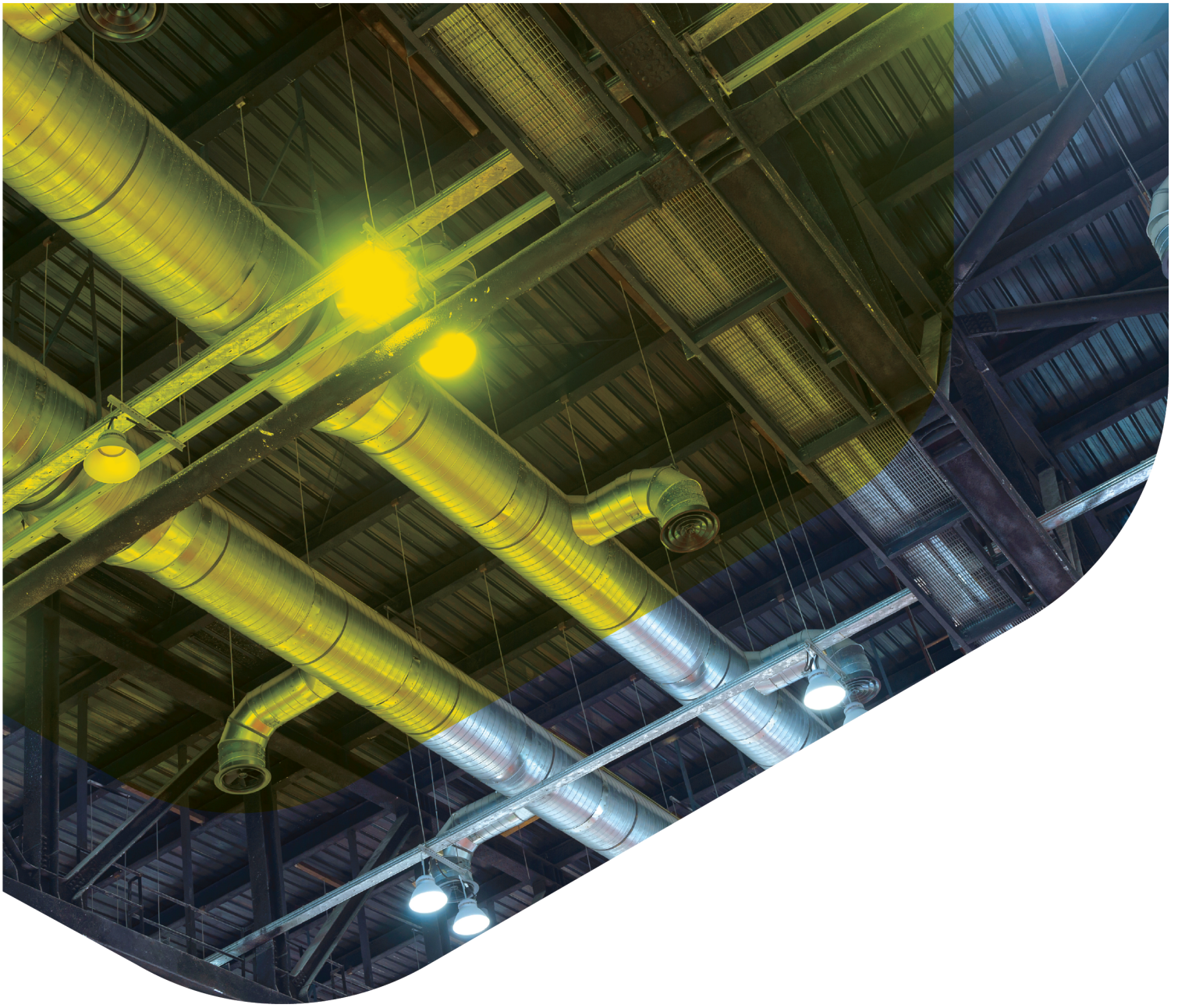


DUCTLANE
ENGINEERS
PVT LTD

Manufacturer of TDF, Spiral, Oval & Fabric Ducts used for HVAC and industrial Ventilation system.





Introduction

We take great pleasure in introducing

DUCTLANE ENGINEERS PVT. LTD .PUNE




About Our Company

DUCTLANE ENGINEERS PVT. LTD. Pune has aim for supplying the best in -class customized Hollow Profile solutions and other HVAC and Building products for commercial, industrial and residential HVAC applications.

