



BALA PRITAM ROLL FORM

**OUR MACHINERY ENSURES PRECISE
AND EFFICIENT METALWORKING**

HIGH-QUALITY ROLL SHEET METAL WORKING MACHINERY



Our Machinery Ensures Precise and Efficient Metalworking

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Our Machinery Ensures Precise and Efficient Metalworking

INTRODUCTION

Demands of Roofing Sheet and Roofing Tile Roll Forming Machine are fulfilled by us, BALA PRITAM ENGINEERING. Works, in considerably less time period. Reason being, our focus on utilization of latest technology, equipment and machines in the fast production of Shutter Profile Machine, Crimping Machine, Decking Machine, Door Frame Profile Machine and more. Constant reliance on contemporary techniques and production methods enables us to elevate our quality standards, reduce downtime and manage production costs. Partnering with an industry leading roll forming machine manufacturer and supplier, means allying with a team of experienced professionals which is committed to supporting client business and efficiently solving all issues. Pursuing a collaborative approach throughout all aspects of business from design, engineering to assembly, our employees help us in finishing our tasks, well before the expected date of delivery. Besides, we have engineering technicians who are service providers and experts in rendering Roll Forming Line Services, without any glitch

Sheet metal work is very useful trade in engineering work and for our day-to-day needs. Many articles (household and engineering) whose production of other methods will be uneconomical and complicated are made from metal sheets. It is necessary to understand the construction and working of hand tools, sheet metal working machines and basic principles of different operations, to attain proficiency in the trade. For successful working in the trade, we must have a good knowledge of projective geometry, development of surfaces and properties of different metals.

Working

Sheet metal working is generally associated with press machines and press working. Press working is a chip less manufacturing process by which various components are produced from sheet metal. The thickness of metal varies from 0.1 mm to 10 mm. Press machine consists of a frame which supports a ram and bed and a mechanism for operating the ram

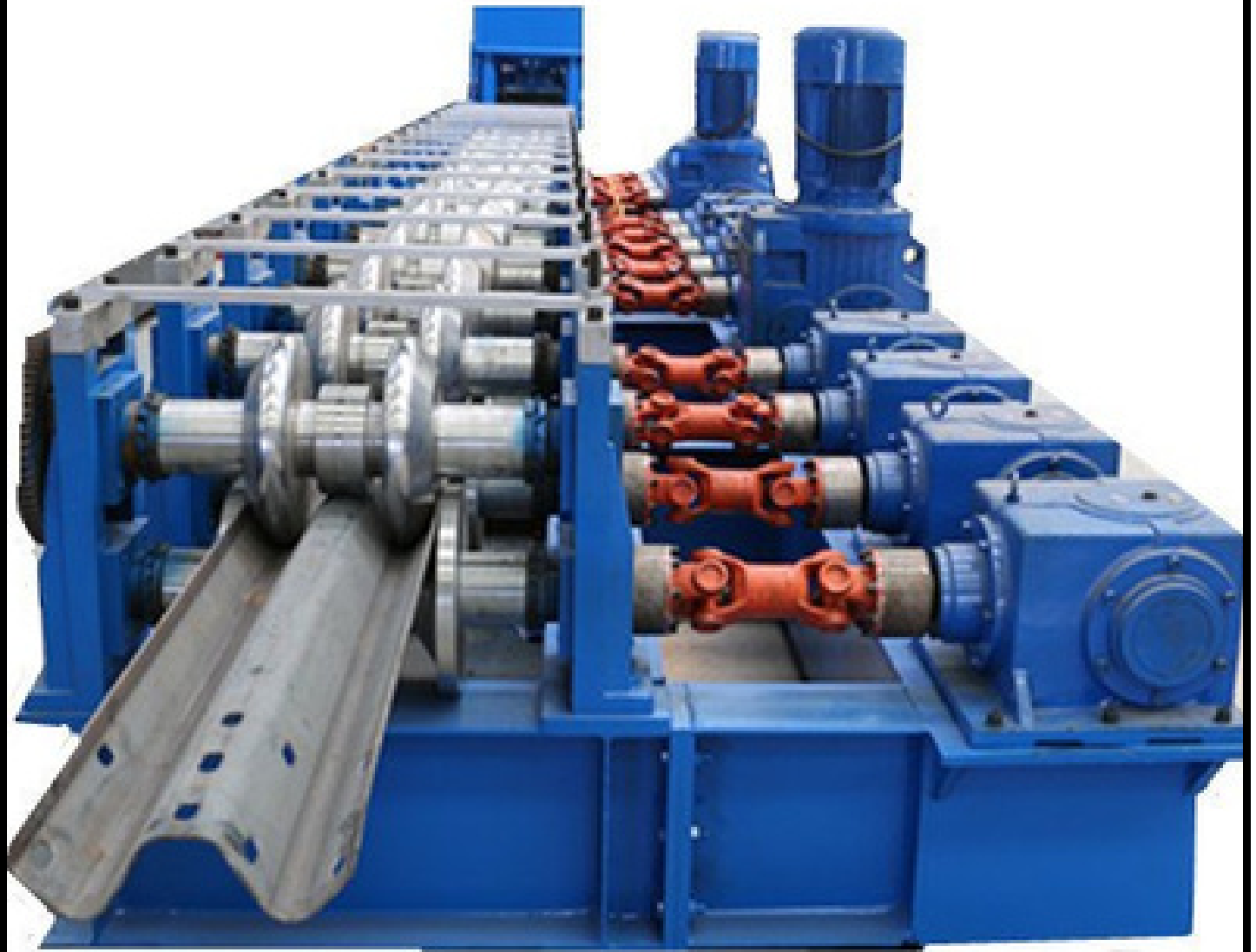
Our Machinery Ensures Precise and Efficient Metalworking

