



ROLL FORMING
COMPANY LIMITED

ROLL FORMING

The most reliable partner
a company toward the world



ROLL FORMING
COMPANY LIMITED

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ROLL FORMING
COMPANY LIMITED

Sharing technical Know-how, get Customers' credibility
with Quality products containing a soul.

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Building A [Office Building]

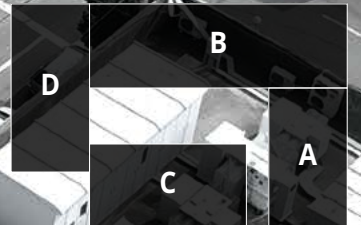
Machine shop, R&D, Sales Dep.,
Overseas business dep.
General affairs dep.
Maintenance dep.

Building B [Machine manufacturing]

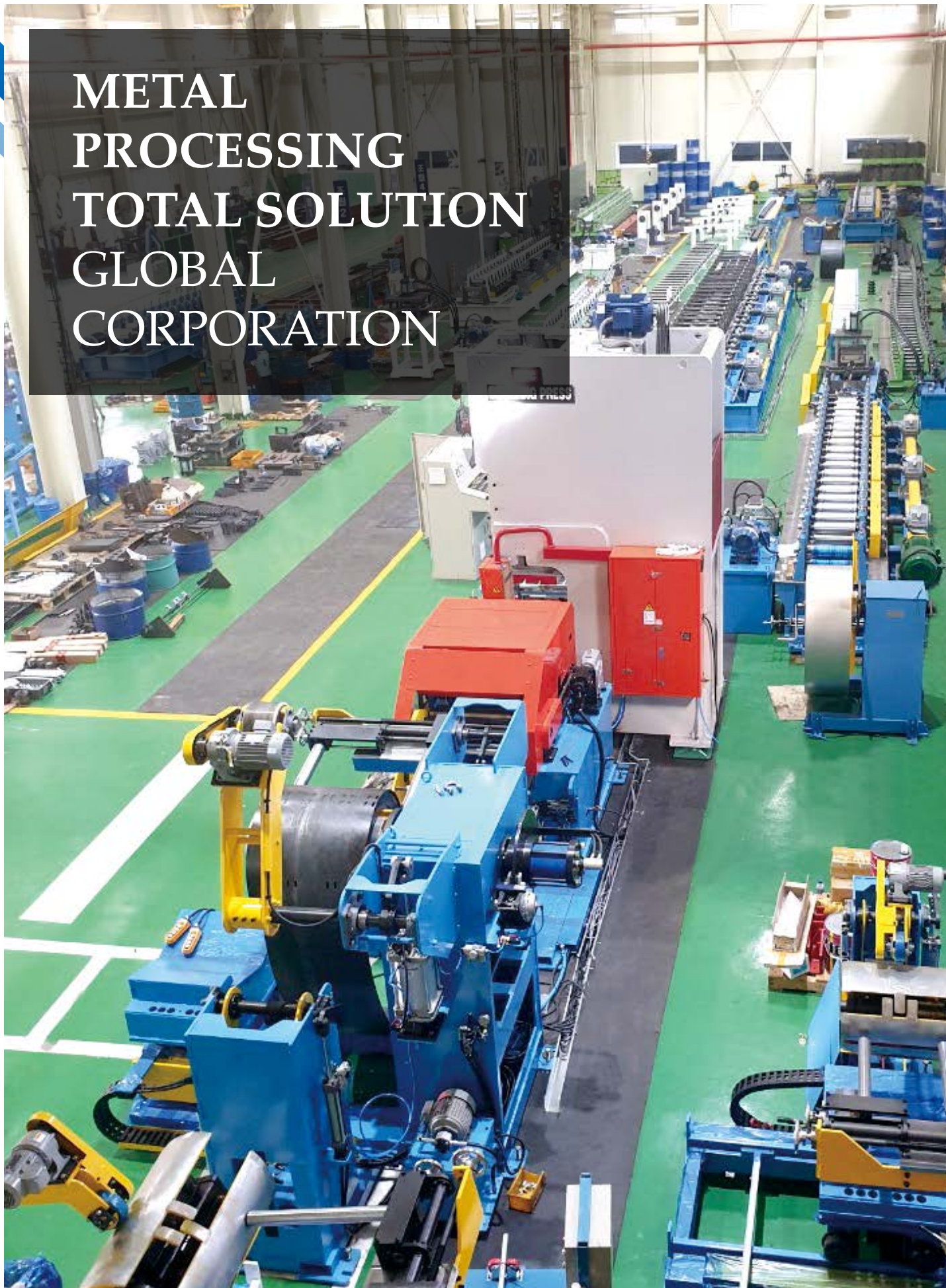
Machine assembly shop,
Welding shop,
Filed office.

