, fastening materials;
- 1 Drive / tensioning station;
- 2 Pneumatic rail switches;



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G.2.3. Emergency rail

For the manual transport and storage of hooks with products

Technical description

Overhead rail, attached to support beams by means of flat steel consoles. All construction parts are galvanized before assembly.

Technical data

Rail type	:	2" rail plastic (2" synthetic top on steel profile)
Rail length	:	7,5 m
Support beam length	:	5 m
All steel parts	:	Hot-dip galvanized

The rail system is equipped with:

- Required rail curves
- Required galvanized fastening materials
- Required suspension support

G.2.4. Machine line- and dressing conveyor, incl. buffer rail

TYPE : CVU-R

Technical description

The hooks/trolleys with products are moved by push fingers which are attached to a transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor and tensioned by a pneumatically powered tensioning station. In the horizontal curves the chain is guided by sprockets with self-adjustable teeth. The overhead rail is attached to the chain guide frames by means of flat steel consoles. The whole welded construction is galvanized before assembly. The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Transport chain length	:	120 m
Transport chain type	:	Single hinged, horizontal chain with push fingers and steel guide rollers
Conveyor curve guiding	:	7 pc. of stainless steel sprocket with synthetic teeth
Transport rail	:	2" Rail plastic (2" synthetic on steel profile)
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The conveyor is equipped with:

- Required electric switches, compressed air control units and valves;
- Required supports to the suspension construction, up to 500 mm above the conveyor frame;
- Required galvanized, fastening materials;
- 1 Drive station with geared motor;
- 1 Pneumatic tensioning station;
- 1 Spray lubrication unit for conveyor chain with 8 liter oil reservoir
Replaced by new generation drip lubrication unit (see item G.8.3)
- 1 Pneumatic indexer for controlled automatic introduction of transport hooks into the conveyor
- 2 Pneumatic rail switch(es)
- 2 Water-cooled conveyor frame section, positioned above flaming unit.
- 1 Encoder
- 1 Pneumatically powered accumulation station(s)
- 32 m. stainless steel guide rail
- 1 2,5m buffer rail incl. plate guiding



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G.2.5. Pre-dryer 3V

MACHINECODE:BM5001

After dehairing the carcass surface is wet and loose hair can stick to the carcass, causing burn marks on the skin after singeing.

The pre-drying and polishing machine removes loose hair and water, and reduces gas consumption considerably, because singeing time will be decreased when the skin is dry.

Technical description

The machine comprises a smooth finished stainless steel housing in which rotating shafts are mounted.

The stainless steel cleaning shafts are equipped with special "long life" and exchangeable synthetic whips and are individually driven by a geared motor.

Water channels with spray nozzles are integrated in the top of the machine. Electrically activated water valves open or close the spray water supply to clean the inner side of the machine.

The lower part of the machine is equipped with plates to catch and guide the spray water.

The machine housing is supported by floor mounted columns.

Technical data

Max. carcass length	:	2.000 mm
No. of vertical shafts	:	3
Number of "click" whips	:	378
Carcass carrier	:	gambrel
Machine dimensions (L x W x H)	:	2.500 x 2.250 x 3.800 mm



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G.2.6. Flaming furnace “Spitfire 1250”

MACHINECODE: BM5502

To singe off remaining bristles and loose scurf from the carcass surface after dehairing.

Carcasses are singed off twice inside the machine, at the entrance and discharge side, while they are transported by an overhead conveyor.

By providing the burners with a gas/air mixture with pressured air an intensive singing is ensured.

Technical description

The machine comprises a smooth finished, stainless steel housing in two halves with a combustion gases collecting hood on top. Each machine half comprises two integrated air/gas mixture columns which, at the inside, are equipped with two sets of flame-stabilized burner nozzles and a reflection plate. Two burner sets are situated on the left and right side of the machine at the entrance side and two sets at the discharge side.

For ignition of the burners a pilot burner is situated at the lower side of each burner set. For safety reasons each pilot burner is equipped with UC-cell.

The ignition moment and flaming time are controlled by a PLC. (The PLC is a stand-alone or central control panel.) A gas control group is situated at the outside of the machine.

Flame type, size and intensity are adjustable by means of air and gas regulation valves.

The machine is protected against too high and too low gas pressures, flaming failures and electrical faults. A main gas regulation/control group is mounted outside the machine.



