

Shandong Zentek Energy and Technology Co. Ltd.

Room 1209, No.12308 East Jingshi Road,
Jinan, Shandong, P.R. China
Tel: +86 531 61366718
Fax: +86 531 61366718
info@renewsolargy.com
www.renewsolargy.com



Experts in Automatic Production Machinery

(Water Heaters/Steel Drums/LPG Cylinder/Home Appliance)

Shandong Zentek Energy and Technology Co. Ltd.



Shandong Zentek Energy and Technology Co. Ltd. is a professional manufacturer Of production equipments and gears for both electric and solar water heaters. We have been devoting ourselves to customized design and engineering, manufacturing, machinery upgrading and production line improving for customers all over the world.

The machineries we manufacture include fully and semi-automatic solar/electric water heater inner tank production line and outer tank production line, press machine, welding machine, foaming line and enameling line etc..

Products have been exported to over 20 countries, such as India, Egypt, U.A.E., Brazil etc. Our customers include A.O.Smith and Havells in India, Artel in Uzbekistan and so on. Especially the line for Uzbekistan, it is the first complete line exported from China ever. We are looking forward to the cooperation with partners worldwide.

Zentek Energy, Beyond Your Imagination

Benefits and Services:

01 >> **Production Lines**
(Water Heaters, Steel Drums, LPG Cylinders)

Turnkey Installation and Training << **02**

03 >> **Accessories Supply**

Site Management << **04**

05 >> **Over 30 Years Experience**

International Quality Standard << **06**

Content

Solar Water Heater Machinery /3-14

Sheet Processing Machinery /4-5

Outer Tank Forming Machinery /6

Non Pressurized Inner Tank Forming Machinery /7-10

Pressurized Inner Tank Forming Machinery /11-13

Reference Factory Layout /14

Electric Water Heater Machinery /15-24

Sheet Processing Machinery /16

Outer Tank Forming Machinery /16-17

Inner Tank Forming Machinery /18-19

Tank Cover Forming Machinery /20-21

Other Related Machinery /22-23

Reference Factory Layout /24

Reference Projects /25-28

Flat Plate Solar Collector /29-30

Home Appliance Automatic Line

(fridge,washing machine,air conditioner) /31-32

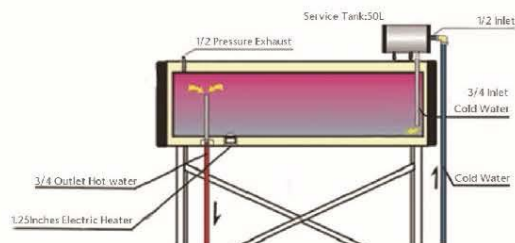
Water Heater Accessories /33-34

Steel Drum Machinery /35-39

LPG Machinery /40-46



Solar Water Heater Machinery



PLC: OTC, Panasonic, Fronius, etc.;
Power Source: Delta, Siemens, Schneider, Omron, etc.;
Voltage: 380V 50HZ or 220V 60HZ

Metal Sheet Processing Machinery

Decoiling-Straightening-Cutting Line

This machine is used for the processing of metal coil. It is used for decoiling, leveling, filming and cutting to length.



Material: $\sigma b \leq 325 \text{ N/mm}$
Thickness: $\delta = 0.3 \sim 1.0 \text{ mm}$
Material Width: 600mm-3200mm
Outer Dia: $\phi 800 \text{ mm} \sim \phi 1500 \text{ mm}$
Inner Dia: $\phi 508 \text{ mm}$
Weight: $\leq 7 \text{ T}$
Accuracy: $\leq 2 \text{ mm/m}^2$
Cutting Length: 500~2500mm
Efficiency: 8~10pcs/min (length $\leq 2000 \text{ mm}$ base)
Manpower Needed: 1

Shearing Machine

This machine is used for cutting metal steel to required length.



Max. Sheet Width: 3200mm
Max. Sheet Thickness: 4mm
Cutting Angle: $3'30''$ or customized
Stroke Times: $>5/\text{min}$
Depth: 200-350mm
Main Motor Wattage: 45kw
Manpower Needed: 1

Decoiling and Laser Cutting Machine

This machine is used for decoiling and cutting metal sheet.



Laser Type: Fiber Laser
Rated Output Power: 3000W
Effective Cutting Range: 4000*2000mm
Max. Load of Workable: 1200KG
Manpower Needed: 1

Sheet Processing Machinery

Deep Throat Punching Machine

This machine is used for processing holes on outer tank.



Rated Force: 160kn
Normal Stroke: 4mm
Slider Stroke: 60mm
Slider Strokes Per Minute: 130 times/min
Distance between Center Line of Slider and Machine Body: 500mm
Motor Power: 1.5kw
Manpower Needed: 1

Deep Throat Punching Machine 25T

This machine is used for processing holes on outer tank.



Rated Force: 250kn
Stroke: 2.5mm
Slide Stroke: 0~80mm
Stroke Times: 60 times/min
Distance between Center Line of Slider and Machine Body: 210mm
Main Motor: 2.2kw

CNC Two Heads Punching Machine

This machine is used for punching and bending inner tank tube hole at the same time.



Rated Force: 160kn
Working Table: 2500mm
Slide Stroke: 0~80mm
Stroke Times: 60 times/min
Punching Thickness: 0.3~0.5mm

Outer Tank Forming Machinery

Combined Bending and Locking Machine

This machine is used for bending and locking middle seam of solar water heater outer tank at one time.



Sheet Thickness: 0.3-1.2mm
Max. Lengt: 2500mm
Sheet Material: stainless steel, PPGI, carbon steel
Efficiency: 3-5pcs/min
Rated Power: 5.5-7.5kw
Output Quantity: 2pcs/min
Manpower Needed: 2-3

Single-end Necking Machine

This machine is used for necking the ends of solar water heater outer tank side by side.



Sheet Material: PPGI, GI, cold-rolled sheets
Sheet Thickness: 0.3~1.2mm
Efficiency: 1~2 pcs/min
Rated Power: 1.5kw
Manpower Needed: 1

Two-end Necking Machine

This machine is used for necking two ends of solar water heater outer tank at one time.



