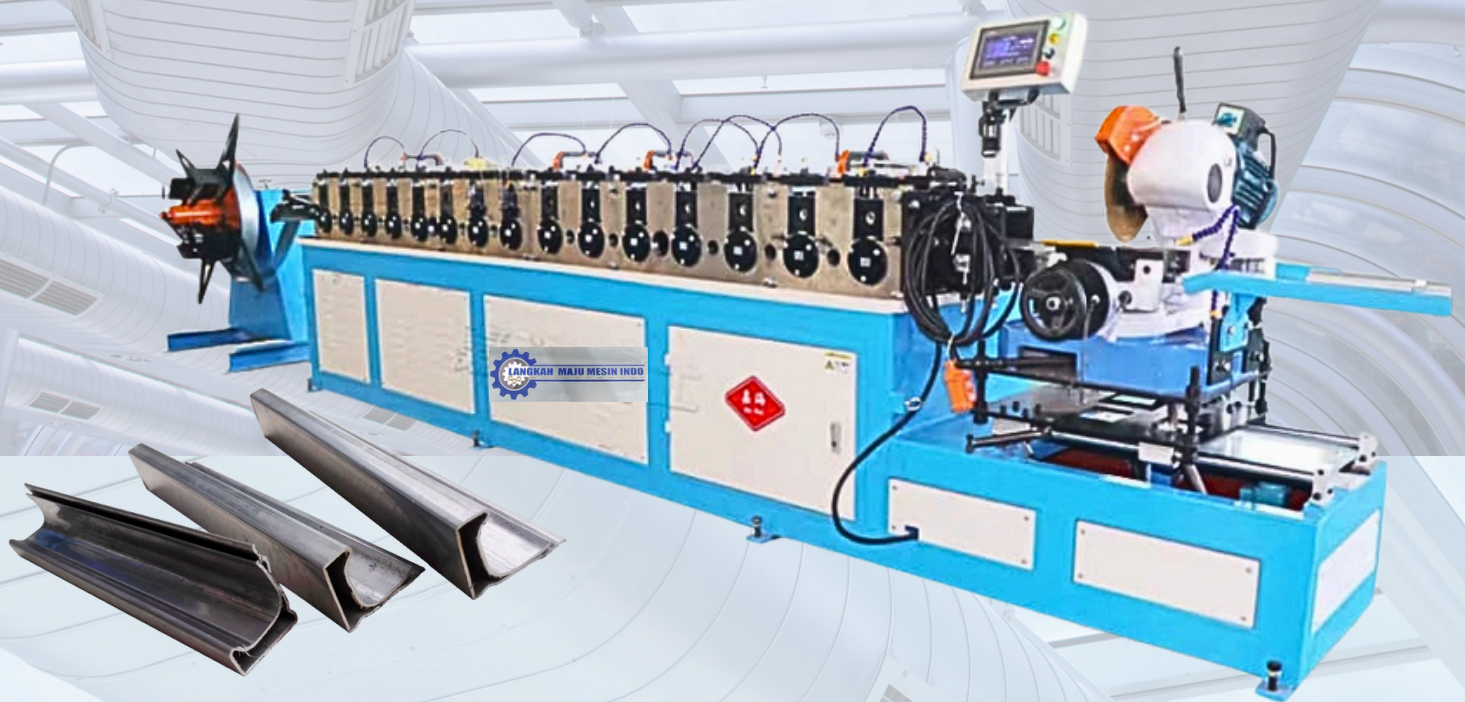


TDC

DUCT FLANGE

FORMING MACHINE



TECHICAL PARAMETERS

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UPDATE YOUR DUCT MANUFACTURE WITH TDC FLANGE FORMING MACHINE



The TDC (Transverse Duct Connector) Flange Forming Machine is a cutting-edge solution designed for high-efficiency roll forming of TDC flanges used in HVAC duct systems. Built with precision and reliability in mind, this machine is perfect for large-scale, high-volume production, offering exceptional performance for duct manufacturers across the globe.