The future of roll forming is here.



ROLL FORMING MACHINE

Roll forming, also spelled **roll-forming** or **roll-forming**, is a type of [rolling](#) involving the continuous [bending](#) of a long strip of [sheet metal](#) (typically coiled [steel](#)) into a desired [cross-section](#). The strip passes through sets of rolls mounted on consecutive stands, each set performing only an incremental part of the bend, until the desired cross-section (profile) is obtained. Roll forming is ideal for producing constant-profile parts with long lengths and in large quantities. **Roll forming**, also spelled **roll-forming** or **roll forming**, is a type of [rolling](#) involving the continuous [bending](#) of a long strip of [sheet metal](#) (typically coiled [steel](#)) into a desired [cross-section](#). The strip passes through sets of rolls mounted on consecutive stands, each set performing only an incremental part of the bend, until the desired cross-section (profile) is obtained. Roll forming is ideal for producing constant-profile parts with long lengths and in large quantities. The **Roller**, also known as a station, is a mechanical component used to process sheet metal, which is gradually bent as the sheet metal is processed between the roller, in conjunction with multiple rollers operating in steps to obtain the required shape of part.



HI - RIB FORM MACHINE



With JSEP's Hi Rib Profile Roll Forming Machines, achieve unmatched excellence in every metal sheet. Our machines integrate cutting-edge technology to ensure precision in profile shaping, maintaining tight tolerances.

Whether it's for roofing, cladding, or various architectural uses, the Hi Rib profile delivers enhanced strength and impeccable drainage capabilities, adapting effortlessly to diverse applications.

SPECIALIZATIONS

The Hi Rib Roll Forming Machine by JSEP showcases their expertise in metal roofing and cladding solutions. This machine is optimized for crafting high-quality hi rib profiles, perfectly suited for construction and industrial projects.

Stringent Quality Control Measures

Our commitment to quality is unwavering. We implement stringent quality control measures at every stage of the manufacturing process. From material selection to final assembly, we leave no room for compromise.

Tile Profile Machine

Tile Profile Roll Forming Machine, a cutting-edge solution that transforms raw materials into exquisite roofing sheets with the charm of traditional tiles.

With decades of experience in the industry, JSEP brings you a reliable and high-quality solution that combines aesthetics with functionality.

Mimicking Elegance

Our Tile Profile Roll Forming Machine is a true marvel. It is designed to create roofing sheets that mimic the elegance of clay or concrete tiles, adding a touch of sophistication to your structures. The advanced technology incorporated in this machine ensures a seamless and accurate profiling process, resulting in roofing sheets that are not only uniform but also irresistibly attractive.