L1200 L1600 L1800 L2200
Tank Thickness: 0.3~1.2mm
Tank Material: stainless steel, SPCC, PPGI
Efficiency: 3~5 pcs/min
Manpower Needed: 1

Non Pressurized Inner Tank Forming Machinery

Solar Water Heater Inner Tank Production Machine (Non-welding)

CNC Punching Machine

This machine is used for punching or bending holes on inner tank



Sheet Material: SUS 304, SUS 316, SRCC, PPGI
Sheet Thickness: 0.3-1.0mm
Efficiency: 90-120 times/min
No. of Station: 6, 8, 10, 12
Manpower Needed: 1

Three-roller Rolling Machine

This machine is used for the pre-rolling of the non-pressurized solar water heater inner tank.



Tank Thickness: 0.3-1.2mm
Tank Material: stainless steel, GI, PPGI
Efficiency: 6 pcs/min
Rated Power: 1.5kw
Manpower Needed: 1

Hydraulic Bending Machine

This machine is used for bending middle seam of solar water heater inner tank by non-welding method.



Sheet Material: PPGI, GI, cold-rolled sheets
Sheet Thickness: 0.3-1.2mm
Efficiency: 40 times/min
Rated Power: 3-4kw
Manpower Needed: 2
Sheet Max.Length:2500mm

Pneumatic Pressing Machine

This machine is used for locking the middle seam of solar water heater inner tank by non-welding method.



Sheet Material: PPGI, GI, cold-rolled sheets
Sheet Thickness: 0.3-1.2mm
Efficiency: 40 times/min
Rated Power: 3-4kw
Manpower Needed: 2

Pneumatic End-bending Machine

This machine is used for bending two ends of solar water heater inner tank.



L2000 L2500 L3000
Tank Thickness: 0.3-1.0mm
Tank Material: stainless steel, GI, PPGI
Efficiency: 3 pcs/min
Bending Width: 6-10mm
Rated Power: 1.5kw
Manpower Needed: 1

Tube Hole Flattening Machine

This machine is used for tube hole flattening of solar water heater inner tank.



Sheet Material: PPGI, GI, Cold-rolled sheets
Sheet Thickness: 0.3-0.8mm
Efficiency: 40 times/min
Rated Power: 3-4KW
Manpower Needed: 2

Pneumatic Grooving Machine

This machine is used for grooving on inner tank of solar water heater.



Tank Thickness: 0.3-0.8mm
Tank Material: stainless steel, GI, PPGI
Efficiency: 2 pcs/min
Rated Power: 1.5-2.2kw
Manpower Needed: 1

Non-welding Four-wheel Sealing Machine

This machine is used for fixing the inner tank cover to the solar water heater inner tank body.



L2000 L2500 L3000
Tank Thickness: 0.3-0.8mm
Tank Material: stainless steel, GI, PPGI
Locking Thickness: 5T+0.3mm
Locking Width: 5-7mm
Efficiency: 3 pcs/min
Rated Power: 11 kw
Manpower Needed: 1

Non Pressurized Inner Tank Forming Machinery

Straight Seam Welding Machine

This machine is used for welding the straight seam of solar water heater inner tank.



L1800 L2000
Tank Thickness: 0.3~0.8mm
Tank Material: stainless steel, GI, PPGI
Efficiency: 2 pcs/min
Power: 75 KW 150 KW/
Manpower Needed: 1

Air-pressure Pulse Circular Seam Welding Machine

This machine is used for welding the circular seam of solar water heater inner tank.



Maximum Welding Thickness: 2.0mm
Max. Effective Length: 2500mm
Welding Diameter: $\Phi 385$ mm
Air Pressure: 0.5Mpa~0.8 Mpa
Power: 6.0 KW
Operation Labor: 1~2 people
8 hours Max. Efficiency: 120pcs inner tank

Pipe Joints Welding Machine (TIG Vertical Type)

This machine is used for welding inlet and outlet pipes of solar water heater inner tank.



Max Sheet Thickness: 2.0mm
Max Output Power: 12 KW
Equipment Power: 0.1KW
Air Pressure: 0.5Mpa~0.8 Mpa
Operation Labor: 1 Person
8 hours Max. Efficiency: 200 PCS

Other Related Machinery

Leakage Testing Machine

This machine is used for checking if solar water heater inner tank leaks or not.



L2000 L2500 L3000
Manpower Needed: 1
Quarantee Period: 1 Year

Low Pressure Foaming Machine

This machine is used for injecting material to form insulation layer.



Power Source: 5000w
Hydraulic Pressure of Work: 8~12MPa
Single Component Output Pressure:
10~15Mpa
Output: 4~8kg/min

Rotary Foaming Frame

This machine is used for fixing water heater inner tank and outer tank when foaming.



Working Height: 3000mm
Tank Diameter: 300~500mm
Stations: 4~10

Pressurized Inner Tank Forming Machinery

Inner Tank Production Machine

Rolling Machine

This machine is used for roll forming pressurized solar water heater inner tank.



Maximum Rolling Width of Plate: 3000mm
Length of the Roller Working Surface: 2100mm
Maximum Rolling Thickness of Plate: 20mm
Top Roller Diameter: $\Phi 280$ mm
Lower Rollers Diameter: $\Phi 240$ mm
Rolling Speed: 4.5m/min
Material Yield Limit: 245MPa
Hydraulic System Working Pressure: 19.5MPa
Main Motor Power: 15KW

Straight Seam Welding Machine (PAW Welding)

This machine is used for welding straight seam of pressurized solar water heater inner tank.



Maximum Welding Thickness: 2.0mm
Max. Effective Length: 2500mm
Air Pressure: 0.5Mpa~0.8 Mpa
Power: 6.0KW
8 hours Max. Efficiency: 120pcs inner tank

Inner Tank Flaring Machine

This machine is used for flaring two ends of solar water heater inner tank.