The TDC Flange Forming Machine is compatible with a variety of materials, including cold-rolled steel, galvanized steel, and stainless steel, making it highly versatile for diverse HVAC applications.

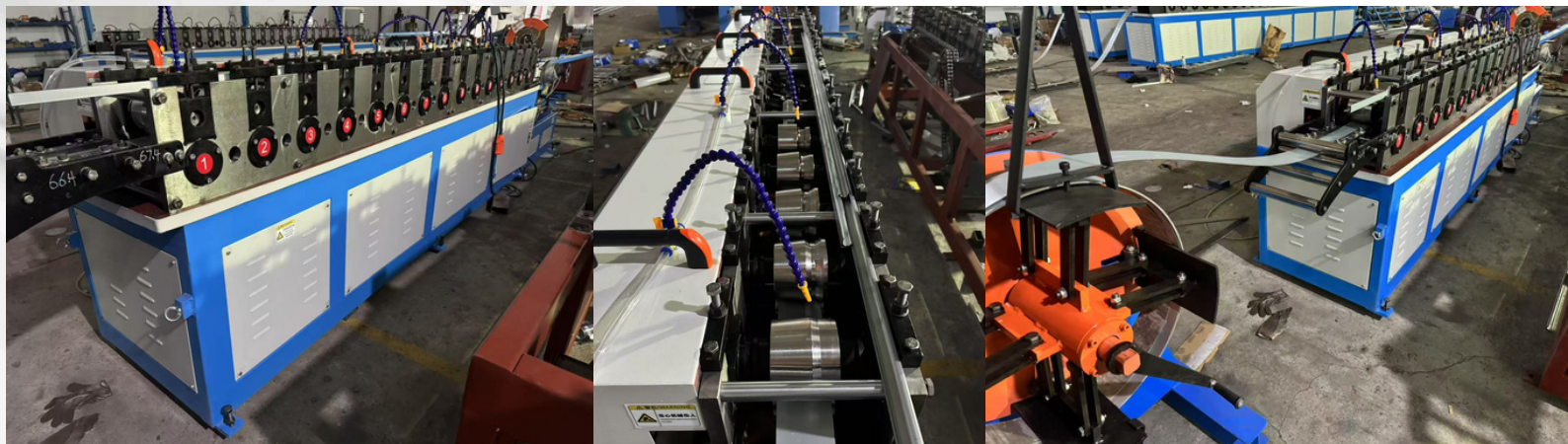
KEY FEATURES

- **High Load Capacity:** Equipped with an opening rack capable of handling up to 2 tons, this machine is built for heavy-duty operations and ensures smooth, continuous production without interruptions.
- **Precision Forming:** The machine features 17 high-quality forming rolls, made from high-grade alloy die steel, ensuring precise TDC flange shapes with every cycle. The use of needle roller bearings enhances stability and performance during high-intensity work.
- **Durable and Efficient:** The transmission gears are designed for durability and wear resistance, ensuring a longer lifespan for the machine and reducing maintenance costs. The high-quality power motor provides a reliable, consistent power supply for optimal operation.
- **Cut-to-Length Option:** The machine offers both a follow-up circular saw cut to length, as well as an optional program-controlled cut-to-length feature, providing flexibility and efficiency in managing your production needs.
- **Customized for Your Needs:** The high-strength machine support frame ensures stability during operation. We also offer custom voltage configurations to meet the specific needs of your facility.