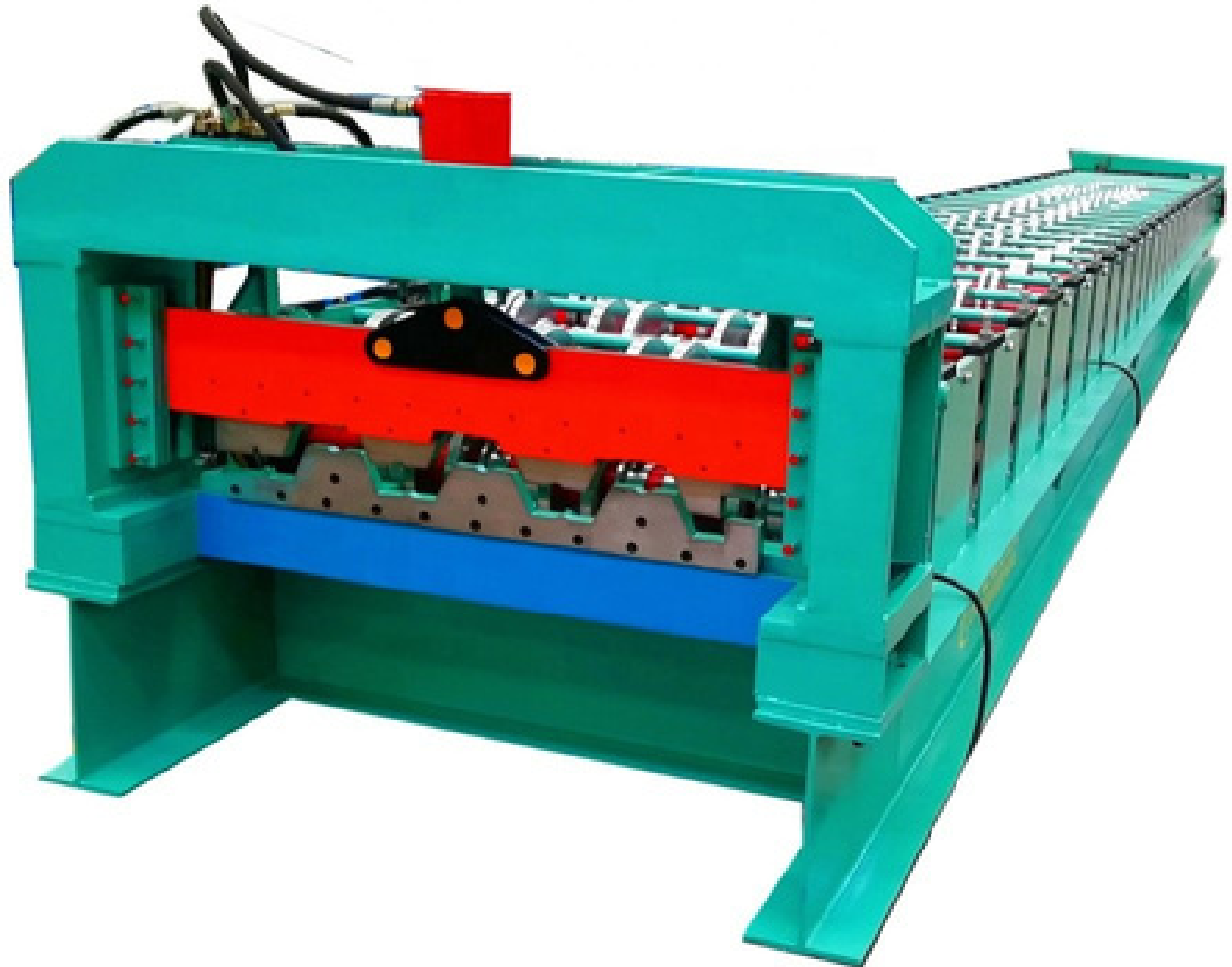
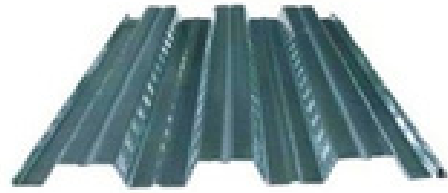
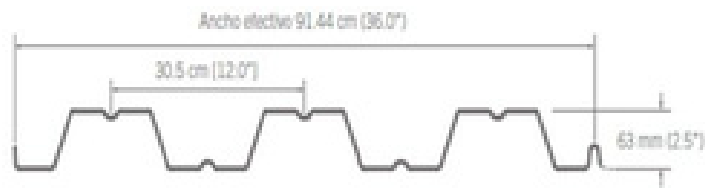
Versatility in Applications