Building C [Roll forming line]

Building D [Roll forming line]



METAL PROCESSING TOTAL SOLUTION GLOBAL CORPORATION



CEO greeting

Professional Quality for the Best Performance

We, ROLL FORMING CO., Ltd., are specialized in the design, development and manufacture of wide range of sheet metal coil processing equipment which includes but not limited to roll forming machine line, tube mill line with high frequency welding system.

To meet your specific needs, we always try to find the best solutions which can optimize your production processes and maximize the production rate.

From the consult, design, development, manufacture and supervision of commissioning to maintenance work, we are committed to providing a high quality, professional service to our clients and becoming the most reliable partner to you all.

Thank you

Wan-seob Lee
President of Roll forming Co., Ltd.



The structure of Roll forming line



Roll forming line, which is fundamental equipment in the steel industry, forms a steel coil sheet into the profile such as guardrails, solar frames, sound proof panels, safety foot, cable trays, punching trays, swage beams, roofing panels, window rails LED-light covers, interior and exterior construction material and all kind of channels. The range of production can't be limited and it can also produce new materials for new industries in the further.



Auto-packing machine



Stacker



Un-coiler

N.C Leveler Feeder

Press system

Shearing Machine

Run-out conveyor

Forming stage

There are different types of Roll forming machines. **The Plate-fixed type** is the exclusive use machine to produce only one kind of profile and **the stand roll-replacing type** that is able to replace the rolls comfortably to produce other profiles. **The cassette-change** type makes replacement of rolls more quickly than the stand roll-replacing type to prepare for production.

The number of forming stand is decided depending on the shape of profiles and the fly-cutting machine cutting formed profiles is designed as the ball-screw type or the rack-gear according to the production capacity.

We, Roll forming company limited, customizes and constructs a various types of roll forming lines including a **standard type**, a **hydraulic press type**, a **CS-Press type**, a **width-adjustable type** and etc.



Punch mold



Roof system



Welder

Standard Roll forming line



Standard -roll forming line is mainly composed of a **forming machine**, a **fly cutting** and a **conveyor** of which the specifications are decided according to the material and shape of profiles which customers need to form. The out conveyor is an equipment to be used for travelling and stacking the formed profiles. Conveyors are manually operated but the automatic equipment can be added by customers' request.