Gas type and supply

The flaming furnace is suitable for the use of natural, propane or butane gas. The gas supply line must be capable of providing a constant overpressure depending on gas type.

The intermittent operation of the flaming furnace causes an uneven load on the supply network. A correctly dimensioned gas supply line, with sufficient buffer capacity, is essential and has to be checked with your gas supplier. The information provided by Marel must be approved by the relevant authorities.

If the supply pressure exceeds the demanded overpressure a main reducer should be fitted in front of the main gas group.

Technical data

No. of burner columns	:	4
Number of burners	:	4 x 14 = 56
Carcass transport through machine	:	By overhead conveyor
Machine dimensions (L x W x H)	:	2.250 x 2.600 x 4.200 mm

Scope of supply:

Basic machine	:	1 Pc
Splash lock extensions entrance/exit	:	not incl. in this item
Additional main gas reducer	:	not incl. in this item

Gas regulation unit

Gas regulation unit	:	“European Union” execution
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G.2.7. Chimney “Spitfire 1250”

For the extraction of flue combustion gases through the roof and to allow the flow of fresh air into the slaughter hall via a roof transit section.

Technical description

The chimney comprises single plated straight duct sections placed on the hood of the flaming furnace. The roof passing duct section is fitted with a collar and the top section is fitted with an oblique rain hood to protect the slaughter hall and chimney from rain water.

The entire construction is executed in stainless steel, not insulated.

Additional chimney length, sealing transit and double ducts to roof transit, insulation, chimney support and shoring are possible but depend on the local circumstances and regulations. If required Marel will quote the extra costs when the construction details are available.

Technical data

Chimney duct execution	:	Stainless steel, single walled, straight
Chimney duct dimensions	:	700 x 700 mm
Chimney duct length	:	up to 4.000 mm
Roof transit	:	1 Pc. in standard execution for flat roof
Roof transit dimensions	:	1.000 x 1.000 mm

G.2.8. Brushing unit for heads and hind legs

MACHINECODE: BM6506 (HEADS)

To give the pig front legs and head an additional cleaning treatment after singeing.

The front leg and head-brushing machine is suitable for pigs suspended from gambrels or dressing hooks.

Technical description

The machine comprises a stainless steel housing with a smooth finish in which rotating synthetic brushes are mounted.

Two spray water channels are integrated at the top of the machine.

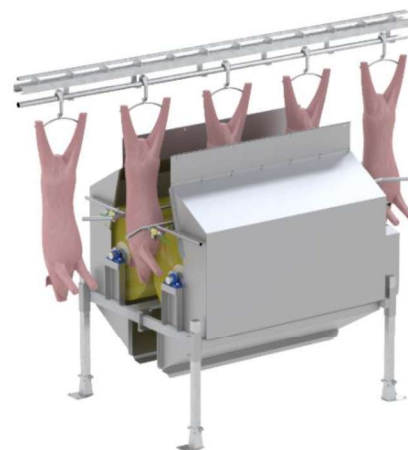
Electrically activated water valves open or close the spray water supply to spray water on the brushes.

The machine is supported by floor mounted legs.

For the positioning of the carcass, guiding bars are situated inside the machine.

The cleaning brushes with stainless steel shafts are individually driven by a geared motor.

An integrated gutter leads the dirt and water towards the middle of the machine, where it will fall into the floor gutter.



Technical data

No. of horizontal brushes	:	2
Brush dimensions	:	Length approx. 2.140 mm – diam. 960 mm
Machine dimensions (L x W x H)	:	3.575 x 2.040 x 1.960 mm



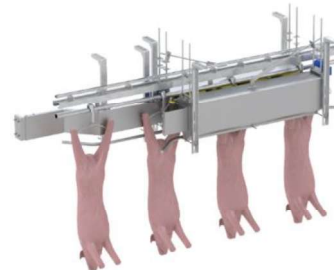
Customer: Maso Brejcha s.r.o.
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MACHINECODE: BM6502 (HIND LEGS)

Polishing machine for pig hind legs suspended from gambrels or dressing hooks.

To give the pig hind legs an additional cleaning treatment after singeing.

The hind leg brushing machine is suitable for pigs suspended from gambrels or dressing hooks.



Technical description

The machine comprises a stainless steel housing with a smooth finish in which rotating synthetic brushes are mounted.

Two spray water channels are integrated at the top of the machine.

Electrically activated water valves open or close the spray water supply to spray water on the brushes.

The machine is suspended from the overhead transport conveyor.