Our organization is the brainchild of abundant experience and state of the art technology used in the manufacturing of world-class customized **AIR MANAGEMENT Products, Clean Room Equipment, Energy Efficient Flanges, LEAKAGE TESTING RIGS AND OTHER WIDE RANGE OF PRODUCTS.**

Our expertise lies in the creation, adaptation and improvisation of ductwork and accessories for various HVAC applications, we offer expert technical support and quality solutions.



“**DUCTLANE ENGINEERS PVT. LTD. Pune**”, is committed our “**CUSTOMER FIRST**” and will be constantly responded round the clock to our customers' needs in terms of

- Responsive to customers' need to innovate new products.
- Customized yet affordable solutions.
- QUALITY of products.
- CUSTOMIZED & Timely DELIVERY.
- Excellent after-sales services.
- Wide Product Range

We will be manufacturing world class customized Pre - Insulated Ducting Solutions, Energy Efficient Flanges, Leakage Testing Machine & Other wide range of Air Management Products for Industrial & Commercial applications.

Our Dimensional accurate products along with customer centric service will lead to our Steady Growth and respectable standing in the Indian HVAC & R Industry.

At “**DUCTLANE ENGINEERS**”, we are Responsive to customer need and this will fuel us to innovate new products and provide Customized yet affordable Quality solutions. Our technically sound and experienced team takes pride in manufacturing leak proof quality products. We deliver Customer Satisfaction and go above and beyond to serve them.

Ductlane engineers will be the first company in pune region to supply all type of (Rectangular ,Spiral ,Round and Oval) Duct under one Roof , along with Grill and Damper .

Value addition service from **Ductlane Engineers** will be that , we are also providing all type of test required in HVAC field such as (Leak Testing , pressure Testing and Duct cleaning Facility) and IAQ (Indoor Air Quality test) to client on Extra charges.

“DUCTLANE ENGINEERS” PRODUCT RANGE

01 SHAPES – RECTANGULAR ~ ROUND ~ OVAL & Spiral

A} RECTANGULAR DUCTS:

- WITH TDF FLANGE - TDF (25mm & 35mm)
- WITH SLIP-ON FLANGES
- WITH ANGLE FRAMES.

B} SPIRAL ROUND DUCTS & FLAT OVAL DUCTS

- WITH – SLIP-COLLAR 1.5MM
- WITH MS RINGS / FRAMES.

C} Fabric Ducting

- Color Fabric Ducting As per site requirement.

02 MATERIAL (Selection of material is based on Quantities required & Respective Availability)

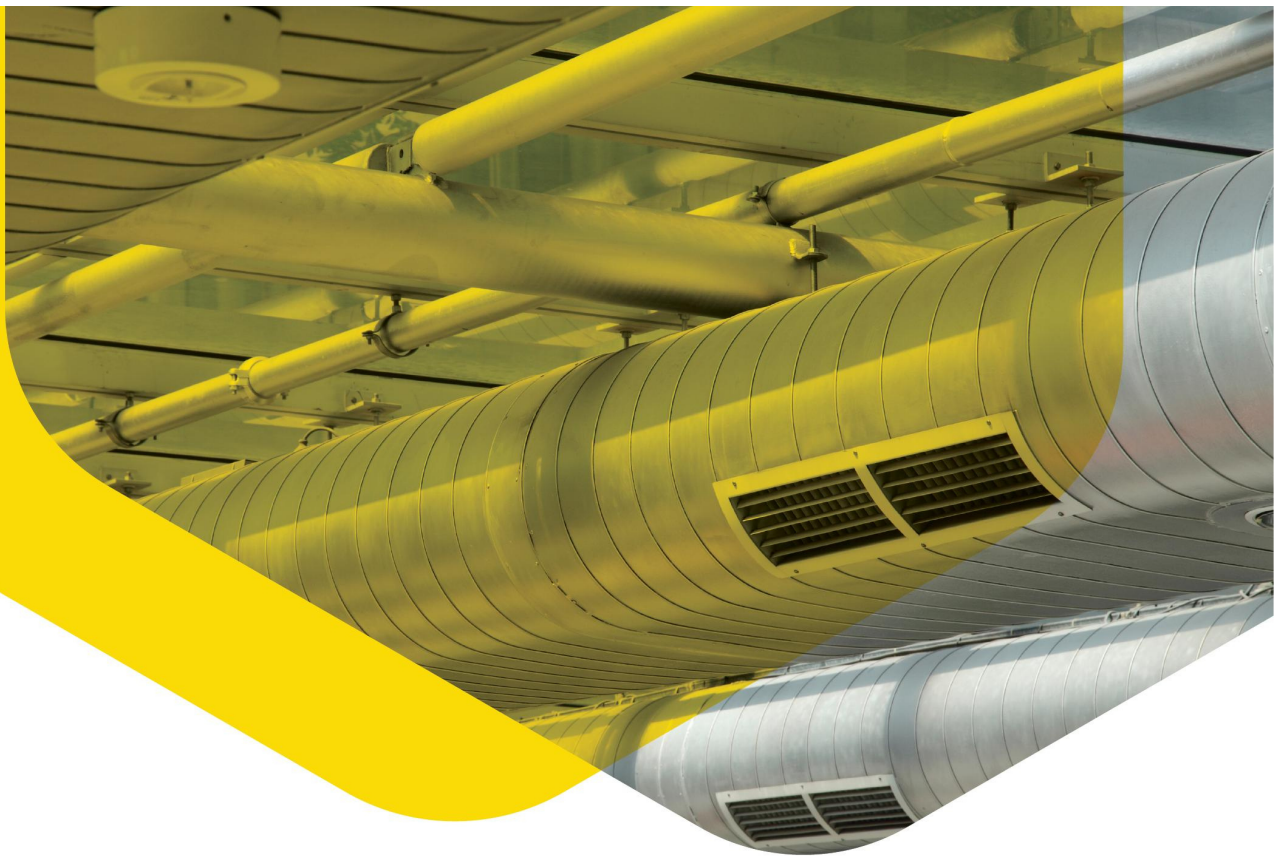
Galvanized Steel Stainless Steel- 304~316 Aluminum Fabrics
PPGI