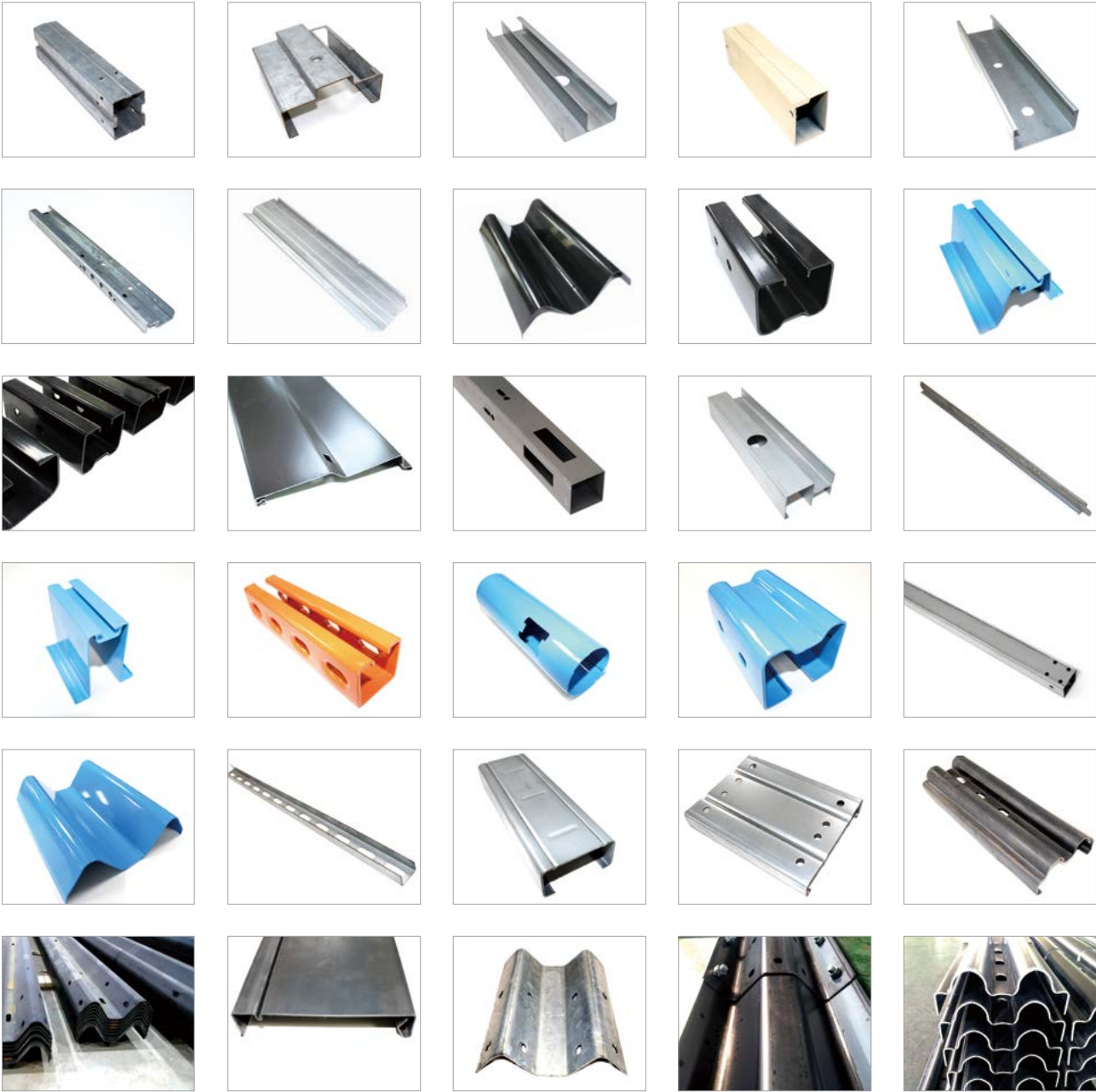


Oil-Hydraulic press type Roll forming line



This roll forming line is constructed when punching process is required to make hole on the profiles. The standard -roll forming line is equipped with an oil-hydraulic press machine and a N.C leveler feeder that setup and control a distance between holes.

Oil-Hydraulic press type Roll forming line has an advantage of punching **irregular and discontinuous holes** on the formed profiles. This roll forming mainly produces solar frames, electric panels, guardrails and etc.