Spindle Speed: 0~45 r/min
Hydraulic Station Motor Power: 15 KW
Hydraulic System Working Pressure: 7MPa
Pneumatic system working pressure: 0.7MPa
Middle Tank Diameter Range: $\Phi 310$ ~ $\Phi 550$ mm
Middle Tank Length Range: 500~2000 mm
Flaring for One Cycle Time: 50 seconds

Cover Necking Machine

This machine is used for processing pressurized solar water heater inner tank cover.



Hydraulic Range: 6~12Mpa
Workpiece Thickness: 3.0~8.0mm
Workpiece Dia.: 400~800mm
Necking Height: 10~30mm

Tank Assembly Machine

This machine is used for assembling tank cover with tank body.



Spindle Speed: 30r/min
Middle Tank Diameter Range: $\Phi 310$ ~ $\Phi 550$ mm
Middle Tank Length Range: 500~2000 mm

Circular Seam Welding Machine

This machine is used for welding the circular seam between tank cover and tank body.



Maximum Welding Thickness: 2.0mm
Max. Effective Length: 2500mm
Welding Diameter: $\Phi 385$ mm
Air Pressure: 0.5Mpa~0.8 Mpa
Power: 6.0KW
Manpower Needed: 1~2

Nipple Pipe Welding Machine

This machine used for TIG welding of water heater inner tank pipe joints, such as inlet/outlet pipes, hot pipes.



Other Related Machinery

High Pressure Foaming Machine

This machine used for injecting material to form insulation layer for pressurized solar water heater.



Injection Type: vertical manual type.
Foaming Agents: POL+ISO or others.
Cycle Time: about 60 seconds.
Working Stations: 20~180.
Heated by: steam; gas; oil; electricity.
Curing Time: 20 minutes.
Available Length of Geyser Tank:
1100-2500mm
Available Diameter of Geyser Tank:
400~520mm.
Manpower Needed: 2

Leakage Testing Machine



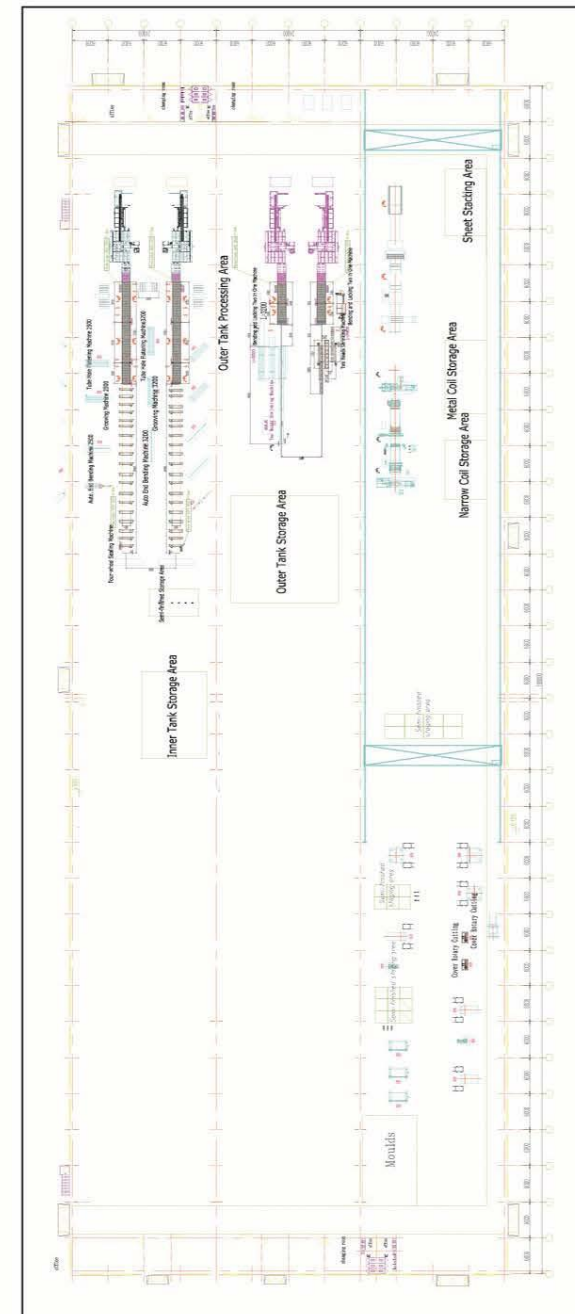
Package Line



Foaming Line



Reference Factory Layout



Electric Water Heater Machinery



PLC: OTC, Panasonic, Fronius, etc.;
Power Source: Delta, Siemens, Schneider, Omron, etc.;
Voltage: 380V 50HZ or 220V 60HZ

Sheet Processing Machinery

Rolling Machine

This machine is used for the processing of metal coil. It could be used to decoil, leveling, film and cut to length.



Production efficiency: 12~16 sheet/min
Sheet Length: <1400mm
Total power: around 70KW
Machine occupied area: around 8*25m
Decoiling direction: customized

Shearing Machine

This machine used for cutting sheet to fixed length.



Max. Sheet Width: 2500mm
Max. Sheet Thickness: 4mm
Cutting Angle: 3'30" or customized
Stroke times: >5/min
Depth: 200~350mm
Main Motor Wattage: 45kw
Manpower Needed: 1

CNC Punching Machine

This machine used for punching holes on electric water heater inne and outer tank.



Sheet Material: SUS 304, SUS 316,
SRCC, PPGL
Sheet Thickness: 0.3~1.5mm
Efficiency: 90~120 times/min
No. of Station: 6, 8, 10, 12
Manpower Needed: 1

Outer Tank Forming Machinery

Two Rollers Rolling Machine

This machine used for roll forming electric water heater outer tank.



Model: L1200 L1600 L1800 L2200
Tank Thickness: 0.4~0.8mm
Tank Material: stainless steel, SPCC, PPGL
Efficiency: 3 pcs/min

Outer Tank Forming Machinery

Combined Bending and Locking Machine

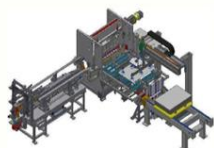
This machine used for bending and locking middle seam of electric water heater outer tank at one time.