Whether you are embarking on new construction or renovation projects, our Tile Profile Roll Forming Machine delivers roofing solutions that are both durable and visually appealing. Its versatility allows it to cater to various sectors, including residential, commercial, and industrial projects.



DECK PROFILE MACHINE

The Deck Profile Roll Forming Machine is a specialized equipment designed to manufacture deck profile sheets, which are widely used in the construction industry for creating robust and reliable floors. This machine utilizes advanced roll forming technology to precisely shape



Our Steel Deck Profile Roll Forming Machine truly shines with its exceptional versatility and customization options. Equipped with adjustable setting and user-friendly controls, it streamlines the production of steel decks with varying dimensions and specifications

LINEAR PROFILE MACHINE

The Liner Profile Roll Forming Machine by JSEP represents specialization in the realm of metal cladding and roofing solutions, particularly tailored for liner profiles.

- The linear profile allows the photographer to take a step back and work more directly with the image's unprocessed data. Working with just the linear profile, the photographer is able to exercise maximum control over the RAW file conversion
-



CORRUGATED PROFILE MACHINE

Our Corrugated Profile Roll Forming Machine is a masterpiece of design and technology. Engineered with precision, it ensures exceptional performance and longevity. The machine's innovative design enables it to create corrugated profiles with unmatched accuracy.