03 PRE – INSULATED METALLIC DUCTS

WE WILL SERVE – FACTORY INSULATION DUCTS(BOTH THERMAL & Acoustic) – DULY WRAPPED WITH PROTECTION COVER

04 PRE – INSULATED NON-METALLIC DUCTS (PIR & PU)

WE WILL SERVE – FACTORY MANUFACTURED DUCTS (WITH ALUMINIUM LAMINATED PANELS WITH TDF FLANGES.



“DUCTLANE ENGINEERS” PRODUCT RANGE

05

AIR LEAK TEST RIG

- Air Duct – Testing As Per DW-143 & SMACNA
- AHU - TESTING AS PER EUROVENT & AHRI
- FIRE Doors: TESTING AS PER NFPA

06

KITCHEN EXHAUST DUCT

- BOTH RECTANGULAR & ROUND DUCTS AS NFPA & ASHRAE.
- Both with LOCK FORMED & WELDED SEAM.
- ANGLE FRAMES DULY WELDED / RIVETED WITH DUCTS.

07

CLEANROOM PRODUCTS

- LAMINAR AIRFLOW UNITS
- GARMENT CUBICLE & PASS BOXES.
- CROSS OVER BENCHES 7 DISPOSAL CABINETS
- BAG IN ~ BAG OUT
- HEPA ~ TERMINAL BOXES.
- GARBAGE CHUTES.

08

OTHER PRODUCTS: Air distribution Products

- DIFFUSER BOXES & LOW-PRESSURE PLENUMS.
- SOUND ATTENUATORS.
- CANVAS CONNECTIONS / TRAP DOORS
- GI VOLUME CONTROL DAMPERS.
- ANGLE FRAMES & Slip-On Flanges
- Linear/Square Grills Slot Grills



MANUFACTURING PROCESS FLOW CHART – RECTANGULAR DUCTS

Full Auto Rectangular Duct forming Coil Line III

Consists of material feeding frame , leveler grooving rolls .

Hydraulic notching and punching equipment and hydraulic folder .

Control Panel is controlled by CNC system with higher manufacturing precision and stability .

The Maximum work speed is 16m/min

The length tolerance is ± 0.5 mm.

The diagonal tolerance is ± 0.8 mm.

It is with highly efficiency and automatic and Also save material .

Its is very suitable for mass production of square duct Manufacture.

Basic Configuration

1. One sets of single-motor driven dual –decoilers (max Capacity of 6 Ton per Station)
2. Straightener Unit with Beading
3. Punch tie rod hole for duct bracing (Optional))
4. Four hydraulic notching unit .
5. Hydraulic shearing and folding unit.