The cleaning brushes with stainless steel shafts are individually driven by a geared motor.

Technical data

No. of horizontal brushes	:	2
Brush dimensions	:	Length approx. 1.800 mm – diam. 450 mm
Machine dimensions (L x W x H)	:	3.200 x 1.000 x 760 mm

G.2.9. Skin polisher “4V”

MACHINECODE: BM7002

After dehairing and singeing, the polishing/finishing machine cleans the carcass surface to reduce manual shaving to a minimum.

Technical description

The machine comprises a smooth finished stainless steel housing in which rotating shafts are mounted.

The stainless steel cleaning shafts are equipped with special “long life” and exchangeable synthetic whips and are individually driven by a geared motor.

Water channels with spray nozzles are integrated in the top of the machine. Electrically activated water valves open or close the spray water supply to clean the inner side of the machine.

The lower part of the machine is equipped with plates to catch and guide the spray water.

The machine housing is supported by floor mounted columns.

For the positioning of the carcass a guiding bar will be mounted inside the machine.

Technical data

Max. carcass length	:	2.000 mm
No. of vertical shafts	:	4 pcs.
Number of “click” whips	:	504 pcs
Carcass carrier	:	gambrel
Machine dimensions (L x W x H)	:	3.150 x 2.250 x 3.800 mm



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G.2.10. Decontamination furnace “Spitfire 1250”

MACHINECODE: BM7502

For the decontamination of the closed pig carcass surface before evisceration. Carcasses are singed off twice inside the machine, at the entrance and discharge side, while they are transported by an overhead conveyor. By providing the burners with a gas/air mixture with pressured air an intensive singeing is ensured.

Technical description

The machine comprises a smooth finished, stainless steel housing in two halves with a combustion gases collecting hood on top. Each machine half comprises two integrated air/gas mixture columns which, at the inside, are equipped with two sets of flame-stabilized burner nozzles and a reflection plate. Two burner sets are situated on the left and right side of the machine at the entrance side and two sets at the discharge side.

For ignition of the burners a pilot burner is situated at the lower side of each burner set. For safety reasons each pilot burner is equipped with UC-cell. The ignition moment and flaming time are controlled by a PLC. (The PLC is a stand-alone or central control panel.) A gas control group is situated at the outside of the machine.

Flame type, size and intensity are adjustable by means of air and gas regulation valves.

The machine is protected against too high and too low gas pressures, flaming failures and electrical faults. A main gas regulation/control group is mounted outside the machine.



Gas type and supply

The flaming furnace is suitable for the use of natural, propane or butane gas. The gas supply line must be capable of providing a constant overpressure depending on gas type.

The intermittent operation of the flaming furnace causes an uneven load on the supply network. A correctly dimensioned gas supply line, with sufficient buffer capacity, is essential and has to be checked with your gas supplier. The information provided by Marel must be approved by the relevant authorities.

If the supply pressure exceeds the demanded overpressure a main reducer should be fitted in front of the main gas group.

Technical data

No. of burner columns	:	4
Number of burners	:	4 x 14 = 56
Carcass transport through machine	:	By overhead conveyor
Machine dimensions (L x W x H)	:	2.250 x 2.600 x 4.200 mm

Scope of supply:

Basic machine	:	1 Pc
Splash lock extensions entrance/exit	:	not incl. in this item
Additional main gas reducer	:	not incl. in this item

Gas regulation unit

Gas regulation unit	:	“European Union” execution
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Customer: Maso Brejcha s.r.o.
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G.2.11. Chimney “Spitfire 1250”

For the extraction of flue combustion gases through the roof and to allow the flow of fresh air into the slaughter hall via a roof transit section.

Technical description

The chimney comprises single plated straight duct sections placed on the hood of the flaming furnace. The roof passing duct section is fitted with a collar and the top section is fitted with an oblique rain hood to protect the slaughter hall and chimney from rain water.

The entire construction is executed in stainless steel, not insulated.

Additional chimney length, sealing transit and double ducts to roof transit, insulation, chimney support and shoring are possible but depend on the local circumstances and regulations. If required Marel will quote the extra costs when the construction details are available.

Technical data

Chimney duct execution	:	Stainless steel, single walled, straight
Chimney duct dimensions	:	700 x 700 mm
Chimney duct length	:	up to 4.000 mm
Roof transit	:	1 Pc. in standard execution for flat roof
Roof transit dimensions	:	1.000 x 1.000 mm

G.2.12. Offal trough machine line area

For the collection of drips and pieces during slaughtering.