Sheet Thickness: 0.4-0.8mm
 Sheet Length: 500-1500mm
 Sheet Material: Stainless steel, PPGI, carbon steel
 Output: 2pcs/min
 Rated Power: 5.5-7.5kw
 Manpower Needed: 2-3

Outer Tank Straight Seam Welding Machine

This machine is used for welding straight seam of electric water heater outer tank.



Tank Thickness: 0.5-0.6mm
 Tank Material: Steel
 Efficiency: 3 pcs/min

Inward Bending Machine (Two Sides)

This machine used for inward bending two sides of electric water heater outer tank.



Model: L1200 L1600 L1800 L2200
 Tank Thickness: 0.4-0.8mm
 Tank Material: Stainless steel, SPCC, PPGI
 Efficiency: 3-5 pcs/min

Inward Bending Machine (One Side)

This machine used for inward bending electric water heater outer tank ends side by side.



L1200 L1600 L1800 L2200
 Tank Thickness: 0.4-0.8mm
 Tank Material: stainless steel, SPCC, PPGI
 Efficiency: 2 pcs/min

Inner Tank Forming Machinery

Rolling Machine

This machine is used for forming electric water heater inner tank.



Sheet Thickness: 1.5-2.5mm
 Rolling Open: 0-15mm;
 Front and Back Offset After Rolling: < 2mm/
 Low and Rise Offset after Rolling: < ± 5mm;
 Rolling Straight Edge: < 10mm;
 Processing Material: stainless steel, carbon steel, galvanized steel
 Sheet Length: 300-2000mm

PAW Straight Seam Welding Machine

This machine is used for welding straight seam of electric water heater inner tank.



Welding technology is one side welding and two sides forming.
 Maximum Welding Thickness: 2.0mm
 Max. Effective Length: 2500mm
 Air Pressure: 0.5Mpa-0.8 Mpa
 Power: 6.0KW
 8 hours Max. Efficiency: 120pcs inner tank

Flaring Machine

This machine is used for flaring two ends of electric water heater inner tank.



Tank Length: 300-2000mm
 Max. Sheet Thickness: CRC=2.5MM; Stainless Steel=2.0MM
 Tank Diameter: 280mm-700mm

Three Parts Assembly Machine

This machine is used for assembling electric water heater inner tank cover together with tank body. Then workpiece could come to welding step.



Spindle Motor Speed: 30 r/min
 Tank Diameter: 280mm-700mm
 Tank Length: 300-2000mm

Inner Tank Forming Machinery

Circular Seam Welding Machine (Two Torches)

This machine is used for welding circular seam of electric water heater inner tank.



Welding Way: MAG
Welding Method: two welder overlap
Protection: partial protect, protect arc light.
Maximum Welding Thickness: 2.0mm
Max. Effective Length: 2500mm
Welding Diameter: 280mm-700mm
Processing Material: carbon steel, stainless steel*

Joint Pipe Welding Machine (Horizontal Type)

This machine is used for TIG or MIG welding of electric water heater joint pipe such as inlet outlet pipes, hot pipes.



Welding Way: angle circle welding, one time to weld inlet and outlet pipe automatically (horizontal inner tank)
Welding Technology: MAG
Processing Material: carbon steel, stainless steel

Leakage Testing Machine

This machine used for checking the leakage of electric water heater inner tank.



Inner Tank Diameter: 280mm-700mm
Inner Tank Capacity: 10-100L;
Inner Tank Dia.: $\Phi 280$ ~ $\Phi 400$;
Inner Tank Length: 300-3000mm
Inner Tank Thickness: 0.8-2.0mm;
Production Capacity: 40S/Pc

Tank Cover Forming Machinery

Round Cutting Machine

This machine is used for punching round sheets out of square sheets.



Nominal Force: 3150
Stroke Under Nominal Force: 8
Slide Stroke: 250
Number of Stroke: 30
Max. Die Set Height: 500

Draw Forming Machine

This machine is used for forming electric water heater inner cover.



Max Stroke of Oil Cylinder: 700MM
Max Stroke of Down Oil Cylinder: 400MM
Down Stroking Speed of Working Table: 200MM/S
Height of Open: 1000MM
Motor Power: 37KW

Cover Trimming Machine

This machine is used for trimming edges of electric water heater inner tank cover after forming.



Nominal Force: 2000
Stroke Under Nominal Force: 7
Slide Stroke: 300
Number of Stroke: 45
Max. Die Set Height: 500

Hole Punching Machine

This machine is used for punching water pipe or flange holes on electric water heater upper cover.



Nominal Force: 800
Stroke Under Nominal Force: 5
Slide Stroke: 200
Number of Stroke: 60
Max. Die Set Height: 400

Tank Cover Forming Machinery

Circular Seam Welding Machine (One Torch)

This machine is used for welding circular seam of electric water heater inner tank.



Welding Way: MAG
Welding Method: one welder overlap
Maximum Welding Thickness: 2.0mm
Max. Effective Length: 2500mm
Welding Diameter: Φ 300mm~400mm
Processing Material: carbon steel, stainless steel

Circular Seam Welding Machine (Slant Type)

This machine is used for welding two electric water heater tank cover together.