TDF FLANGE FORMING MACHIN

**At last ,an affordable ,full service, high quality transverse .duct flange machine!!!
It is versatile ,too. This 14 station roll former comes standard with the TDF rolls and the
Clip rolls**

**This TDF roll former will roll sheet metal into leak proof sealable TDF Flange
Automatically .**

**Start saving time and money by forming your
Own TDF flange –with their snap on corners
And eliminate spot welding altogether.**

**The TDF roll former enables to greatly reduce
Tie rod and angle iron use .**

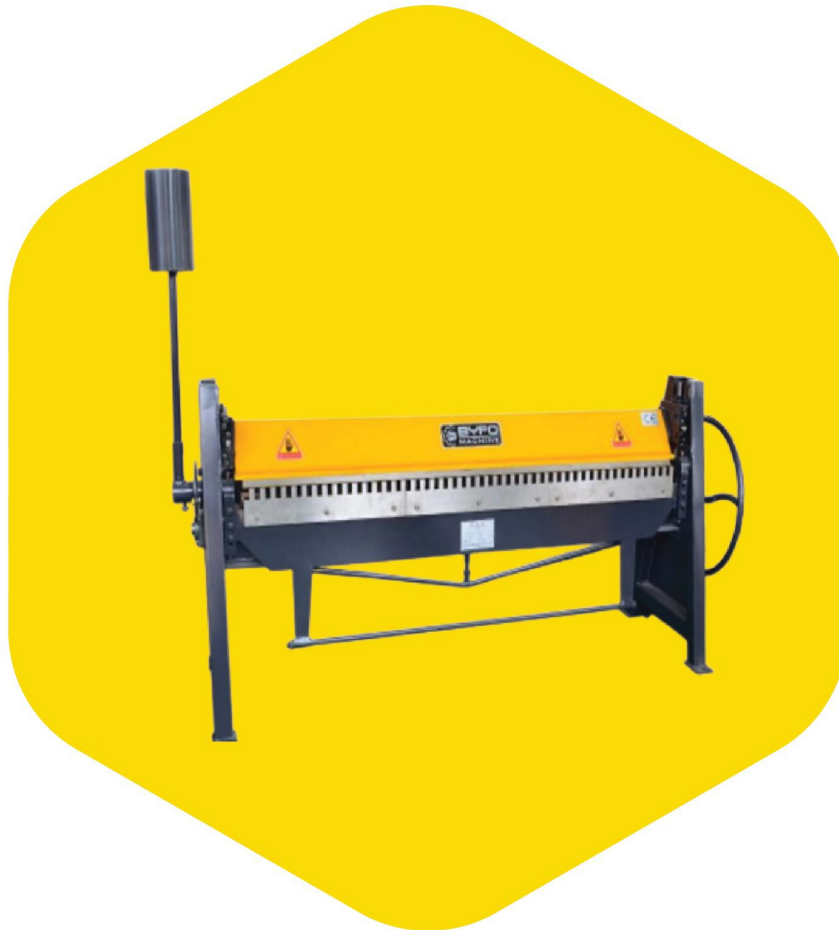




SPRIAL AND OVAL DUCTS UNIT

The spiral duct forming machine is equipped with flexible strip molds capable of producing variable diameters and a high speed synchronic tracking-cut system for high working efficiency. Light weight and compact, this machine is perfect for on-site work. PLC control enables user-friendly operation,

The spiral duct forming machine BTF-I is used to produce the round rigid air duct for ventilation purpose, diameter from 80-1000mm, with wall thickness 0.4-1.0mm galvanized steel. Feature 1. Special aluminum alloy mold, light & long life 2. Round roller shear, without noise and burrs 3. Large diameter range 4. PLC control, convenient operation 5. Auto unloading rack, low labor cost Main configuration 1 Uncoiler:



TDF FOLDER MACHINE

An affordable ,full service ,high quality transverse duct flange folding machine!!!

It is versatile too. This TDF hand Folder easy to operate .

TDF hand Folder comes in two model 1300x1.2mm & 2500 x1.2mm

TDF Pneumatic Folder 1500 x 1.2mm



16 GAUGE PITTSBURGH LOCK ROLLFORMING MACHIN WITH FLAT 'S' & DRIVE CLEAT

A WORKHORSE !!! The 16 Gauge Pittsburgh Lock machine has 7 forming station With 2 forming positions . One positions forms the Pittsburgh Lock ,while the outboard position forms Right Angle Flange Rolls.

Outboard position has the ability of forming a number of other profiles, to include Acme , Drive Cleat ,Plain Seam / Safe Edge or 3 in 1 Rolls.

Pittsburgh profile is Principally used for joining sheet metal at right angle on straight Runs.