Technical description

Stainless steel chute construction integrated in the floor construction. The chute bottom will be sloped toward one or more drainage points.

Technical data

Chute length	:	approx. 34 m
Chute width	:	approx. 800 mm
Drainage connections	:	5 pcs.
Under filling, side & floor finish	:	By building contractor



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G.3. Dressing area

G.3.1. Working grid Remove eyes/ears

Stainless steel platform with removable plastic grid.

Technical description

The platform base consists of a frame with removable plastic floor grids, supported by legs.
 The platform bottom has an open construction.

Technical data

Platform surface	:	according layout
Platform height	:	in accordance with work circumstances, maximum height 400 mm
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.2. Static platform - Close bung + carcass positioning device

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.
 All water is collected in the gutter shaped bottom of the platform with a central drainage connection point.
 The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.3. Static platform - Open carcass + remove white offal

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.
 All water is collected in the gutter shaped bottom of the platform with a central drainage connection point.
 The platform is executed with stairs for safe access.



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Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 2 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.4. Suspension for manual tool (open carcass and splitting saw)

Suspension for manual tools

- secondary steel construction for the suspension of the hand tool
- balancer whereto the hand tool is attached will be mounted in a movable (two directions) position to the secondary construction

G.3.5. Pneumatic platform – Loosen red organ

Stainless steel lifting platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by 2 floor mounted columns. Where necessary guard rails are installed along the platform edges. All water is collected in the gutter shaped bottom of the platform with a drainage connection point. Height adjustment by pneumatic cylinders. The platform height is controlled by foot operated push buttons mounted in the platform floor.

Comprising:

- set of cylinders and controls
- floor mounted elevating columns
- removable plastic grid
- apron & hand wash cabinet
- knife disinfection unit

Technical data

Lifting height	:	1.500 mm
Lifting capacity	:	160 kg
Platform dimensions	:	according layout

Pneumatic components in standard finish.

G.3.6. Static platform - remove red organ

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges. All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.



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Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.7. Suspended ergonomic offal inspection conveyor

TYPE : CVUHPS-W&RIE

Conveyor to transport white and red offal from the evisceration along the veterinary inspection to the discharge spot.

Process description

For ergonomic reasons the white offal pan is guided under the carcass, so the white offal set is directly dropped into the pan. This avoids heavy lifting and turning movements. The red offal package is hung on a hook directly in front of the operator.

In the inspection area rejected offal packages are manually removed from the conveyor while the approved offal remains in the conveyor. The white offal pans are automatically tipped and emptied at the rear side, and the red offal is stripped from the hook. After being emptied the tilted pans and hooks pass the spray cabin where they are rinsed with warm water and decontaminated with hot water. (See separate item)

Technical description

The white offal pans and red offal hooks are suspended from the transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor and tensioned by a pneumatically powered tensioning station. The conveyor is synchronised with the carcass transport conveyor. In the conveyor curve the chain is guided by a sprocket with self adjustable teeth. The pan braces are guided during evisceration and inspection.

The whole welded construction is galvanized before assembly. Pans, hooks and guides are executed in stainless steel.

The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Transport chain length	:	32,4 m
Transport chain type	:	Single hinged, horizontal chain with nylon guide rollers
Conveyor curve guiding	:	4 pc. of, stainless steel sprocket with synthetic teeth
No. of stainless steel offal pans & hooks	:	27 pcs. suitable for pigs
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The conveyor is equipped with:

- Required electric switches, compressed air control units and valves
- Required supports to the suspension construction, up to 500 mm above the conveyor frame
- Required galvanized, fastening materials
- 1 Drive station with geared motor
- 1 Tensioning station
- 1 Spray lubrication unit for conveyor chain with 8 liter oil reservoir
Replaced by new generation drip lubrication unit (see item G.8.3)



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G.3.8. Rinsing cabin pans & hooks

Cabin with sprayers to rinse and the pans and hooks for white offal and red organs, mounted in the return path of the offal conveyor. The system is provided with sets of nozzles to rinse automatically using hot-cold-hot water cycles.

Technical data:

Length	:	approx.	2.000 mm
Width	:	approx.	600 mm
Height	:	approx.	1.000 mm

Sterilisation cabin in stainless steel execution.

