

## **The 50cattle per day abattoir equipment quotation**



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# **Qingdao Empire Machinery Co., Ltd (EME)**

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**I、 The cattle abattoir project proposal brief introduce**

**1.1 Cattle abattoir project main data**

- |      |  |                            |
|------|--|----------------------------|
| 1).  | Design capacity:-----  | 50 Cattle Per day          |
| 2).  | Cattle abattoir plant out size (LXWXH)-----                                | 63000 X 18000 X 6500MM     |
| 3).  | Installation and debugging technicians salary-----                         | USD 100 (Shift/Person)     |
| 4).  | Voltage rating-----  | 380V / 3P / 50HZ           |
| 5).  | Deliver period in China -----  | 30Days                     |
|      | The delivery as per buyer's down-payment value have been received in China |                            |
| 6).  | Installation and debugging technicians-----                                | 3Person                    |
| 7).  | Installation and debugging period-----                                     | 30Days                     |
| 8).  | Electric power-----  | 282Kw/Hour                 |
| 9).  | Water consumption-----   | 20-30M <sup>3</sup> /Shift |
| 10). | Slaughterhouse worker-----   | 20-30Person/Shift          |

1.2 Quality standard: the equipment are in compliance with the related ISO9001: 2008 standard

1.3 Design religion: base on Islamic Halal OR international standard slaughtering tradition

1.4 Deliver Items: FOB

- ✓ Loading port: Qingdao port of China

1.5 Transportation way: the complete cattle abattoir equipment need two piece 40GP containers for transportation by sea

1.6 Packaging standard: original factory packaging loading in container

1.7 Payment way: the total invoice value will be payment as two time, the detail as following:

- ✓ The down-payment 40% of total invoice value will be payment within 10days from sale contract signature date through telegraphic transfer
- ✓ The rest 60% of total invoice value will be payment through telegraphic transfer before all equipment deliver from Qingdao port of China, meanwhile the seller party will invite buyer send one representative come to factory for equipment checking before loading into container for shipment Quality Guarantee: The quality guarantee period of all equipment is 12 months since the date when the installation and debug have been complete, the equipment are made available to buyer and signature is made on the Buyer' s Completed Bill.

1.8 Quality guarantee: the quality guarantee period of all equipment are 12 months since the date when the installation and debug have been complete, the equipment are made available to buyer and signature is made on the buyer' s completed bill.

1.9 Machinery maintaining: The seller will appoint one well skilled technician go to maintain the equipment for five workdays for buyer per each 6 month within Quality Guarantee Period, the buyer charge the accommodation and round-trip air tickets of technician, the salary of technicians charge free.

1.10 Installation and debugging remark:

- ✓ The total quotation have include equipment installation and debugging direction salary and not include international round-trip air tickets、 accommodation and transport cost of technicians in buyer country
- ✓ The installation & debugging time will be postponed caused by buyer which make equipment can' t installation in time, the buyer should payment salary to technicians \$100 us dollar per technicians per shift for postponed time

1.11 Auxiliary Device Remark:

- ✓ Livestock abattoir electric cable: the electric cable from machine to electric cabinet have include in quotation , but the electric cable from electric controlling cabinet to stated grid not include in quotation which will supply by buyer himself according to abattoir located condition

- ✓ Livestock abattoir hot water ex-changer: the hot water heating boiler have included in total quotation for livestock abattoir
- ✓ Livestock abattoir blood processing systems: the total quotation not include the livestock blood drying systems (if the buyer require the blood drying system equipment, the buyer need special note the seller for quotation)
- ✓ Livestock abattoir sewage (waste water) treatment systems: the total quotation not include anything for livestock abattoir sewage treatment, (if the buyer require sewage treatment machine then the buyer need special note the seller for quotation)

1.12 The 100cattle per day extension equipment list:

1) Living cattle pneumatic stunner-----	1Set
2) Cattle horn and hoof hydraulic shear-----	1Set
3) Cattle bleeding shackle-----	10Sets
4) Cattle hind hoof hydraulic shear-----	1Set
5) Cattle head open hydraulic saw-----	1Set
6) Hoof scalding tank-----	1Set
7) Hoof de-hairing machine-----	1Set
8) Cattle skinning automatic knife-----	2Set
9) Cattle skin transfer trolley-----	1Set
10) Carcass re-inspect platform-----	1Set
11) Cattle white viscera cleaning and inspection table-----	2Set
12) By-products treating table-----	1Set
13) Cattle carcass automatic cleaning machine-----	1Set
14) Carcass cleaning convey machine-----	1Set
15) Tube rail pulley hook-----	100Sets
16) Hook transfer trolley-----	1Set
17) Cattle carcass manual convey rail-----	65M
18) Carcass cutting baffle-----	1Set
19) Carcass segmented cut saw-----	1Set
20) Single layer belt convey machine-----	1Set
21) Boneless table-----	5Sets
22) Trimming and packaging table-----	1Set
23) Rotary pigeonholes table-----	1Set
24) Standard trolley-----	2Sets
25) Boneless knife-----	10Sets