The S & Drive cleat roll former is a versatile performer. It's payback in scrap savings will pay for itself In no time.

The S & Drive Cleat is formed using 22gauge or Lighter sheet on this machine .

When fitted with auxiliary rolls , the payback is even Faster.

S & Drive Cleat rolls to and make cleats in one pass
S Cleat rolls down center..

Drive Cleat rolls outboard on one side . Other Auxiliary Profile rolls can be fitted, on the opposite side of Drive Cleat Rolls.



DUCT BEADING MACHIN

Beading is a cost conscious way to stiffen duct work.

This duct work prep machine produces beads as per SMACNA (Sheet Metal and Air Conditioning Contractors' National Association) standards.

This machine has high precision needle type bearings, Turned ,Ground and Polished steel forming rolls and arc welded steel stand .

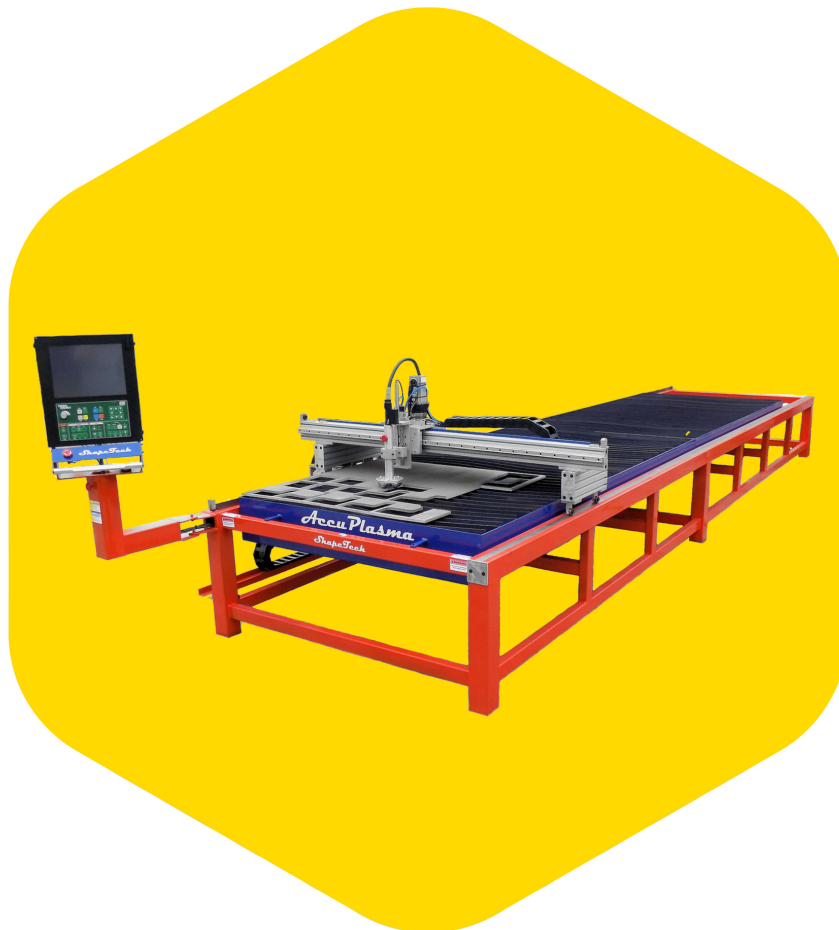
MODEL AVAILABLE

4FT 1250 mm x1mm thick

5 FT 1500 mm x 1mm thick

8 FT 2500 mm x 1mm thick





Plasma Cutting Machine

Key Features:

Low to high cut quality.

Smooth, edge surface.

Metallurgical perfect surfaces for welding.

Medium heat input.

High speed cutting.

Hardening within the area of the HAZ.