Welding Type: MAG welding
Single side Welding With Double sides Forming
Maximum Welding Thickness: 2.0~6.0mm
Welding Diameter: Φ 300~500mm
Welding Material: stainless steel or carbon steel

Flange Welding Machine



Hanger Welding Machine

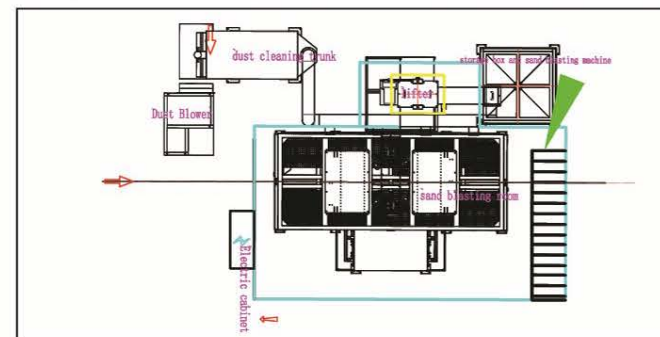


Accessories Processing Line

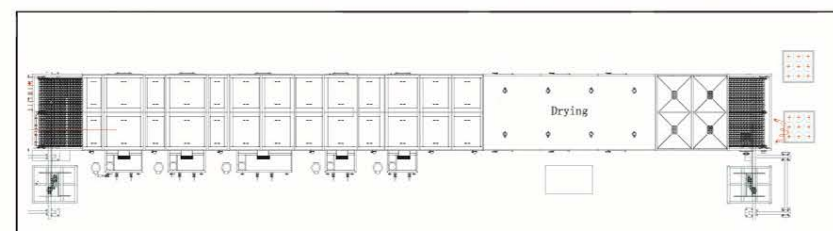


Other Related Machinery

Sand Blasting Line



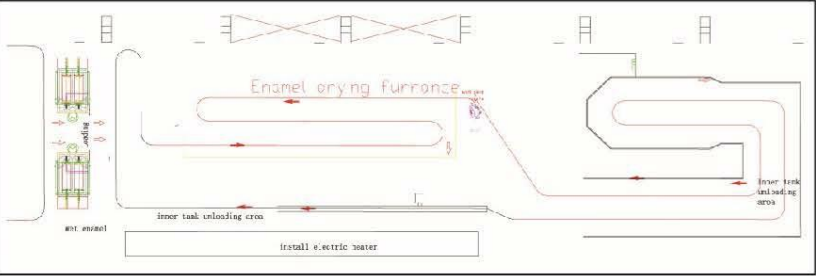
Washing Line



Enamel Coating Machine



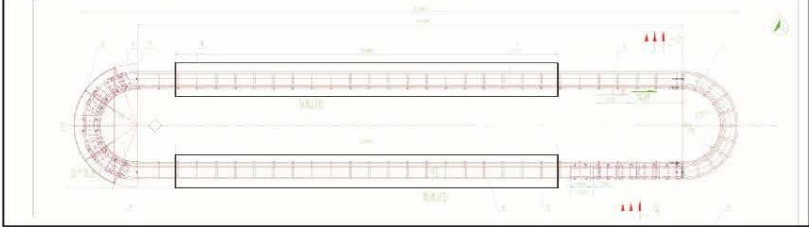
Enamel Furnace



Foaming Line



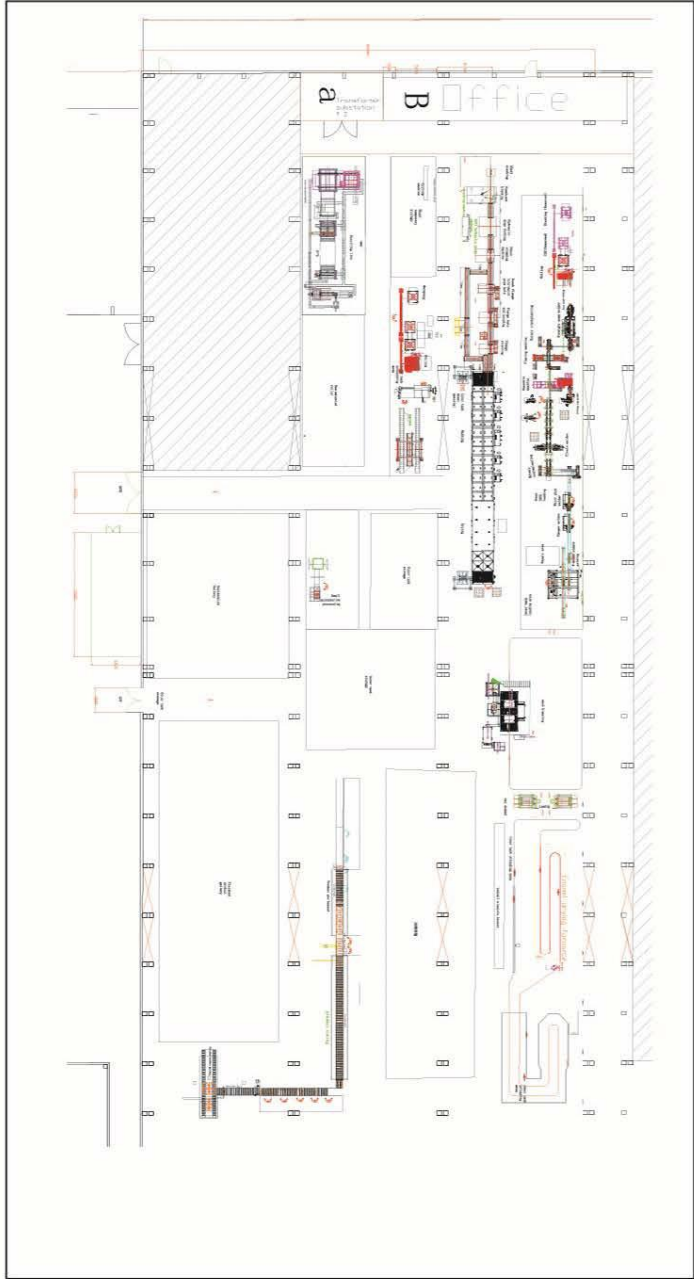
Package Line



Testing Equipment



Reference Factory Layout



Reference Project



Egypt



Cuba



Turkey