**II、Cattle abattoir equipment price list:**

No.	Items	Model	Unit	Qty
<b>2.1、Living cattle killing processing unit</b>				
1.1	Living cattle stunning box	QE-C103-II	Set	1
1.2	Safe fixed pile	QE-C104	Set	16
1.3	Cattle carcass vertical hoist	QE-C109-I	Set	1
1.4	Cattle carcass bleeding manual convey rail	QE-C110-II	M	12
1.5	Cattle bleeding shackle	QE-C114	Set	15
1.6	Cattle carcass electric transfer hoist	QE-C201-II	Set	1
1.7	Cattle carcass re-hanging platform	QE-205-I	Set	1
1.8	Hoof sliding chute	QE-C206	Set	1
1.9	Standard trolley	QE-L123	Set	2
1.10	By-products treating table	QE-C224-III	Set	1
1.11	Cattle bleeding shackle recycling rail	QE-C112	M	12
<b>2.2、Cattle carcass processing unit</b>				
2.1	Cattle carcass manual convey rail	QE-C217-II	M	30
2.2	Cattle carcass breast skinning platform	QE-C211-I	Set	1
2.3	Cattle carcass automatic convey system (Five-Unit)	QE-C217-I	Set	1
2.4	Tube rail pulley hook	QE-C238-I	Set	50
2.5	Cattle skinning elevator	QE-C214-II	Set	2
2.6	Cattle skin hydraulic puller	QE-C212	Set	1
2.7	Cattle skin transfer trolley	QE-C216-II	Set	1
2.8	Cattle fore legs fixed stake	QE-C215-II	Set	1
2.9	Cattle breast bone cut platform	QE-C221-I	Set	1
2.10	Reciprocating cattle breast bone cut saw	QE-C220-II	Set	1
2.11	Breast bone cut saw sterilizing device	QE-C220-IV	Set	1
2.12	White viscera removed platform	QE-C221-II	Set	1
2.13	Cattle white viscera sliding trough(3m)	QE-C223-I	Set	1
2.14	Grid type white viscera separate table	QE-C223-III	Set	1
2.15	Cattle white viscera cleaning and inspection table	QE-C223-IV	Set	3
2.16	Cattle stomach cleaning machine	QE-C225	Set	1
2.17	Red viscera removed platform	QE-C221-III	Set	1
2.18	Head and red viscera transfer trolley	QE-C229-I	Set	2
2.19	Cattle carcass splitting cutting elevator	QE-C233	Set	1
2.20	Cattle carcass band splitting saw	QE-C230-I	Set	1
2.21	Band splitting saw sterilizing	QE-C230-III	Set	1
2.22	Carcass splitting prevention screen	QE-C234	Set	1
2.23	Carcass inspect and trimming platform	QE-C221-VI	Set	1
2.24	Carcass rail weight system	QE-C235	Set	1
2.25	Carcass manual cleaning machine	QE-C236-III	Set	1
2.26	Standard trolley	QE-L123	Set	3
2.27	Hand washing and knife sterilizing device	QE-L202	Set	2
<b>2.3、Cattle carcass quarter cutting and chilling and boneless equipment unit</b>				
3.1	Cattle carcass manual convey rail (Quarter carcass cutting, chilling, boneless)	QE-C301-II	M	145
3.2	Tube rail pulley hook	QE-C238-I	Set	200

3.3	Quarter carcass slope lifting machine	QE-C302-I	Set	1
3.4	Quarter carcass slope unloading machine	QE-C302-II	Set	1
3.5	Quarter carcass reciprocating cut saw (Original: Germany)	QE-C303-II	Set	1
3.6	Quarter carcass cut saw sterilizing device	QE-C303-III	Set	1
3.7	Carcass rail weight system	QE-C235	Set	1
3.8	Half carcass delivery descend machine	QE-C305-II	Set	1
3.9	Boneless table	QE-L102	Set	7
3.10	Trimming and packaging table	QE-L103	Set	1
3.11	Vacuum packaging machine (DZ-6)	QE-L116-I	Set	1
3.12	Quarter carcass rail weight scale	QE-C304	Set	1
3.13	Quarter carcass deliver unloading machine	QE-C302-IV	Set	1
3.14	Hook transfer trolley	QE-C239	Set	2
3.15	Standard trolley	QE-L123	Set	2
3.16	Livestock killing knife	QE-L112	Set	2
3.17	Boneless knife	QE-L113-I	Set	20
3.18	Knife sharper	QE-L113-II	Set	5
3.19	SS gloves	QE-L114	Set	2
<b>2.4、cattle abattoir installation auxiliary material and direction technicians unit</b>				
4.1	Cattle abattoir equipment air compressor	QE-TD205	Set	1
4.2	Electric steam boiler and water softening equipment	QE-LB01	Set	1
4.3	Cattle abattoir electric cable	QE-L207	Set	1
4.4	Equipment main support and hanging material	QE-C403	Ton	13
4.5	Equipment installation suspension parts	QE-C404	Ton	3
4.6	Cattle abattoir installation tools	QE-L208	Set	1
4.7	Cattle abattoir cleaning machine	QE-L205	Set	1
4.8	Electric control cabinet	QE-C240-II	Set	1
4.9	Livestock abattoir incinerator(0.3T)	QE-L305-I	Set	1

### III、 The cattle abattoir equipment specification:

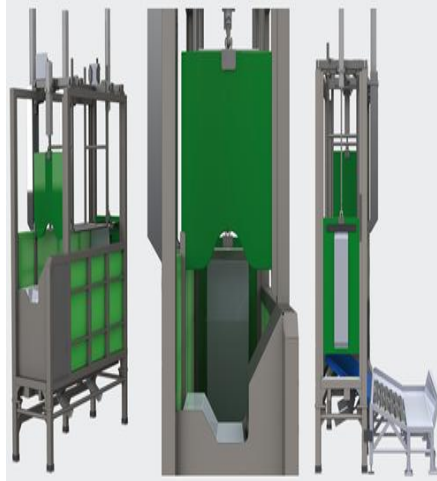
#### 2.1、 Living cattle killing processing unit

##### 1.1 Living cattle stunning box-----1Set

**Model: QE-C103-II**

Which main used to limited the living cattle head for stunning and installation on floor with expansion screw bolt, main data as following:

- 1)-Design principle: pneumatic
- 2)-Max capacity: 60cattle per hour
- 3)-Work pressure:0.6-0.8Mpa
- 4)-Air consume: 630L/ Time
- 5)-Components and material:
  - ✓ Hot galvanized main structure
  - ✓ Cattle entrance push device
  - ✓ Head clamping device
  - ✓ Side door lifting device
  - ✓ Bottom overturn plate device
  - ✓ Aluminum alloy cylinder
  - ✓ Pneumatic control box
  - ✓ Poly-amide plate



##### 1.2 Safe fixed pile-----16Sets

**Model: QE-C104**

Which main used to fixed around of the killing box and avoid the cattle escape and hurt staff, main data as following:

- 1)-Out size:  $\phi$  120\*1400 mm
- 2)-Material: hot galvanized steel
- 3)-Installation distance: 400mm



##### 1.3 Cattle carcass bleeding vertical hoist-----1Set

**Model: QE-C109-I**

Which main used to lift cattle carcass from killing box to over head convey rail for killing and bleeding, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 3Kw
- 3)-Hoisting ability: 2000kg
- 4)-Lifting height:6M
- 5)- Lifting speed:8m/min
- 6)-Max capacity: 40 Heads per hour
- 7)-Component and material:
  - ✓ Electric hoist
  - ✓ Automatic hanging device
  - ✓ Heavy hook
  - ✓ Low pressure control switches
  - ✓ Hot galvanized steel main frame

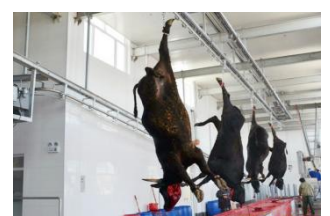


##### 1.4 Cattle carcass bleeding manual convey rail-----12M

**Model: QE-C110-II**

Which main used to hang cattle over head and manual convey for bleeding, main data as following:

- 1)-Rail Height: 4.2-5m
- 2)-Capacity: 30 Heads per hour
- 3)-Component and material:
  - ✓ Hot galvanized 12# double channel steel