CS press type Roll forming line



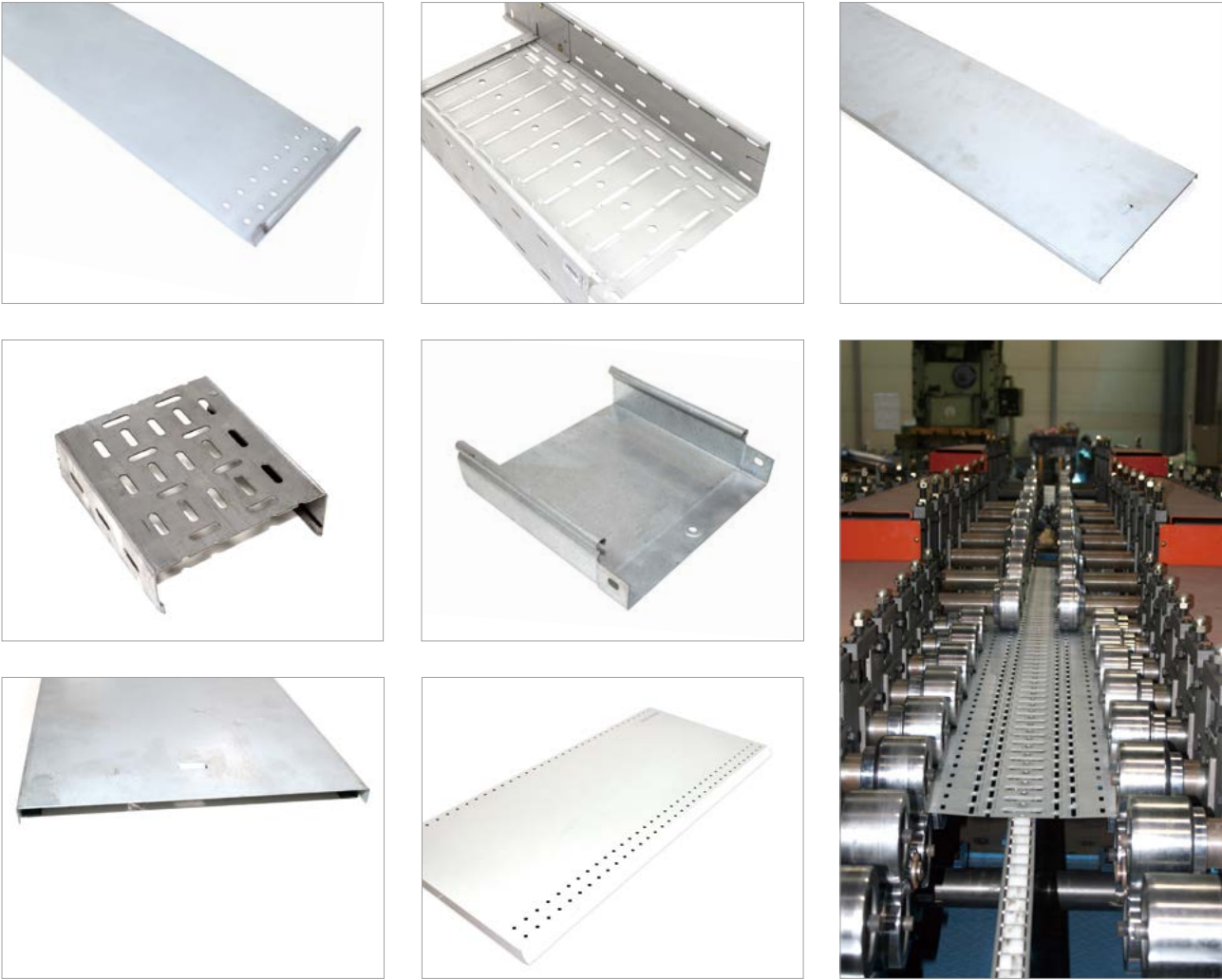
This forming line is equipped with CS press machine. Likewise, it punches holes on the formed profiles. The process is similar to the oil-hydraulic press type but CS Press machine has an advantage to make **regular and continuous holes** at a much faster rate. This roll forming line is widely used to produce system channels, cable trays, safety foot and etc.



Width-adjustable type Roll forming line



Width-adjustable type Roll forming line is designed for the purpose of avoiding time consuming work which can cause low productivity when users replace rolls to produce profiles in different width. This roll forming line produces any desired width of profiles without replacing rolls.



Additional equipment



Considering the property of profiles, capacity, work environment and etc. you can add additional equipment to the customized roll forming line. We manufacture welding machine, bending machine, auto-packing system and we invent other necessary equipment that our customers need.



Welding machine

When welding process is required on the formed profiles, welding machine can be equipped before the cutting process.



Stacker

Stacker is a device to extract the formed profiles right after the cutting process. Depending on the profiles, you can select the way of stacking such as down stacking, magnet, air vacuum, over-lap and etc.



Bending machine

This equipment can be added to the Roll forming line in order to bend the profiles or steel sheets. The bending machine is representatively able to shape the corner of Guardrails and cable trays into round shape.



Magnet stacker for guardrails



Welding machine for width-adjustable Cable trays



Welding machine for cable trays



SPOT welding machine



Stackers for channels



Stacker for Guardrails



Bending machine



Bending machine for 2&3 wave guardrails



Stacker for side-rails



Mini-forming machine



Tube Mill Line

Model : RFM-TM 100 to 1200

Tube mill line produce pipes welded by using high frequency induction heating apparatus(ERW). Automatic welding and cutting proceed after forming a slit coil continuously to the desired standard.