Turkey



Saudi Arabia



India



China



Turkey

Reference Project



Production Line in India

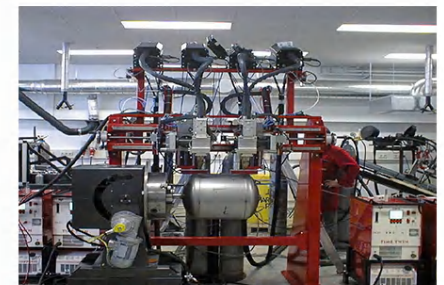


Production Line in Uzbekistan

Reference Project

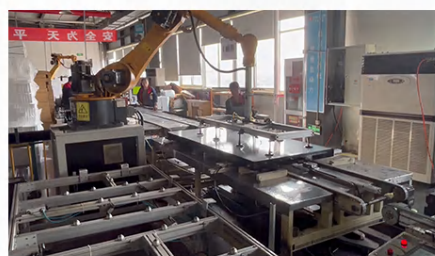
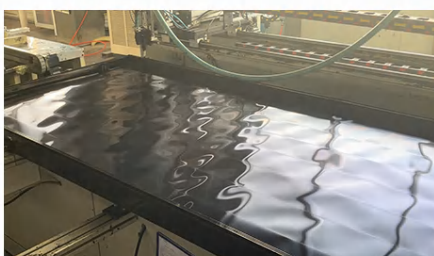
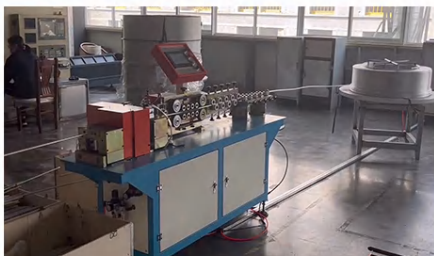


Reference Project

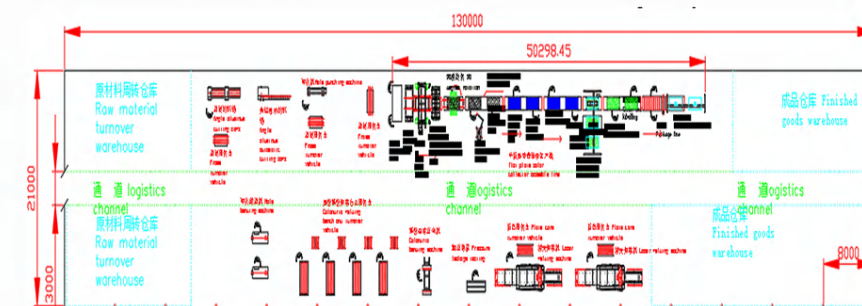


Flat Plate Solar Collector Production Line

For 1 m², 2 m² and 2.5 m² solar collector, pipe quantity from 6 pcs to 12 pcs.



Reference Layout



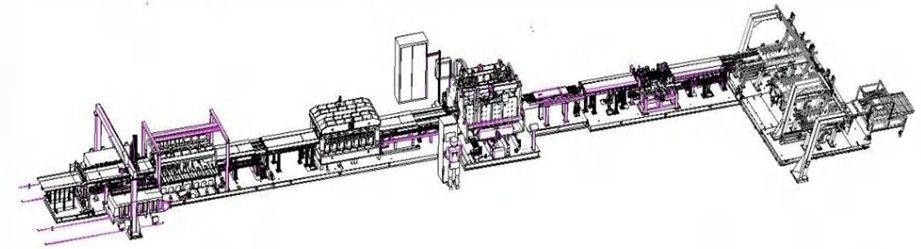
Reference Projects



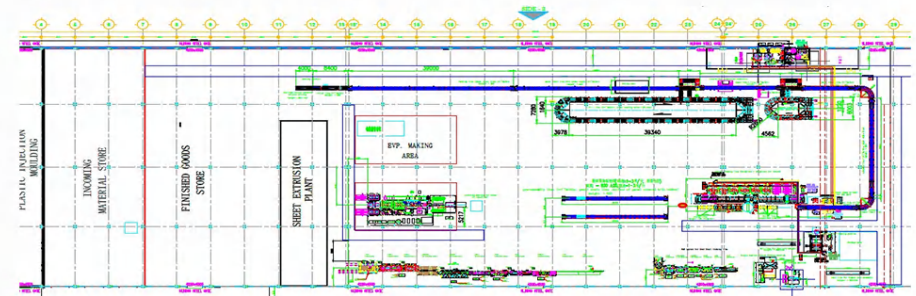
Home Appliance Metal Sheet Forming and Foaming Line for Fridge and Washing Machine