- ✓ Hot galvanized special hanger
- ✓  $\phi 60 \times 4$ mm 304Stainless steel orbit
- ✓ Hot galvanized hanger, Distance 600mm
- ✓ Connecting bolt

**1.5 Cattle bleeding shackle-----15Sets**

**Model: QE-C114**

Which main used to tie cattle feet and hang on convey rail for bleeding, main data as following:

- 1)-Length: 1000mm
- 2)-Max loading weight: 2000kg
- 1)-Component and material:

- ✓ Hot galvanized hanger and roller
- ✓ 304Stainless steel shackle



**1.6 Cattle carcass electric transfer hoist-----1Set**

**Model: QE-C201-II**

Which main used to lift cattle carcass from bleeding convey rail to carcass processing convey rail, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 1.5Kw
- 3)-Lifting height::4M
- 4)-Lifting speed:8m/min
- 5)-Max capacity: 45 Heads per hour

1)-Component and material:

- ✓ Electric hoist
- ✓ Limit device
- ✓ Low pressure control switches
- ✓ Electric control box
- ✓ Hoisting ability: 1000kg
- ✓ Hot galvanized steel main frame



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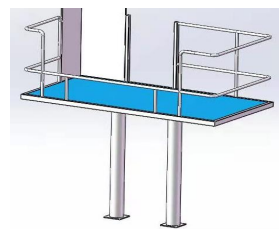
**1.7 Cattle carcass re-hanging platform-----1Set**

**Model: QE-C205-I**

Which main used to fixed under over head convey rail for cattle carcass re-hang from bleeding convey rail to carcass processing rail, main data as following:

- 1)-Out size: 1800X1000X600mm (LXWXH)
- 2)-Component and material:

- ✓  $\phi 159$ mm hot galvanized steel pipe support
- ✓ 60\*40\*2mm hot galvanized steel frame
- ✓ 25mm Anti-skid plastic square
- ✓ 304Stainless steel ladder and handrail



**1.8 Hoof sliding chute-----1Set**

**Model: QE-C206**

Which main used to hind hooves slides down from the high position to the standard trolley for belt conveyor, main data as following:

- 1)-Out size:  $\phi 350 \times 2400$ mm(DXL)
- 2)-Thickness :2mm
- 3)-Material: SS304



**1.9 Standard trolley-----2Sets**

**Model: QE-L123**

Which main used to collect livestock by-product and meat transfer to appoint area for treat or storage, main data as following:

- 1)-Volume:200L
- 2)-Out size: 600X600X600mm(LXWXH)
- 3)-Component and material:
  - ✓ 2mm 304Stainless steel tank
  - ✓ Bottom fillet structure
  - ✓ 4pcs Strongly nylon wheel



**1.10 By-products treating table-----1Set**

**Model: QE-C224-III**

Which main used to collection and treat cattle hooves, skin, tail, main data as following:

- 1)-Out size: 1800X900X800mm(LXWXH)
- 2)-Component and material:
  - ✓ 38\*38\*2mm 304Stainless steel square pipe
  - ✓ 2mm 304Stainless steel plate
  - ✓ Faucet and pipe
  - ✓ 304Stainless steel adjusting foot



**1.11 Cattle bleeding shackle recycling rail-----12M**

**Model: QE-C112**

Which main used for idle bleeding shackle sliding back to lifting machine position, main data as following:

- 1)-Rail Height: 1.5-5m
- 2)-Component and material:
  - ✓ Hot galvanized 12# double channel steel
  - ✓ Hot galvanized special hanger
  - ✓ φ60\*4mm 304Stainless steel orbit
  - ✓ Hot galvanized hanger, Distance 600mm
  - ✓ Connecting bolt



**2.2、Cattle carcass processing unit**

**2.1 Cattle carcass manual convey rail-----30M**

**Model: QE-C217-II**

Which main used to manual convey cattle carcass for breast skinning, skin removed,breastbone cutting, evisceration ,half carcass splitting ,carcass inspection , trimming ,cleaning and so on,

- 1)-Rail Height: 3.6m
- 2)-Max capacity: 30 Heads per hour
- 3)-Component and material:
  - ✓ Hot galvanized steel 12# double channel steel
  - ✓ φ60\*4mm 304Stainless steel orbit
  - ✓ Hot galvanized hanger, Distance 600mm
  - ✓ Connecting bolt

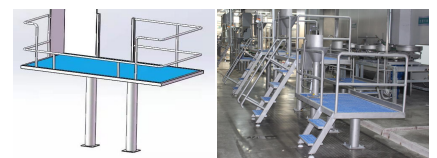


**2.2 Cattle carcass breast skinning platform-----1Set**

**Model: QE-C211-I**

Which main used to assist workers convenient to brisket skinning, main data as following:

- 1)-Out size: 2000X1000X2000mm (LXWXH)
- 2)-Component and material:
  - ✓ φ 159mm hot galvanized steel pipe support
  - ✓ 60\*40\*2mm hot galvanized steel frame
  - ✓ 25mm Anti-skid plastic square





- ✓ 304Stainless steel ladder and handrail

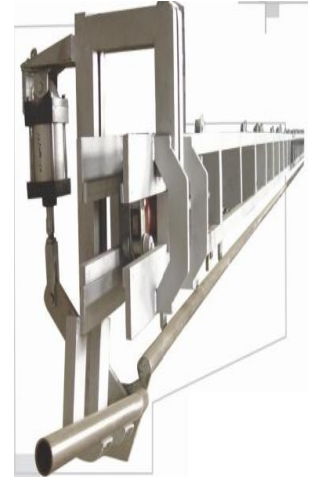
**2.3 Cattle carcass automatic convey system (Five-Unit)-----1Set**

**Model: QE-C217-I**

Which main used to automatic convey cattle carcass for breast skinning, skin removed,breastbone cutting, evisceration ,half carcass splitting ,carcass inspection , trimming ,cleaning and so on, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 2.2Kw
- 3)-Length: 12000mm
- 4)-Number of stations: 5units
- 5)-Distance of work position: 2200mm
- 6)-PLC control , the working position stop time is available adjust
- 7)-Air consume: 89L/Time
- 8)-Capacity:60 heads per hour
- 9)-Component and material:

- ✓ Closed hot galvanized roller track
- ✓ Hot galvanized chain, high polymer wear-resistant roller
- ✓ Primary pneumatic leg separated device (Distance: 500mm)
- ✓ Second pneumatic leg separated device (Distance: 1000mm)
- ✓ Pneumatic lifting device
- ✓ Operation alarm device
- ✓ φ60\*4mm 304Stainless steel orbit



**2.4 Tube rail pulley hook-----50Sets**

**Model: QE-C238-I**

Which main used to hang cattle carcass for slaughtering process, main data as following:

- 1)-Weight: About 3.78kg
- 2)-Out Size: 480X80X70mm (LXWXH)
- 3)-Tube Diameter: 40-60mm
- 4)-Carrying Capacity: 1500Kg
- 5)-Component and material:

- ✓ 304Stainless steel precision casting hanger
- ✓ H225 refined steel casting,surface hot galvanized
- ✓ φ22mm 304Stainless steel hooks
- ✓ Roller with 2pcs sealed bearings



**2.5 Cattle skinning elevator-----2Sets**

**Model: QE-C214-II**

Which main used to support staffs assistant skin puller to removed skin from carcass, main data as following:

- 1)-Out size: 1000X800X3800mm (LXWXH)
- 2)-Lifting height:1600mm
- 3)-Work pressure:0.6-0.8Mpa
- 4)-Air consume: 185L/Time
- 5)-Elevating ability: 125Kg
- 3)-Component and material:

- ✓ Hot galvanized steel main support pillar
- ✓ 60\*40\*2mm hot galvanized steel frame
- ✓ 25mm Anti-skid plastic square
- ✓ 304Stainless steel ladder and handrail
- ✓ 304Stainless steel water receiving tray



- ✓ Guide water column
- ✓ Aluminum alloy cylinder
- ✓ Pneumatic control system
- ✓ Apron cleaning device
- ✓ Hand washing and knives sterilizing device

**2.6 Cattle skin hydraulic puller-----1Set**

**Model: QE-C212**

Which main used to removed the skin from cattle carcass and fixed on floor and connect with convey rail, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 5.5+2.2kw
- 3)-Work principle: hydraulic
- 4)-Hydraulic cylinder stroke:2.2m
- 5)-Work pressure:6Mpa
- 6)-Max capacity:60cattle/h
- 7)-Component and material:

- ✓ Hot galvanized steel support pillar
- ✓ Oil cylinder
- ✓ 304Stainless steel hide roller and chain
- ✓ Hydraulic pressure station
- ✓ Hydraulic control system and soft pipe
- ✓ Low pressure control switches



**2.7 Cattle skin transfer trolley-----1Set**

**Model: QE-C216-II**

Which main used to collect and take the cattle skin from slaughter area to appoint area for further treatment, main data as following:

- 1)-Out size: 1000X600X300mm (LXWXH)
- 2)-Component and material:
  - ✓ 50\*50\*2mm 304Stainless steel 304 frame
  - ✓ 2mm 304Stainless steel 304 plate
  - ✓ 4pcs Strongly nylon wheel



**2.8 Cattle fore legs fixed stake-----1Set**

**Model: QE-C215-II**

Which main used to fixed the fore legs with stainless chain to keep the carcass from moving during skin removed, main data as following:

- 1)-Out size: 800X240X1400mm (LXWXH)
- 2)-Component and material:
  - ✓ 80\*80\*2mm hot galvanized steel square tube
  - ✓ 304Stainless steel chain

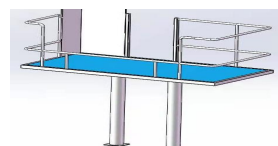


**2.9 Cattle breast bone cut platform-----1Set**

**Model: QE-C221-I**

Which main used to support staffs for cattle breast bone cut for evisceration, main data as following:

- 1)-Out size: 2000X1000X800mm (LXWXH)
- 2)-Component and material:
  - ✓  $\phi$  159mm hot galvanized steel pipe support
  - ✓ 60\*40\*2mm hot galvanized steel frame
  - ✓ 25mm Anti-skid plastic square
  - ✓ 304Stainless steel ladder and handrail



**2.10 Reciprocating cattle breast bone cut saw(Original China)-----1Set**

**Model: QE-C220-II**

Which main used to cut cattle carcass breast bone for further evisceration, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 1.1Kw
- 3)-Blade length:300mm
- 4)-Weight:32kg
- 5)-Component and material:

- ✓ Balance
- ✓ Transformer



**2.11 Breast bone cut saw sterilizing device-----1Set**

**Model: QE-C116-IV**

Which main used for breast bone cut saw sterilizing, main data as following:

- 1)-Out size: 660X360X800mm(LXWXH)
- 2)-Material: stainless steel

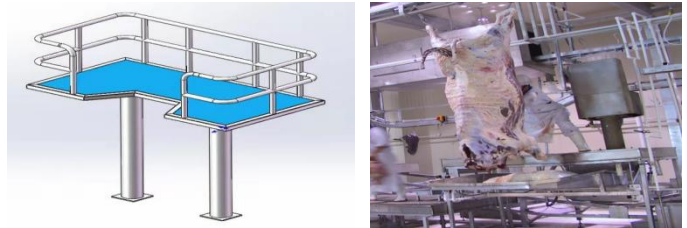


**2.12 White viscera removed platform-----1Set**

**Model: QE-C221-II**

Which main used to support worker evisceration white viscera, the detail data as following:

- 1)-Out size: 2000X1000X1350mm(LXWXH)
- 2)-Component and material:
- ✓  $\phi$  159mm hot galvanized steel pipe support
- ✓ 60\*40\*2mm hot galvanized steel frame
- ✓ 25mm Anti-skid plastic square
- ✓ 304Stainless steel ladder and handrail



**2.13 Cattle white viscera sliding trough-----1Set**

**Model: QE-C223-I**

Which main used to collection and slide to white viscera treatment area, the detail data as following:

- 1)-Out size: 3000X1200/750mm(LXW)
- 2)-Thickness :2mm
- 3)-Component and material:304Stainless steel



**2.14 Grid type white viscera separate table-----1Set**

**Model: QE-C223-III**

Which main used to collection white viscera and separate each other, the detail data as following:

- 1)-Out size: 2400X1000X800mm(LXWXH)
- 2)-Deep:200mm
- 3)-Component and material:
- ✓ 38\*38\*2mm 304Stainless steel square pipe
- ✓ 304Stainless steel table-board
- ✓ Drain hole
- ✓ 304Stainless steel adjusting foot



**2.15 Cattle white viscera cleaning and inspection table-----3Sets**

**Model: QE-C223-IV**

Which main used to collection cattle white viscera from convey machine for cleaning and inspection, the detail data as following:

- 1)-Out size: 1500X1000X900mm(LXWXH)
- 2)-Deep:100mm
- 3)-Component and material:



- ✓ 38\*38\*2mm 304Stainless steel square pipe
- ✓ 304Stainless steel table-board
- ✓ Drain hole
- ✓ 304Stainless steel adjusting foot