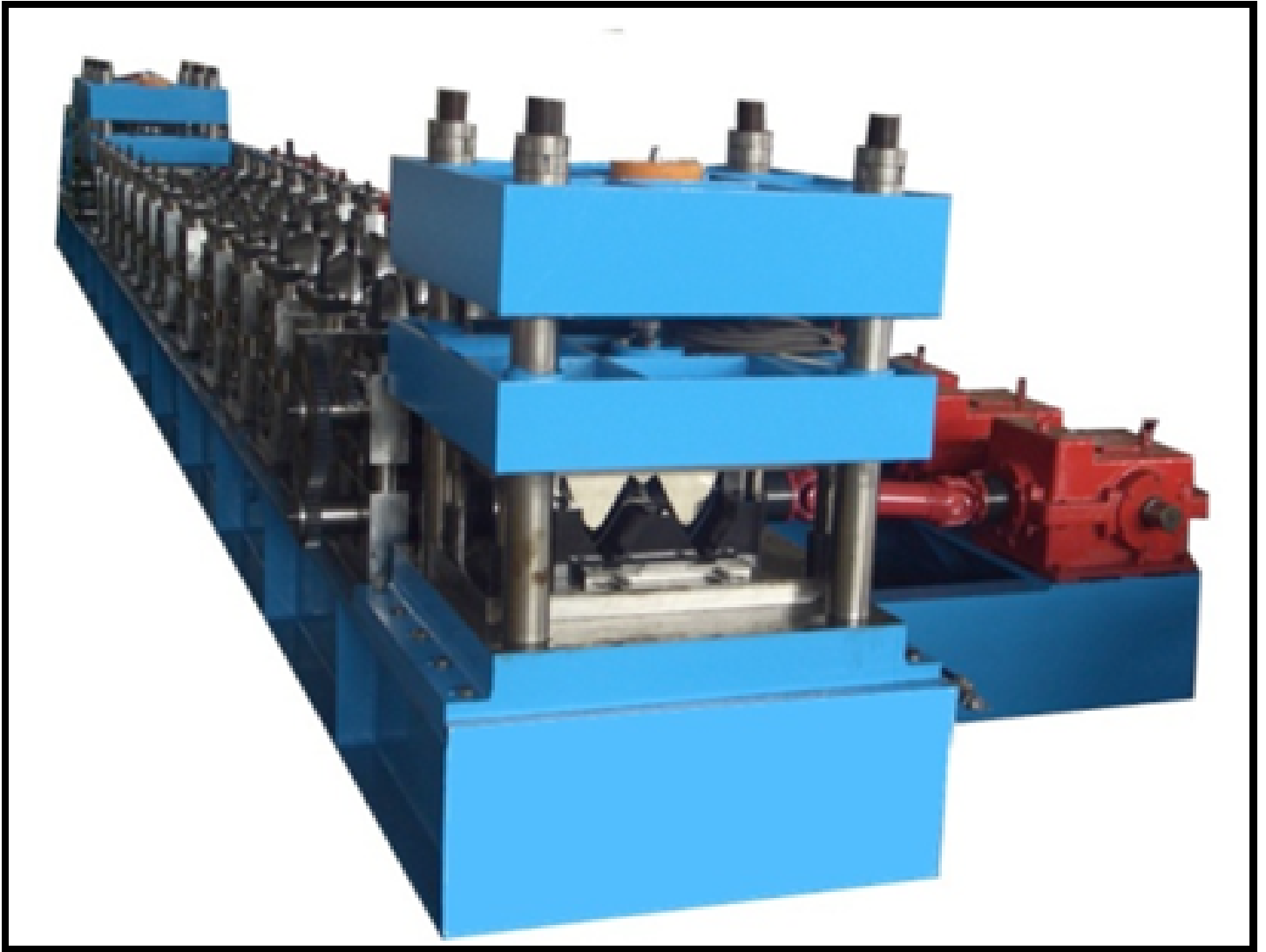


BAMBOO PROFILE MACHINE



Bamboo Sheet Roll forming is continuous bending operation in which a long strip of metal sheet (usually steel coils, like PPGL, PPGL, GI, PPGL, BGL, Aluminium etc.) passes through sets of rolls mounted on consecutive stand each set performing only an incremental part of the bend, until the desired cross-section profile is obtained. Roofing sheet roll forming machine consists of an automatic De-Coiler feeding guide, roll forming unit, hydraulic cutter with PLC base control system. We are involved in offering a wide array of Color sheet making machine that is manufactured using high grade raw material and the latest technology with the set universal standards.

GUARDRAIL MACHINE



Highway guardrail machines are essential equipment in the construction and maintenance of road infrastructure, providing efficient solutions for manufacturing and installing highway guardrails. These machines play a crucial role in enhancing road safety by preventing vehicles from veering off-road or crossing into opposing lanes, reducing the severity of accidents and protecting lives. In this comprehensive guide, we'll explore the functionalities, applications, and benefits of highway guardrail machines, highlighting their significance in safeguarding highways and ensuring smooth traffic flow.

TRAPEZOIDAL PROFILE MACHINE

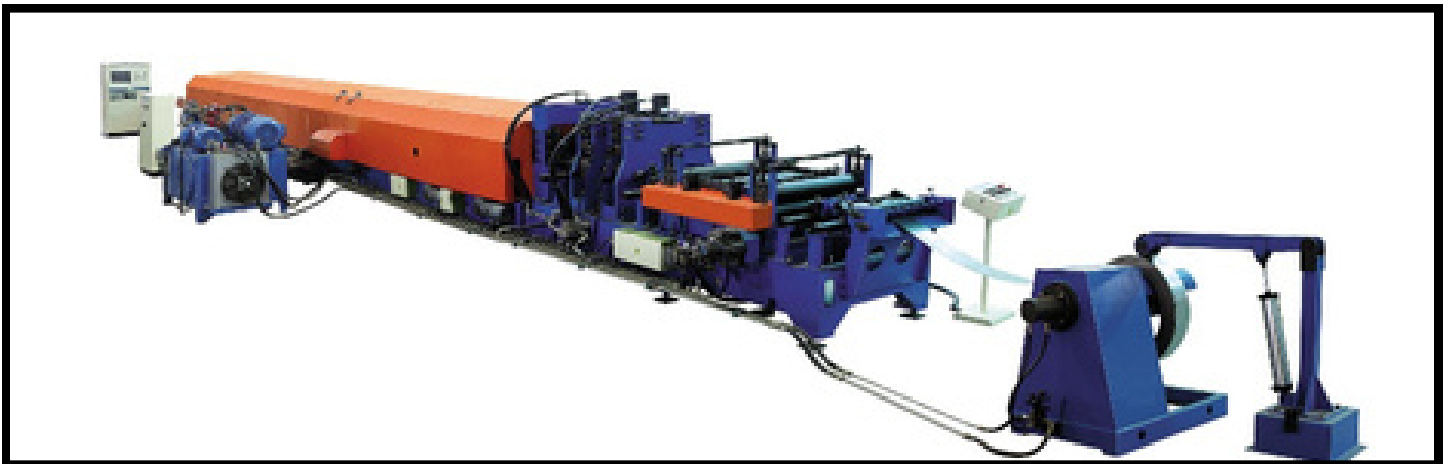
Trapezoidal Profile Roll Forming is a specialized manufacturing process that involves shaping flat metal sheets into profiled sheets with raised ribs. This process enhances the strength and rigidity of the sheets, making them ideal for a wide range of applications, including the production of Trapezoidal roof sheets.