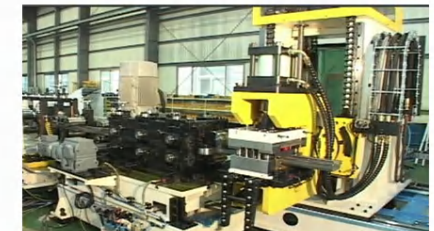
Metal-sheet Forming Layout



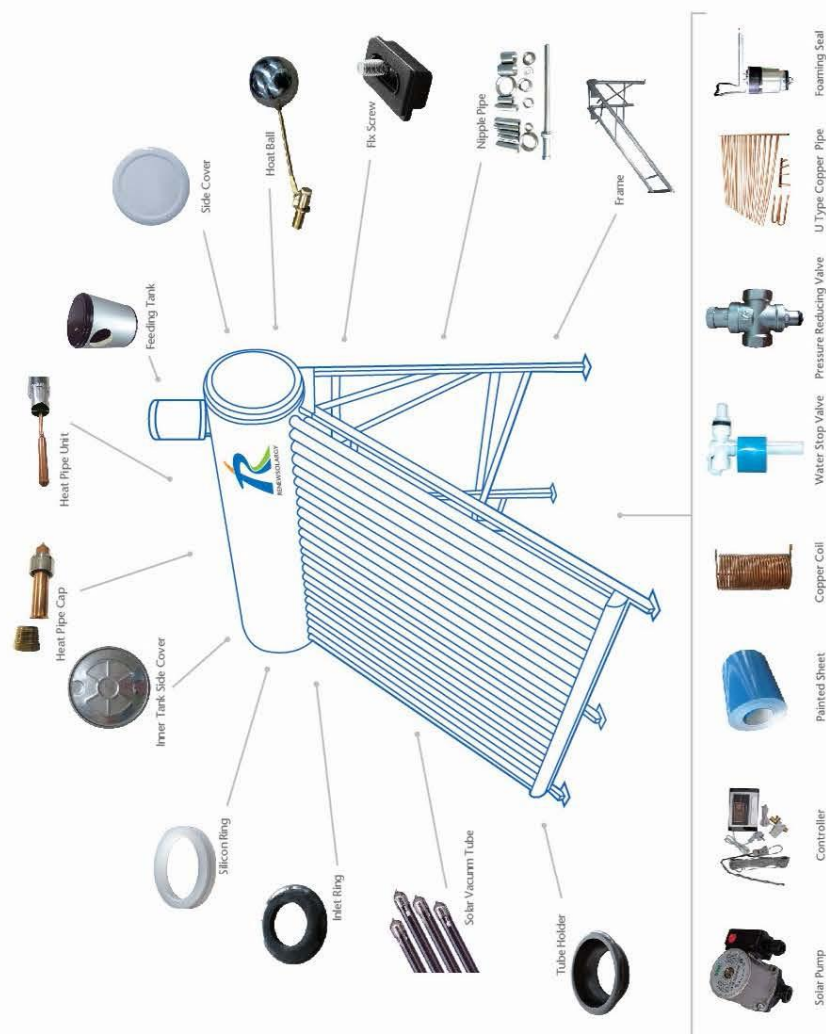
Foaming Production Line Layout



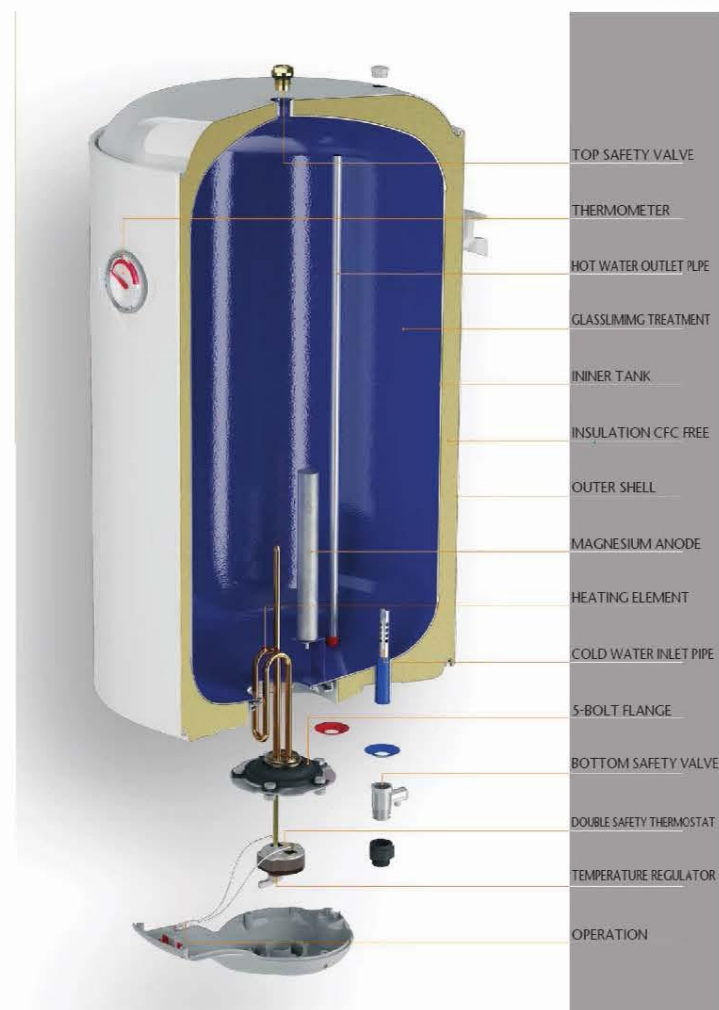
Reference Projects



Solar Water Heater Accessories



Electric Water Heater Accessories



Steel Drum Machinery



Decoiling-Straightening-Cutting Line

This machine is used for the processing of metal coil. It could be used for decoiling, leveling, filming and cutting to length.



Material Thickness: 1.0-2.0mm
Cutting Length: 500-2000mm
Width: 1000mm
Loading Rack Dia.: 925-1150mm
L*W*H: 18*1.5*1.6m

Shearing Machine

This machine is used for cutting sheet to fixed length.



Max. Sheet Width: 2500mm
Max. Sheet Thickness: 4mm
Cutting Angle: 3' 30" or customized
Stroke Times: >5/min
Depth: 200-350mm
Main Motor Wattage: 45kw
Manpower Needed: 1

Three-roller Rolling Machine

This machine is used for roll forming of steel drums.



Processing Ranges: L1000*T2.0mm
Rolling Speed: 6m/min
Rolling Dia.: 80-600mm
Motor Power: 1.5kw

200L Steel Drum Production Line

This line includes flanging machine, corrugating machine, sealing machine, leakage-testing machine etc.. It could achieve forming of steel drums.



1.Dia.: 300-600mm
2.Length: 300-1200mm
3.Material&Thickness: Carbon steel, GI, stainless steel, 0.6-1.5mm
4.Production Capacity: <=20s/pcs

160T Punching Machine

This machine is used for punching holes on steel drums.



Working Table: 1100*700mm
Nominal Force: 1600KN
Power: 15KW
L*W*H: 1300*2200*3000mm

Glue-injection Machine

This machine is used for injecting glue on the barrel caps.



Processing Ranges:
L*W: 650*550mm
Dia.: <=650mm
Power: 3.0KW
L*W*H: 1100*1000*1200mm

Rolling and Straight Seam Welding Machine

This machine is used for roll-forming of steel drum and welding the straight seam.



Dia.: 300-600mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-1.5mm
Production Capacity: 20s-30s/pcs

Curling Machine

This machine is used for processing the two ends of steel drums.



Dia.: 300-700mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-2.0mm
Production Capacity: <=35s/pcs

Single-end Sealing Machine

This machine is used for fixing cap to barrel.