**2.16 Cattle stomach cleaning machine-----1Set**

**Model: QE-C225**

Which main used to cleaning the dirty inside of stomach, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 4+5.5Kw
- 3)-High and low speed cross operation
- 4)-Water temperature: 55-60℃
- 5)-Capacity: 60pcs cattle tripe per hour
- 6)-Component and material:

- ✓ 304Stainless steel frame base
- ✓ 304Stainless steel barrel type washing chamber
- ✓ 304Stainless steel circular rotary grid
- ✓ Set hot and cold water inlet pipe at the side
- ✓ Drain hole at the bottom
- ✓ 304Stainless steel waterproof electric control box



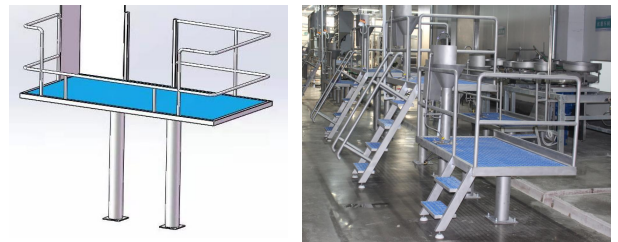
**2.17 Red viscera removed platform-----1Set**

**Model: QE-C221-III**

Which main used to support worker evisceration red viscera, the detail data as following:

- 1)-Out size: 2000X1500X1000mm(LXWXH)
- 2)-Component and material:

- ✓  $\phi$  159mm hot galvanized steel pipe support
- ✓ 60\*40\*2mm hot galvanized steel frame
- ✓ 25mm Anti-skid plastic square
- ✓ 304Stainless steel ladder and handrail



**2.18 Head and red viscera transfer trolley-----2Sets**

**Model: QE-C229-I**

Which main used to collection cattle red viscera and transfer to storage room, main data as following:

- 1)-Size:1500X800X1600mm(LXWXH)
- 2)-Capacity: 54pcs hanger
- 3)-Component and material:

- ✓ 38\*38\*2mm 304Stainless steel frame
- ✓ 12mm 304Stainless steel red offal hook
- ✓ 1.5mm 304Stainless steel bottom tray
- ✓ 4pcs nylon roller(2pcs Omni-directional wheel)



**2.19 Cattle carcass band splitting elevator-----1Set**

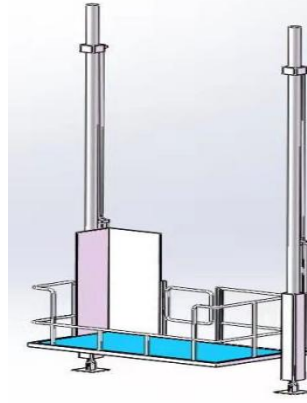
**Model: QE-C233**

Which main used to support staffs for splitting、inspection、spinal cord、trimming and fixed on floor and connect with carcass convey rail, main data as following:

- 1)-Out size: 2000X1000X3800mm (LXWXH)
- 2)-Lifting height:1600mm
- 3)-Work pressure:0.6-0.8Mpa
- 4)-Air consume: 370L/Time
- 5)-Elevating ability: 250Kg

6)-Component and material:

- ✓ Hot galvanized steel main support pillar
- ✓ 60\*40\*2mm hot galvanized steel frame
- ✓ 25mm Anti-skid plastic square
- ✓ 304Stainless steel ladder and handrail
- ✓ 304Stainless steel water receiving tray
- ✓ Guide water column
- ✓ Aluminum alloy cylinder
- ✓ Pneumatic control system
- ✓ Apron cleaning device
- ✓ Hand washing and knives sterilizing device

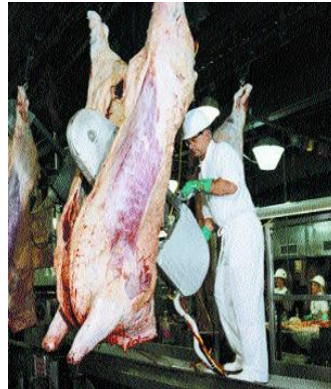


**2.20 Cattle carcass band splitting saw(Original: China)-----1Set**

**Model: QE-C230-I**

Which main used to cut cattle carcass into two pieces along the spine and suspended under the steel beam by balance, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 2.2Kw
- 3)-Out size: 1300X400X500mm(LXWXH)
- 4)-Blade length:3100mm
- 5)-Cutting depth: 500mm
- 6)-Weight:89kg



7)-Component and material:

- ✓ Balance
- ✓ Transformer
- ✓ 10pcs saw blade

**2.21 Band splitting saw sterilizing-----1Set**

**Model: QE-C230-III**

Which main used for cattle carcass band splitting saw sterilizing with hot water, main data as following:

- 1)-Size:1200X360X150mm(LXWXH)
- 2)-Material: stainless steel



**2.22 Carcass splitting prevention screen-----1Set**

**Model: QE-C234**

Which main used to prevent water and minced meat splash when splitting cattle carcass, main data as following:

- 1)-Size:3500\*1550mm(W\*H)
- 2)-Component and material:
  - ✓ 50\*50\*2mm 304Stainless steel pillar
  - ✓ 2mm 304Stainless steel plate

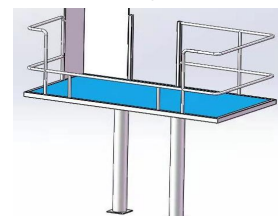


**2.23 Carcass inspect and trimming platform-----1Set**

**Model: QE-C221-VI**

Which main used to support staffs for cattle carcass inspection, the detail data as following:

- 1)-Out size: 2000X1000X1200mm(LXWXH)
- 2)-Component and material:
  - ✓ φ 159mm hot galvanized steel pipe support
  - ✓ 60\*40\*2mm hot galvanized steel frame
  - ✓ 25mm Anti-skid plastic square



- ✓ 304Stainless steel ladder and handrail

**2.24 Carcass rail weight system-----1Set**

**Model: QE-C235**

Which main used to scaling the carcass on convey rail after carcass processing or before dispatching, main data as following:

- 1)-Weight rail length: 1000 mm
- 2)-Maximum Weight: 600 Kg
- 3)-Differentiate Capacity: 50g
- 4)-Component and material:
  - ✓ Hot dip galvanized connectors and bolts
  - ✓ φ60\*4mm independent 304Stainless steel weighing rail
  - ✓ 2pcs high precision sensors
  - ✓ Weighing display with printer
  - ✓ LCD digital display



**2.25 Carcass manual cleaning machine-----1Set**

**Model: QE-C236-III**

Which is used to cleaning cattle half carcass by high pressure water, the detail data as following:

- 1)-Power mode:3-phase electric
- 2)-Include:15m high pressure explosion-proof steel wire pipe
  - ✓ Copper tube high pressure gun
  - ✓ High density filter
  - ✓ 5m water inlet PVC pipe
- 3)-Technical parameters:
  - ✓ Power: 2.2Kw
  - ✓ Rate of flow: 13L/Min
  - ✓ Max pressure:18Mpa Power mode:3-phase electric
- 4)-Include:15m high pressure explosion-proof steel wire pipe
  - ✓ Copper tube high pressure gun
  - ✓ High density filter
  - ✓ 5m water inlet PVC pipe
- 5)-Technical parameters:
  - ✓ Power: 2.2Kw
  - ✓ Rate of flow: 13L/Min
  - ✓ Max pressure:18Mpa



**2.26 Standard trolley-----3Sets**

**Model: QE-L123**

Which main used to collect livestock by-product and meat transfer to appoint area for treat or storage, main data as following:

- 1)-Volume:200L
- 2)-Out size: 600X600X600mm(LXWXH)
- 3)-Component and material:
  - ✓ 2mm 304Stainless steel tank
  - ✓ Bottom fillet structure
  - ✓ 4pcs Strongly nylon wheel



**2.27 Hand washing and knife sterilizing device-----2Sets**

**Model: QE-L222**

Which main used to clean hand and knives sterilizing, main data as following:

- 1)-Heating type:Steam heating
- 2)-Operate type: Foot switch

- 3)-Knives sterilizing water temperature: 82 °C
- 4)-Component and material:
  - ✓ 2mm 304Stainless steel shell
  - ✓ High quality tap
  - ✓ Water supply interface and drain valve
  - ✓ Rotary thermostat



## 2.3. Cattle carcass quarter cutting and chilling and boneless equipment unit

### 3.1 Cattle carcass manual convey rail-----95M

#### Model: QE-C301-II

Which main used to store the cattle carcass for chilling, quarter cutting, boneless, and transportation to all functional rooms, such as boneless, dispatching, etc, main data as following:

- 1)-Rail Height: 3.6/2.4m
- 2)-H225hanger distance:600-800mm
- 3)-Component and material:
  - ✓ Hot galvanized steel 12# double channel steel
  - ✓ Hot galvanized special hanger
  - ✓ φ60\*4mm 304Stainless steel orbit
  - ✓ 90 ° and 60 ° 304Stainless steel rail elbow
  - ✓ Connecting bolt

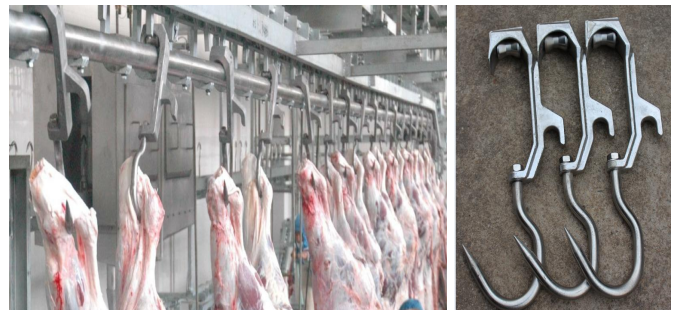


### 3.2 Tube rail pulley hook-----120Sets

#### Model: QE-C238-I

Which main used to hang cattle carcass for slaughtering process, main data as following:

- 6)-Weight: About 3.78kg
- 7)-Out Size: 480X80X70mm (LXWXH)
- 8)-Tube Diameter: 40-60mm
- 9)-Carrying Capacity: 1500Kg
- 10)-Component and material:
  - ✓ 304Stainless steel precision casting hanger
  - ✓ H225 refined steel casting,surface hot galvanized
  - ✓ φ22mm 304Stainless steel hooks
  - ✓ Roller with 2pcs sealed bearings



### 3.3 Quarter carcass slope lifting machine-----1Set

#### Model: QE-C302-I

Which main used to lift fore-quarter from 1.2meter level to 2.4meter level over head convey rail, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 1.5Kw
- 1)-Length: 3500mm
- 3)-Lift height:1200mm
- 4)-Component and material:
  - ✓ Hot galvanized steel closed 8# C-beam track with rail hanger
  - ✓ Hot galvanized steel plate chain with pusher dog
  - ✓ High polymer wear-resistant walking wheel
  - ✓ φ60\*4mm 304Stainless steel tube rail
  - ✓ Driving and pneumatic tension device



### 3.4 Quarter carcass slope unloading machine-----1Set

#### Model: QE-C302-II

Which main used to unloading cattle carcass from high convey rail (H=3.6m) to low convey rail (H=2.4m) for boneless, main data as following:

- 2)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 3)-Power: 1.5Kw
- 4)-Length: 3500mm
- 5)-Unloading height: 1200mm
- 6)-Component and material:
  - ✓ Hot galvanized steel closed 8# C-beam track with rail hanger
  - ✓ Hot galvanized steel plate chain with pusher dog
  - ✓ High polymer wear-resistant walking wheel
  - ✓  $\phi 60 \times 4$ mm 304Stainless steel tube rail
  - ✓ Driving and pneumatic tension device



**3.5 Quarter carcass reciprocating cut saw (Original: Germany)-----1Set**

**Model: QE-C303-II**

Which main used to cut half cattle carcass to quarter carcass, the detail data as following:

- 1)-Design principle: Motor Driving
- 2)-Rated voltage: 380VAC, 50HZ, 3P
- 3)-Controlling voltage: 24VDC
- 4)-Power: 0.86Kw
- 5)-Length: 800mm
- 6)-Blade length: 400mm
- 7)-Material: Stainless steel & carbon steel
- 8)-Include auxiliary device: One set balance
- 9)-Weight: 65kg



**3.6 Quarter carcass cut saw sterilizing device-----1Set**

**Model: QE-C303-III**

Which main used for cattle quarter carcass cutting saw sterilizing, main data as following:

- 1)-Out size: 660X360X200mm(LXWXH)
- 2)-Material: stainless steel



**3.7 Carcass rail weight system-----1Set**

**Model: QE-C235**

Which main used to scaling the carcass on convey rail after carcass processing or before dispatching, main data as following:

- 5)-Weight rail length: 1000 mm
- 6)-Maximum Weight: 600 Kg
- 7)-Differentiate Capacity: 50g
- 8)-Component and material:
  - ✓ Hot dip galvanized connectors and bolts
  - ✓  $\phi 60 \times 4$ mm independent 304Stainless steel weighing rail
  - ✓ 2pcs high precision sensors
  - ✓ Weighing display with printer
  - ✓ LCD digital display