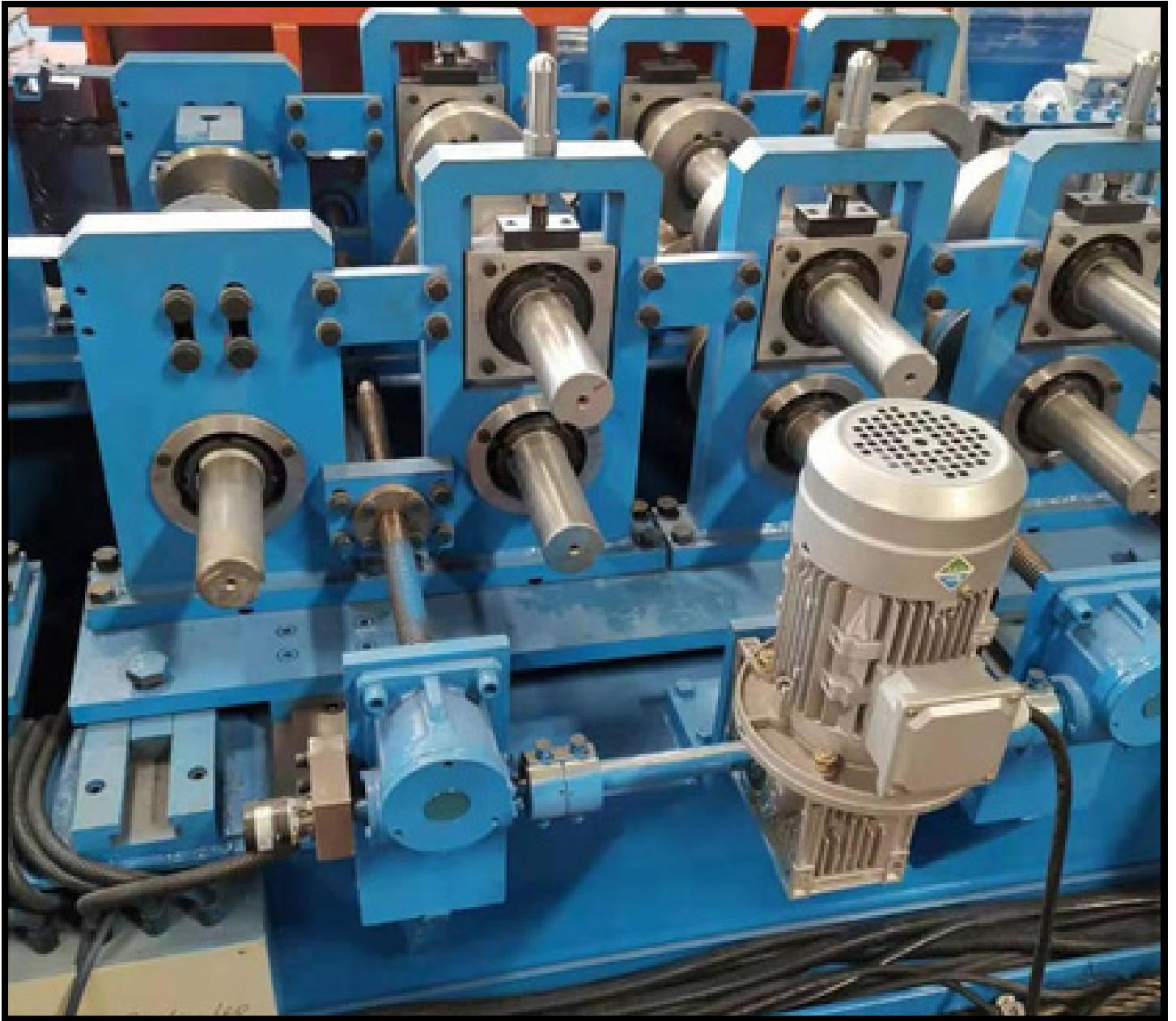


With JSEP's Hi Rib Profile Roll Forming Machines, achieve unmatched excellence in every metal sheet. Our machines integrate cutting-edge technology to ensure precision in profile shaping, maintaining tight tolerances.

Whether it's for roofing, cladding, or various architectural uses, the Hi Rib profile delivers enhanced strength and impeccable drainage capabilities, adapting effortlessly to diverse applications.