Dia.: 300-600mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-1.5mm
Production Capacity: <=40s/pcs

Circular Seam Welding Machine

This machine is used for welding caps to drums.



Dia.: 300-700mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-2.0mm
Production Capacity: <=35s/pcs

Leakage-testing Machine

This machine is used for testing the leakage-of steel drums.



Dia.: 300-600mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-1.5mm
Production Capacity: <=20s/pcs

Assembly Machine

This machine is used for assembling caps to steel drum body.



Dia.: 300-700mm
Length: 300-1200mm
Material&Thickness: Carbon steel, GI,
stainless steel, 0.6-2.0mm
Production Capacity: <=35s/pcs

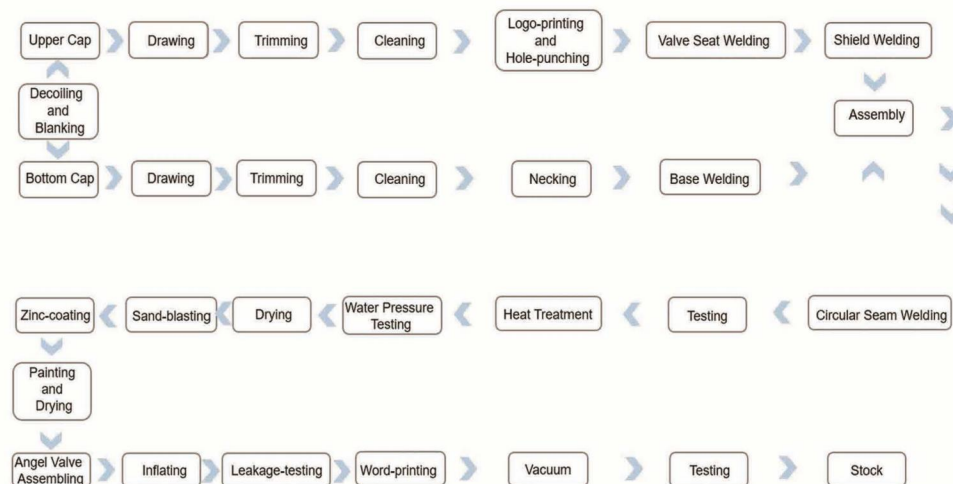
Reference Projects



LPG Machinery



Technical Procurese



Decoiling Line

This machine is used for coil decoiling.



Sheet Thickness: 2-4mm
Sheet Width: $\leq 1170\text{mm}$
Coil ID: 450-800mm
Coil OD: $\leq 1800\text{mm}$
Coil Weight: $\leq 25\text{t}$

Trimming Machine

This machine is used for trimming the caps of LPG cylinder.



Power: 5.5kw
Air Pressure: 0.6Mpa
Processing Time: 20s (adjustable)
Weight: 1.5t

Cap Necking Machine

This machine is used for necking the caps of LPG cylinder.



Power: 4.5kw
Air Pressure: 0.6Mpa
Processing Time: 15s (adjustable)
Weight: 1.5t

Punching Machine

This machine is used for punching holes on LPG caps.



Power: 5.5kw
Processing Time: 180pcs/hour
Weight: 1.5t

LPG Body Cleaning Machine

This machine is used for cleaning the body of LPG cylinder.



Main Motor Power: 0.55kw
Polishing Motor Power: 1.5kw
Air Pressure: 0.6Mpa
Polishing Wheel Feeding Ranges: 0.2-20mm
Efficiency: 60pcs/hour
Weight: 0.6t

Valve Seat Welding Machine

This machine is used for welding the valve seat.



Rated Output Voltage: 220v
Motor Power: 0.55kw
Air Pressure: 0.6Mpa

Heat Treatment Furnace

This machine is used for the annealing of cylinder.



Temperature Ranges: 600-850°C
Working Type: By air cylinder or chains
Speed Ranges: Stepless speed regulation
(chain transmission)

Pressure-testing Machine

This machine is used for testing the pressure that cylinders could bear.



Air Pressure: 0.6Mpa
Water Testing Pressure: 3.2 Mpa
Watering Time: 90s or so
Pressure-keeping Time: 60s (adjustable)
Motor Power: 3kw
Weight: 3.8t

Electrostatic Spraying Line

This machine is used for painting on the surface of LPG cylinder.



Working Voltage: 380v 50hz
Air Pressure: 0.4-0.6Mpa
Total Power: 15kw
Working Efficiency: 180pcs/hour

Angle Valve Assembling Machine

This machine is used for assembling the angle valve.



Power: 1.5kw
Rotating Ratio: 1:59
Weight: 0.9t

Leakage-testing Machine

This machine is used for testing the leakage of LPG cylinder.



Air Pressure: 0.6Mpa
Air Pressure for Testing: 2.2Mpa
Pressure-keeping Time: 60s
Weight: 1.8t

Base Rolling Machine

This machine is used for rolling the base of LPG cylinder.



Power: 1.5kw
Working Voltage: 380v 50hz
Working Efficiency: 240pcs/hour

Shield Rolling Machine

This machine is used for rolling the shield of LPG cylinder.



Power: 2.2kw
Working Voltage: 380v 50hz
Working Efficiency: 180pcs/hour

Circle Cutting Machine

This machine is used for cutting circle sheet.



Power: AC 380v
Motor Power: 3kw
Thickness: 1-3.5mm
Dia.: 300-800mm

Straight Seam Welding Tool

This machine is used for straight seam welding.



Voltage: AC380v+N
Air Pressure: 0.4-0.7Mpa
Rotating Speed: 0-5/min(adjustable)
Motor Power: 1.1kw

Circular Seam Welding Tool

This machine is used for circular seam welding.



Voltage: AC380v+N
Air Pressure: 0.4-0.7Mpa
Rotating Speed: 0-5/min(adjustable)
Motor Power: 1.1kw

Other Machines



Guard Automatic Welding Machine



Foot Ring Automatic Welding Machine



Water Pressure Leakage Testing Machine



Cleaning Machine



Sand-blasting Machine



Trimming Machine



Reference Projects



Reference Layout