Under filling, side & floor finish : By building contractor

G.3.9. Trough to gut treatment room

For the transport of guts to the treatment room by a trough

Technical description

Stainless steel chute construction placed above the floor level. The chute bottom will be sloped toward one or more drainage points.

Technical data

Chute surface	:	approx.	2 m ²
Under filling, side & floor finish	:	By building contractor	

G.3.10. Lifting platform - Carcass splitting

Stainless steel lifting platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by 2 floor mounted columns. Where necessary guard rails are installed along the platform edges. All water is collected in the gutter shaped bottom of the platform with a drainage connection point. Height adjustment by pneumatic cylinders. The platform height is controlled by foot operated push buttons mounted in the platform floor.

Comprising:

- set of cylinders and controls
- floor mounted elevating columns
- removable plastic grid
- apron & hand wash cabinet
- knife disinfection unit

Technical data

Lifting height	:	1.500 mm
Lifting capacity	:	160 kg
Platform dimensions	:	according layout
Pneumatic components in standard finish.		

G.3.11. Splash screen

Splash screen in front of the carcass splitting station.

Technical description

Stainless steel frame, with integrated stainless steel plates, which will be mounted on the floor and to the upper construction.



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Technical data

Height : 3.000 m
Width : 1.600 mm

Including anchor bolts and connection material to the conveyor.

G.3.12. Static platform - Head inspection

Stainless steel platform with removable plastic grid.

Technical description

The platform base consists of a frame with removable plastic floor grids, supported by legs.
The platform bottom has an open construction.

Technical data

Platform surface : according layout
Platform height : in accordance with work circumstances, maximum height 400 mm
Platform execution : Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
(Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain)

G.3.13. Static platform - Veterinary inspection carcass

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.
All water is collected in the gutter shaped bottom of the platform with a central drainage connection point.
The platform is executed with stairs for safe access.

Technical data

Platform dimensions : according layout
Platform height : in accordance with work circumstances
Platform execution : Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
(Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.14. Static platform - Veterinary inspection organs

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.
All water is collected in the gutter shaped bottom of the platform with a central drainage connection point.
The platform is executed with stairs for safe access.



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Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 2 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.3.15. Chute for condemned organs

For the collection of condemned red and white organs

Technical description

Stainless steel chute construction placed above the floor level. The chute bottom will be sloped toward one or more drainage points.

Technical data

Chute surface	:	approx. 3.5 m ²
No. of drainage points	:	1 pcs.
Under filling, side & floor finish	:	By building contractor

Chute will slide to the offal trough



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G.4. Final trimming and inspection area

G.4.1. Re-inspection rail

For the manual transport and storage of hooks with products

Technical description

Overhead rail, attached to support beams by means of flat steel consoles. All construction parts are galvanized before assembly.

Technical data

Rail type	:	2" rail plastic (2" synthetic top on steel profile)
Rail length	:	40 m
Support beam length	:	40 m
All steel parts	:	Hot-dip galvanized

The rail system is equipped with:

- Required rail curves;
- Required galvanized fastening materials;
- Required suspension support;
- 1 Pneumatic rail switch;

Condemned carcasses in BO cell will be manually removed

G.4.2. Hinged rail track, incl. hoist above container

System for the lifting and lowering of carcasses.

Technical description

The system consists of one hinged rail track. The rail track is on one side fastened with a hinge and the other side is fastened to the lifting tool. Hoist is included in the scope of supply

Technical data

Rail type	:	2" tube rail
Hinge	:	1x
Raising height	:	approx. 2 m

All steel parts are hot dip galvanised.

G.4.3. Static platform - Re-trim and re-inspection

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve



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- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.4.4. Static platform - Remove leaflard

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.4.5. Leaflard puller Jarvis (LLP-1), incl. suspension for manual tool

Leaflard puller Jarvis (LLP-1), incl. suspension

G.4.6. Static platform - Spinal cord

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)



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G.4.7. Static platform - Trimming + finishing

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.4.8. Static platform - Clean stickwound

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve
- 1 Knife decontamination unit for two butcher knives
 (Double jacket basin with knife holder for two knives, supply valve, flow regulator and drain valve)

G.4.9. Weighing scale 'RL7000'

Weighing Track for the Overhead Track Scale OHTS used within Meat Industry primarily made of galvanized steel.

Note:

If the scale is to be used in a certified process, then the customer needs to commission a notified body for an official certification at their own cost.