Tube mill line is composed of **Entry section, Mill section, Cutting section** and **Finishing section**

Specification

Pipe standard : KS, BS, DIN, ASTM, API

| Model | Pipe size (inch) | Tube OD (mm) | Square Tube (mm) | Thickness (mm) |
|-------------|------------------|---------------|------------------|----------------|
| RFM-TM 100 | 1" | Ø10-Ø25.4 | 12×12-20×20 | 0.4-2.0 |
| RFM-TM 150 | 1 ½" | Ø10-Ø38.1 | 12×12-30×30 | 0.6-2.4 |
| RFM-TM 180 | 1 ¾" | Ø12.7-Ø50.8 | 12×12-40×40 | 0.8-3.2 |
| RFM-TM 200 | 2" | Ø21.7-Ø60.5 | 15×15-50×50 | 0.8-4.0 |
| RFM-TM 250 | 2 ½" | Ø25.4-Ø76.3 | 20×20-65×65 | 1.0-4.5 |
| RFM-TM 300 | 3" | Ø34-Ø89.1 | 25×25-70×70 | 1.4-4.5 |
| RFM-TM 500 | 5" | Ø50.8-Ø139.8 | 40×40-100×100 | 1.6-6.5 |
| RFM-TM 600 | 6" | Ø60.5-Ø168.3 | 50×50-125×125 | 2.0-7.9 |
| RFM-TM 800 | 8" | Ø89.1-Ø219.1 | 70×70-175×175 | 3.2-9.5 |
| RFM-TM 1200 | 12" | Ø114.3-Ø323.9 | 90×90-250×250 | 4.5-12.7 |



The structure of Tube mill line



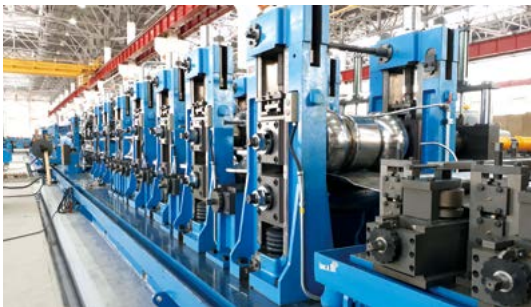
Un-coiler



Shear & Welder



Accumulator



Forming Stage



Cut off



Pinch Leveler



QC stand



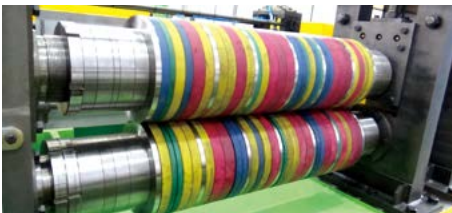
High frequacny Welder



Automatic packing machine

Slitting Line

Slitting line slit steel coils to meet the size of desired profiles. It is basically composed of a un-coiler, a slitte, a re-coiler.



| Type | Material | Thickness of sheet | Width | Line speed |
|-----------------|-------------------------------|--------------------------------------|--|-------------------|
| CR Slitter line | CR, GI, AL,S TANLESS | 0.2-1.6mm 0.3-2.3mm 0.5-3.2mm | 600-800mm 1,220mm 1,550mm 1,830mm | Max. 250M/Min. |
| HR Slitter line | HR, HR STAINLESS | 1.2-6.4mm 1.5-9.0mm 3.2-12.7mm | 600-800mm 1,220mm 1,550mm 1,830mm | Max. 150M/Min. |

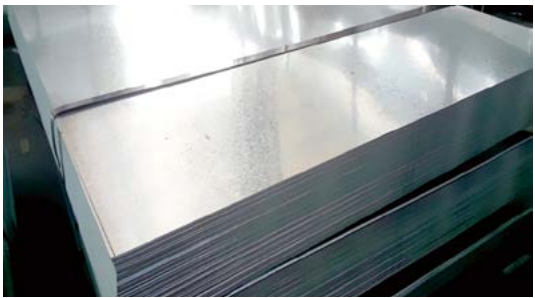
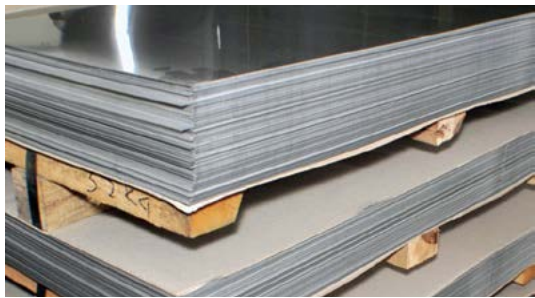
Shearing Line

(Cut-to-Length Line)

Shearing line cut steel coils into steel sheets according to the desired profiles. In other word, it called 'Cut-to-length line'. The structure of shearing line consists of a un-coiler, a lever feeder, a shear machine, a piler and a lift that move and stack the cut-sheet automatically.