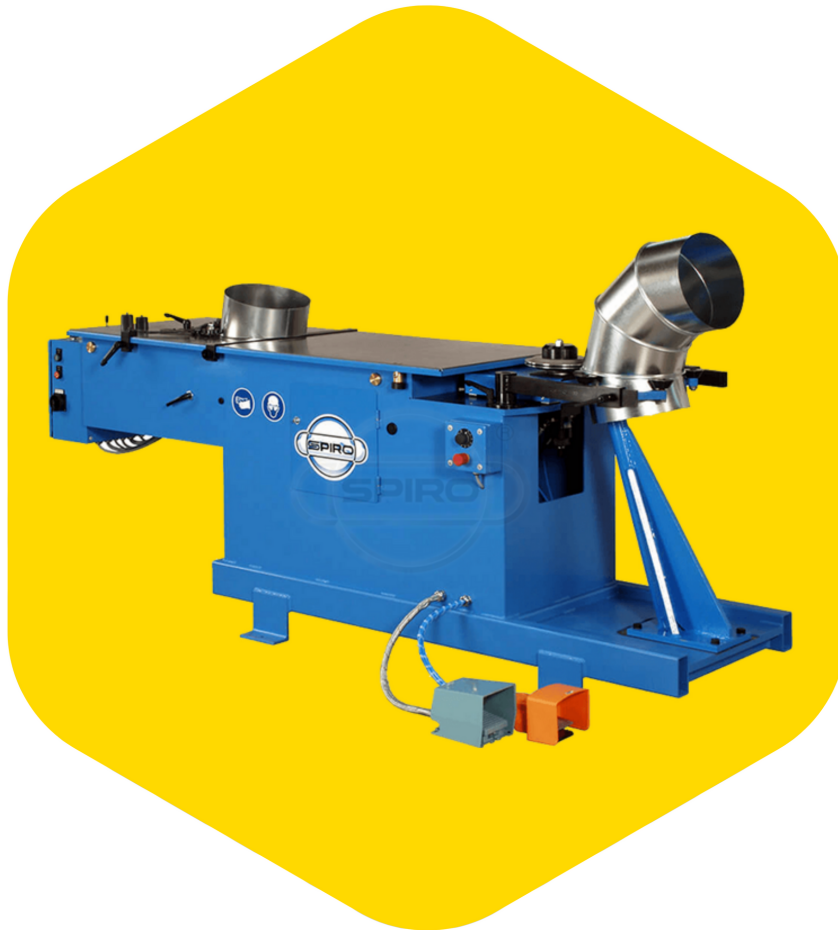
Wide range of material such as Galvanize sheet, stainless steel, mild steel, and aluminum.





Spiral Round Flat Oval Duct Machine

Spiral duct oval machine transforms smooth and corrugated round spiral duct into the Flat-oval duct. Machine control is by PLC, and the LCD UNIT on the operator's panel stores all set parameters for easy recall by the operator when required Oval duct machine can satisfy most ductwork requirements in the Heating, Ventilating and Air-Conditioning industry. It can adjust to a variety of Round Duct sizes between 18"(450mm) and 60"(1500mm) diameter into Flat-Oval Ductwork.



Gorelocker Combi I Machine

High production Gore locker produce standing lock seam elbows and reducers. The high flexibility is achieved by means of 2 separate workstations: a flanging station and seam closing station. The machine is always ready for operation without time-consuming conversion. The standing seam reduces welding to just one longitudinal seam and improves rigidity.

FACTORY FABRICATED DUCTS

In today's times conventional site fabricated ductwork is dying out and factory fabricated ductwork is gaining popularity at a very fast pace. In a striking departure from conventional ductwork at site, we at Ductlane make ducts on numerically automated machines.

Why? -- Factory Fabricated Ducts

The benefits of Factory fabricated ducts over the conventional site fabricated ducts are as follows:

The benefit of factory fabricated ducting is that ducts are made from GI coils instead of sheets. Thus the duct is aligned properly after installation while the duct made out of sheets will be out of alignment as the reference point is the corners of the sheet which itself is not at right angle. The straight ducts are made on AUTO FOLDER, which aligns, makes stiffening braces, notches and bends and cuts the cut to the size all in one attempt.

With the G.I. coils we have consistency in the quality of material, while in sheets we do not know if the entire lot is of the same quality as there is a lot of seconds material available in market which not be differentiated by naked eyes. The straight ducts are made on AUTOFOLDER, which aligns, makes stiffening braces, notches, bends and cuts the duct to the size all in a sequence as the data is feed into the machines directly from the drawing.

The elbows, offsets, profiles, tapers etc are made on a machine called PLASMA PROFILE CUTTER.

The male parts of the profile etc are made on a machine called FLANGER and not by hand thus loosing consistency.

The Lapat (Curved Side) of the elbow is made on the rolling machine and not by hand again.

The Pittsburgh lock is made on the LOCK FORMER.

The sealant for high-pressure ducts is injected in the Pittsburgh lock by the machine in the longitudinal joints and not latter by silicon tubes.

As the machine are all CNC automated we provide a detailed computer gen-erated packing list, Area Summary with each duct piece numbered.