In motion Marel Track (JM0547B00)



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- In motion' weighing track supplied with:
- driven chain conveyor for faster transport of the hook with carcass so that it will be released from the conveyor carrier
- the carcass weight is determined during the transport over the chain conveyor

Weighing Scale RL7000 (JM0548A00)

- Used for weighing products while they are transported along the conveyor rail
- Used in Meat Industry
- Primarily made of stainless steel and other non-corrosive materials
- Maximum throughput depends on product pitch length, length of weighing beam and distance to centre of product
- Throughput decreases as the pitch length, weighing beam length and distance to centre of product increases

Including:

- Frame with weighing cell
- Weighing indicator M2400
- Cable between weighing cell and indicator

Weighing capacity 300 KG (JM0548B00)

Weighing capacity 300 kg, accuracy 0,1 kg

Weighing scale is not connected to a MES or other system.

G.4.10. Static platform - Classification

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

The platform bottom has an open construction.

The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve

G.4.11. Elevator for re-hang

TYPE: ELU-R

Technical description

The hooks/trolleys with products are moved by push fingers which are attached to a transport chain. The transport chain runs by means of guide rollers through a double U-shaped guide frame and is driven by a geared motor mounted on a tensioning station. Depending on the type the overhead rail is attached to the chain guide frames by means of flat steel consoles or a reinforced plate console. The whole welded construction is galvanized before assembly. The moving parts are covered within manual reaching distance. The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).



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Technical data

Elevating height /transport distance	:	10 m
Transport rail	:	Flat rail
U-shaped guide frame	:	UNP65
All steel construction parts	:	Hot-dip galvanized
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The basic elevator is equipped with:

- Required electric switches, compressed air control units and valves;
- Required supports to the suspension construction, up to 500 mm above the elevator top;
- Required galvanized, fastening materials;
- 1 Drive / tensioning station;
- 1 Encoder

G.4.12. Rehang station

Rehang station for rehang pig carcasses from gambrel sliding hook to the Maso Brejcha single flat rail hook.

Half carcasses will be positioned in front of the machine by the dressing conveyor. The machine will come forward to the carcass and brings both clamps around one of the carcass halves and clamps the carcass half. Hereafter the carcass halves will be lifted and will be loosened from the gambrel. The gambrel will stay in the conveyor (manual assistance can be required) and will be transported back to the gambrelling point via the return path of the dressing conveyor. The single flat rail hooks will be attached to the carcass manually by an operator. The machine will lower the carcass halves and will move backwards. Both halves are now suspended on single flat rail hooks and can be transported towards the cooling area.

The system consists of :

- 2 pcs movable arms with grip
- Guiding frame
- Suspension material
- Pneumatic components
- Fastening material
- System in galvanized execution
- Grips in stainless steel execution

G.4.13. Static platform - Re-hang

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

The platform bottom has an open construction.

The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve



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G.4.14. Static platform – Stamping

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.

The platform bottom has an open construction.

The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

G.4.15. Static platform – Cutt-in back

Not included in the scope of supply

G.4.16. Buffer rail, connection to existing

Declined rail for the buffering of hooks with carcasses before indexing into a conveyor.

Technical description

Overhead rail, attached to support beams by means of flat steel consoles.

Technical data

Rail type	:	Flat rail
Rail length	:	5 m
All steel parts	:	Hot-dip galvanized
Guiding bars/profiles	:	Stainless steel

The rail system is equipped with:

- Required galvanized fastening materials

G.4.17. Offal trough dressing and retrim line area

For the collection of drips and pieces during slaughtering.

Technical description

Stainless steel chute construction integrated in the floor construction. The chute bottom will be sloped toward one or more drainage points.

Technical data

Chute length	:	approx. 30 m
Chute width	:	approx. 800 mm
Drainage connections	:	5 pcs.
Under filling, side & floor finish	:	By building contractor

G.4.18. Flat rail track for leaflard racks, incl. elevator for empty hooks

For the transport and storage of trolleys with products. Track will be used for the supply of empty leaf lard racks and empty single flat rail hooks



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Technical description

Overhead rail with flat steel consoles, suitable to be mounted on support beams

Technical data

Rail type	:	2½x1½" 'black' flat bar rail with rounded top
Rail length	:	35 m
All steel parts (except rail)	:	Hot-dip galvanized

The rail system is equipped with:

- Required galvanized fastening materials
- 1 Rail switch
- Required curves
- 5m Elevator

G.4.19. Floor mounted apron washer (Push racks)

MACHINECODE: CM6501

To wash apron and to decontaminate knives between slaughter actions.