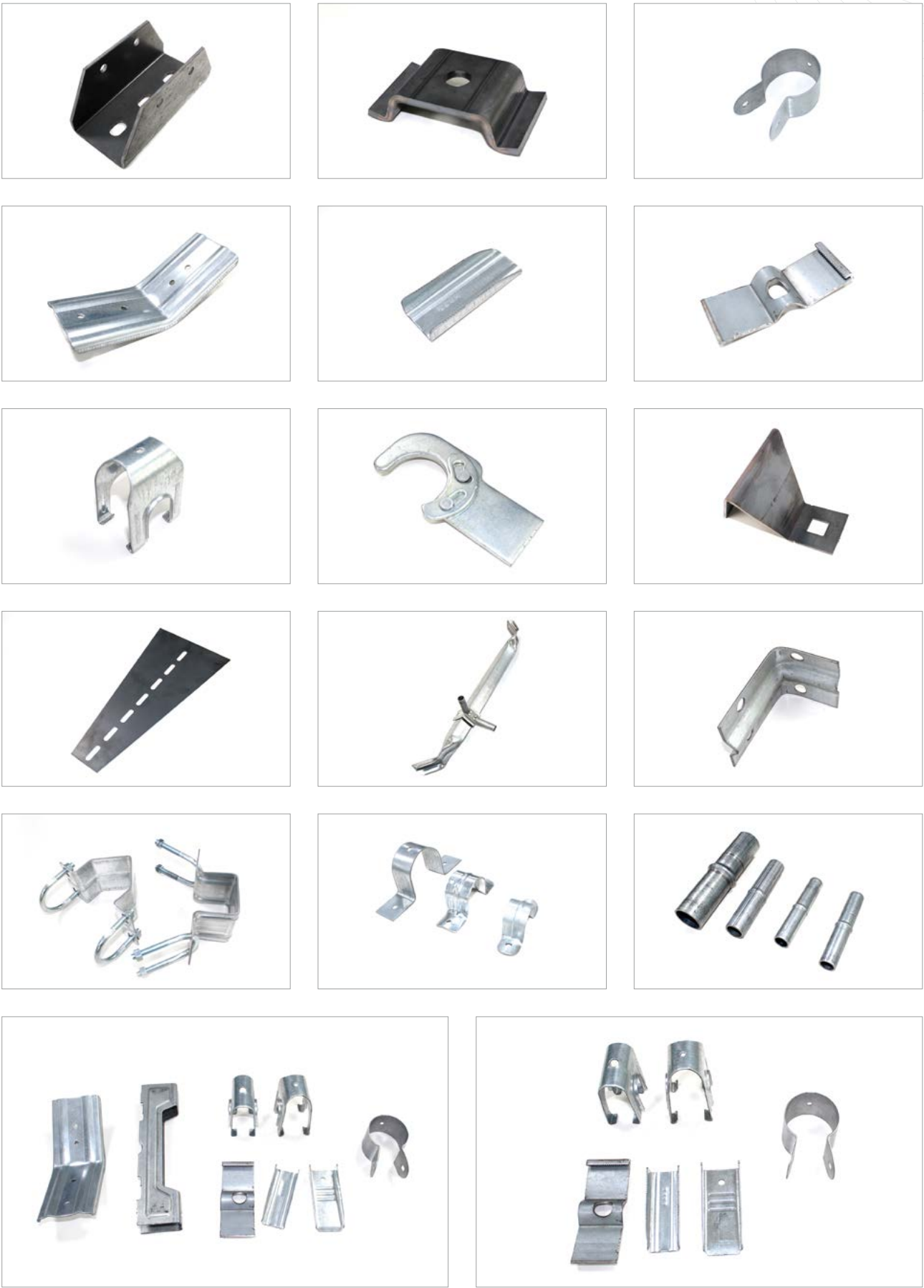
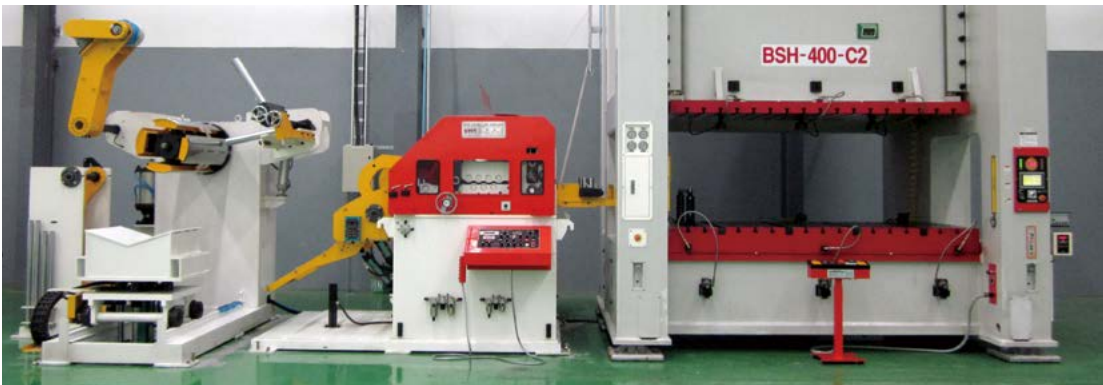