**3.8 Half carcass delivery descend machine-----1Set**

**Model: QE-C305-II**

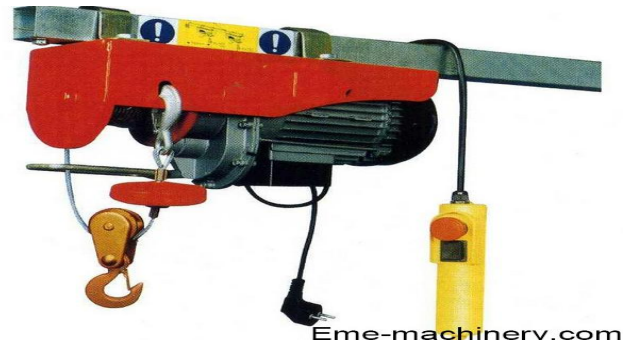
Which main used to unloading half carcass form the convey rail for delivery, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P



- 2)-Power: 1.5Kw
- 3)-Lifting height: 3M
- 4)-Lifting speed: 4m/min
- 5)-Hoisting ability:1000kg
- 6)-Max capacity: 45 carcass per hour
- 7)-Component and material:

- ✓ Electric hoist
- ✓ Hanging carcass device(Guide device)
- ✓ Hot galvanized main frame
- ✓ Limit device
- ✓ Low pressure control switches



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**3.9 Boneless table-----7Sets**

**Model: QE-L102**

Which main used to for beef、 mutton、 pork、 chicken meat boneless, main data as following:

1)-Out size: 900X600X800mm (LXWXH)

2)-Component and material:

- ✓ 38\*38\*2mm 304Stainless steel square tube
- ✓ 20mmwhite high polymer nylon board
- ✓ Reservoir at the bottom
- ✓ 304Stainless steel adjusting foot



**3.10 Trimming and packaging table-----1Set**

**Model: QE-L103**

Which main used to for beef、 mutton、 pork、 chicken meat trimming and packaging, main data as following:

3)-Out size: 1900X900X800mm (LXWXH)

4)-Component and material:

- ✓ 38\*38\*2mm 304Stainless steel square tube
- ✓ 1.5mm 304Stainless steel table-board
- ✓ Reservoir at the bottom
- ✓ 304Stainless steel adjusting foot



**3.11 Vacuum packaging machine (DZ-6)-----1Set**

**Model: QE-L116-I**

Which main used to pack livestock meat for freezing storage and keep fresh , main data as following:

1)-Rated voltage/phase/frequency: 380V/3P/50HZ

2)-Power:2.2Kw

3)-Max packing size:600X550mm

4)-Vacuum room size: 720\*625\*140mm(L\*W\*H)

5)-Seal: 600\*(8-10)\*4mm

6)-Capacity: 1000-1500Pcs per hour

7)-Out size: 1420\*750\*950mm

8)-Component and material:

- ✓ Stainless steel frame and vacuum cover
- ✓ High quality vacuum pump
- ✓ Intelligent control panel



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**3.12 Carcass rail weight system-----1Set**

**Model: QE-C304**

Which main used to scaling the quarter carcass on convey rail before dispatching, main data as following:

- 1)-Weight rail length: 1000 mm
- 2)-Maximum Weight: 300 Kg
- 3)-Differentiate Capacity: 50g
- 4)-Component and material:
  - ✓ Hot dip galvanized connectors and bolts
  - ✓  $\phi 60 \times 4$ mm independent 304Stainless steel weighing rail
  - ✓ 2pcs high precision sensors
  - ✓ Weighing display with printer
  - ✓ LCD digital display

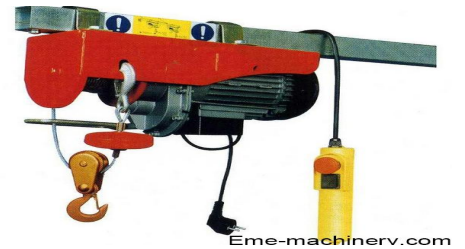


**3.13 Quarter carcass deliver unloading machine-----1Set**

**Model: QE-C302-IV**

Which main used to descend condemned carcass form the convey rail, main data as following:

- 1)-Rate voltage/Frequency/Phase: 380V/50HZ/3P
- 2)-Power: 1.5Kw
- 3)-Lifting height: 4M
- 4)-Lifting speed: 7.2m/min
- 5)-Hoisting ability:1000kg
- 6)-Component and material:
  - ✓ Electric hoist
  - ✓ Hanging carcass device(Guide device)
  - ✓ Hot galvanized main frame
  - ✓ Limit device
  - ✓ Low pressure control switches



**3.14 Hook transfer trolley-----2Sets**

**Model: QE-C239**

Which main used to collect the pulley hook and transfer to appoint area for reuse, main data as following:

- 1)-Size:1800\*700\*1350mm(L\*W\*H)
- 2)-Capacity:120pcs pulley hooks
- 3)-Component and material:
  - ✓ 304Stainless steel frame
  - ✓ 4pcs nylon roller(2pcs Omni-directional wheel)
  - ✓ Hot galvanized steel main frame



**3.15 Standard trolley-----2Sets**

**Model: QE-L123**

Which main used to collect livestock by-product and meat transfer to appoint area for treat or storage, main data as following:

- 1)-Volume:200L
- 2)-Out size: 600X600X600mm(LXWXH)
- 3)-Component and material:
  - ✓ 2mm 304Stainless steel tank
  - ✓ Bottom fillet structure
  - ✓ 4pcs Strongly nylon wheel



**3.16 Livestock killing knife-----2Sets**

**Model: QE-L112**

Which main used to kill animal for bleeding, main data as following:

- 1)-Length:45cm
- 2)-Component and material:
  - ✓ 304Stainless steel



- ✓ Food grade plastic handle

**3.17 Boneless knife-----20Sets**

**Model: QE-L113-I**

Which main used to skinning, trimming and boneless, main data as following:

- 1)-Length:26.2-31cm
- 2)-Component and material:
  - ✓ 304Stainless steel
  - ✓ Food grade plastic handle



**3.18 Knife sharper-----5Sets**

**Model: QE-L113-II**

Which main used for knives sharpening, main data as following:

- 1)-Length:45cm
- 2)-Component and material:
  - ✓ 304Stainless steel
  - ✓ Food grade plastic handle



**3.19 SS gloves-----2Sets**

**Model: QE-L114**

Which main used to prevent staffs hand avoid hurt when used knife killing and boneless, main data as following:

- 1)-Component and material: 304Stainless steel



**2.4、Cattle abattoir installation auxiliary material and direction technicians unit**

**4.1 Cattle abattoir equipment air compressor-----1Set**

**Model: QE-TD205**

Which main used for cattle and sheep/goat abattoir pneumatic systems air offer, the detail data as following:

- 1)-Capacity: 1.6M3
- 2)-Rated Voltage: 380V/ 3P / 50HZ
- 3)-Power: 11Kw
- 4)-Working Pressure: 1.0Mpa
- 5)-Noise: 68 ± 2dB(A)
- 6)-Cooling Style: Air Cooling
- 7)-Air Oil Content: ≤2.5PPM
- 8)-Material: Stainless steel cover with paint
- 9)-Out Size: 950 X 800 X 1130mm (LXWXH)
- 10)-Weight: 400Kg
- 11)-Remark: include following auxiliary device
  - ✓ Air storage tank : 1.0M<sup>3</sup>
  - ✓ Air dryer device capacity: 2.4m<sup>3</sup>/min
  - ✓ Air filter device



**4.2 Electric steam boiler and water softening equipment-----1Set**

**Model: QE-TD205**

Which main used to supply the hot water for cattle abattoir, main data as following:

- 1)-Rated Voltage: 380V/ 3P / 50HZ
- 2)-Power: 216Kw
- 3)-Capacity: 300kg steam/H
- 4)-Thermal efficiency:98%
- 5)-Rated Pressure : 0.7mpa



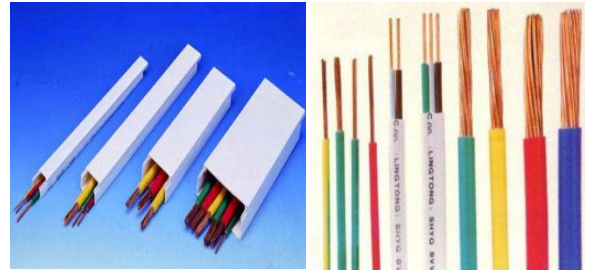
- 6)-Steam pipe diameter:DN25mm
- 7)-Inlet diameter::DN15mm
- 8)-Dimension :750\*560\*1800mm(L\*W\*H)
- 9)-Weight: 200kg/set
- 10)-Component and material:
  - ✓ Automatic Intelligent electronic control system
  - ✓ The use of high-quality core components-electric heating pipe
  - ✓ Multiple safety interlock protection
  - ✓ Putting reasonable electric load into use could save energy and extend life cycle technical

**4.3 Cattle abattoir electric cable-----1Set**

**Model: QE-L207**

Which main use for cattle abattoir and include the cable from abattoir machine to electric controlling cabinet, the detail data as following:

- 1)-IP: 65 Grade
- 2)-Brand: HAOMAI brand of China
- 3)-Material:
  - ✓ Copper inner
  - ✓ Plastic cover
- 4)-Size: 1MM & 1.5MM & 2.5MM & 4MM and so on
- 5)-Remark: include the wire PVC cover tube from machine to electric cabinet



**4.4 Equipment main support and hanging material-----1Set**

**Model: QE-C403**

Which main used for cattle abattoir equipment main beam support and hanging, fixed on the upper end of the column by welding, main data as following:

- 1)-Component and material:
  - ✓ DN125 Hot galvanized steel column
  - ✓ Hot Galvanized Main Steel Beam
  - ✓ 28# I-beam,280\*124\*10.5
  - ✓ 25# I-beam,250\*118\*10
  - ✓ 20# I-beam,200\*102\*9
  - ✓ 18# I-beam,200\*102\*9
  - ✓ 16# I-beam,200\*102\*9



**4.5 Equipment main support and hanging material-----1Set**

**Model: QE-C404**

Which main used for cattle abattoir equipment main beam support and hanging, fixed on the upper end of the column by welding, main data as following:

- 1)-Component and material:
  - ✓ Hot galvanized rigid Connectors
  - ✓ Hot galvanized connecting Plate
  - ✓ Hot galvanized connecting screw
  - ✓ Hot galvanized bolt and nut
  - ✓ Expansion bolt



**4.6 Cattle abattoir installation tools-----1Set**

**Model: QE-L208**

Which main use for cattle and sheep/goat abattoir slaughtering equipment installation, and which mainly include following device:

- 1)-Welding Machine
- 2)-Steel Cutting Device



- 3)-Rotate Drilling Device
- 4)-Manual Lifting Device
- 5)-Welding Polishing Device
- 6)-False-work
- And so on.....

**4.7 Cattle abattoir machine cleaning system-----1Set**

**Model:QE-L205**

Which is used to clean livestock slaughterhouse and equipment and ground when finished working per shift, the detail data as following:

- 6)-Power mode:3-phase electric
- 7)-Include:15m high pressure explosion-proof steel wire pipe
  - ✓ Copper tube high pressure gun
  - ✓ High density filter
  - ✓ 5m water inlet PVC pipe
- 8)-Technical parameters:
  - ✓ Power: 2.2Kw
  - ✓ Rate of flow: 13L/Min
  - ✓ Max pressure:18Mpa Power mode:3-phase electric
- 9)-Include:15m high pressure explosion-proof steel wire pipe
  - ✓ Copper tube high pressure gun
  - ✓ High density filter
  - ✓ 5m water inlet PVC pipe
- 10)-Technical parameters:
  - ✓ Power: 2.2Kw
  - ✓ Rate of flow: 13L/Min
  - ✓ Max pressure:18Mpa



**4.8 Electric control cabinet-----1Set**

**Model: QE-C240-II**

Which main used to control the operation of slaughter electrical equipment,low voltage control operation device , main data as following:

- 1)-Component and material:
  - ✓ Electric control cabinet
  - ✓ Low pressure control operation button
  - ✓ Power cable from electric control cabinet to equipment motor
  - ✓ Control cable from electric control cabinet to low voltage control button



**4.9 Livestock abattoir incinerator(0.3T)-----1Set**

**Model: QE-L305-I**

Which main used to burning the livestock abattoir solid waste and sick animal body and avoid environment pollution, main data as following:

- 1)-Rated voltage/phase/frequency: 380V/3P/50HZ
- 2)-Power:
  - ✓ Air blower: 0.37kw
  - ✓ Burner : 0.22kw
- 3)-Capacity : 300KG/6Hour
- 4)-Chimney out side diameter :ø300MM
- 5)-Burning material : Diesel
- 6)-Diesel capacity: 6-10kg/hour
- 7)-Incinerator Volume:



- ✓ Gasification chamber 0.6m<sup>3</sup>
- ✓ Secondary incineration chamber 0.4m<sup>3</sup>
- 8)-Wast inlet size: 600\*800mm
- 9)-Component and material:
  - ✓ Carbon steel with paint
  - ✓ Primary combustion chamber
  - ✓ Second combustion chamber
  - ✓ Mixture of combustion chamber
  - ✓ Smoke purification chamber
  - ✓ Chimney