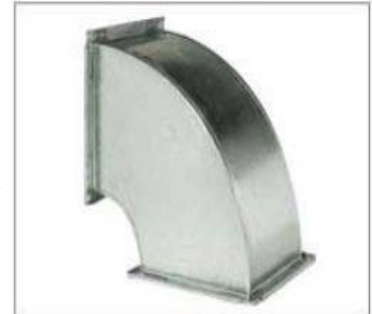
FACTORY FABRICATED DUCTS

As the name suggests this duct work is made in the factory as opposed to the project site. The benefits of Pre fabricated duct over site fabricated are

- Low lead time leading to faster project completion
- Low leakage leading to lower energy loss.
- Ducts are made from G.I.coils instead of sheets.

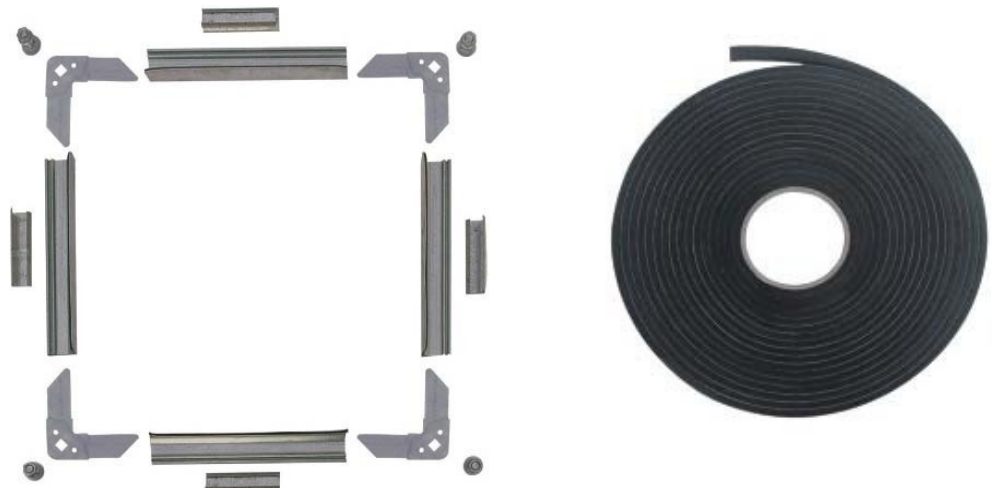
Thus the duct is aligned properly after installation while the ducts made out of sheets will be out of alignment as the reference point is the corner of the sheet which itself is not at right angle. The straight ducts are made on Auto folder, which aligns, makes stiffening braces, notches, and bends, and cuts the duct to the size all in a sequence as data is feed into the machine directly from the drawing.

- With G.I. Coils we have consistency in the quality of the material, while in sheets we do not know if the entire lot is of the same quality as there is a lot of seconds material available in market which cannot be differentiated by naked eye.
- The elbows, offsets, profiles, tapers etc are made on a machine called plasma profile cutter.



FACTORY FABRICATED DUCTS

TDF DUCTS



Flanges : Roll-formed G.I. Section with embedded sealant. Available in different cross-sections to provide a range of rigidity and strength characteristics.