TAKE YOUR DUCT MANUFACTURING TO THE NEXT LEVEL

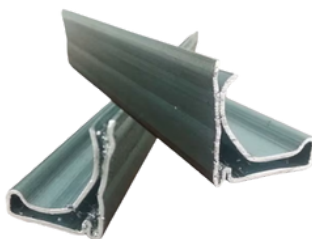
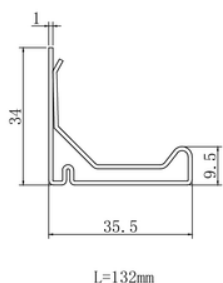
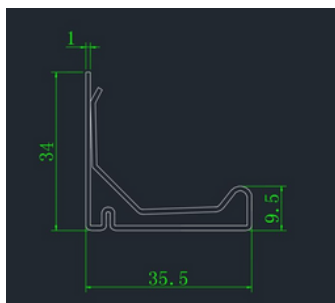
- **Increased Productivity:** With precise forming and efficient operation, this machine ensures higher throughput and less downtime, helping you meet tight project deadlines.
- **Long-Term Reliability:** The use of top-tier materials and components, such as the high-strength alloy rolls and needle roller bearings, ensures that the machine performs reliably over time, even in high-volume environments.
- **Cost Efficiency:** The durable design minimizes maintenance costs while improving production speed, reducing overall operational costs in the long run.
- **If you're looking to improve your productivity, reduce operational costs, and invest in durable, high-quality machinery, the TDC Flange Forming Machine is your solution.** Whether you're working with large or small duct systems, this machine will help streamline your production process, ensuring fast, reliable, and high-quality results.

PARAMETERS OF TDC DUCT FLANGE FORMING MACHINE



- Color : The frame is blue, while the gear guard and panel are white.
- The cold bending forming machine includes: a feeding section, a main unit, a cutting section, and a material support frame.
- Profile Drawing Dimensions : Tolerance=1.0mm Material Length=132mm (actual material width)

PARAMETERS OF TDC-30 DUCT FLANGE FORMING MACHINE



Other TDC Profile :

TDC flange 15mm, 20 mm profile: 0.6 - 0.8 mm
 TDC flange 30mm, 35 mm profile: 0.8 -1.0 mm
 TDC flange 40mm, 50mm profile: 1.0 - 1.2 mm
 (Or can be according to client's requirement)

- The main unit is constructed from 100x50mm flat tubing, with a steel plate laid on the frame as the mounting base;
 - The side plates are S=25mm thick, precision ground, and the notches and holes are precision machined using a machining center;
 - Roller sets: 17+1 sets (including straightening rollers), material: Cr15, quenched to HRC58-60 °C and then precision machined on a CNC lathe;
 - Uses domestic Harbin 6207 bearings;
 - The main unit uses a 3.7kW hardened gear motor, providing quiet transmission, high precision, a linear speed of 0-5 meters/minute, and a voltage of 380V/3PH/50HZ;
 - Product length cutting method: touchscreen + encoder control circuit (high length accuracy);
 - Type 275 pneumatic cutting machine;
 - Gear transmission with simple cooling configuration;
 - 5-meter material support frame;
- TDC flange roll former is widely used for manufacturing TDC-20mm, TDC-30, TDC-40 wide side on frame flange etc. custom TDC flange profiles can be offered on request (1 Machine = 1 Profile). The ship on flange lines can also be equipped with a device for injection of sealing mastic directly during the forming process.
 - TDC flange roll former machine is consisted of decoiler, main forming units and cutting system. There are two kind of cutting system, one is simple grinding wheel cutter and the other is automatic cutting with high cutting speed up to 8m/min.
 - Usage: TDC (Transverse Duct Connector) system is a separate flange install onto the for rectangular ductwork. It is used for air duct combination with flange corner, flange cleats and clamps. The Flanges attach to the duct wall and have an integral mastic which allows the flange to seal itself to the duct. It make the air ducts leak-proof, durable and aesthetic.

Raw Material	GI Steel DC51+Z
Raw Material Thickness (mm)	TDC flange 30mm, 35 mm profile: 0.8 -1.0 mm (Or can be according to client's requirement)
Forming roller station quantity	About 16 Stations
Machine Weight	About 2000 KG
Line Dimensions	4850x700x1500mm

Warranty Scope :

- One year warranty against non-human-caused damage. (For example, if bearings are not lubricated, motor burns out due to phase loss, or belt/chain wear, the user shall be responsible for the cost.)
- Rollers are guaranteed for one year. (If double-layered plates cause the rollers to collapse or the material thickness is incorrect during this period, the user shall be responsible for the cost of the rollers.) To ensure long-term machine operation, the machine should be kept clean.



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