Technical description

Comprising a splash shield with water supply piping and water collecting reservoir covered with a removable plastic grating. The water flow is controlled by means of a mechanical or electrical activation. The unit is placed on the floor or integrated in the floor. Executed in stainless steel.

Technical data

Apron shower water supply	:	Hot 42°C
Knife sterilization water supply	:	Hot min. 82°C
Activation	:	Mechanical



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G.5. Gambrel return system

G.5.1. Gambrel return system

System to transport empty hooks back to the gambrelling point.

The top hooks lie directly on top of the transport chain and are located against each other while transported by the conveyor.

The conveyor loading is controlled by product detectors. The system is controlled by the PLC build in the central switch panel (not included in this item).

The system occasionally needs some manual support such as removing stuck and fallen hooks.

Technical data

Transport chain type	:	marine chain (horizontal) / roller chain (elevator)
Transport rail	:	no rail, hooks lie on top of the chain
Suspension support	:	up to 3 m. above conveyor frame
Drive	:	Painted
Electric components	:	Standard execution

The conveyors, in vertical construction, each existing of:

- 1 Drive station
- 1 Tensioning station, type spring
- Aluminium frame
- Conveyor chain, type marine chain (horizontal)/roller chain (elevator)
- Required limit switches and valves
- Required fastening material.

Components in the hook return & storage system:

- Hook return & storage elevator or conveyor	3x:	4 meters
- Hook return & storage elevator or conveyor	1x:	3 meters
- Hook return & storage buffer rail	1x:	3 meters

G.5.2. Rinsing cabin gambrels

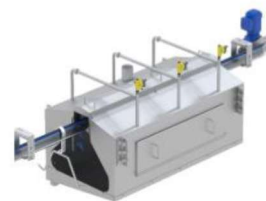
MACHINECODE: CM6515

For the rinsing of the gambrel placed into the return conveyor.

Description

The functioning of the Rinsing Unit is as follow:

1. The gambrels on the conveyor are transported through the Rinsing Unit.
2. A proximity switch on the conveyor indicates that a gambrel is approaching.
3. Once a gambrel is detected on the conveyor, it first get sprayed with cold water in the cabin for pre-washing.
4. The gambrels then are rinsed by hot water of at least 82°C (180°F).
5. The final step in the spraying system is rinsing with clean cold water.
6. The gambrel is now rinsed and ready to be used again.



The Rinsing Unit consists of:

- Cabin
- Spraying system
- Dripping gutter

G.5.3. Slide hook with gambrel

Galvanised sliding hook with a rotatable stainless steel gambrel for pigs underneath.



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G.6. By-product transport

G.6.1. Compressed air conveyor for hair, incl. 55m piping

System for conveying slaughter material through a tank and pipe system with the aid of compressed air.

Technical description

All stainless steel collection tank with filling funnel and pneumatically operated shut-off valve.

The collection tank is fully or partially grouted into the floor or placed in a prepared pit.

The required suspension supports and fastening material are galvanized.

Technical data

Collection tank and filling funnel

Tank capacity : 50 litre

Shut-off valve : shut-off valve with pneumatic cylinder

Shut-off valve diameter : 350 mm

Electrical control system : manual and automatic operation with adjustable timer

Electrical and pneumatic components in standard construction.

Electricity and compressed air connections not included.

Constructional work not included.

Piping

TYPE : RMSCAS

For the transport of soft side- or waste products from a compressed air conveying tank to collecting silos or containers.

Technical description

Stainless steel pipe line with curves and suspension supports.

Technical data

Transport pipe : Ø 150 mm

Transport pipe length : 55 m

Decompression cyclone : 1 pc.

G.6.2. Compressed air conveyor for manure, incl. 42m piping

Not included in the scope of supply

G.6.3. Compressed air conveyor for confiscate (1) incl. 45m piping

Not included in the scope of supply

G.6.4. Compressed air conveyor for confiscate (2) incl. 38m piping

Not included in the scope of supply



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G.6.5. Vacuum suction system (incl. 5 suction points)

Vacuum suction system

- 1 for the transport of soft side- or waste products from various positions throughout the meat plant to collecting silo's or containers
- depending the type and volume of the to be transported product(s) the vacuum system can be executed with one or more collecting funnels
- vacuum pump takes care of the vacuum in accumulation tank, the receiver cyclone and transport piping up to various suction points
- intervals between suction cycles and following order of funnels to be emptied is organized by the software in the PLC

The system is equipped with:

- 5 Suction points
- 110 Meter of piping 150 mm
- 29 Bend(s) 45°
- 5 Y-piece(s)
- 1 Aerator to open the gate valve of the extraction point until the waste clot arrives in the main pipeline during a suction cycle from an extraction point



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G.7. Red organ chill conveyor

G.7.1. Static platform – Transfer red organ

Stainless steel static work platform for safe and ergonomic working position.