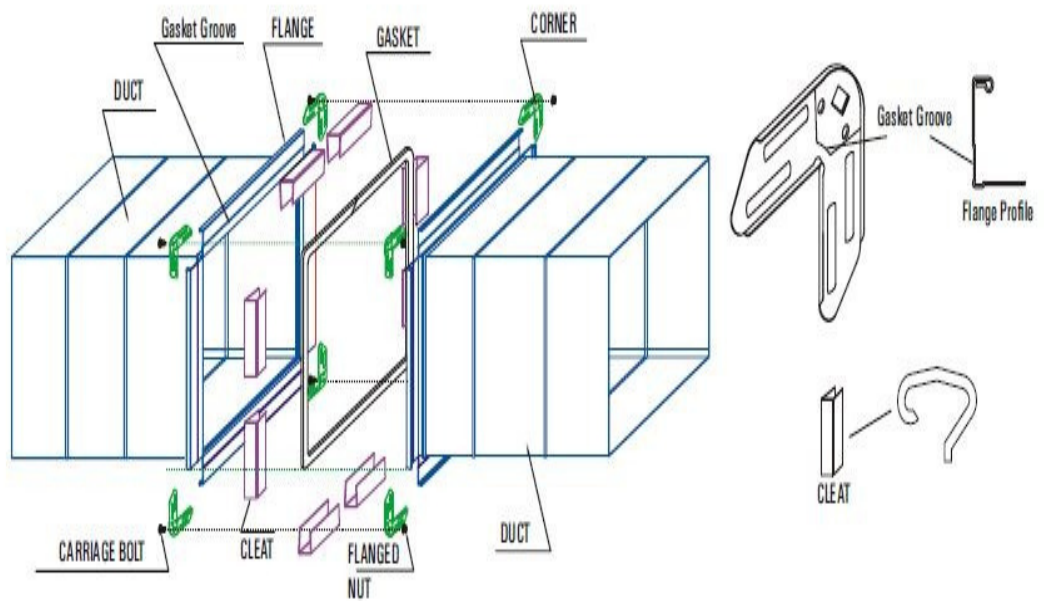
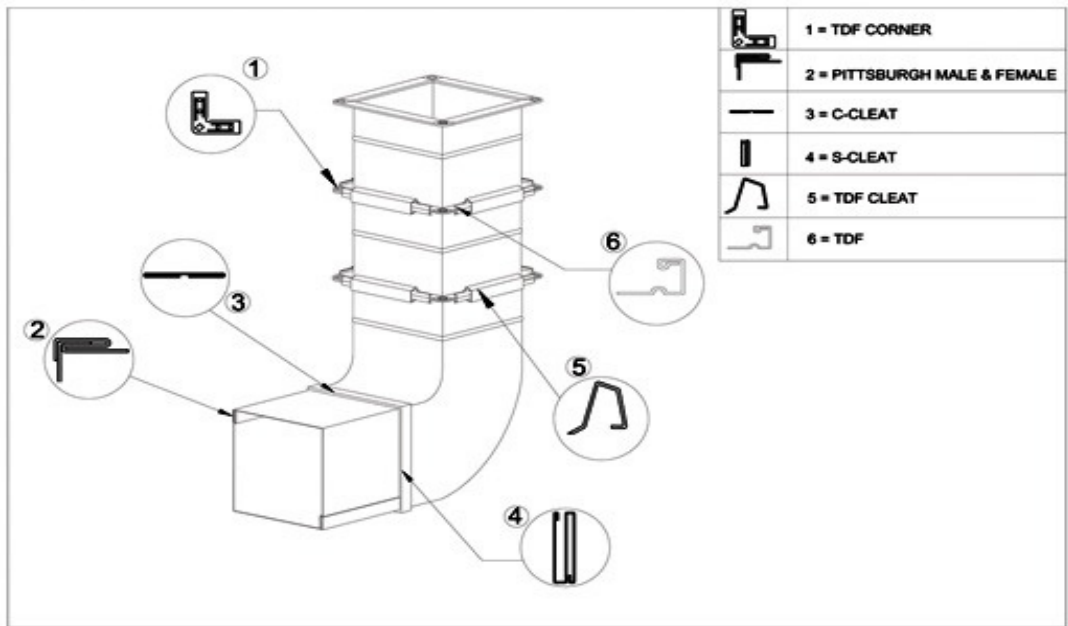
Corners : To be inserted into the hollow we of the slip-on flange. 4 corner pcs. are required for each rectangular frame, 8 corner pcs. per joint

Carriage Bolts with Flanged Nuts : Electro-galvanised, square-necked carriage bolts, with flanged nuts, Each joint required 4 sets.

Gasket : Self-adhesive, microcellular, cross-linked, Poyethylene foam type.
(Alternatives : PVC or Neoprene)

FACTORY FABRICATED DUCTS

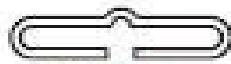
ASSEMBLED PRE FABRICATED DUCT



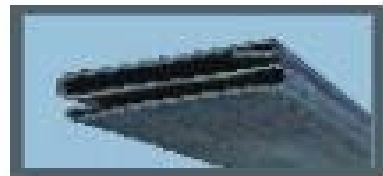
FACTORY FABRICATED DUCTS

FLANGES

We at Ductlane are into the manufacturing of three type of flanges, C & SS Cleat, TDC Flange & Slip- on Flanges

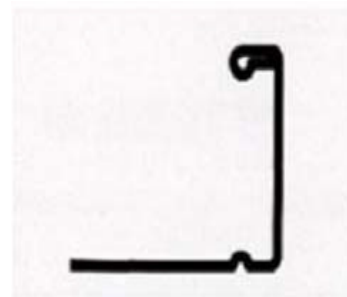


'C' Cleat



'S' Cleat

C & SS FLANGES



TDF FLANGES

THANK YOU

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