C & Z PURLIN MACHINE





FEATURES:

It is taking the advantage of manual non-level adjustment for producing varied specification of C & Z purlins, in no need of roller, punching mold, and cutter changed.

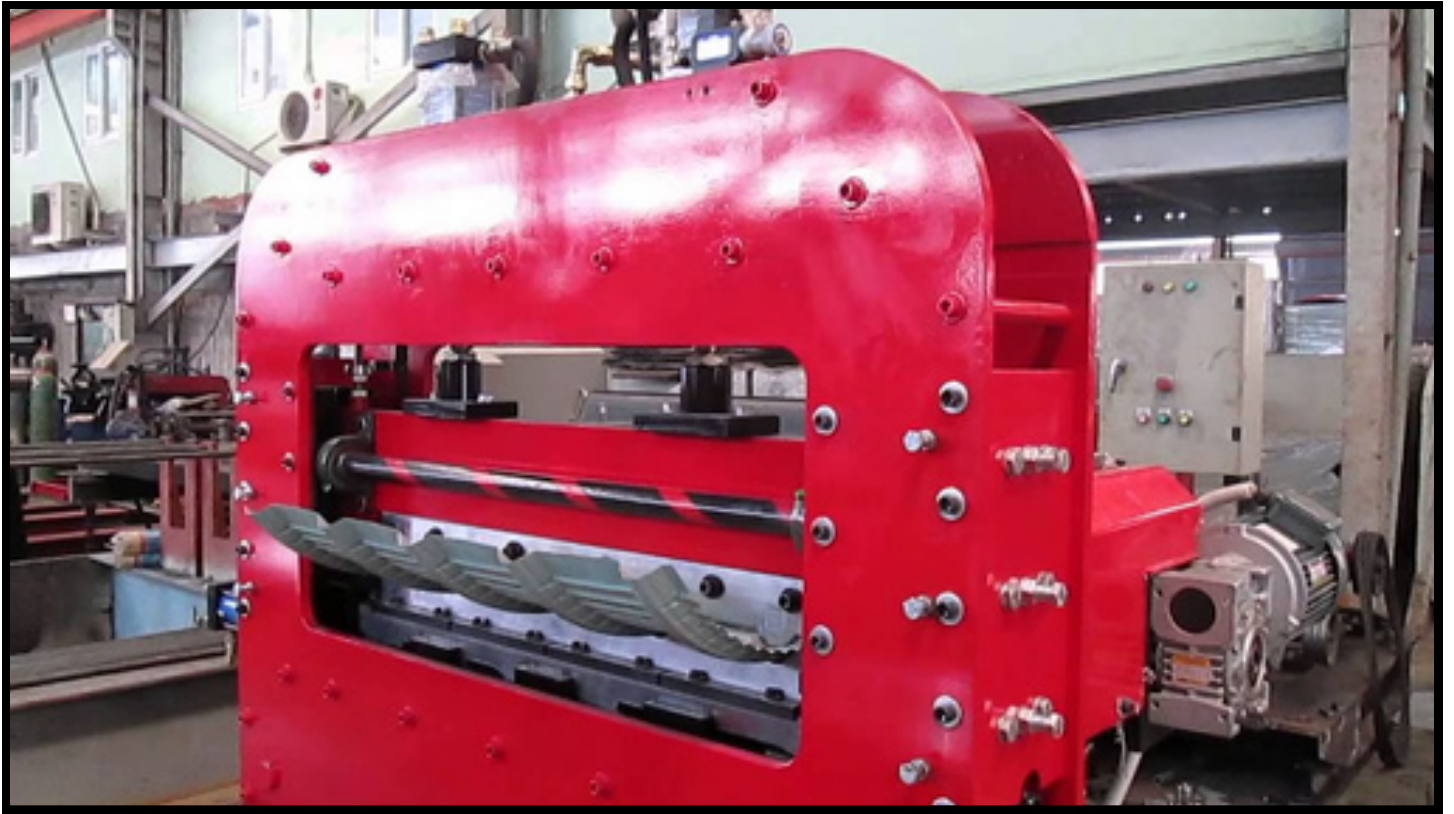
1 – Material Parameter 2 – Work Piece drawing& sample 3 – Machine Layout 4 – Production Process 5 – Machine Parts Specification and photos 6 – C/Z Tolerance MATERIAL PARAME