Technical description

The platform base consists of a frame with raised kick protection edge and removable plastic floor grids, supported by floor mounted columns. This construction allows, within limits, height adjustment of the platform. Where necessary guard rails are installed along the platform edges.
 All water is collected in the gutter shaped bottom of the platform with a central drainage connection point. The platform is executed with stairs for safe access.

Technical data

Platform dimensions	:	according layout
Platform height	:	in accordance with work circumstances
Platform execution	:	Stainless steel

The platform will be equipped with:

- 1 Apron- & hand wash shower with foot controlled valve

G.7.2. Spray cabin for red organs

Cabin with sprayers to spray the red organs, mounted in the red organ conveyor just before entering the red organ area.

Technical data:

Length	:	approx.	2.000 mm
Width	:	approx.	600 mm
Height	:	approx.	1.000 mm

Cabin in stainless steel execution.



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G.7.3. Red organ quick chill conveyor

Red organ quick chill conveyor.

Technical description

The organ hooks with products are moved by carrier hooks which are attached to a transport chain. The transport chain is driven by a geared motor and tensioned by a pneumatically powered tensioning station. In the horizontal curves the chain is guided by sprockets. The drive and other conveyor operation functions are controlled by the PLC built in the central switch panel (not included in this item).

Technical data

Transport chain length	:	130 meters
No. of drives	:	1 pcs.
Transport chain type	:	Double hinged chain, with carrier hooks
Conveyor curve guiding	:	18 pcs. of, sprockets
Drive	:	Painted
Electric & pneumatic components	:	Standard execution

The conveyor is equipped with:

- 1 Drive station with geared motor;
- 1 Tensioning station;
- Required support to the main beams up to 500mm above the conveyor frame is included;
- Required electric switches, compressed air control units and valves;
- Required galvanized, fastening materials.
- 1 Encoder
- 1 chain lubricator - consists of a lubricating wheel, oil pump with control panel and reservoir including 22 litres of oil
- 640 Organ package carrier hook



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G.8. Optional items

G.8.1. Citrate dosing unit (not included)

Not included in the scope of supply

G.8.2. Scalding tank cover

Covers the open top of the pull through scalding tank.

Covering the open top of a pull through scalding tank prevents the evaporation of scalding water thus saving energy and preventing condensation forming in the surroundings.

Technical description

Stainless steel plate cover mounted on top and along one side of the suspension portals above the scalding tank. Hinged cover panels along the transport conveyor side allow access to the interior for cleaning and maintenance purposes. The hinged panels are executed to be lifted automatically.

Technical data

Cover length : approx. 22 m

G.8.3. New generation drip lubrication unit

Suitable for the lubrication of conveyor chains.

Correct use of the unit ensures an improved technical condition of the chain, which decreases unexpected production delays, causes a longer economical lifespan and reduces maintenance costs. Time and duration of the lubrication are adjustable.

Technical description

The unit consists of a high pressure air "blow off" unit, a stainless steel housing with lubrication section and an oil reservoir. The oil is heated to maintain the correct viscosity. The chain is lubricated by dripping oil on the pivot points of the chain. Superfluous oil is collected in the bottom of the housing. The unit is controlled via the central switch panel (not included in this item). Lubrication can only take place at a temperature above 0 degrees Celsius

Technical specifications

Overall dimensions : 1.000 x 500 x 800 mm (length x width x height)
 Volume oil reservoir : 10 liter

Advantages of this high pressure oiling system:

- Only dripping oil instead of spraying, so oil will come exactly into the chain links. Saving on oil.
- No oil mist, so no pollution of the area.
- The lubrication unit is controlled by the PLC and will be programmed differently (where to drip oil and the amount of oil) for each chain to get the optimal performance. Thus saving life of the chain.
- Unit has an oil level indicator that is recorded by the PLC.
- Due to the exact dripping of oil on the chain, less drips of oil on the carcass.