| Type | Material | Thickness of sheet | Width | Line speed |
|------------------|----------------------------|--------------------------------------|--|------------------|
| CR Shearing line | CR, GI, AL, STANLESS | 0.2-1.6mm 0.3-2.3mm 0.5-3.2mm | 600-800mm 1,220mm 1,550mm 1,830mm | Max. 80M/Min. |
| HR Shearing line | HR, HR STAINLESS | 1.2-6.4mm 1.5-9.0mm 3.2-12.7mm | 600-800mm 1,220mm 1,550mm 1,830mm | Max. 30M/Min. |



Press-Automation System

A designed metal mold, corresponding to the standard and shape of products, is installed in a press machine with a un-coiler and a leveler feeder. This Press-automation system is able to produce small products and various brackets massively at a high rate of speed.







Toll processing

We, Roll forming company limited, have our own Roll forming line to meet the demand from customers and our professional staff members are constantly engaged in research and development. You are fully satisfied with our productive capacity, technology application and immediate response.



| | | |
|----|---------------------------|--|
| 01 | Consulting product | ▶ Talk over the produceableness, way of delivery, quantities, lead time according to shape and material of products. |
| 02 | Estimating and Scheduling | ▶ Estimate cost of products based on the level of products and output. |
| 03 | Customers' work request | ▶ Consult with customer about output, work, date of delivery, material supply and etc. |
| 04 | Design | ▶ Make a plan about roll design corresponding to the products. |
| 05 | Prototype production | ▶ To produce the best quality of products, produce the sample first and get an approval from customer. |
| 06 | Mass production | ▶ Start to produce the products in the best quality approved by customers. |
| 07 | Shipment | ▶ Release the products form factory in the way of delivery pre-agreed with customers before dead-line. |

The specification of Roll forming line

| | | | |
|------------|---|--------------------------|--------------------|
| Line No. 1 |  | Thickness of coil | 0.8mm ~ 3mm |
| | | Width of coil | 30mm ~ 410mm |
| | | Length of product | 300mm ~ 10,000mm |
| | | The number of roll stage | 25 stage |
| Line No. 2 |  | Thickness of coil | 0.8mm ~ 3mm |
| | | Width of coil | 30mm ~ 410mm |
| | | Length of product | 300mm ~ 10,000mm |
| | | The number of roll stage | 25 stage |
| Line No. 3 |  | Thickness of coil | 0.8mm ~ 2mm |
| | | Width of coil | 30mm ~ 220mm |
| | | Length of product | 300mm ~ 10,000mm |
| | | The number of roll stage | 18 stage |
| Line No. 4 |  | Thickness of coil | 1mm ~ 2mm |
| | | Width of coil | 500mm ~ 730mm |
| | | Length of product | 1,000mm ~ 20,000mm |
| | | The number of roll stage | 25 stage |