CUT TO LENGTH MACHINE



Chase Machine & Engineering's Ultrasonic Cut-to-Length Machine cuts and seals with ultrasonic technology. It operates in both directions to reduce cycle time and increase productivity. Now you can cut material to your desired length and seal the edges without beading or scorching. Two layers of materials can be folded together as they are cut to form a pouch or pocket. Our standard Cut-to Length Machines are capable of handling single- or multiple material webs totaling up to 30 inches in width in a single pass or multiple narrow strips cycling up to 25 cycles per minute.

CRIMPING CURVE MACHINE



A crimp bending machine is an advanced piece of equipment used in metal fabrication and forming. It is mainly used for precise crimping and bending operations on metal sheets to meet specific shape and structural requirements. The working principle of this machine involves creating bends or corrugations in the length of the metal material, thus increasing its structural strength and giving it unique aesthetic possibilities.

PUF PANEL MACHINE

Our PUF Panel Roll Forming Machines are the epitome of precision engineering. These machines are expertly designed to shape metal sheets used exclusively in the production of PUF panels. Their role in the manufacturing process of insulated panels renowned for their exceptional thermal efficiency cannot be overstated.



SLITTING ROLL FORMING MACHINE

Slitting machine are valuable tools for improving material utilization, reducing waste, and enhancing production efficiency. They are essential in industries where materials are supplied in coil or roll form and need to be converted into specific widths or formats to meet various manufacturing requirements.



HYDRAULIC DE-COILERS

We design and produce hydraulic de-coilers, e.g. de-coilers with hydraulic expanding system. There are different models of hydraulic de-coiler machines to carry 6 tons to 20 tons coil. The thickness of coil material can be between 0,5 – 6,0 mm. After loading the coil onto the de-coiler machine, de-coiler is expanding the mandrel in order to fix the coil. Mechanical De-coilers have manual or mechanical expansion system.



The hydraulic De-coiler is a versatile and efficient equipment for use in a variety of industries and production lines. With a maximum load capacity of 20 tons and maximum width of 1800mm, it is capable of handling large and heavy coil materials with ease.

PRESS BREAK MACHINE



Machine pressing tool for bending sheet and plate material, most commonly sheet metal. It forms predetermined bends by clamping the work piece between a matching punch and die.

A **press brake** is a machine used for bending sheet metal and metal plate, most commonly sheet metal. It forms predetermined bends by clamping the work piece between a matching top tool and bottom die. Bending process A high-tonnage hydraulic press brake

Typically, two C-frames form the sides of the press brake, connected to a table at the bottom and on a movable beam at the top. The bottom tool is mounted on the table, with the top tool mounted on the upper beam.

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